

**An Investigation of Relationships between Phytoplankton populations,
Water quality parameters, and Freshwater Inflows in Three tidal rivers
in West Central Florida**

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SECTION 1: Relationships between phytoplankton species abundance, composition, and water quality parameters with river flow in the Alafia, Little Manatee, and Peace Rivers.

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Introduction

Information on river flow, phytoplankton species composition and abundance, and water quality measurements from three tidal rivers in S.W. Florida were made available by the Southwest Florida Water Management District (SWFWMD) to assess relationships between freshwater flow regimes and a variety of phytoplankton and water quality indicators. The overall objective of the project was to analyze data from the Alafia, Little Manatee, and lower Peace rivers, comparatively, to determine if common physical and chemical factors affect phytoplankton populations in each river in the same manner. A second objective was to assess the similarities and/or differences in the phytoplankton community composition within and between each river. Intra and inter-river comparisons were made to the extent possible given the time periods of measurements available for each river.

The project consisted of three tasks: Task 1 was to collect the available data from SWFWMD and PBS&J, assess its utility and create new comprehensive databases that could be used for graphical and statistical analyses. Task 2 included examining the database using graphical and statistical analyses to assess the relationships between phytoplankton species composition and biomass (as indicated by chlorophyll-a concentration) with the physical/chemical and water quality data available for each of the three estuaries. Task 3 is the preparation of this final report.

An interim report was filed after completion of Task 1. There is little overlap in the time frames of data available from the three rivers. Species counts with coincident water quality and nutrient measurements were not available for simultaneous time frames in all three rivers. Phytoplankton composition and abundance data for the Peace and Little Manatee were available from January, 1988 through January, 1990 while similar data for the Peace and Alafia were available for March, 2000 to November, 2001. Therefore we were not able to compare all three rivers over the same time frames.

This report is submitted in two discrete sections. The first section contains descriptive, graphical analyses of phytoplankton composition and abundance, phytoplankton “group” temporal distributions within given salinity zones of each river, summary tables of water quality and nutrient parameters for each river, and trends/relationships between river flow and biological and water quality parameters. The second section contains the results of statistical analyses of the complete data set using the non-parametric multivariate statistics program, PRIMER. This method was used to examine similarities and differences in species composition within and between rivers, species diversity within and between rivers and its relationship to nutrient and water quality parameters, and relationships between nutrients, water quality parameters, and species composition and abundance between and within rivers. We felt it would be best to keep the PRIMER analyses as a separate section because of its overall length and its associated tables and figures. Finally there are two large appendices. One consists of figures related to the first section of the report and the other contains the results of PRIMER analyses in tabular format.

Graphical analyses

River flow and salinity zones

Available flow data for the three rivers is seen in Fig. 1. Flow rates in the Peace River were typically greater than the Alafia and Little Manatee but all three rivers displayed the same seasonal cycles with increased flow during the summer-fall rainy season evident in both the Alafia (Fig. 1B) and the Little Manatee (Fig. 1C). While flows in the Peace were typically higher than the other rivers, flows per unit area of the drainage basin were similar for all three rivers (Table 1). Since overall input is typically related to rainfall amounts within the drainage basin then the similarity between

Table 1 : Total river flow normalized to drainage basin area for comparable time periods in the Alafia, Little Manatee, and Peace Rivers

Time Period	River	Total flow (Sum cfs)	Basin size (km ²)	Flow/km ²
Dec. 1987 to Jan. 1990	Peace	937044	6087	154
	LMR	139457	572	244
Jan. 1999 to Dec. 2001	Peace	1236397	6087	203
	Alafia	236716	833	284

normalized flow suggests that rainfall amounts were similar within the region encompassing the three river systems.

Variation in flow rates, however, also determines the location of salinity zones within the river (Flannery et al.,

2002). Plots of the annual distribution of salinity zones for each of the rivers can be found in Appendix 1 for this section of the report. The downstream excursion of all salinity zones during the summer/fall rainy season may exceed 10 km or more. Average values for the location of comparable salinity zones over similar time periods are found in Tables 2 and 3. Distances are measured from the mouth and are typically greater for the Peace than for the Alafia and Little Manatee. Location of the salinity isopleths within the rivers is relevant to the potential impacts on fringing vegetation, the inception and growth of phytoplankton blooms within the river, and the phytoplankton species composition available for grazing by benthic infauna. Typically high flows yield low phytoplankton biomass characterized by freshwater species.

Water quality and nutrient concentrations

Over comparable time frames in the same salinity zone most water quality and nutrient levels were similar in all three rivers (Tables 2 and 3), given the variability about each average value. However, each river does have several characteristic parameters. Silicate concentrations at all salinity zones in the Little Manatee were typically higher than in the Peace whereas the Peace displayed greater average color values than the Little Manatee. Average inorganic nitrate and phosphate concentrations were similar in the Peace and Little Manatee but inorganic nitrogen levels were somewhat higher in the Alafia. Inorganic phosphate concentrations were elevated in the Alafia at higher salinities than in the Peace or Little Manatee. Consequently, with the exception of the 0 salinity zone in the Little Manatee, chlorophyll concentrations were typically higher in the Alafia followed by Peace with the lowest values in the Little Manatee.

One feature that does distinguish the Little Manatee from the Peace and Alafia rivers is the TN:TP ratio. Average values for the Little Manatee are three to four times

higher than found in the Peace for a comparable time period (Table 4). All three rivers have similar DIN:DIP ratios (Table 4), as indicated by the concentrations (Tables 2 , 3), and the TN:TP and the DIN:DIP molar ratios for the Alafia and Peace are similar and indicative of phosphorus enrichment relative to nitrogen. The Little Manatee TN:TP ratios, however, suggest low phosphorus availability

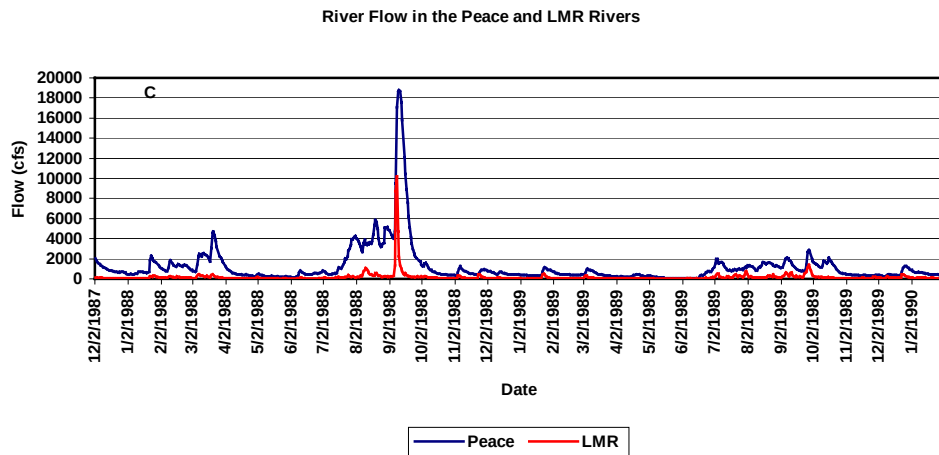
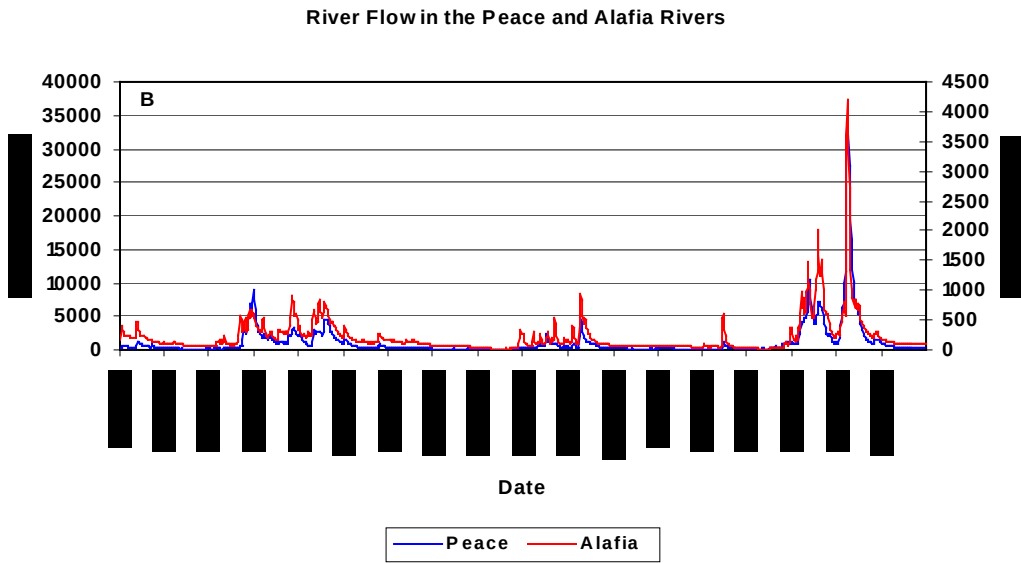
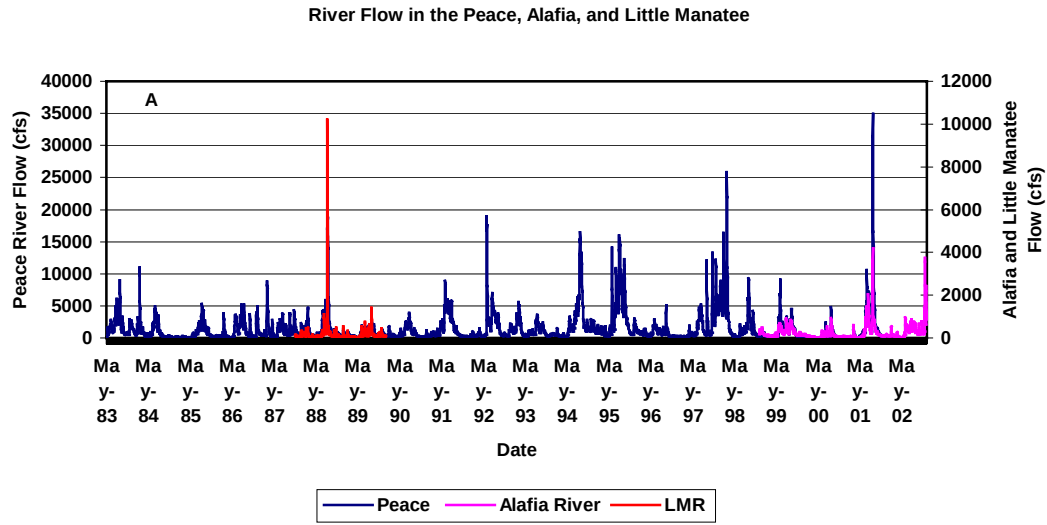


Figure 1: River flow in the Alafia, Little Manatee, and Peace rivers.

Table 2 : A comparison of average water quality parameters in surface samples from the Little Manatee River and the Peace River for comparable time frames and salinity zones.

	0 psu		6 psu		12 psu		18 psu		0 psu		6 psu		12 psu		18 psu	
	LMR	Peace	LMR	Peace	LMR	Peace	LMR	Peace	LMR	Peace	LMR	Peace	LMR	Peace	LMR	Peace
	Average								Stdev.							
Location (km upstream)	7.64	21.01	4.82	13.31	2.55	8.35	1.14	2.88	6.08	5.88	5.02	5.38	3.52	9.10	2.51	9.19
Ammonia (mg/l)	0.07	0.08	0.08	0.54	0.08	0.02	0.08	0.02	0.08	0.09	0.10	0.46	0.09	0.02	0.08	0.02
Nitrate + Nitrite (mg/l)	0.42	0.46	0.16	0.05	0.09	0.11	0.05	0.06	0.25	0.42	0.21	0.04	0.12	0.13	0.05	0.13
ortho-Phosphate (mg/l)	0.30	0.70	0.31	0.51	0.32	0.37	0.32	0.25	0.11	0.18	0.10	0.10	0.09	0.08	0.09	0.12
Silicate (mg/l)	4.88	1.16	3.74	2.06	3.06	1.56	2.17	0.93	2.03	0.64	1.51	0.97	1.34	0.80	1.19	0.76
TN/TP	25.31	1.16	23.85	2.74	17.35	2.18	16.51	2.87	nd	0.64	nd	3.52	nd	1.17	nd	2.09
Color	106.81	122.00	74.67	96.40	50.32	74.72	30.00	43.60	64.90	86.44	41.91	53.97	24.84	37.04	14.57	19.44
Turbidity	5.65	2.10	4.12	3.40	2.96	3.80	2.77	2.70	4.43	nd	1.92	nd	0.83	nd	1.32	nd
TSS	6.62	nd	8.00	nd	8.35	nd	10.63	nd	4.53	nd	2.57	nd	2.11	nd	3.22	nd
DOC	13.95	15.00	11.58	14.00	9.48	13.00	7.60	6.50	5.70	nd	3.89	nd	2.79	nd	2.25	0.00
Chlorophyll-a (ug/l)	20.47	8.90	13.66	22.13	8.48	31.52	4.01	7.85	14.46	14.50	8.68	22.51	8.09	65.97	1.90	10.93

Table 3: A comparison of average water quality parameters in surface samples from the Alafia River and Peace River for comparable time frames and salinity zones.

	0 psu		6 psu		12 psu		18 psu		0 psu		6 psu		12 psu		18 psu	
	Alafia	Peace	Alafia	Peace	Alafia	Peace	Alafia	Peace	Alafia	Peace	Alafia	Peace	Alafia	Peace	Alafia	Peace
	Average								Stdev.							
Location (km upstream)	10.67	29.37	7.24	15.63	5.14	11.33	2.98	5.07	3.42	8.85	3.20	9.30	2.87	10.56	2.59	10.84
Ammonia	0.11	0.05	0.11	0.09	0.10	0.09	0.08	0.08	0.14	0.03	0.11	0.09	0.09	0.09	0.06	0.13
Nitrate + Nitrite	1.06	0.56	0.77	0.21	0.38	0.09	0.25	0.03	0.74	0.45	0.50	0.18	0.25	0.09	0.22	0.04
ortho-Phosphate	0.58	0.66	0.11	0.48	0.63	0.34	0.56	0.19	0.28	0.14	0.11	0.12	0.23	0.12	0.19	0.09
TN/TP	2.94	1.78	3.21	2.57	2.45	3.02	1.99	4.31	nd	0.84	nd	0.91		0.94		1.64
Turbidity	4.43	2.46	5.47	3.47	8.01	3.40	5.48	2.91	2.37	1.14	4.11	2.03	9.92	1.64	2.14	1.46
TSS	3.64	7.76	8.92	7.80	16.34	8.77	13.52	10.39	2.94	16.95	6.66	4.46	16.70	3.14	6.03	4.40
DOC	12.29	19.28	8.78	16.86	8.44	15.07	7.83	11.62	5.69	9.04	4.34	5.51	3.68	4.56	3.68	3.72
Chlorophyll-a (ug/l)	15.30	6.31	63.88	23.44	95.62	22.58	43.67	15.16	41.40	8.72	101.09	28.97	149.56	15.90	41.63	8.00

Table 4 : The molar ratio of dissolved inorganic nitrogen to phosphorus and total nitrogen to total phosphorus at comparable salinity zones in the Alafia, Little Manatee, and Peace Rivers

Salinity zone	<u>Alafia River (1999-2001)</u>		<u>Little Manatee River (1998-1990)</u>		<u>Peace River (1998-1990)</u>		<u>Peace River (1999- 2001)</u>	
	DIN:DIP	TN:TP	DIN:DIP	TN:TP	DIN:DIP	TN:TP	DIN:DIP	TN:TP
0	2	2.9	1.6	25.3	1.8	2.7	2.3	4.1
6	1.4	3.2	0.8	23.8	1.2	8.2	1.5	5.9
12	0.8	2.5	0.5	17.3	0.9	5.0	1.3	6.9
18	0.6	2	0.4	16.5	0.6	6.5	1.2	9.8

relative to nitrogen or reduced phosphorus enrichment. Since inorganic nitrogen and phosphorus concentrations are similar in all three rivers, it is unclear why the TN:TP ratios in the Little Manatee differ from the other rivers.

Molar particulate ratios (Table 5) for the river salinity zones and Ruskin Inlet were phosphorus depleted. Redfield ratios for C:P and N:P should approximate 106:1 and 6.6:1, respectively. The C:N ratios are close to Redfield proportions (6:1) suggesting that the particulate matter at all locations was nitrogen sufficient. Therefore, if the samples taken for TN

Table 5: Molar particulate C, N, P ratios for the Little Manatee River, 1988 - 1990

Salinity zone (psu)	PC:PN	PC:PP	PN:PP
0 avg.	6.8	374.0	54.6
6 avg	7.2	400.7	55.6
12 avg.	6.9	329.4	47.9
18 avg.	7.2	389.7	53.9
Tampa Bay	8.7	7.6	0.9
Ruskin Inlet	6.1	524.3	85.5

and TP analyses were not filtered and contained significant amounts of particulate matter with their elevated N:P ratios, then the TN:TP ratios may have been skewed upward. Lower particulate C:P and N:P ratios in Tampa Bay are indicative of phosphorus enrichment and further enhance the suggestion that phosphorus was limiting in the Little Manatee River at high phytoplankton biomass.

Phytoplankton composition

Comparisons of phytoplankton groups were only possible for the time periods when sampling periods overlapped. These

periods were 1988 to 1990 in the Little Manatee and the Peace rivers and 2000 to 2001 in the Alafia and Peace rivers. Therefore a direct comparison between the Little Manatee and Alafia was not possible.

Based on the overall average of cell counts for each group, the Little Manatee was dominated at all salinity zones by unidentified microflagellates (Fig. 2A). Diatom populations were the next most abundant group at the 18 psu zone in the Little Manatee but were about equally abundant at all salinity zones in the Peace (Fig. 2A). Dinoflagellates occurred at salinities > 6 psu in the Peace but not in the Little Manatee. Populations of flagellates, diatoms, and dinoflagellates were highly abundant in the Alafia relative to the Peace during 2000 and 2001 (Fig. 2B). Indeed blooms of several species of dinoflagellates, including members of the genus *Prorocentrum*, and several chrysophyte flagellates dominated the phytoplankton in the Alafia river.

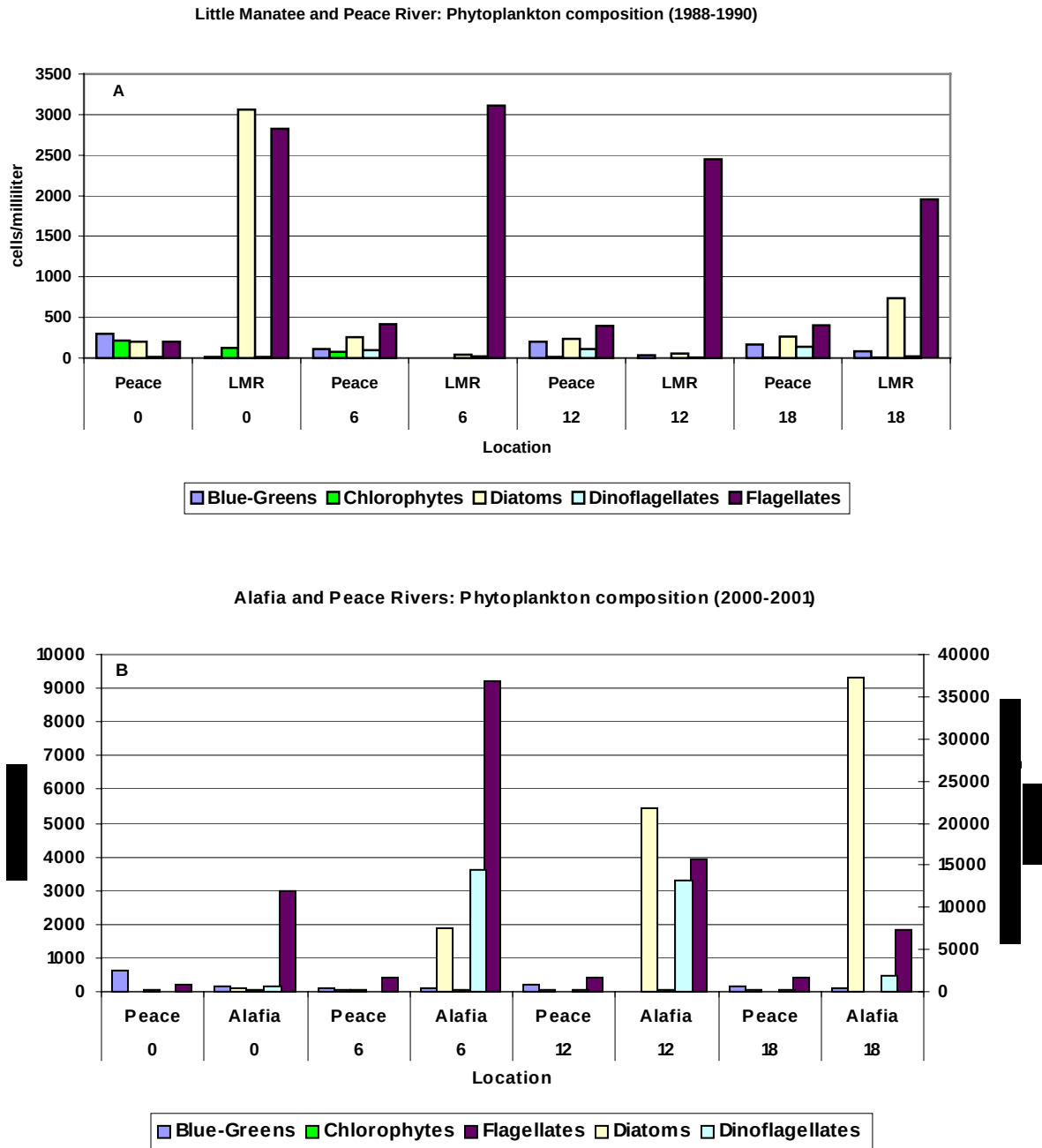


Figure 2: Comparison of phytoplankton groups at comparable salinity zones during the same time frames. A. Little Manatee and Peace rivers for 1988 to 1990, B. Alafia and Peace rivers for 2000 to 2001.

Group abundance, seasonal patterns

Little Manatee and Peace, 1988 - 1990

Seasonal shifts in the classes of phytoplankton for comparable time periods at specific salinity zones can be found in Appendix 2 and 5. The only overlap in temporal sampling occurred at the 12 psu salinity zone in the Little Manatee during 1989. However, data from the

Little Manatee for 1988 is presented at all other salinity zones. Flagellates were the most abundant group throughout the year at all salinity zones in the Little Manatee, compared to the Peace, whereas chlorophytes and blue-greens were most abundant in the Peace at 0 psu throughout the year. A similar pattern was seen at the 6 psu salinity zone although diatom populations were typically abundant in the Peace from January through October. A major dinoflagellate bloom occurred in the Peace at the 6 psu zone from October through December whereas flagellates again dominated in the Little Manatee during that time frame. At 12 psu flagellates were abundant in both rivers but the Peace had major blue-green algal populations during summer interspersed with diatom blooms in the fall and dinoflagellates during winter (Appendix 5). At 18 psu flagellates were again abundant throughout the year in the Little Manatee with elevated diatom populations from January through March whereas blue-greens were abundant in the Peace during 1990 but not in 1989 with diatom blooms during fall and winter (Appendix 5). Overall the Peace and the Little Manatee had similar population levels of groups other than flagellates with dinoflagellate populations abundant in the Peace during fall (Sept. and Oct.). Total phytoplankton abundance in the Little Manatee was greater than in the Peace (Fig. 3) with the highest counts at the 0 psu salinity zone in the Little Manatee and the 6 psu salinity zone in the Peace.

Alafia and Peace, 2000 – 2001

Blooms of several flagellate species occurred in the Alafia at 0 psu during spring (March & April), in September, and again in November with elevated dinoflagellate populations in January and February. Blue-green algae were again the most abundant group in the Peace at this salinity zone throughout the year (Fig. 2b and Appendix 4). A dinoflagellate bloom occurred in the Alafia during January and February at all salinity zones with maximum population abundance at the 6 psu salinity zone but this group was a minor constituent of the phytoplankton community in the Peace River during the same time period. At 12 psu high diatom populations occurred in April, July, August of 2000 and August of 2001 in the Alafia. During these same time periods the Peace River phytoplankton community was much less abundant with blue-greens prominent from September 2000 through September 2001 (Appendix 4). Diatoms were again dominant in the Alafia during spring and summer of 2000 and 2001 at 18 psu whereas diatoms were dominant from January 2000 through September 2000 in the Peace but blue-greens became dominant from October 2000 through August 2001 (Appendix 4).

Overall, average phytoplankton population abundance in the Alafia River was a factor of two to more than one order of magnitude greater than in the Peace and Little Manatee Rivers at all salinity zones (Fig. 3). On average, maximum abundance was found at the 12 psu salinity zone in the Alafia, the 0 psu zone in the Little Manatee, and the 6 psu in the Peace. To some extent the annual average for the Little Manatee was biased by a single very high count of diatoms in October, 1988 with a similar peak in the Peace during April, 1990 (see Appendix 3

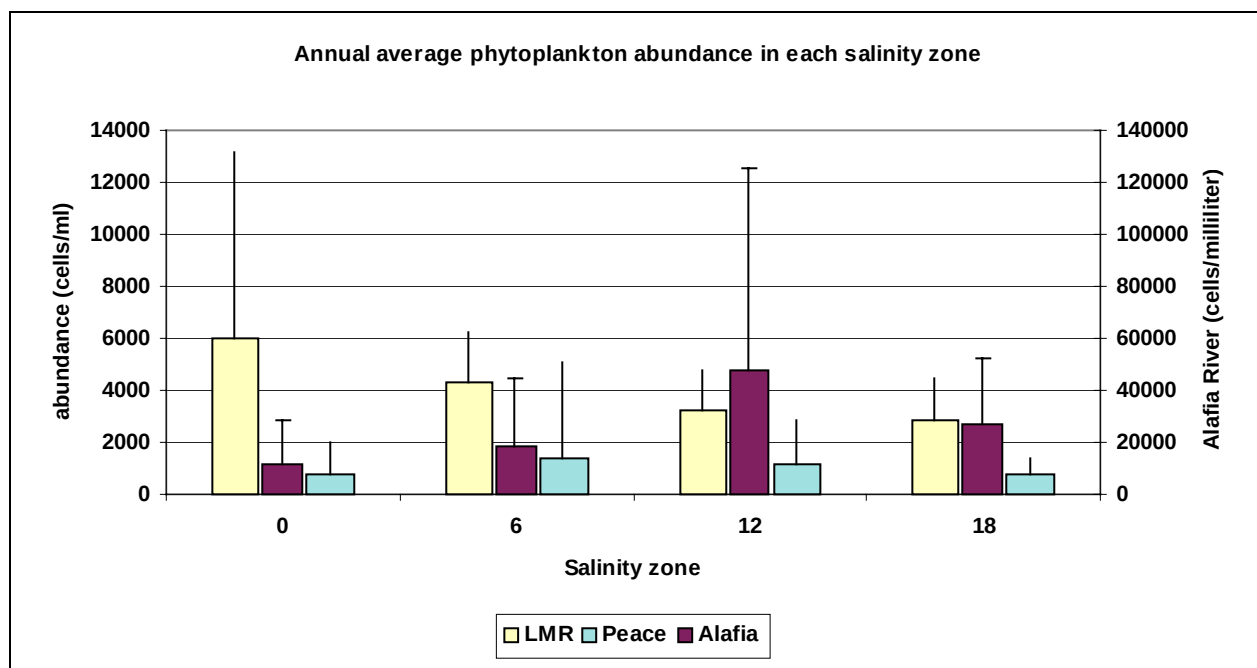


Figure 3: Annual average phytoplankton abundance in the Little Manatee, Peace, and Alafia rivers by salinity zone. The Alafia River data is shown on a separate axis since the counts are more than an order of magnitude greater than in the other rivers.

for seasonal plots of abundance in each river). The values shown in Fig. 3 are not strictly comparable since, as noted previously, sampling periods for each river did not overlap. A statistical comparison of this data set is presented in Section 2 of this report.

Peace River inter-annual shifts in phytoplankton composition

A shift in the composition of the major groups of phytoplankton in the Peace River occurred based on samples collected during 1989 to 1990 and 2000 to 2001 (Appendix 6). Based on t values comparing the counts for both seasonal cycles, significantly more blue-green algae were counted at all salinity zones over the 2000 – 2001 cycle than in 1989 – 1990. In the 0 psu salinity zone, both diatoms and greens were more abundant in 1989 – 1990 than in 2000 – 2001. Flagellates as a group were more abundant at the 6, 12, and 20 psu salinity zones in 1989 – 1990 with greens more abundant at the 6 psu salinity zone in 1989 – 1990 than in 2000 – 2001. The observation that blue green algae were more abundant in 2000 – 2001 and that flagellates were more abundant at most salinity zones in 1989 – 1990 is intriguing and suggests a shift in water quality over the 10 yr time frame but an inspection of water quality parameters (compare the Peace River parameters in Tables 2 and 3) and the DIN:DIP and TN:TP ratio (Table 4) does not reveal any differences that could explain the change in phytoplankton composition.

Relationships between abundance, chlorophyll concentration, and river flow

Abundance patterns of the major groups in relation to river flows typically averaged over the week prior to the collection of the sample for cell counts are presented in Appendix 7 for

each river and salinity zone. Patterns for each group at all salinity zones in relation to river flow for each river can be seen in Fig. 4. Based on the plots in Appendix 7 and Fig. 4, there is no discernable relationship between cell counts for any group and river flow. Generally, however, in the Alafia and Little Manatee (Fig 4a,b), maximum population levels of dinoflagellates, flagellates, and diatoms are found at flow regimes <400 cfs. This generality does not hold for the Peace River, however, where elevated dinoflagellate, flagellate, blue-green, and diatom populations range over the entire spectrum of river flow values (Fig. 4c). Blue-green algal populations might typically be associated with low flow periods were found in relatively high abundance over the entire range of flow rates (~10 to >2300 cfs). To some extent this could be the result of plotting counts from all salinity zones together but inspection of the figures for each salinity zone in Appendix 7 reveals the same wide range of flow rates where elevated populations of the major groups show no relationship with flow rates.

We used total cell counts from the four moving stations in the Alafia River to assess if any relationships existed between total abundance and river flow rates (Fig. 5). No specific relationships were found but, as with the abundance of each group (Fig. 4), maximum abundance was noted at lower river flow rates; typically below 400 cfs. This generality also holds for chlorophyll concentration at these same locations (Fig. 5).

However, chlorophyll concentrations measured at Alafia fixed stations (1,6,10,13,B, and C) did not show any relationships with river flow rates (Appendix 8). Salinity values at each of these fixed stations typically could be related to river flow rates as a power function with high r^2 values although at two locations, St. 1 and B, a linear trend between salinity and flow offered the best fit. The curvilinear salinity - flow relationships were found at lower salinity regions within the river whereas the linear relationships occurred at two locations that experienced the full salinity range and were located at 0.8 and 2.54 km from the mouth of the river; i.e. near Tampa Bay. Such a curvilinear relationship might be expected since the location of each salinity zone within the river varied with river flow as noted by Flannery et al. (2002) for the Peace and Little Manatee Rivers and as we found for the 6 psu zone in the Alafia (Fig. 6). Relationships for the 6 as well as the 0, 12, and 18 psu zones in the Alafia were described by logarithmic equations with r^2 values >0.74 (Appendix 9).

In the Alafia River elevated chlorophyll concentrations showed a bimodal distribution with high values representing blooms at or outside of the mouth of the river and between 5 and 12 km upstream from the mouth (Fig. 7a). The Little Manatee displayed a distribution with peak values centered around the 10 to 12 km region of the river (Fig. 7b) while the Peace had a bimodal distribution with >50 $\mu\text{g Chl L}^{-1}$ between 20 to 30 km outside the mouth and major blooms around the 10 km region of the river. Based on the average location of various salinity zones (Tables 2 and 3) the 10 km section of the Alafia would correspond to a salinity range of 0 to 6 psu whereas this area of the Peace would correspond to the 6 and 12 psu zones. Indeed, maxima in average values for chlorophyll are found at these salinity zones in the Peace and Alafia Rivers (see Tables 2 and 3).

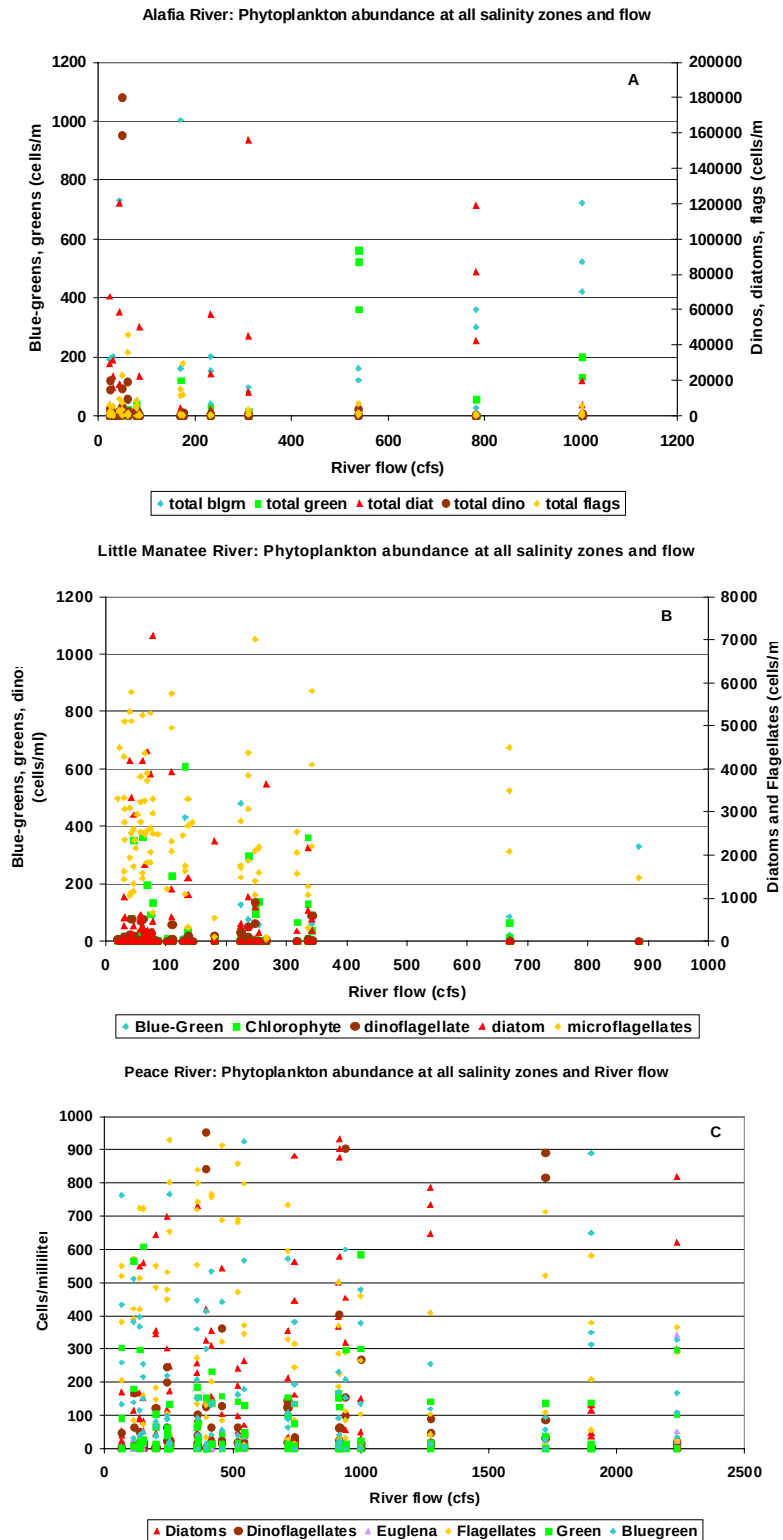


Figure 4: Relationships between the abundance of major phytoplankton groups and river flow rates in (A) the Alafia River, (B) the Little Manatee River, and (C) the Peace River.

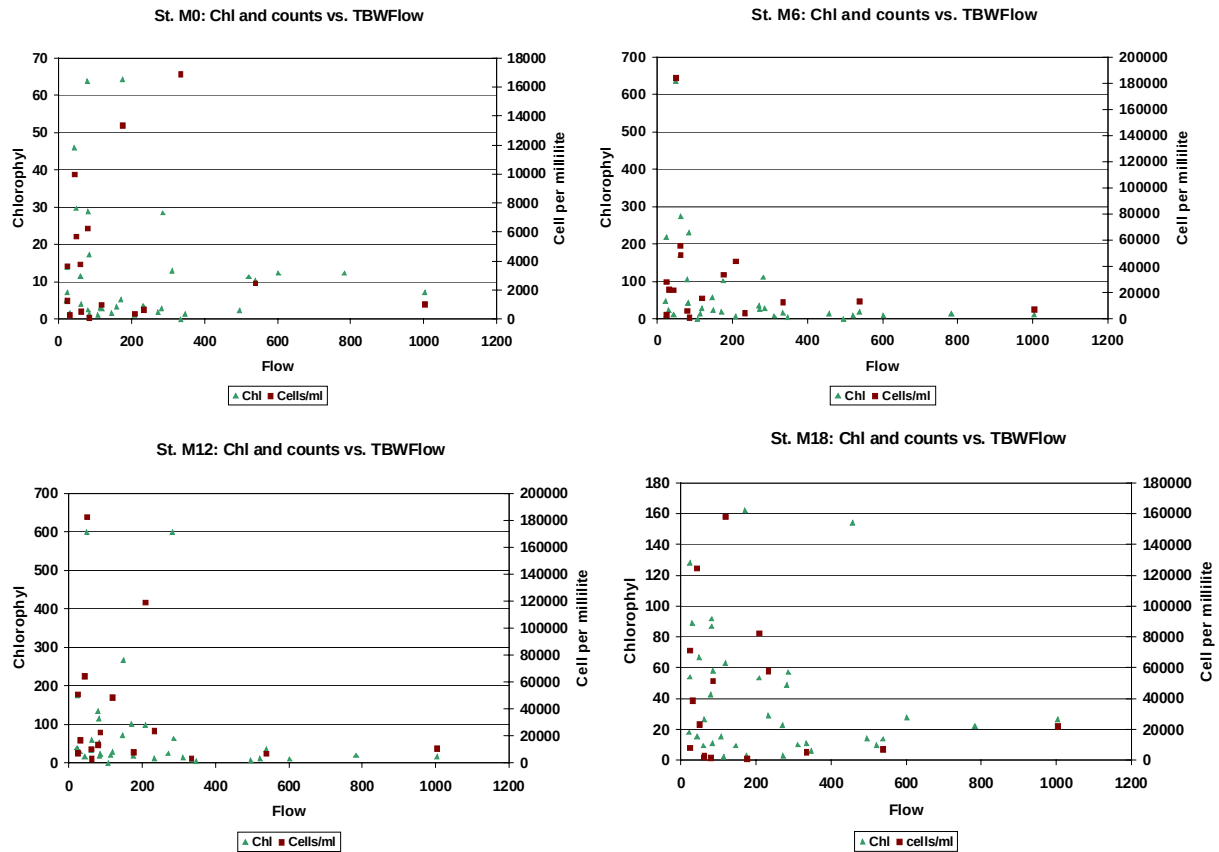


Figure 5: The relationship between chlorophyll concentration, total cell counts and river flow for locations in the Alafia River corresponding to the indicated salinity (0, 6, 12, 18 psu).

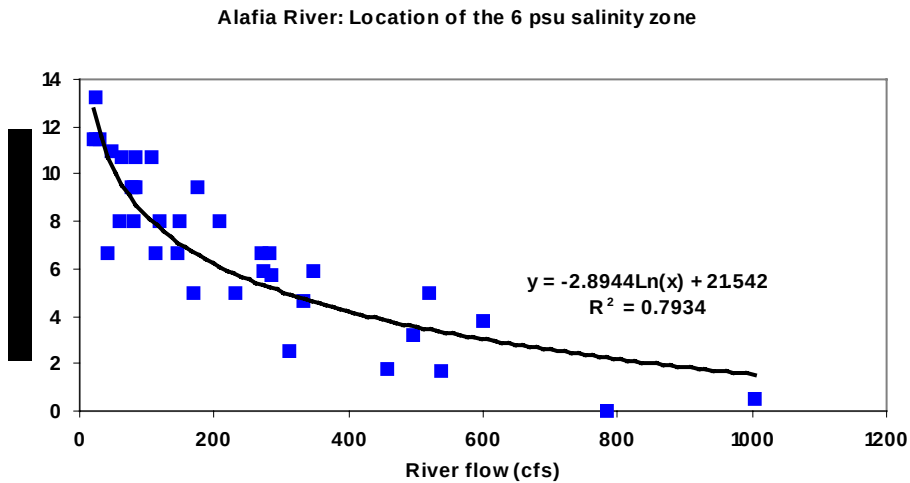


Figure 6: Location of the 6 psu salinity zone in the Alafia River for sample dates in 1999 to 2001.

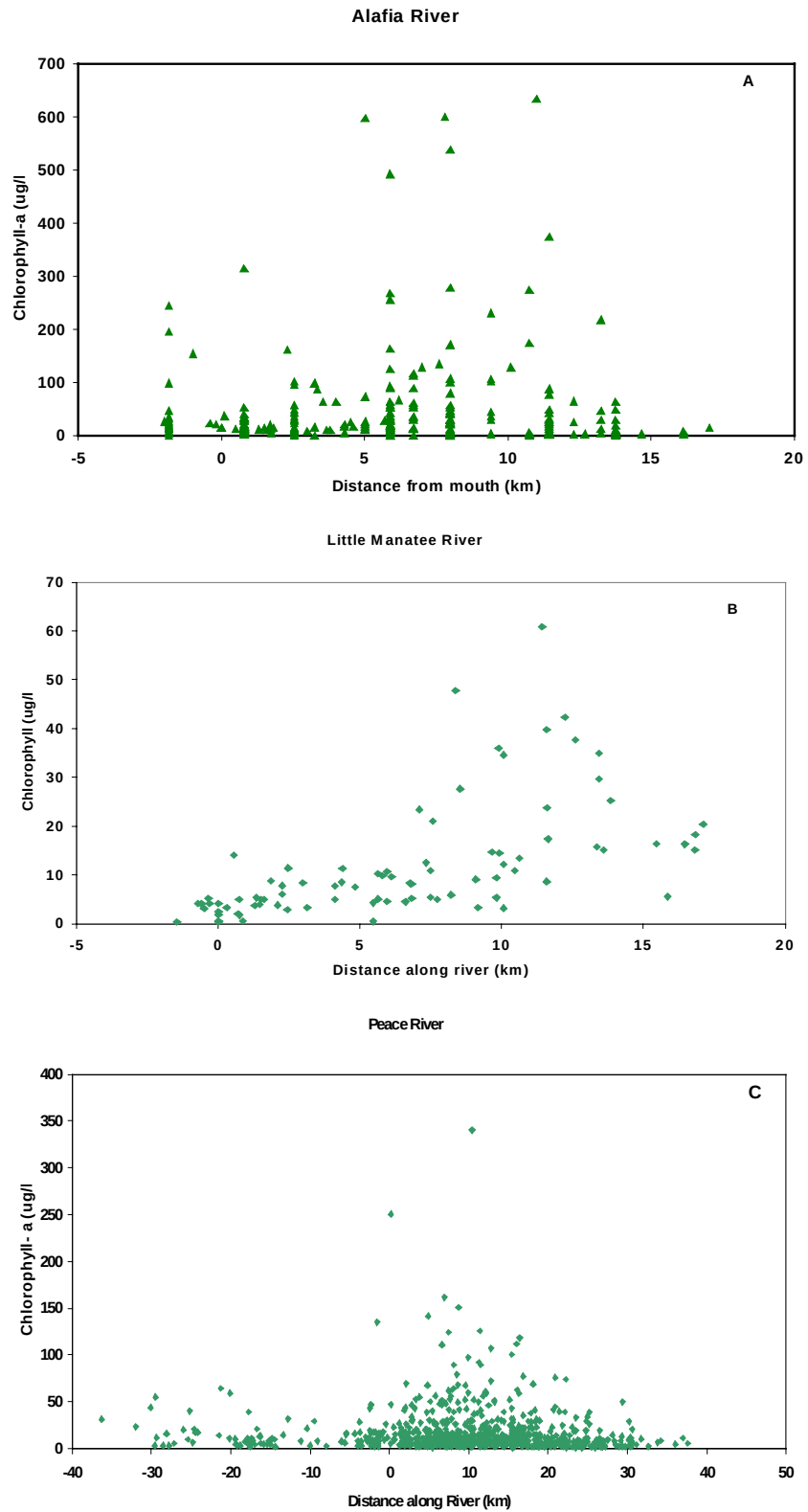


Figure 7: The distribution of chlorophyll concentration along the length of the Alafia (A), Little Manatee (B), and Peace River (C).

However, a plot of chlorophyll concentration as a function of salinity for the Alafia River indicates that concentrations $> 100 \mu\text{g L}^{-1}$ can be found throughout the entire salinity range of the river (Fig. 8) but the highest concentrations are within the 5 to 10 psu salinity range.

In an effort to assess if a relationship existed between the location of elevated chlorophyll concentrations and river flow we broke the chlorophyll values into several concentration ranges and plotted them against river flow. The results for the three rivers can be seen in Appendix 10. Although there is an occasional trend in the relationship between the location of chlorophyll

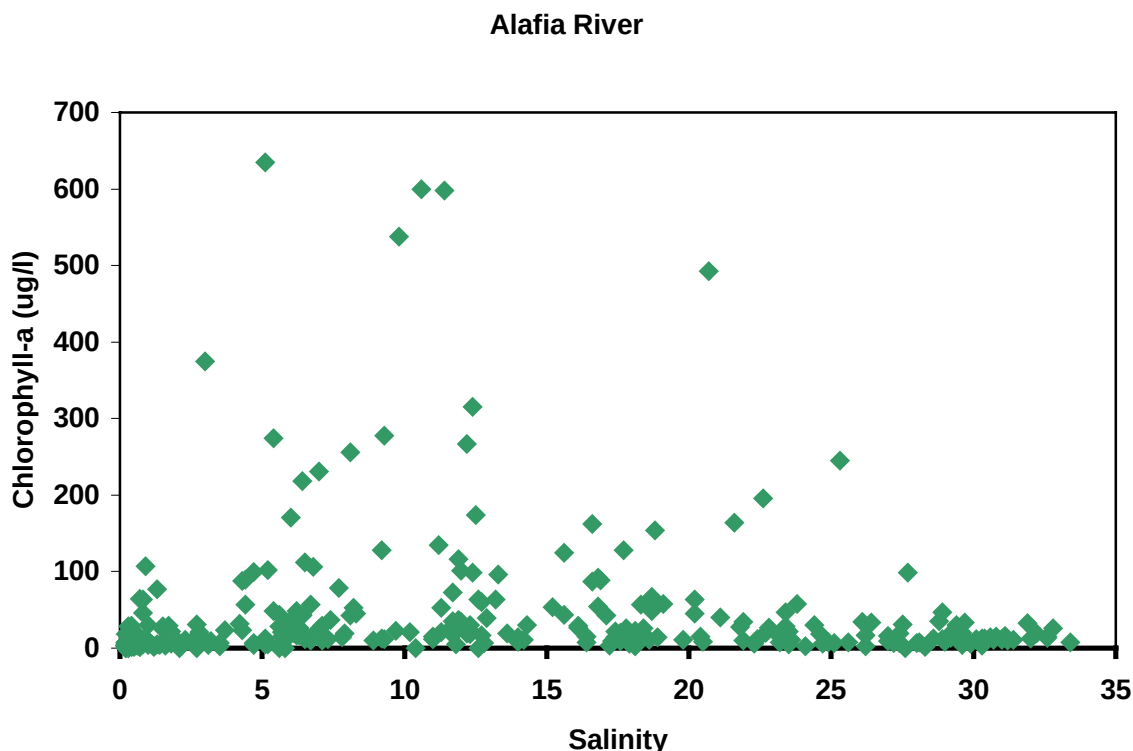
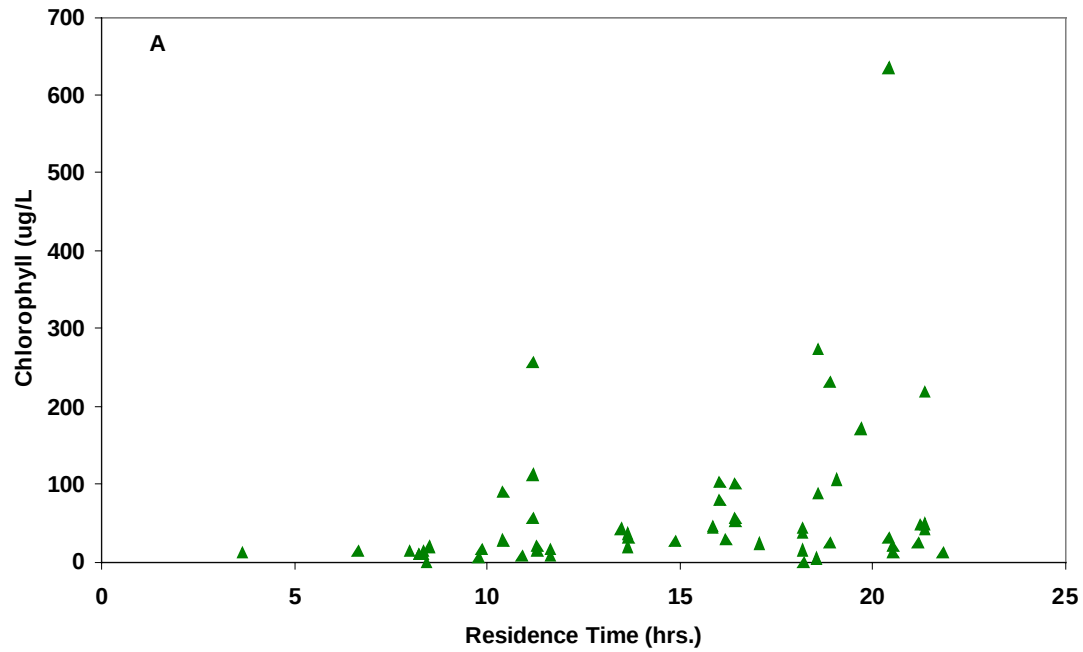


Figure 8: The distribution of chlorophyll concentration ($\mu\text{g L}^{-1}$) with salinity in the Alafia River

levels along the river and river flow rate, none of the correlation coefficients are high and are not considered to be significant. In the Peace River a large number of data points for chlorophyll levels $< 20 \mu\text{g L}^{-1}$ fell below flow rates of 3000 cfs so they were plotted separately. The values displayed a distinct curvilinear trend with flow rate but the correlation coefficient was low. This figure also showed that there was a large number of data points at flow rates < 500 cfs so it was again replotted to expand the scale up to this flow rate. At these lower flow rates, chlorophyll concentration showed a wide range of locations along the river with a broad but distinct inverse linear trend. However, there is a great deal of variation for a given river flow value that any relationship cannot be considered as significant. The linear trend line included in this figure is used to emphasize this point.

Alafia River <9 psu Salinity: Chlorophyll and Residence Time



Alafia River >20 psu Salinity: Chlorophyll and Residence time

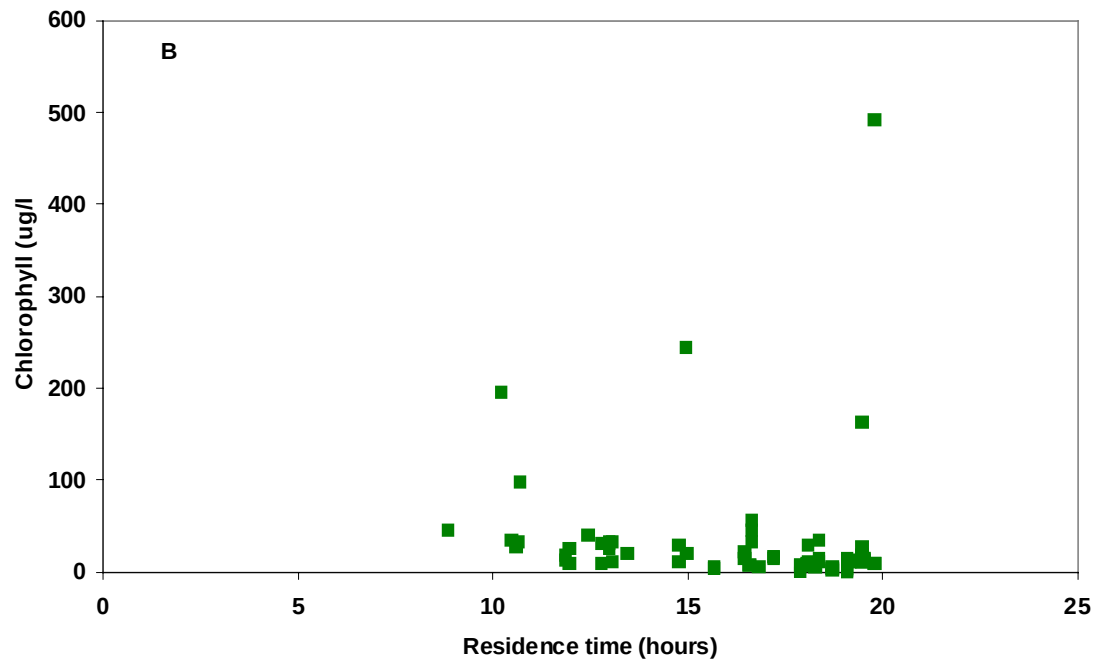


Figure 9: Chlorophyll concentration in the Alafia River as a function of residence time for salinities < 9 psu (A) and >20 psu (B).

Residence times for specific regions of the Alafia River were calculated by the SWFWMD to assess relationships between phytoplankton, nutrients, water quality parameters and the turnover time for a section of the river. One might expect that a short residence time, i.e. a high river flow rate, would lead to a reduction in a specific water quality property since it could be washed out of that section of the river. Conversely, high residence times imply low flow periods that would lead to the accumulation of material or, in the case of chlorophyll as an indicator of phytoplankton biomass, elevated chlorophyll levels. However, based on the results displayed in Fig. 9 we did not find any direct relationship between residence time and chlorophyll concentrations for two sections of the river characterized by a range in salinity although, in both locations, extremely high chlorophyll levels ($>200 \mu\text{g L}^{-1}$) were typically associated with residence times > 15 hours.

Chlorophyll concentrations found within specific sections of the river were also analyzed for relationships with river flow rate (Appendix 11). No relationships between chlorophyll concentration and flow rate were found for any section of the three rivers. In the Alafia, however, salinity levels within each river segment were related to flow. That trend was linear for the 0 to 5 km segment where as a logarithmic and power curve trend gave the best fit for the 5 to 10km and 11 to 17 km segments, respectively (Appendix 11). Relationships between salinity for a given segment and river flow could not be determined for the other rivers because the sampling scheme did not allow for collection of the required samples.

As noted previously, there was no relationship between chlorophyll concentration measured at a particular salinity in the Alafia River (Fig. 5) and river flow rate. A similar result was found for the Little Manatee and Peace Rivers (Appendix 12). Thus, in all three rivers chlorophyll concentrations were not related to river flow rates in general. However, as noted in Vargo (1990), periods of excessively high freshwater flows can effectively wash-out the Little Manatee River yielding minimal chlorophyll concentrations within the river with a maximum at, or some distance away from, the mouth.

Relationships between river flow, nutrients and water quality parameters.

A variety of dissolved nutrients, total nitrogen, total phosphorus along with water quality parameters such as turbidity, total suspended solids, total organic carbon, dissolved organic carbon and secchi disc depth that are typically used to characterize environments were examined with respect to river flow. For the Little Manatee and the Peace rivers which were sampled at particular salinity zones, each salinity zone was examined as a unit (see Appendices 13 and 14). Also note that the highest flow rate measured in the Little Manatee River, >4000 cfs on September 9, 1988, has not been included in the plots. Including this river flow rate yielded a highly skewed distribution of data points near the y-axis and only one data point at the highest river flow value). Sampling in the Alafia River consisted of fixed stations and stations located at particular salinities which gave greater coverage of the entire river so the nutrients and water quality parameters for the Alafia were examined with respect to salinity and to their location along the river (see Appendices 15 and 16). In all of these plots trend lines (we always depict the type of trend that yields the highest R^2 value) are presented for data sets that appear to yield a trend; either with river flow, salinity, or distance from the river mouth. We did not test these relationships for significance so the trend lines are only shown to indicate potential relationships.

Little Manatee River

Of the nutrients measured, only ammonia and phosphate concentrations in the 0 psu salinity zone displayed a weak positive trend between concentration and river flow. No other trends between nutrient concentration and river flow were evident. Turbidity exhibited a weak linear trend with river flow at the 0 and 6 psu salinity zone while DOC concentration and color fit a logarithmic trend with reasonable correlation coefficients at the 0 psu salinity zone (Appendix 13). No other trends were evident.

Peace River

In the Peace River only organic phosphorus displayed a weak, negative logarithmic trend with river flow at the 12 psu salinity zone (Appendix 14). Color also displayed a weak, positive trend with river flow at the 0, 12 and 20 psu salinity zones (Appendix 14) but no other water quality parameter exhibited similar trends.

Alafia River

Total nitrogen, the sum of nitrate and nitrite, and total organic carbon displayed weak, negative linear trends with salinity while total suspended solids (TSS) tended to increase linearly with salinity (Appendix 15). The overall increase in TSS is approximately a factor of 4 from 0 to 35 psu, however there are many extremely high values, >20 fold higher than at 0 psu, over the entire range of salinities. Average values for each salinity zone indicate a maximum in TSS at the 12 psu salinity zone (Table 3) which coincides with a maximum in chlorophyll concentration suggesting elevated phytoplankton population abundance in this region. No other water quality parameters displayed trends along the salinity gradient.

Total nitrogen (TN) and the sum of nitrate and nitrite were the only parameters that displayed a trend along the length of the river (Appendix 16). Their distribution suggested a weak, positive linear trend with increasing distance from the mouth; i.e. higher values at the head of the river. No other components of TN showed a similar trend nor did total phosphorus or organic phosphorus. Average values for inorganic nitrogen and phosphorus display similar trends (Table 3). As with salinity, no other water quality parameters displayed trends along the longitudinal axis of the river.

Since residence times were available for different reaches of the rivers that more or less corresponded to various salinity zones we investigated relationships between nutrients, water quality parameters and residence time (Appendix 17). To estimate the appropriate residence time to use for each salinity zone, the average location of that salinity zone was used to identify which subreach residence time values to use. Residence times from subreaches 1, 2, and 3 were identified as having a range of locations that best fit the locations for the various salinity zones. Then, the residence times for the five days prior to the sampling date were averaged for use in relation to the sample concentrations.

The results were similar to those obtained with relationships between water quality parameters and river flow, salinity, or distance upstream. Of the nutrients, nitrate plus nitrite was moderately and positively related to increasing residence time at the 0.5 psu salinity zone and ammonia displayed a weak, negative trend at the 12 psu salinity zone but neither displayed trends at other salinity zones. DOC showed a moderate but negative trend with increasing

residence time at the 0.5 and 6 psu salinity zone. Turbidity also showed a moderate but negative trend with increasing residence time at the 0.5 psu salinity zone (Appendix 17). Otherwise no other trends were apparent.

Calculated residence times were highly correlated with river flow at the 0, 6, and 12 psu salinity zones (Appendix 18) but had a lower r^2 value at the 18 psu salinity zone. Therefore our selection of the appropriate reach within the river to characterize the residence time within a particular salinity zone was correct.

It is unclear why nitrate plus nitrite concentrations should increase as residence times increase. Based on the calculated values, long residence times would be found near the mouth with lower values upstream. Since nitrate plus nitrite concentrations are highest upstream at the lowest salinity (see Appendix 15) one would expect the opposite relationship. Also, periods of low river flow would lead to longer residence times which typically would lead to the accumulation of phytoplankton biomass that, in turn, would decrease the standing stock of available nutrients.

Negative trends in DOC concentration at the 0.5 and 6 psu salinity zones and in turbidity at the 0.5 psu salinity zone with increasing residence time may simply result from reduced freshwater run-off through the watershed. Since a significant proportion of the DOC comes from run-off through the surrounding terrestrial vegetation, input would be low during periods of low rainfall. Similarly, increased residence time due to low freshwater inflows would allow particles to settle thus decreasing turbidity.

Summary

Overall, the lack of relationships between water column nutrients, water quality indicators, and phytoplankton abundance and chlorophyll concentration with river flow and residence time suggests that the normal dynamics of these three river systems operate over a relatively wide range of flow rates. This point is further emphasized by the 2 to 4-fold greater flows in the Peace River compared to the Alafia and Little Manatee (Fig. 1, Table 1) yet there is little difference in the concentrations of dissolved and particulate constituents. Only the Little Manatee differed from the other two rivers in its TN:TP ratio (Table 4) due to a slightly lower average inorganic phosphate concentration (Table 2) compared to the Peace River. Thus there were more similarities than differences in the chemical constituents of each river. Such similarities might be expected to lead to a similar phytoplankton abundance and composition in each river yet this was not found. The Alafia River typically supported higher phytoplankton abundance followed by the Little Manatee and the Peace Rivers presumably as a result of higher nutrient inputs from mining and other industrial operations located within the Alafia River watershed. Both the Peace and Little Manatee watersheds lack widespread industry and may be typified by farm operations, forested regions, and housing developments. Over comparable time periods the Peace River was dominated by blue-green algal and diatom populations whereas flagellates and dinoflagellate blooms were typical in the Alafia River. There was greater similarity between the phytoplankton community composition in the Peace and Little Manatee rivers, particularly at higher salinity zones where flagellates and diatoms were important contributors. At the freshwater zone, however, a greater proportion of chlorophytes contributed to phytoplankton composition in the Peace than in the Little Manatee. Inter-annual differences in the composition of the phytoplankton community in the Peace River were also noted. Blue-green algal populations were more abundant in 2000-2001 than in 1989-1990 while diatom and

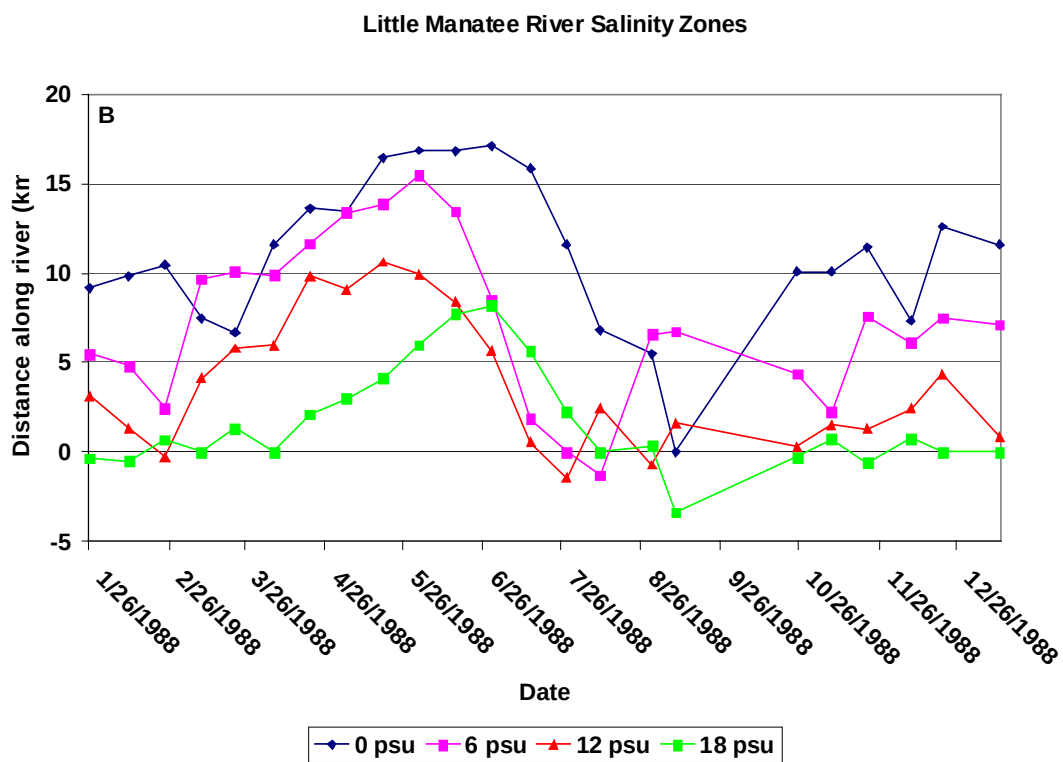
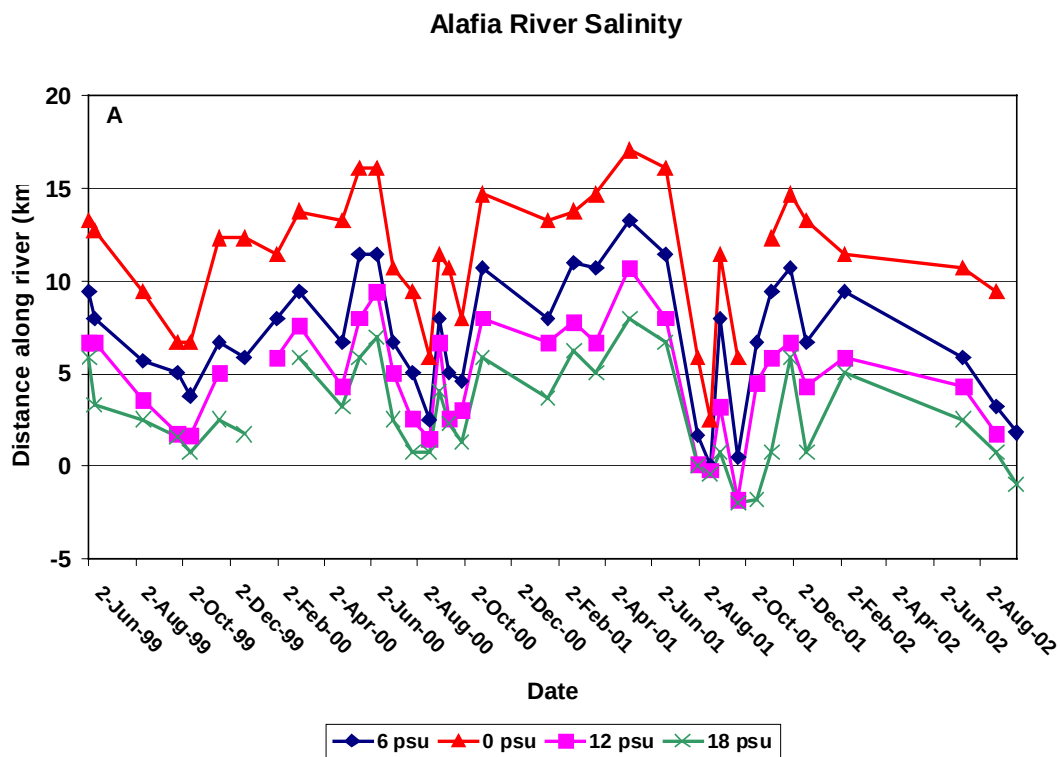
Chlorophytes were relatively more abundant in 1989-1990 than in 2000-2001. This shift could not be related to changes in water quality parameters.

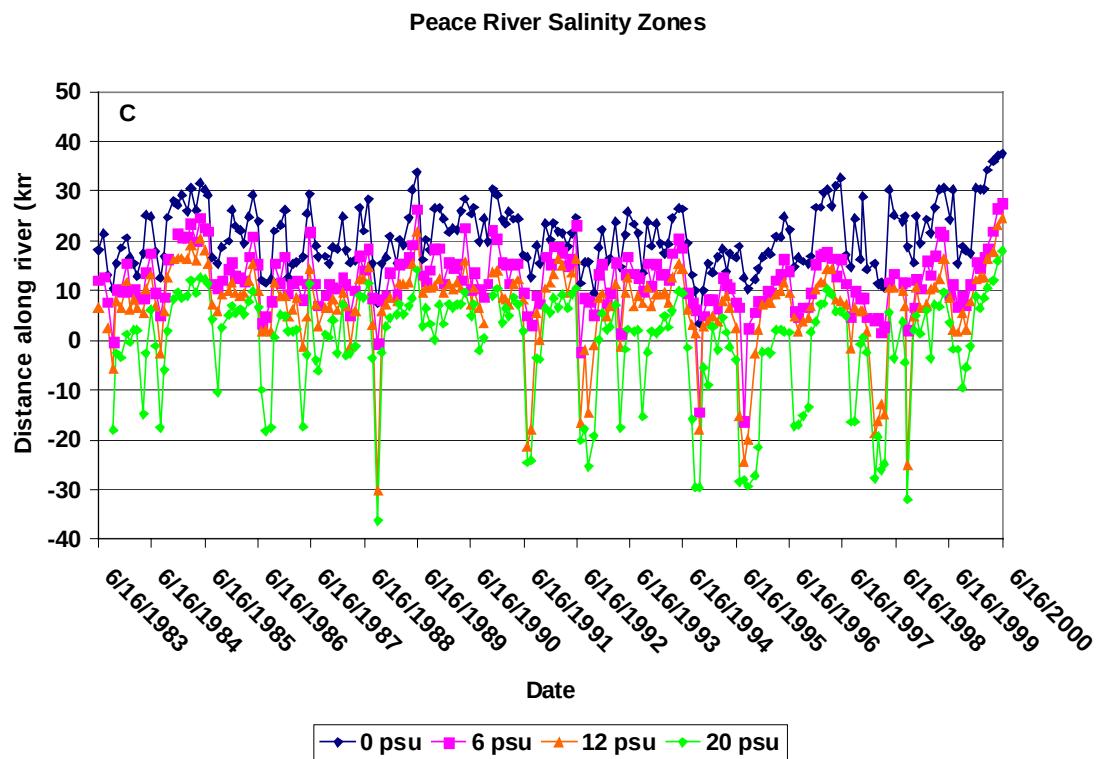
Based on the results described in this section of the report, as well as in section 2, phytoplankton composition differed between all three rivers.

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Flannery, M.S., E.B. Peebles, and R.T. Montgomery. 2002. A percent of flow approach for managing reductions of freshwater inflows from unimpounded rivers to southwest florida estuaries. *Estuaries* 25: 1318-1332.

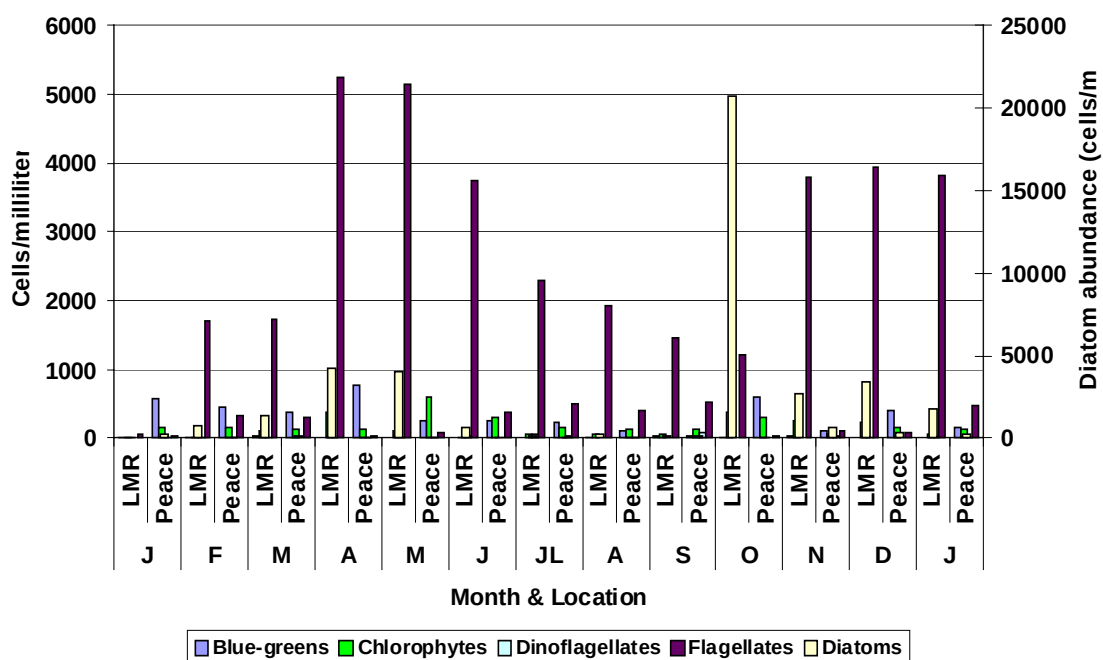
Vargo, G.A. 1990. Phytoplankton studies in the Little Manatee River and Tampa Bay: Species composition, size fractionated chlorophyll, primary productivity, and nitrogen enrichment studies. Final report submitted to the SWFWMD.



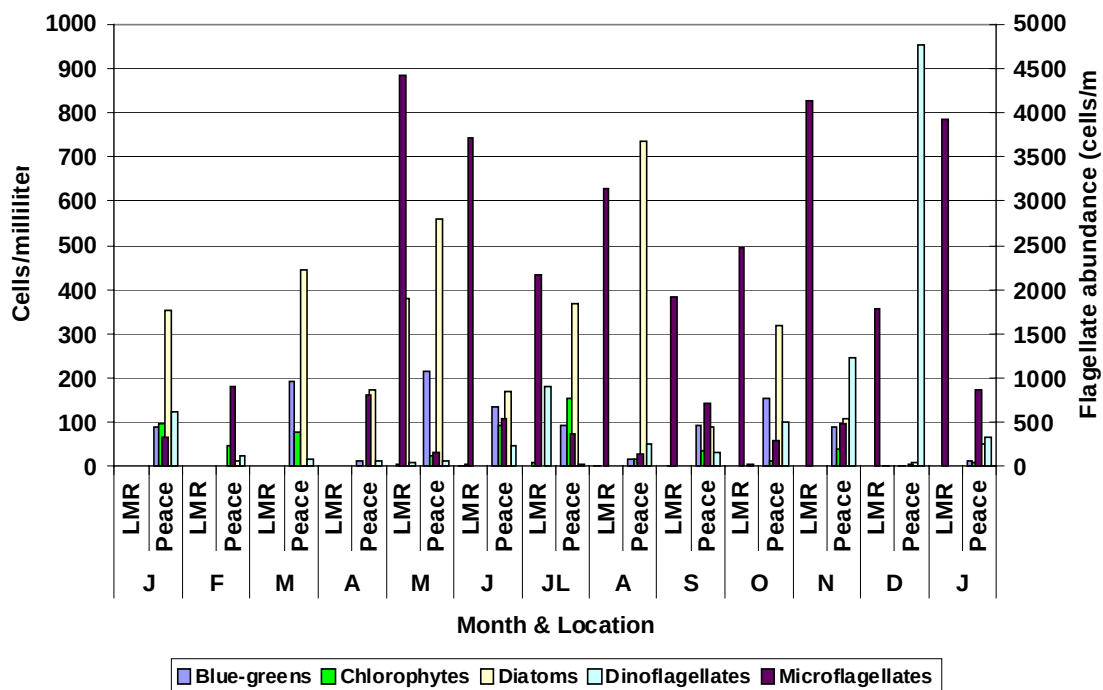


Appendix 2

Little Manatee & Peace River annual phytoplankton composition: 0 psu salinity zone

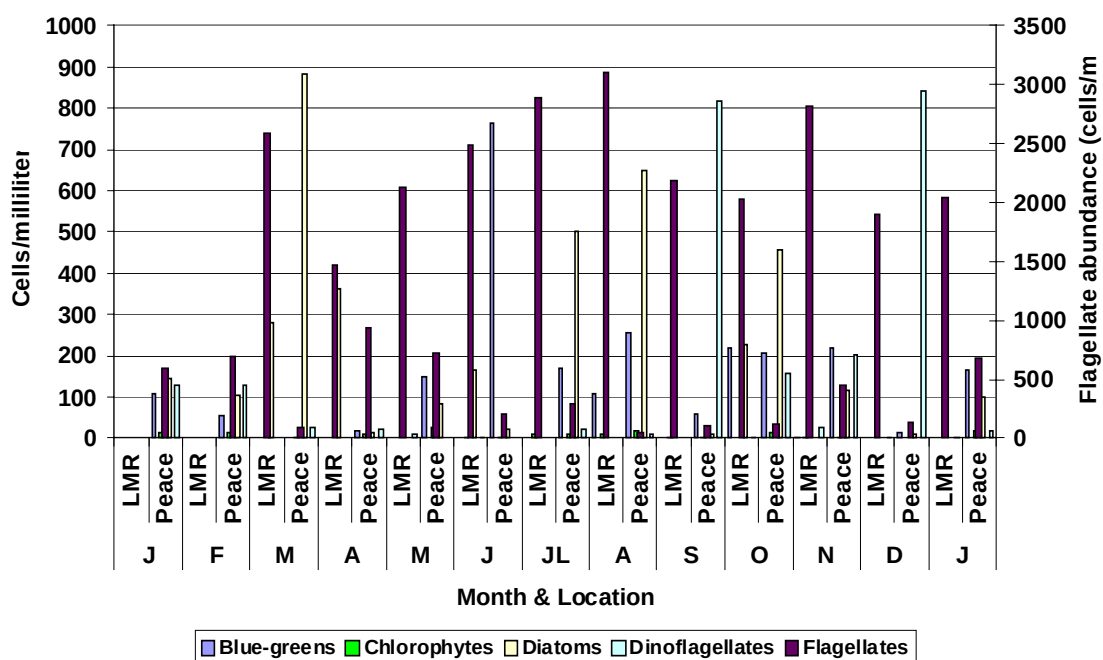


Little Manatee & Peace River phytoplankton composition: 6 psu salinity zone

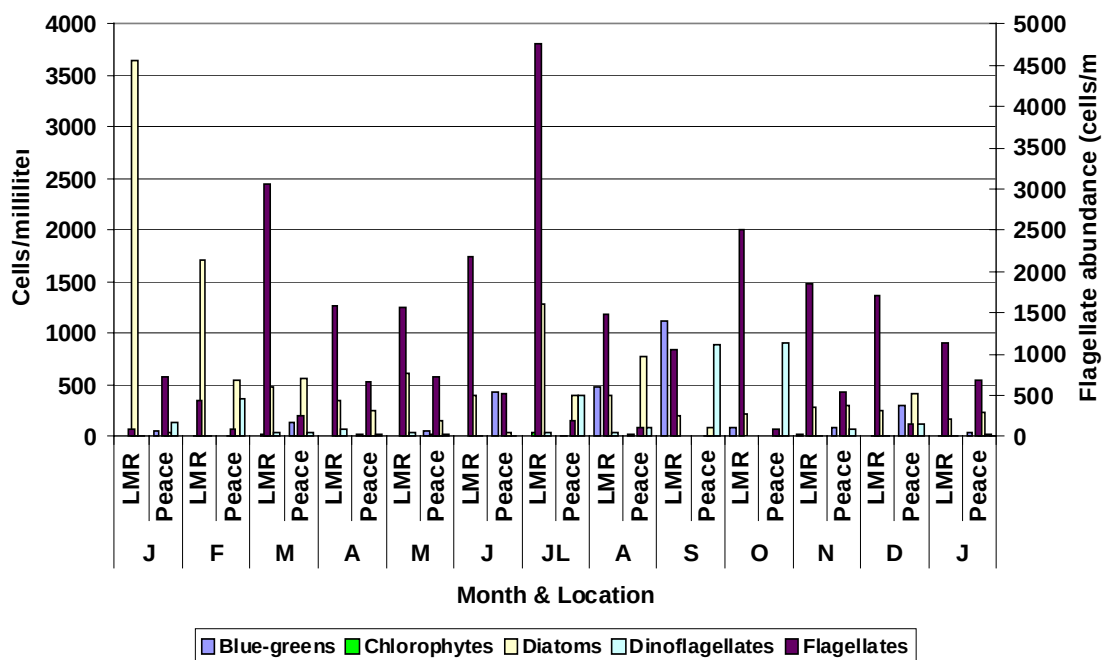


Appendix 2

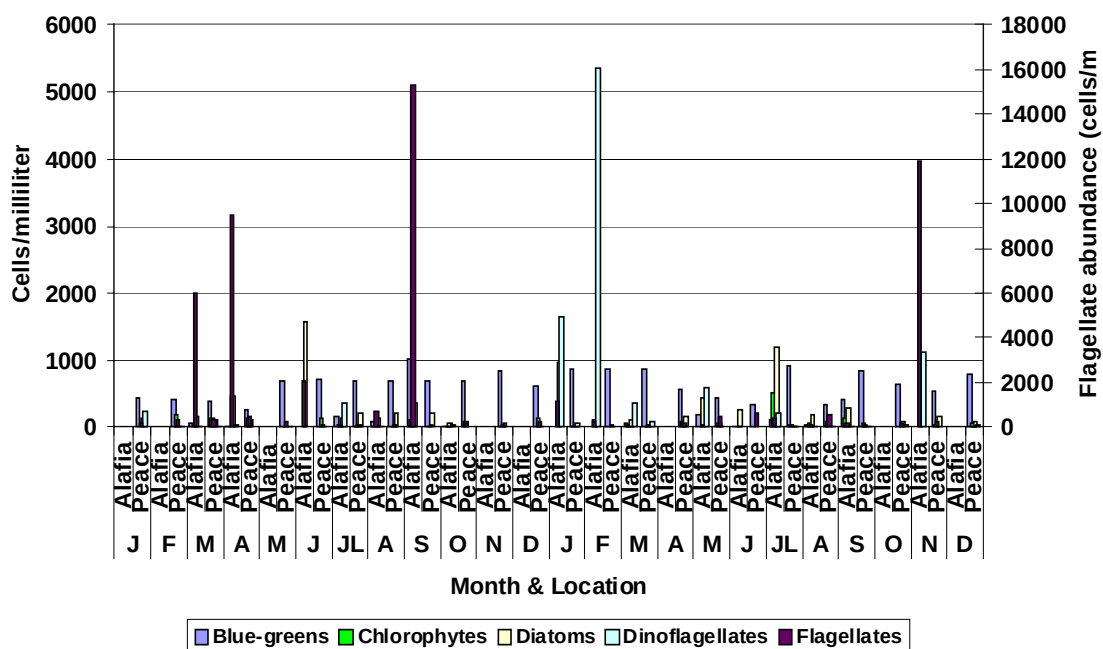
Little Manatee & Peace River annual phytoplankton composition: 12 psu salinity zone



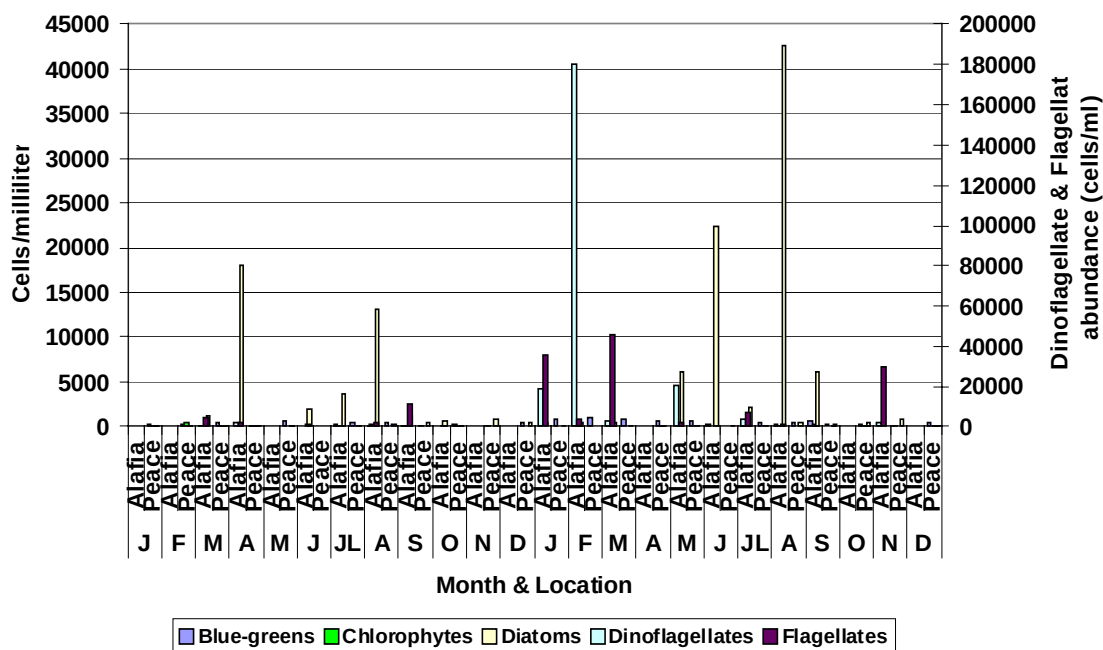
Little Manatee & Peace River annual phytoplankton composition: 18 psu salinity zone



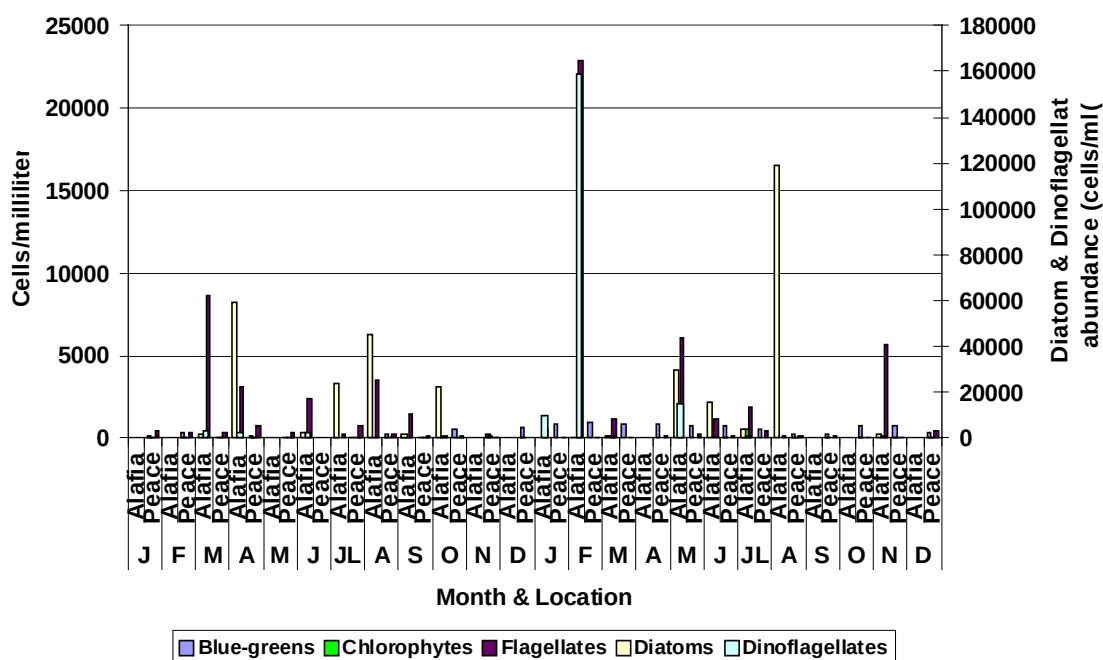
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salinity zone in 2000 - 2001



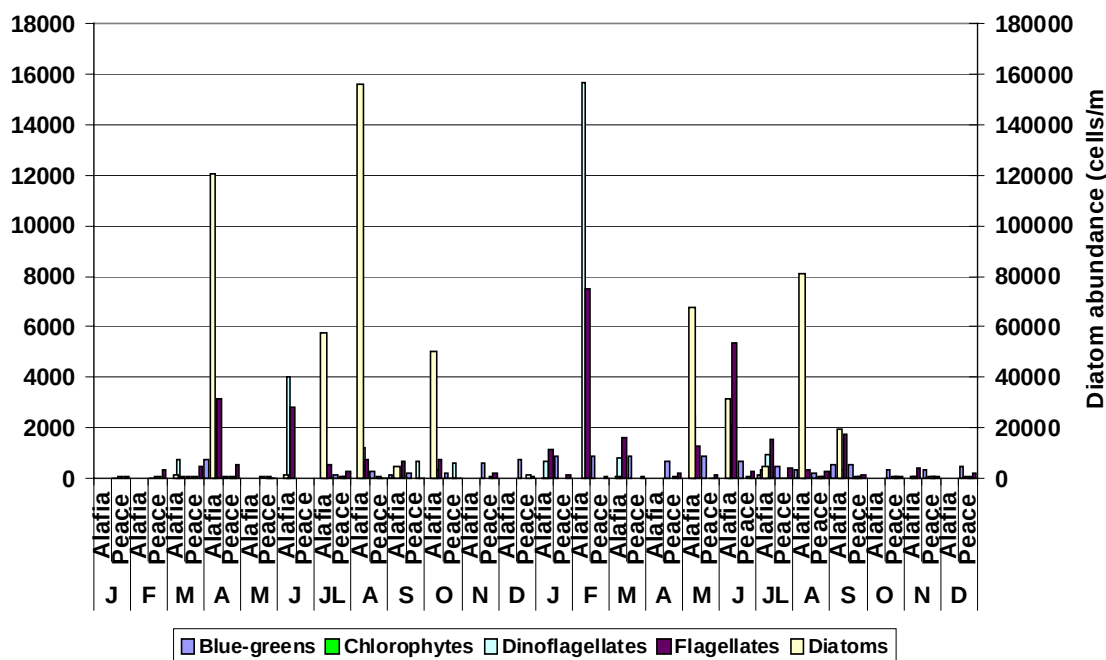
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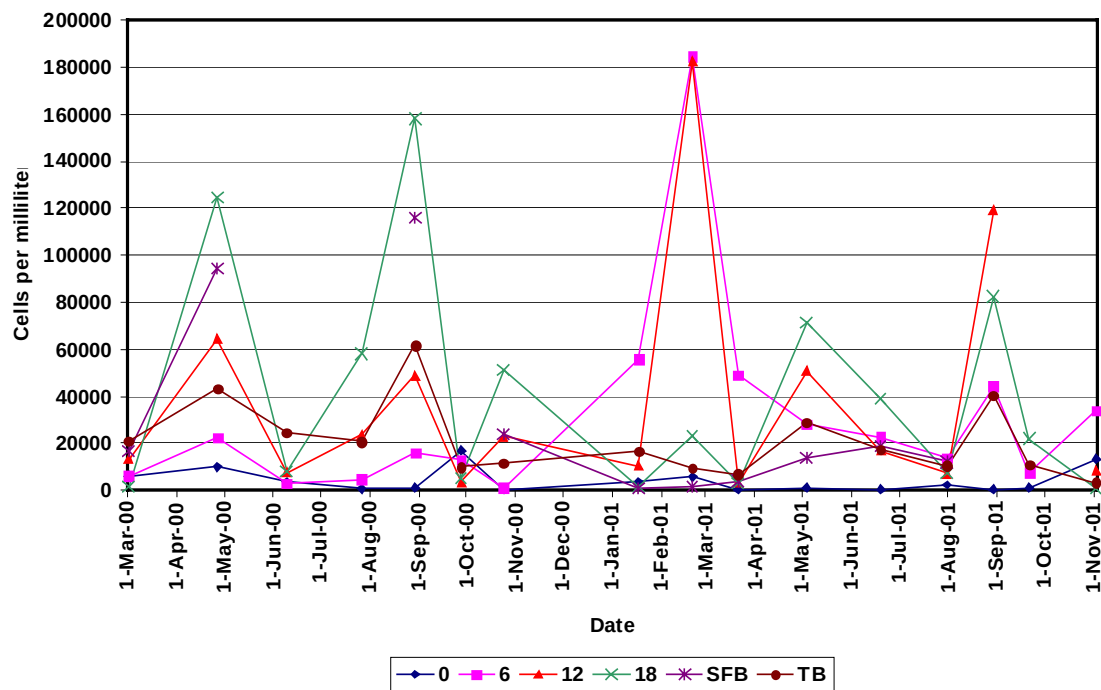
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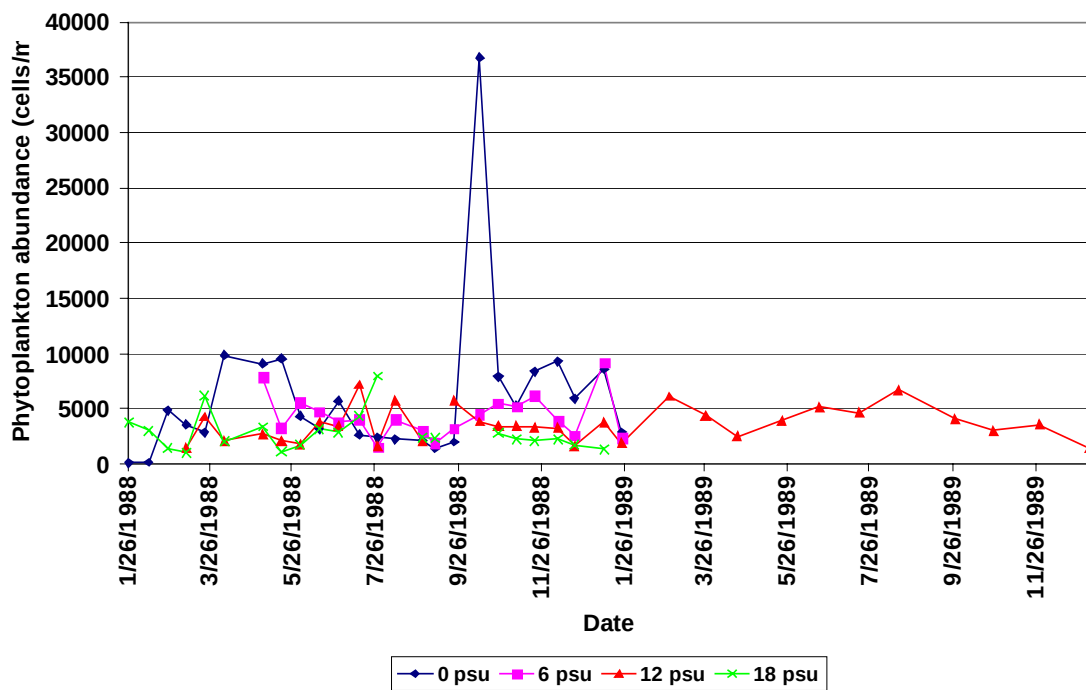
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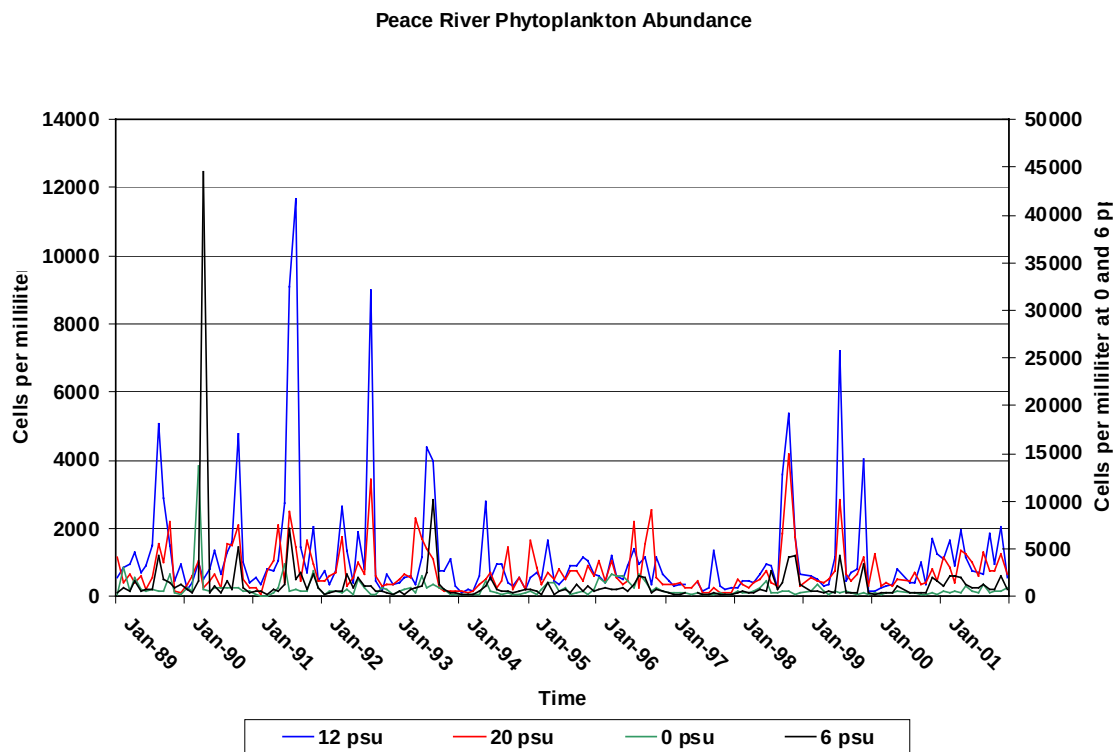


Alafia River Phytoplankton Counts



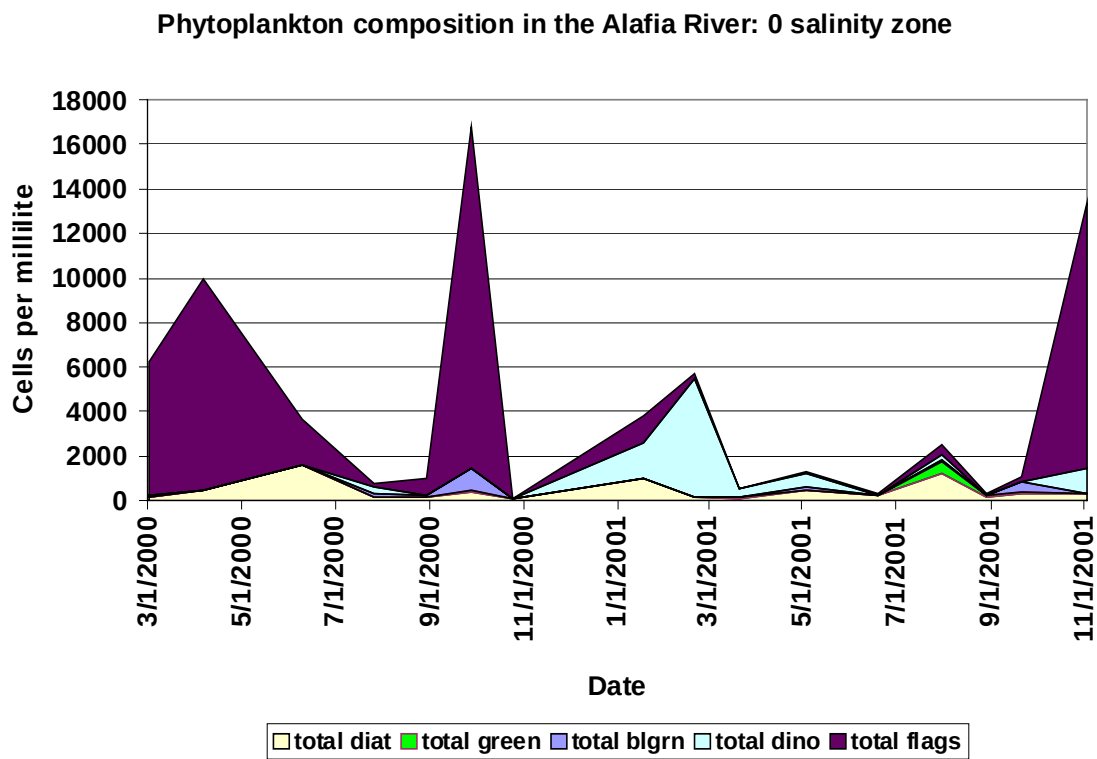
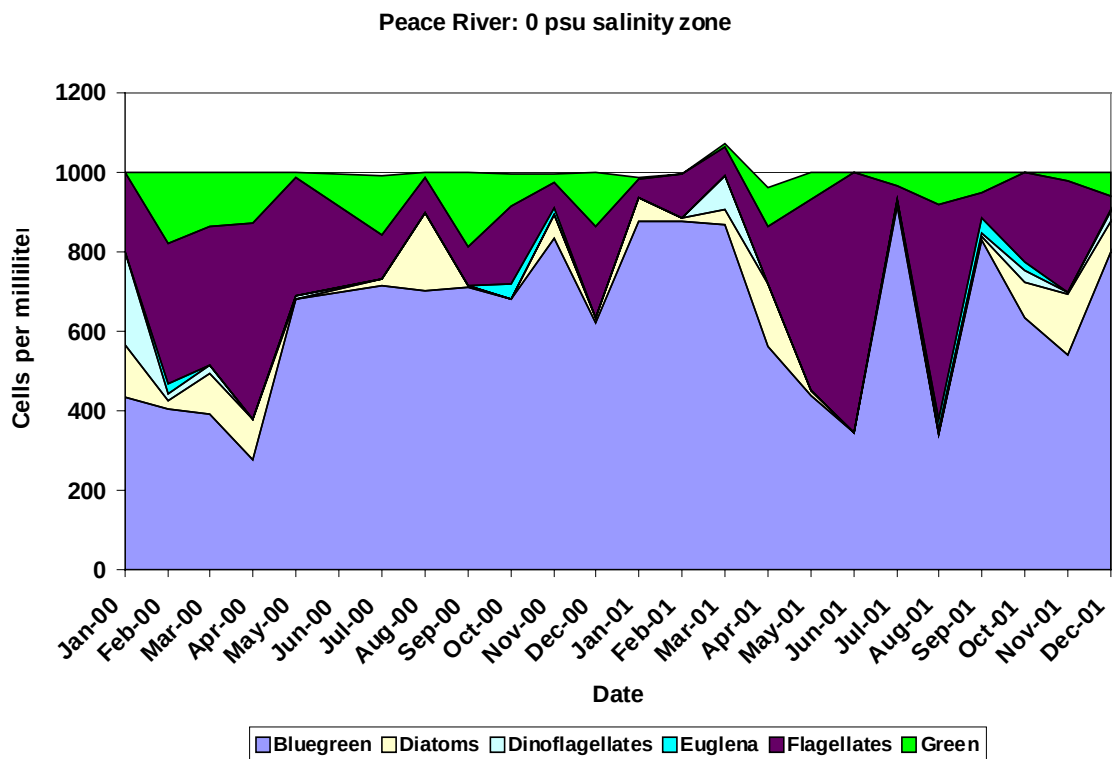
Little Manatee River

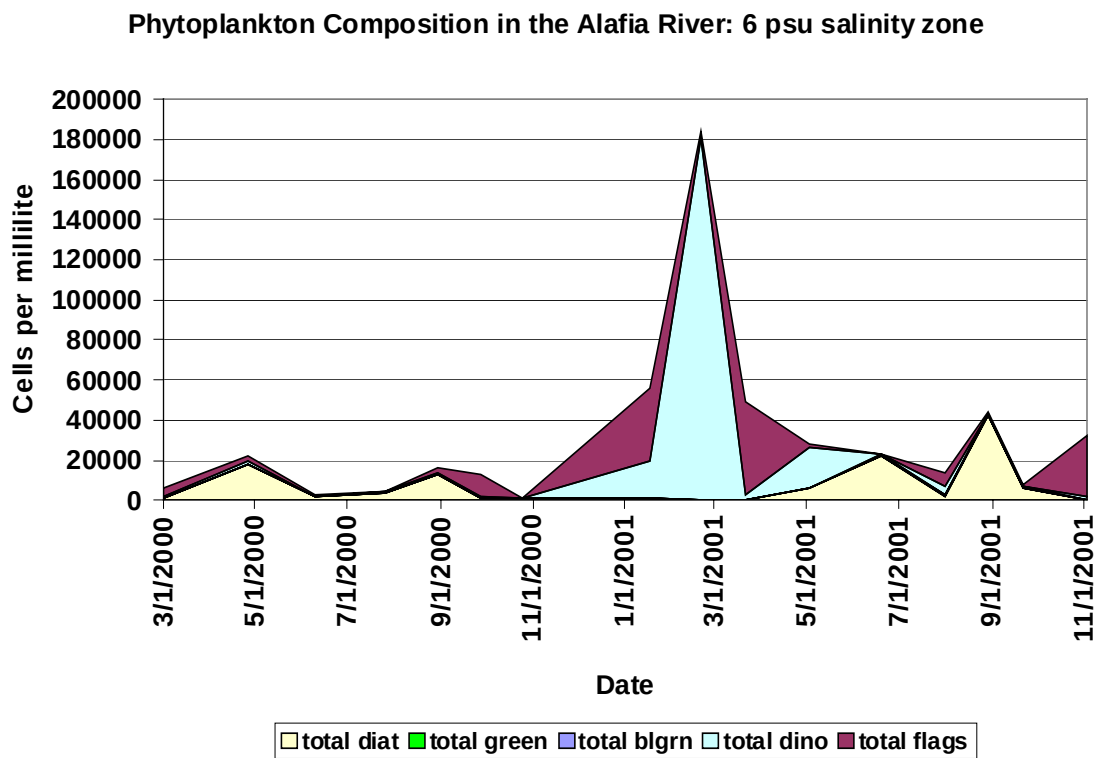
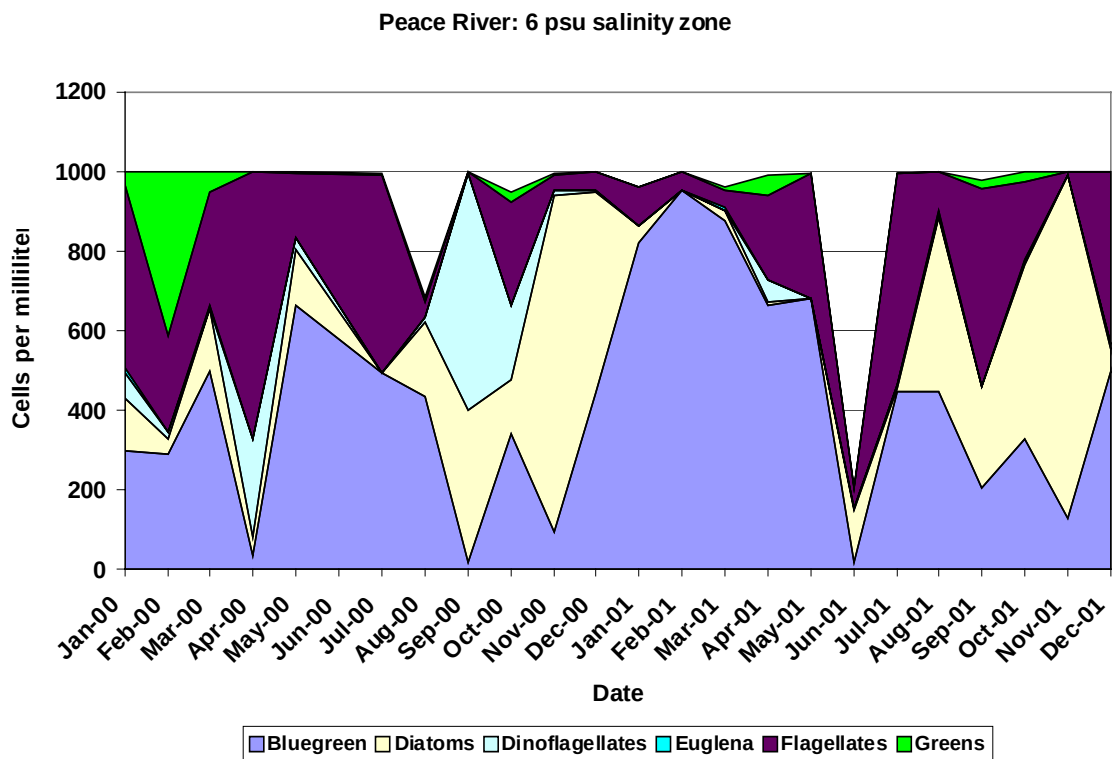


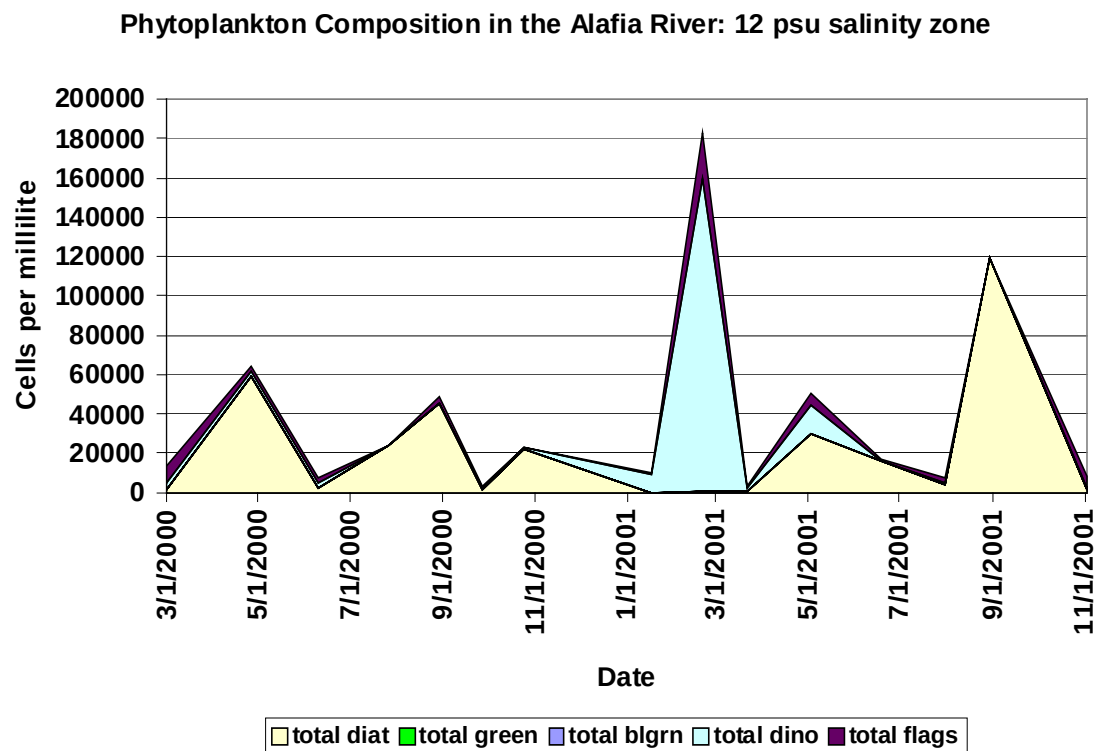
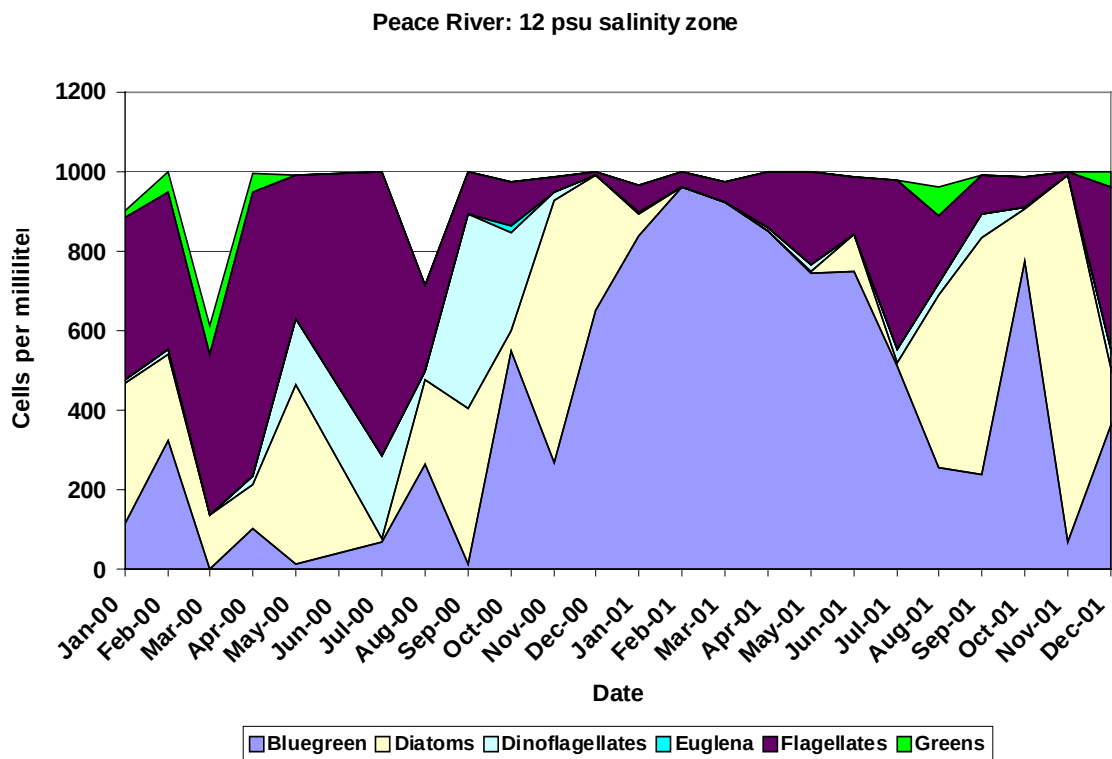


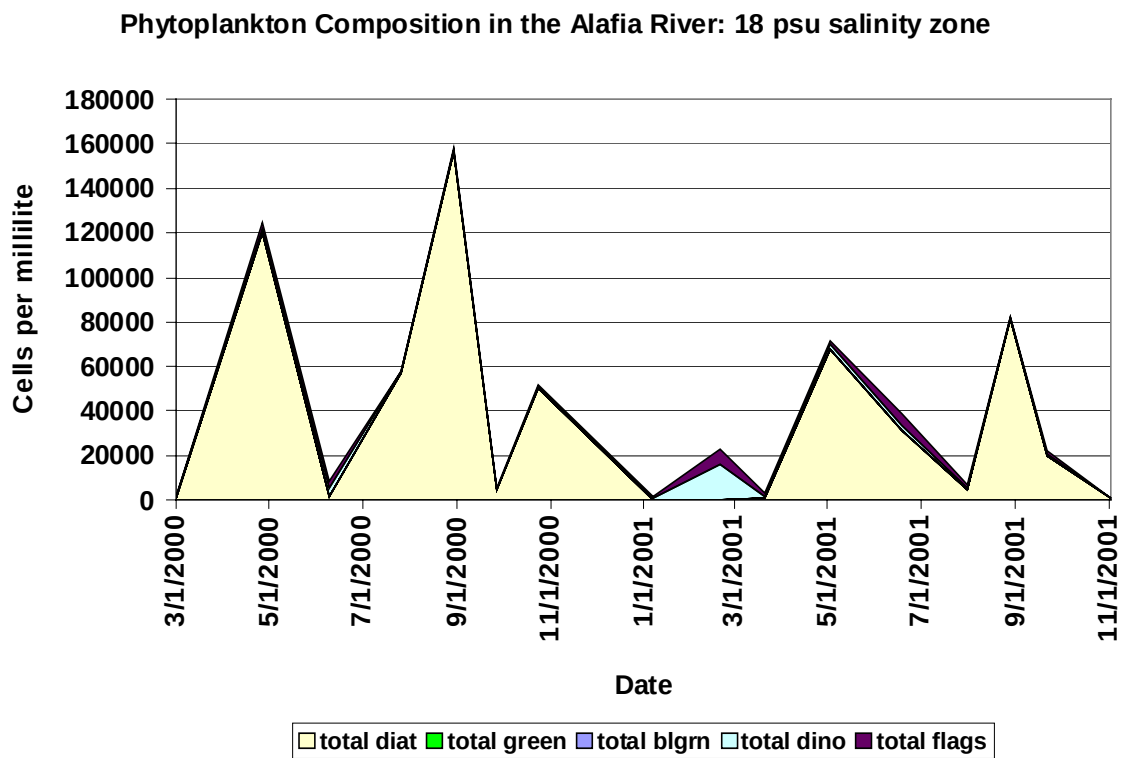
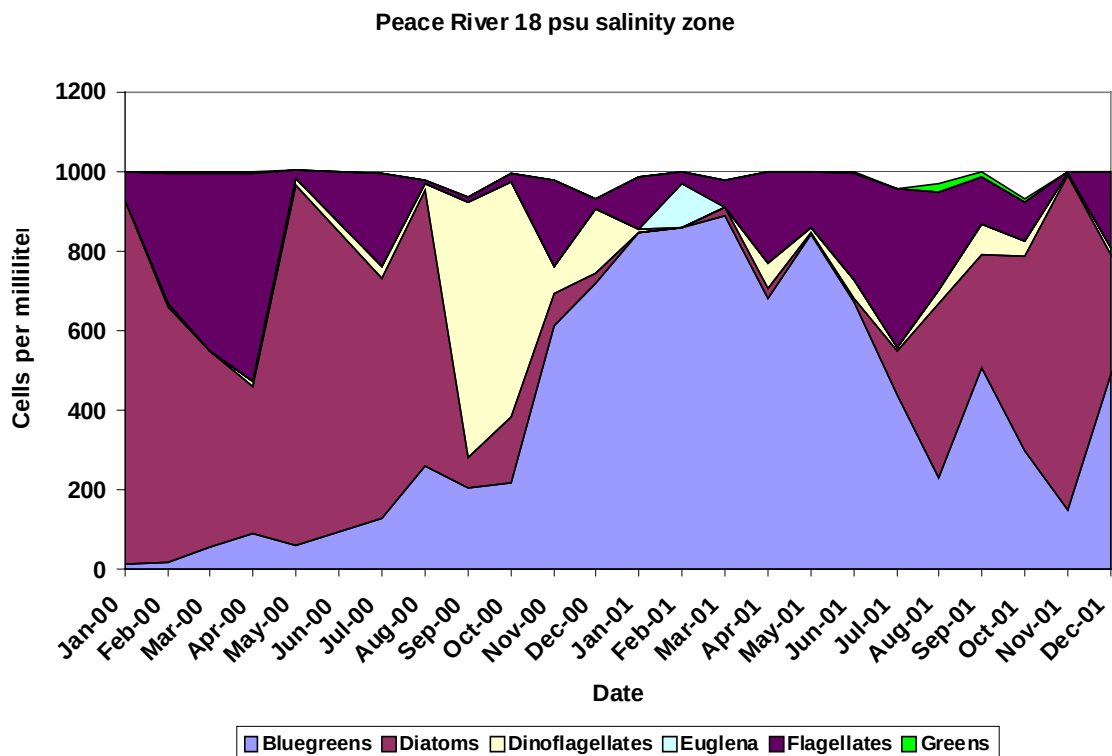
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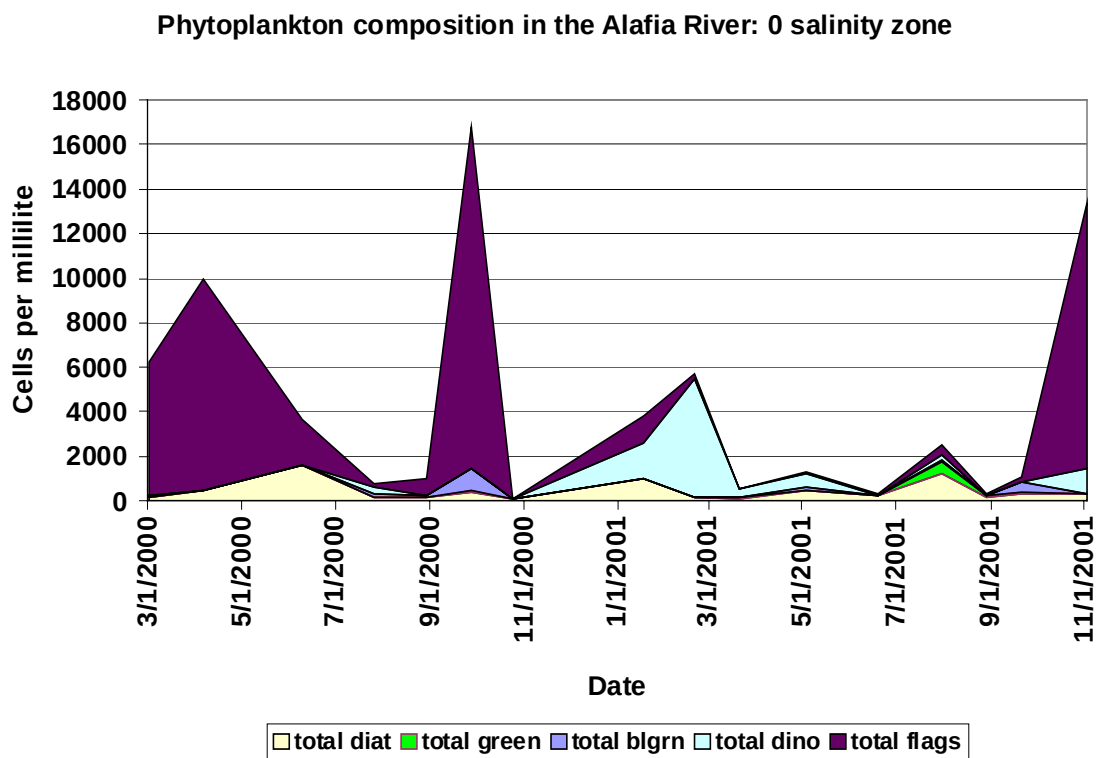
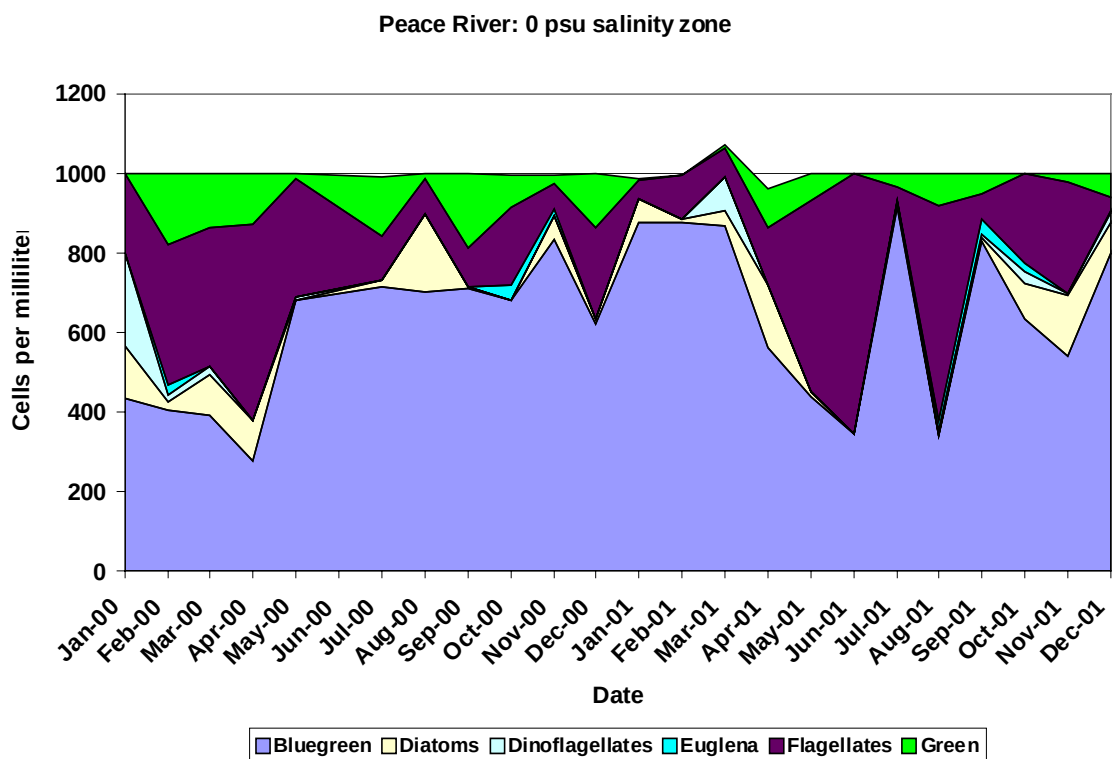
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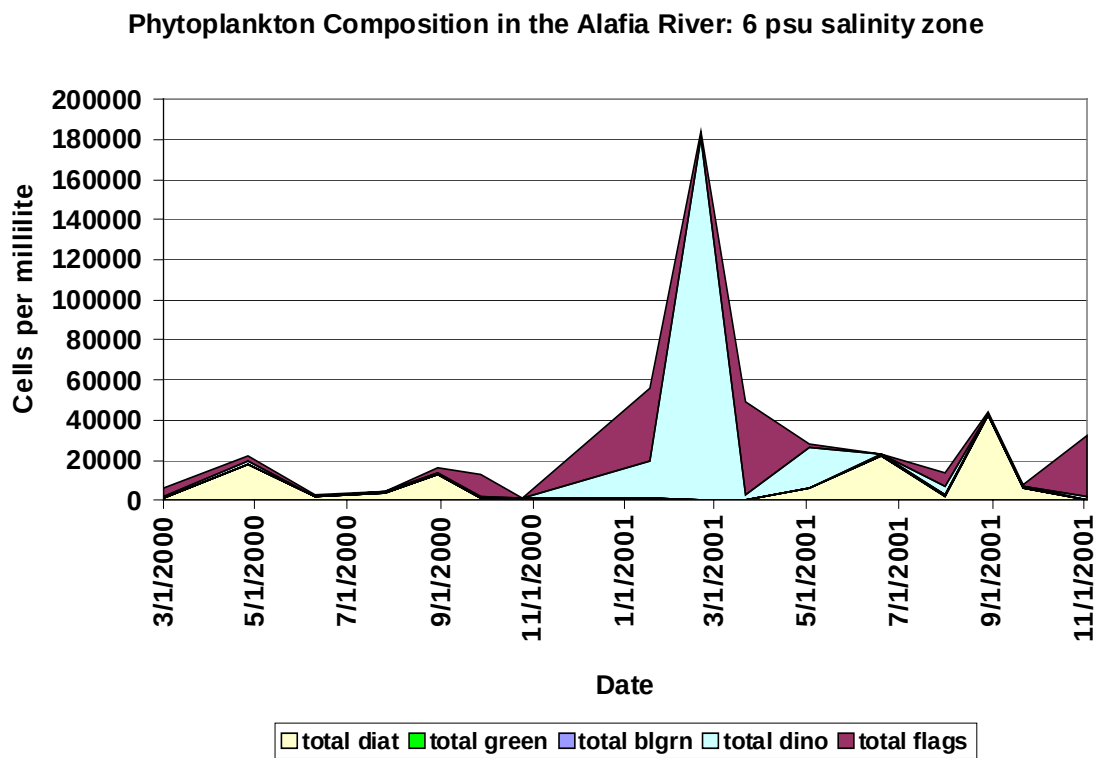
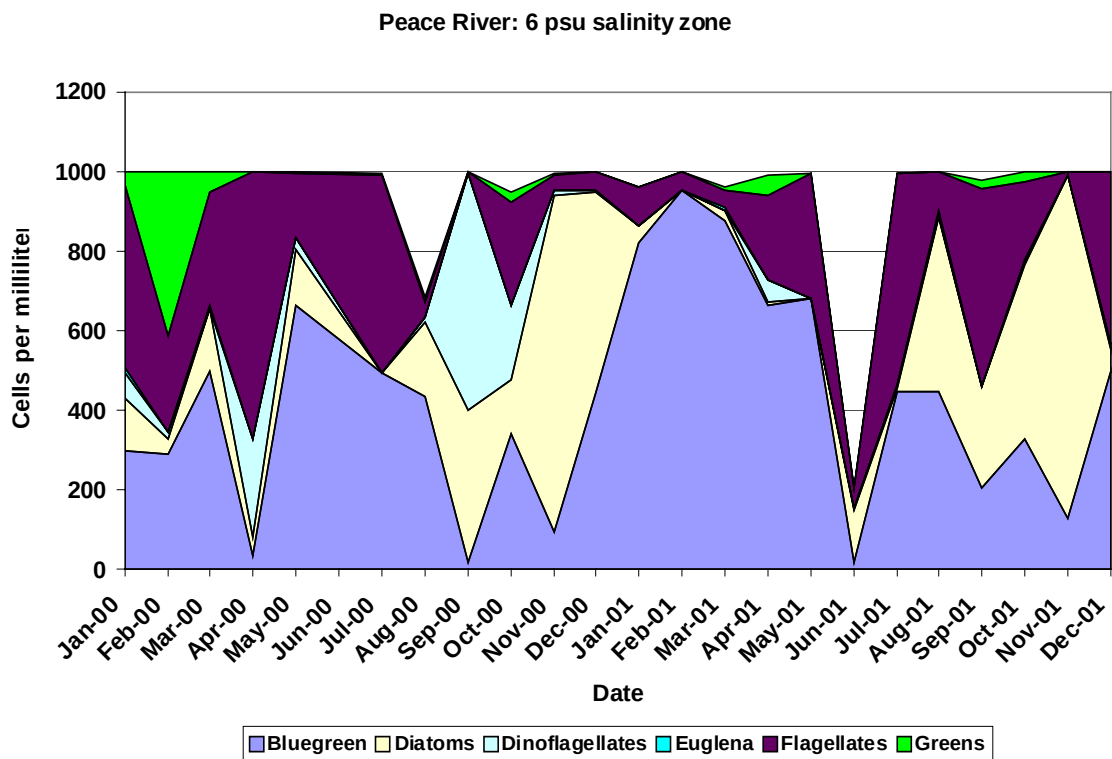


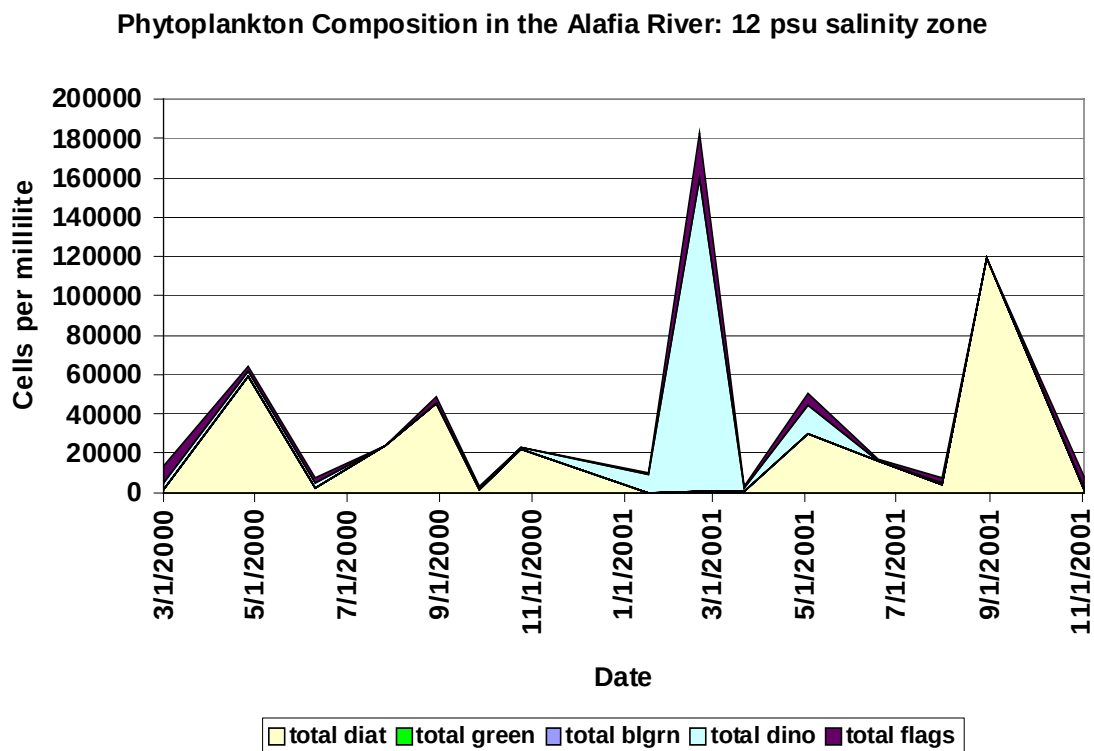
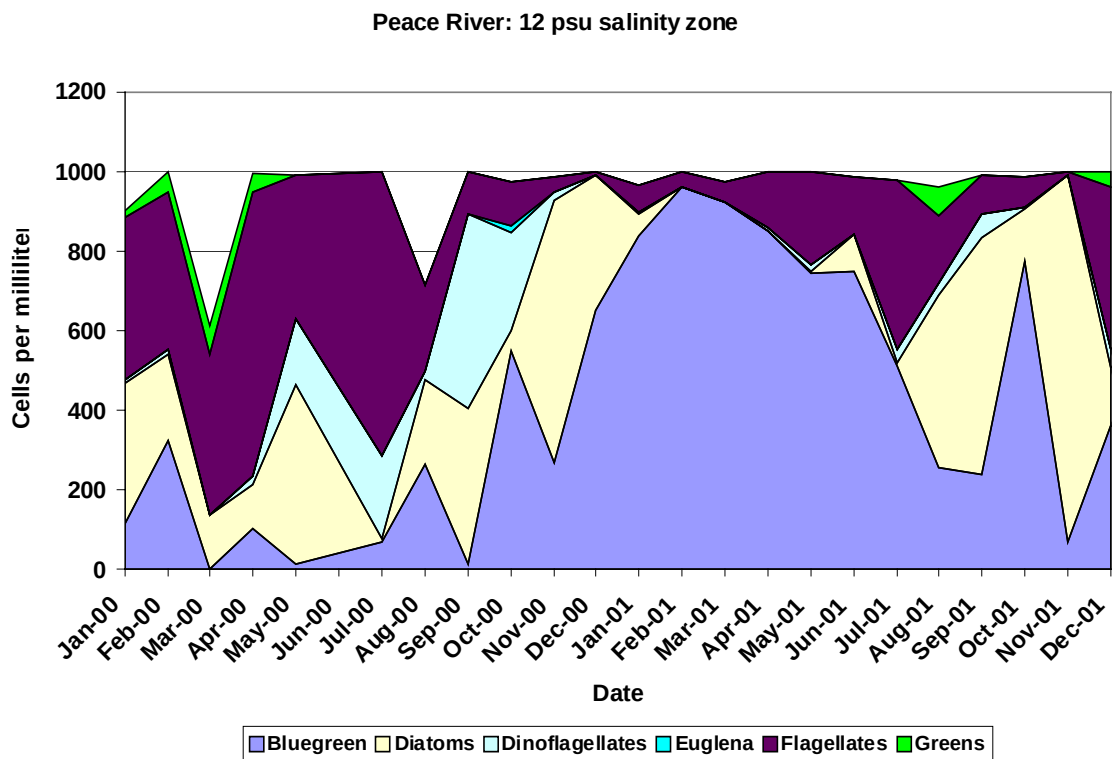


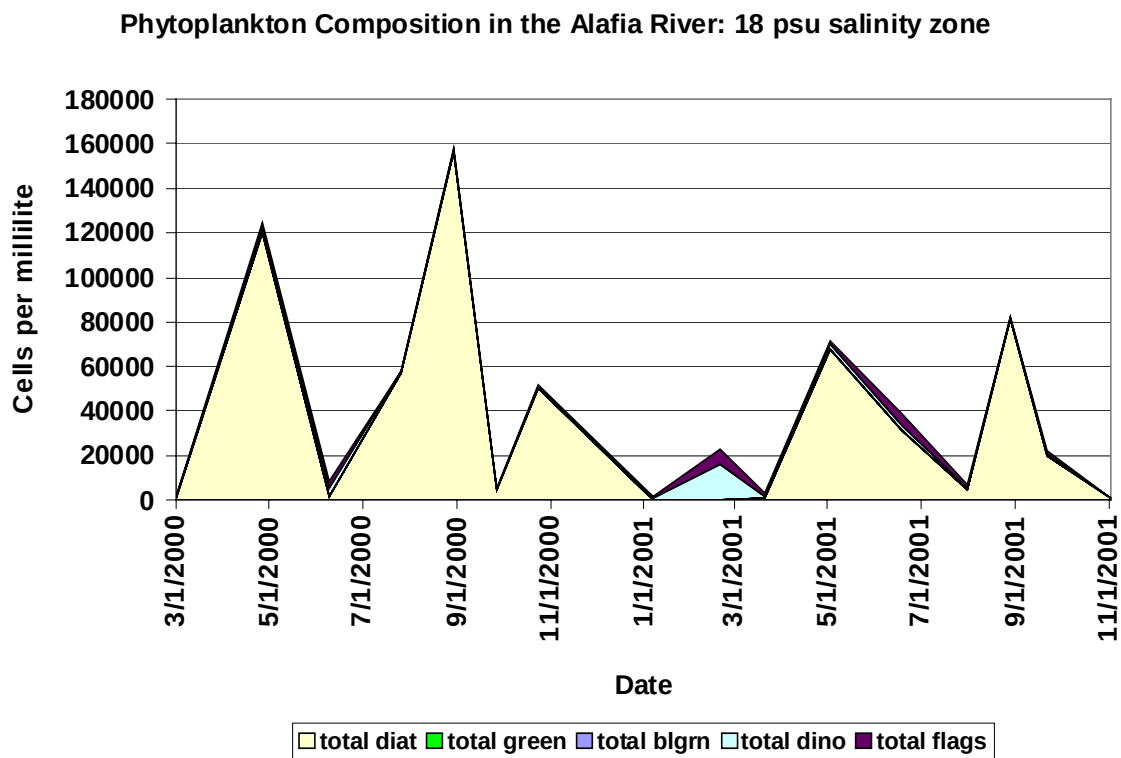
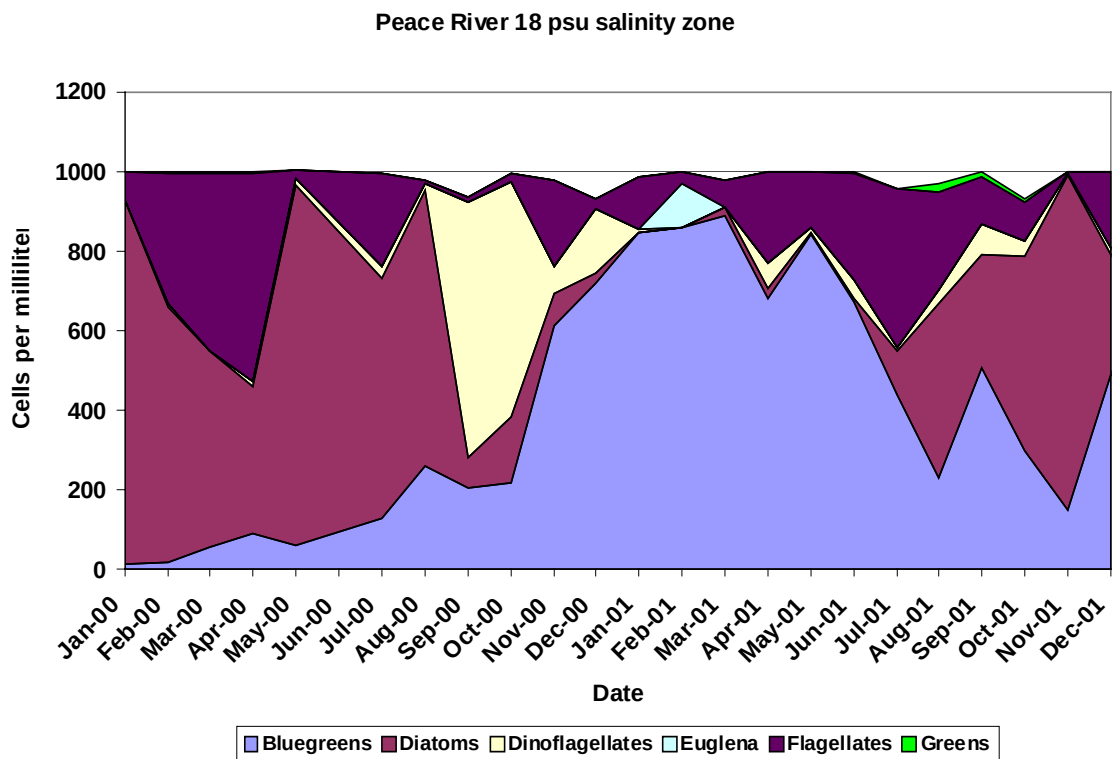


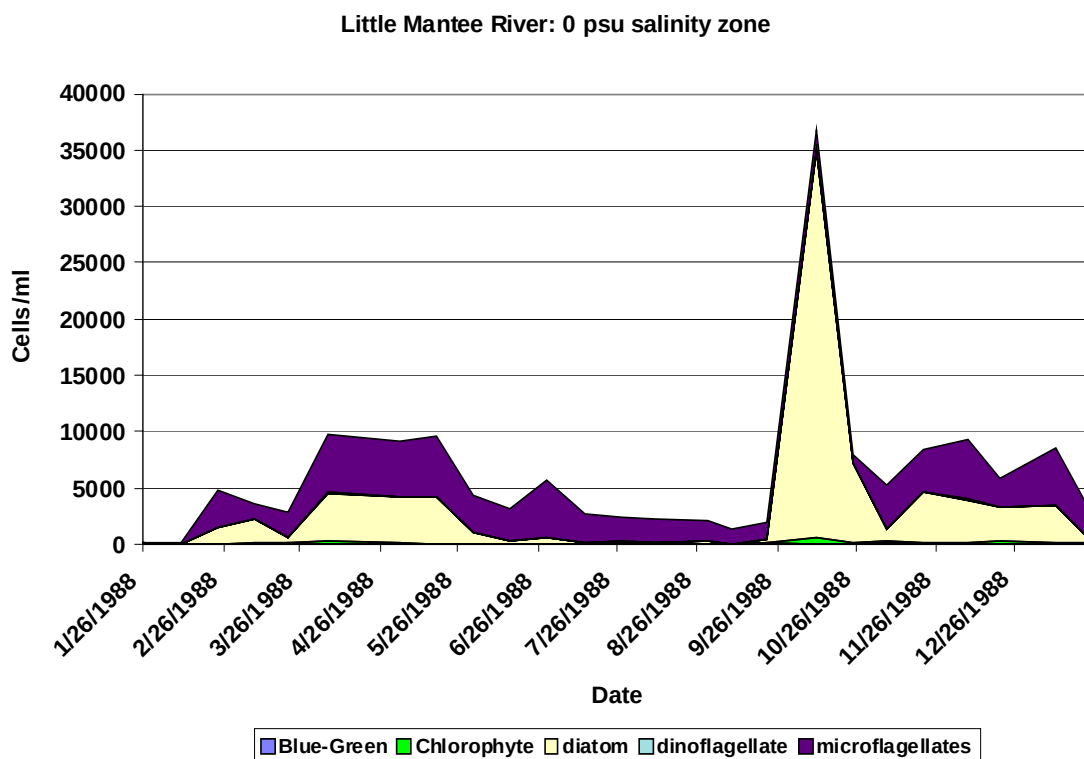
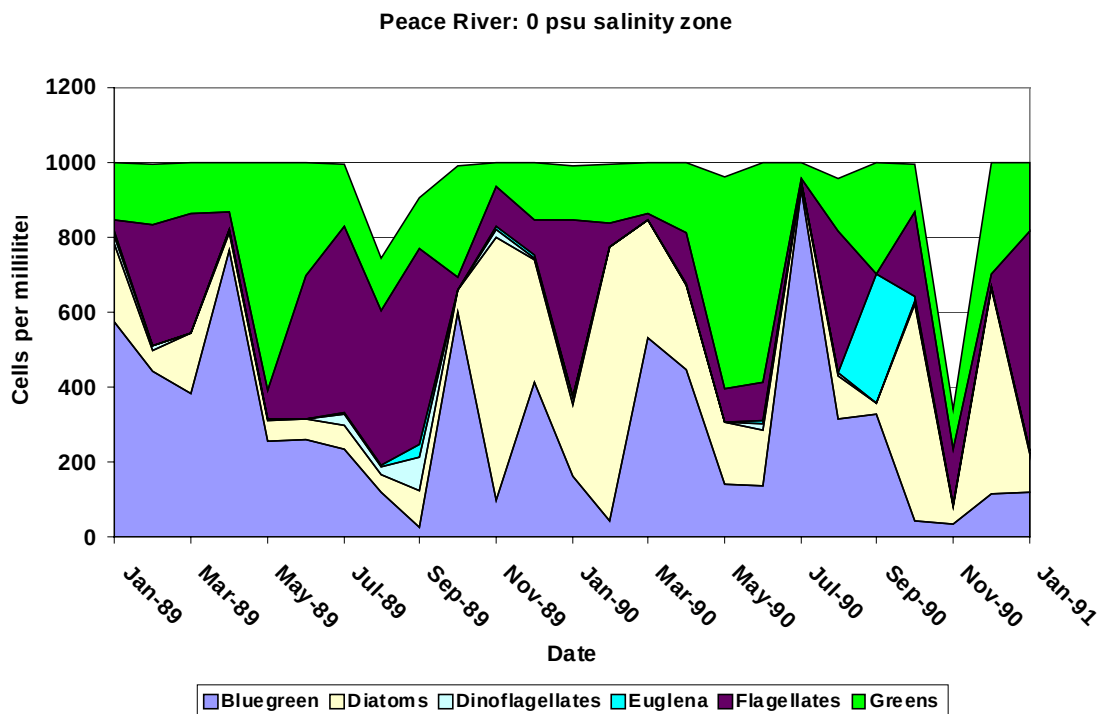


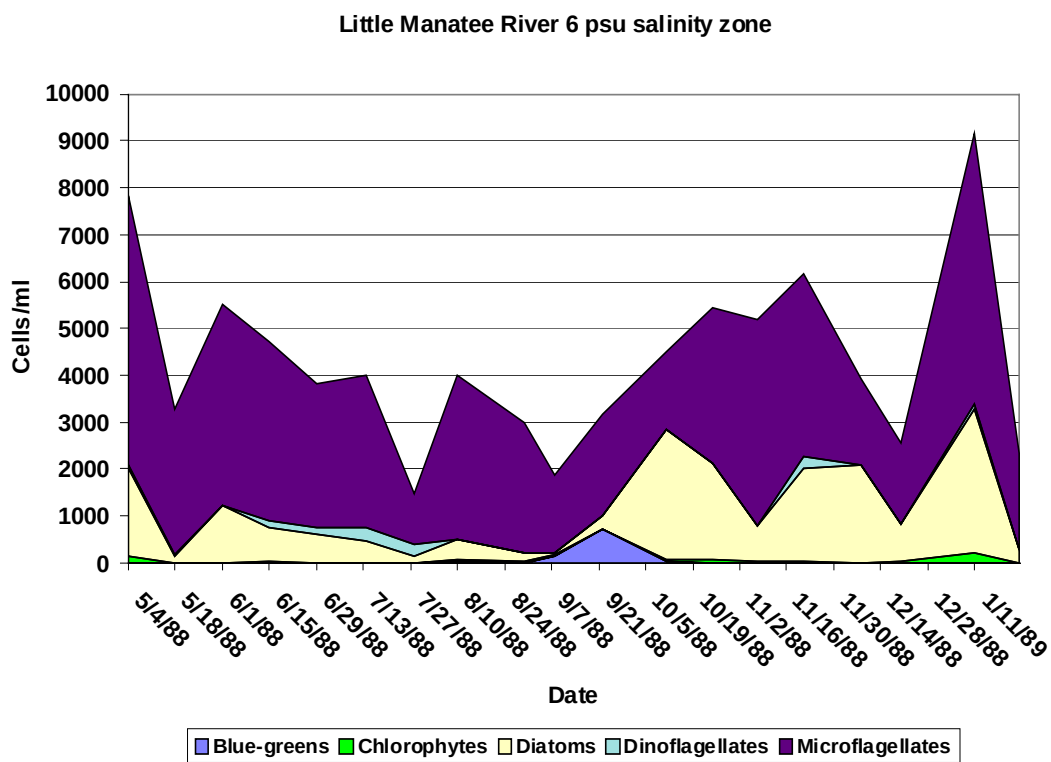
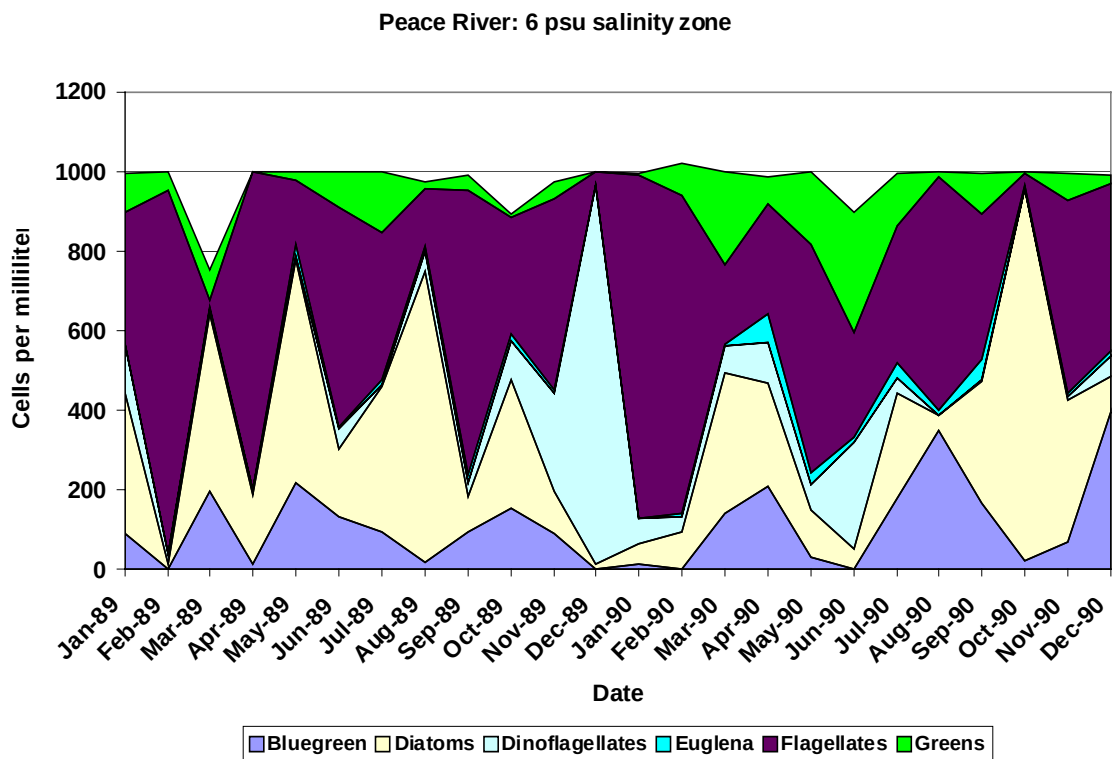


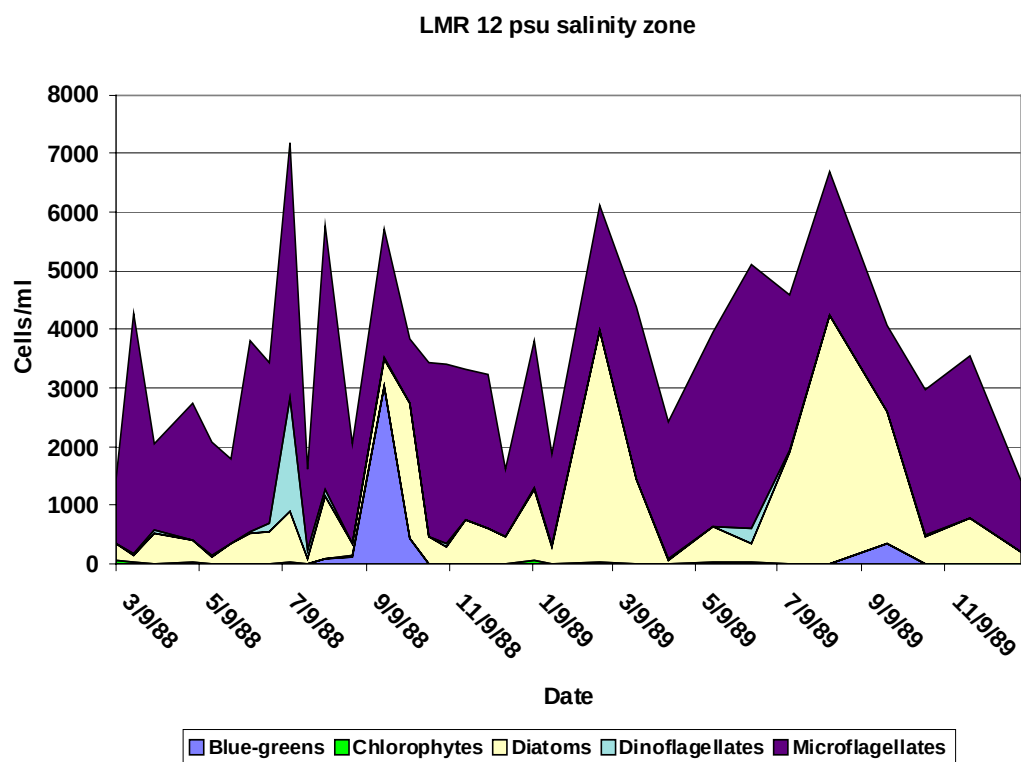
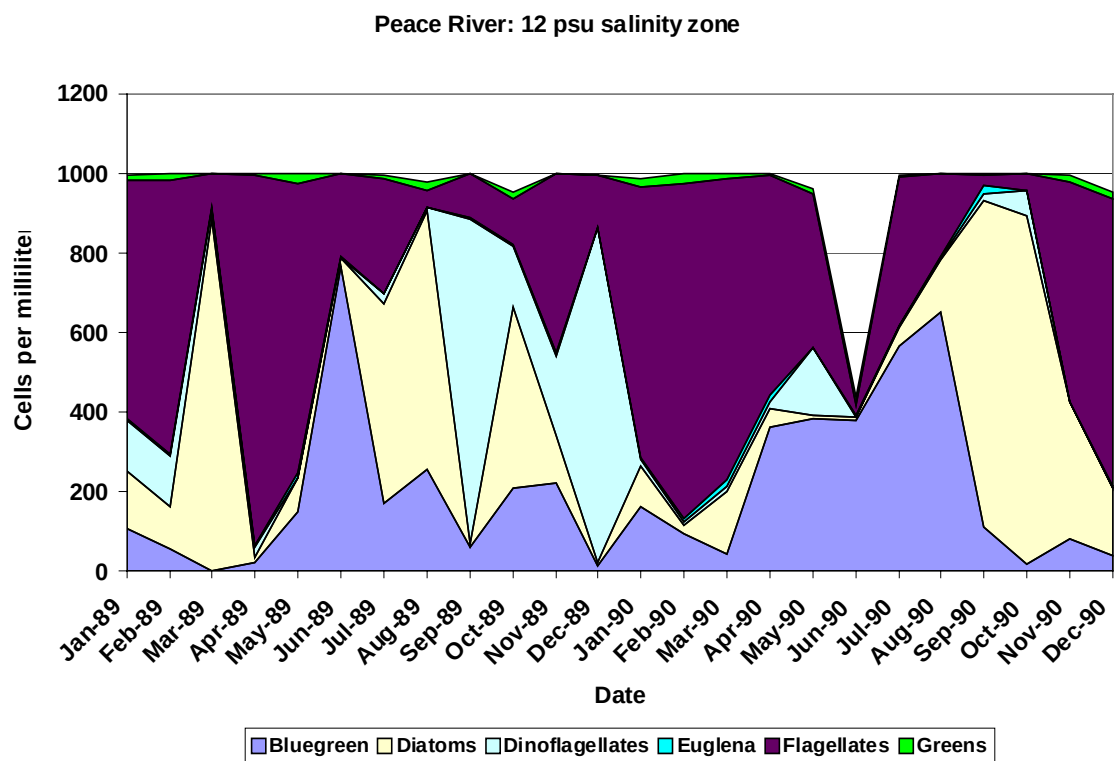


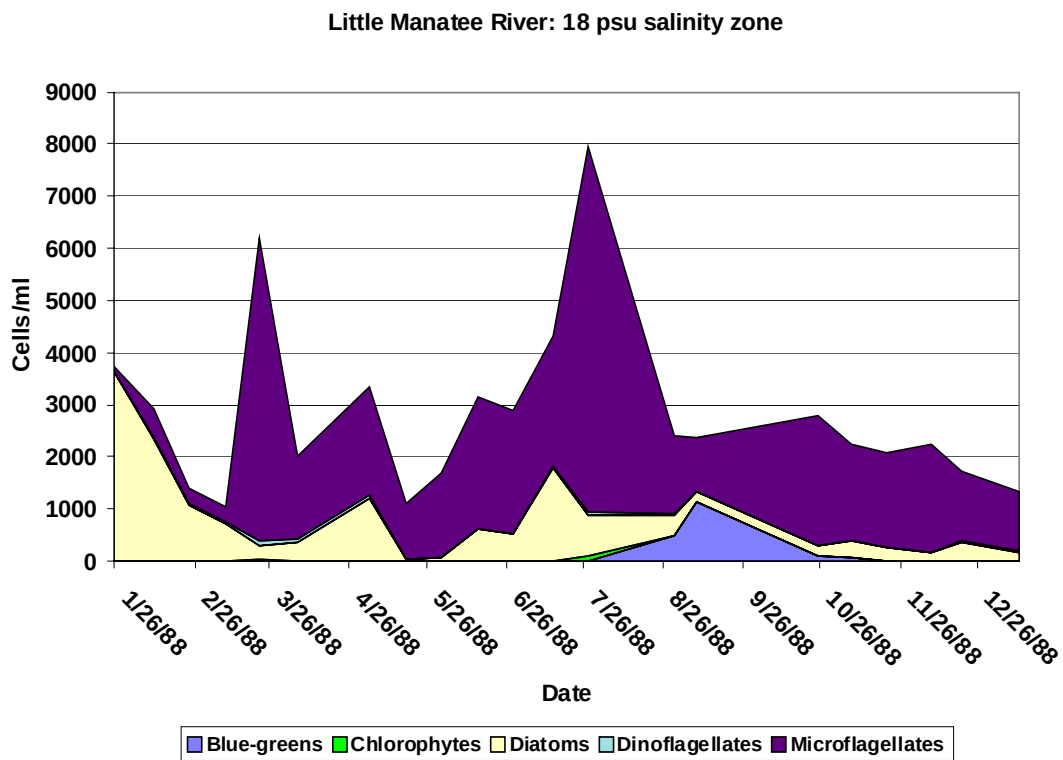
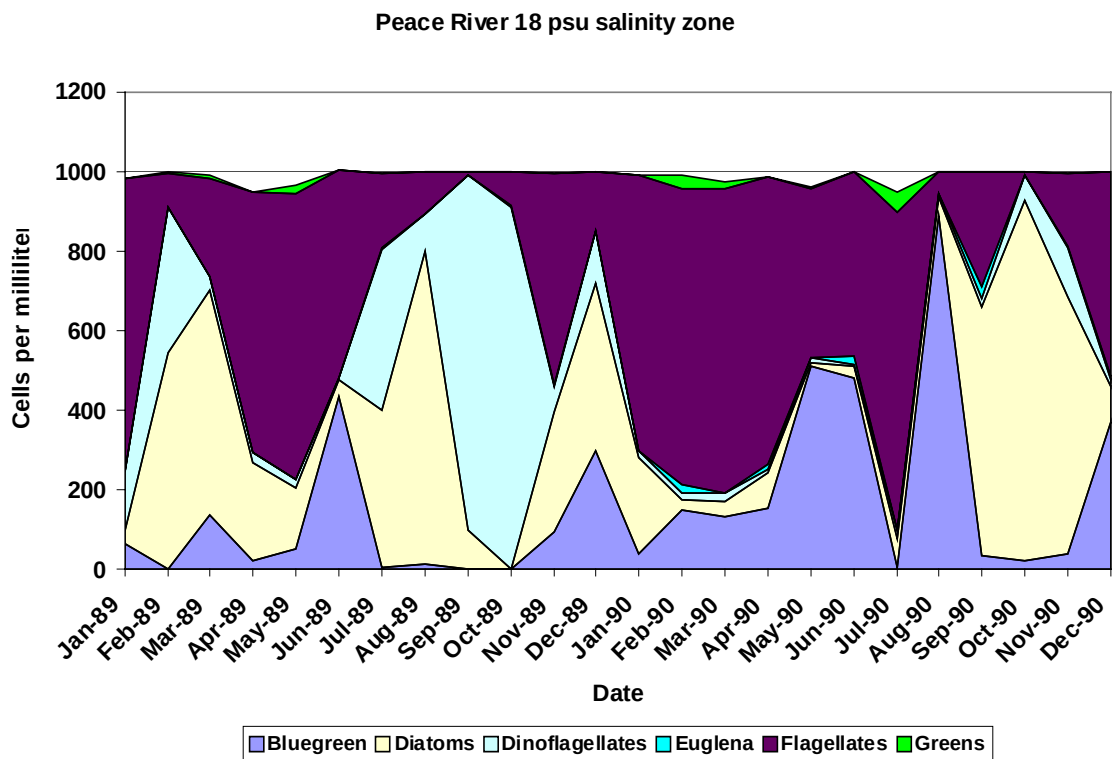


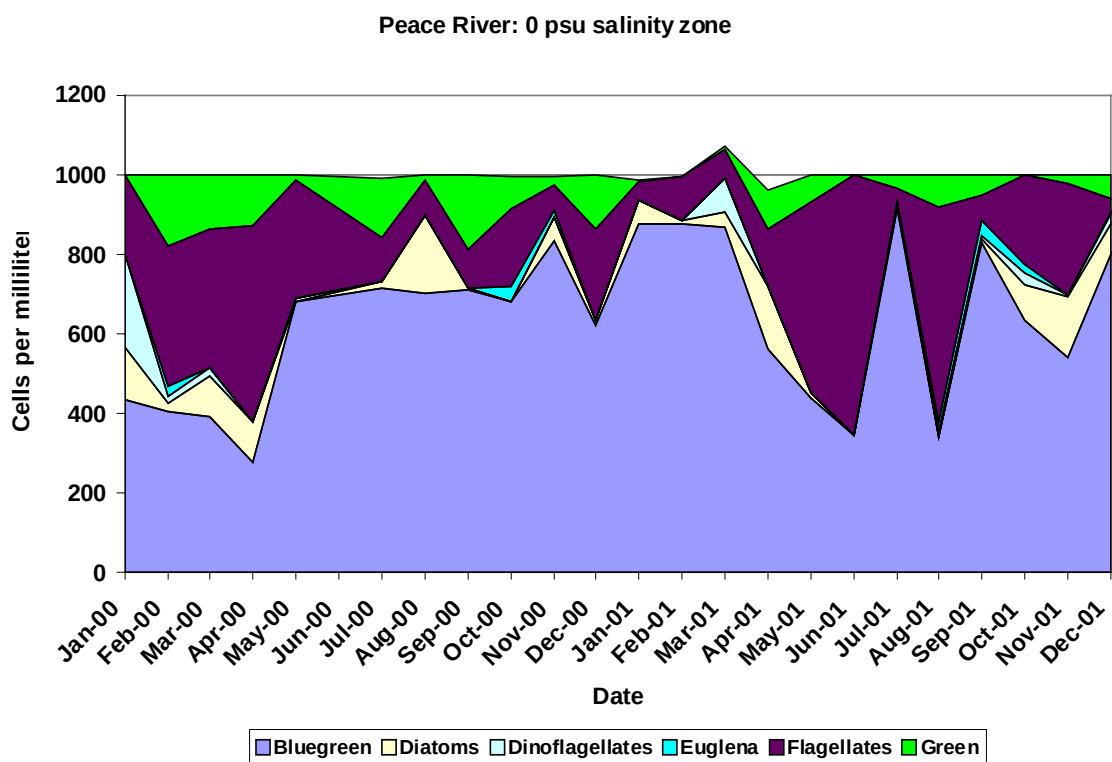
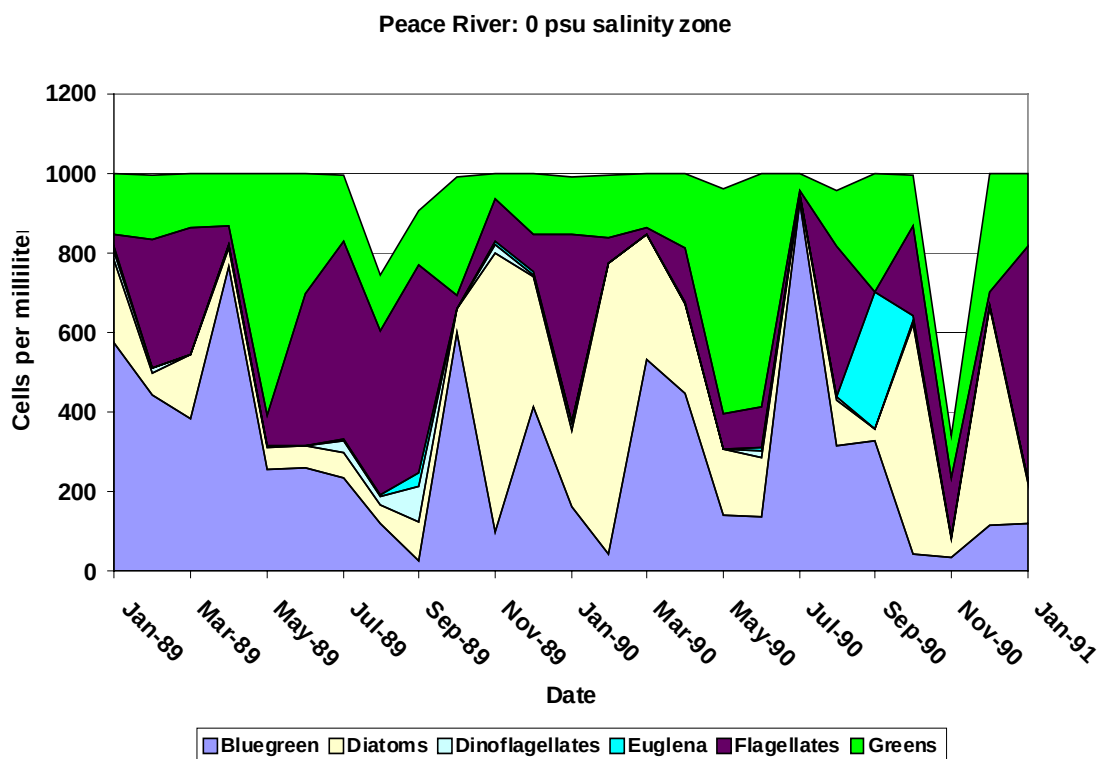


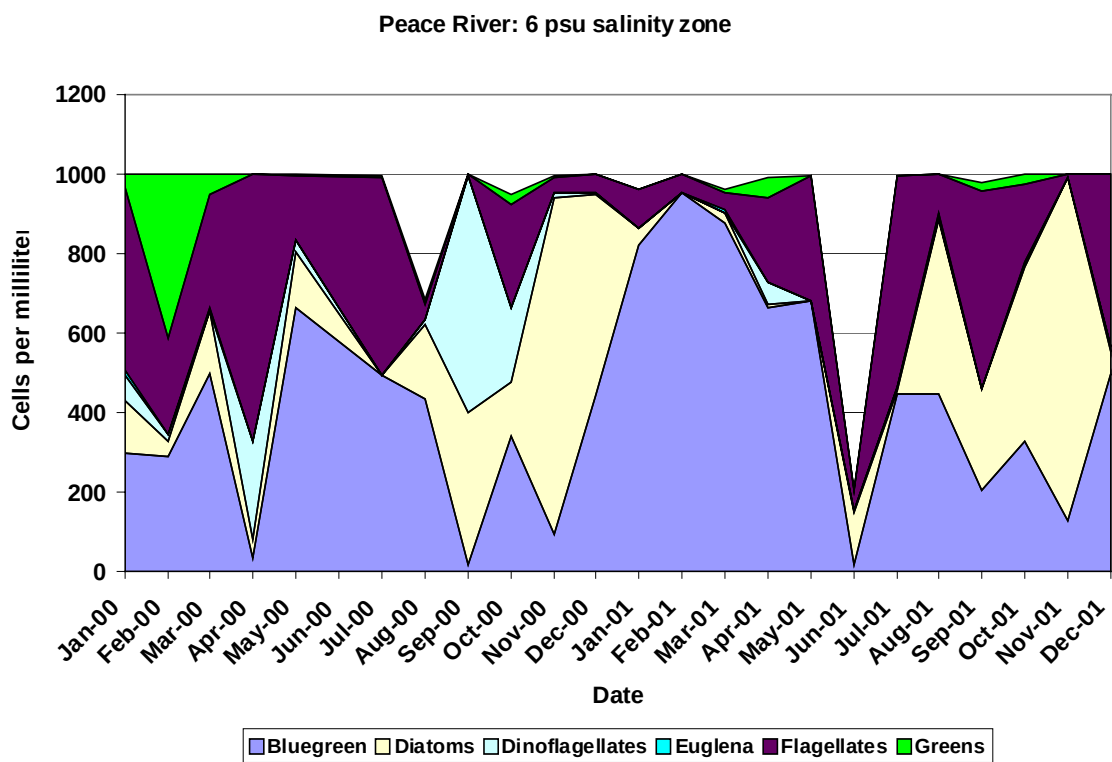
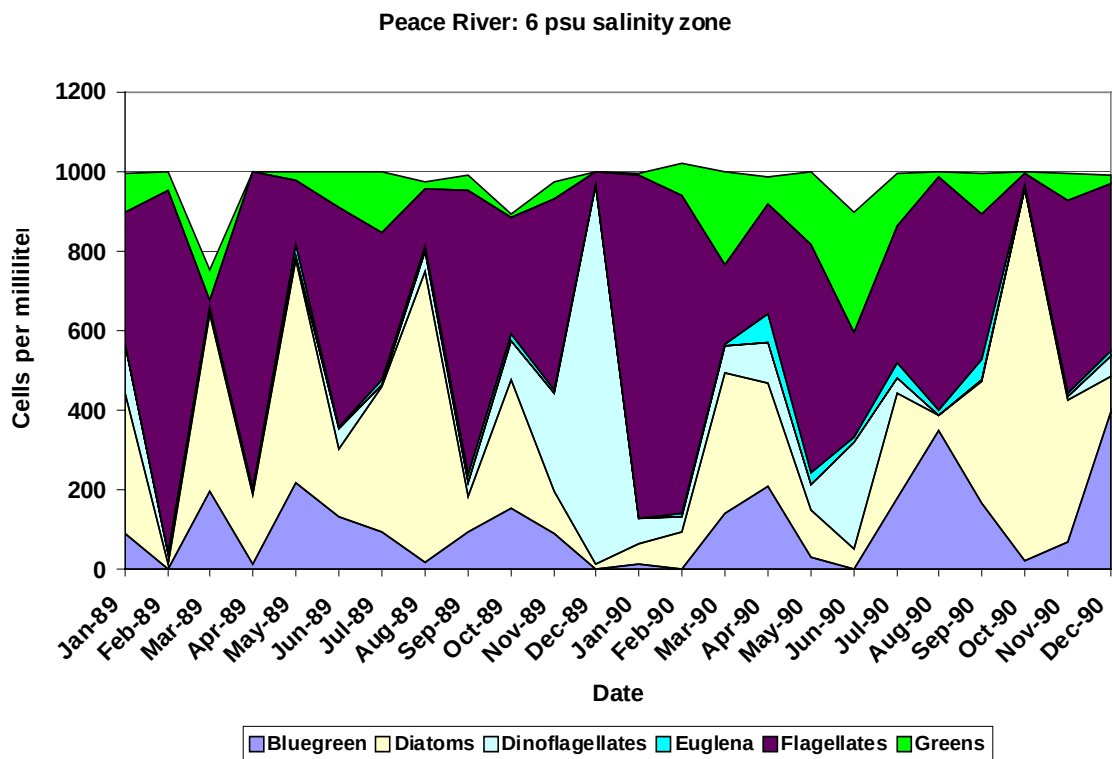


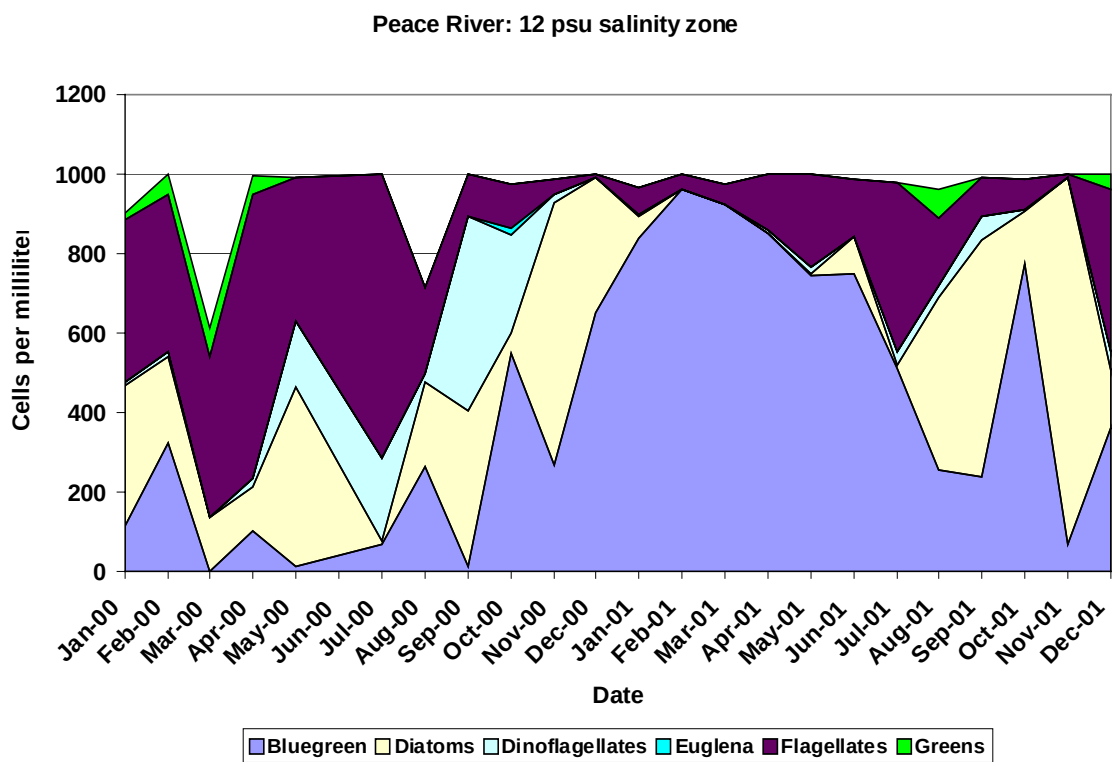
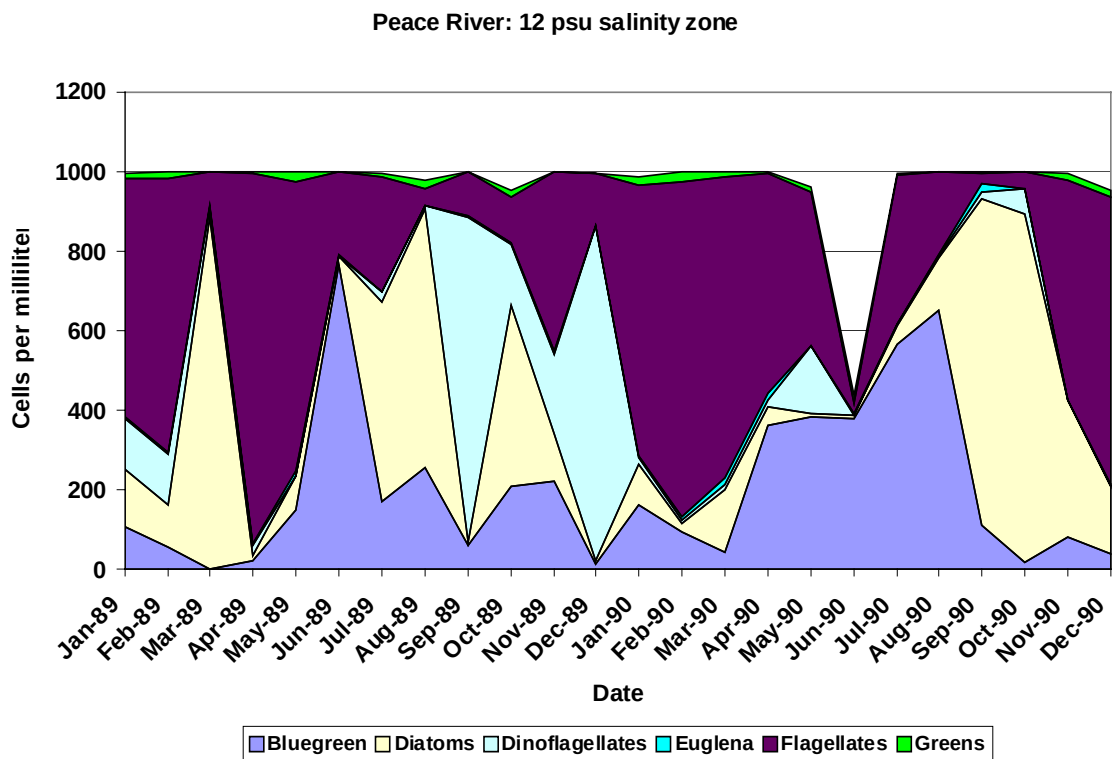


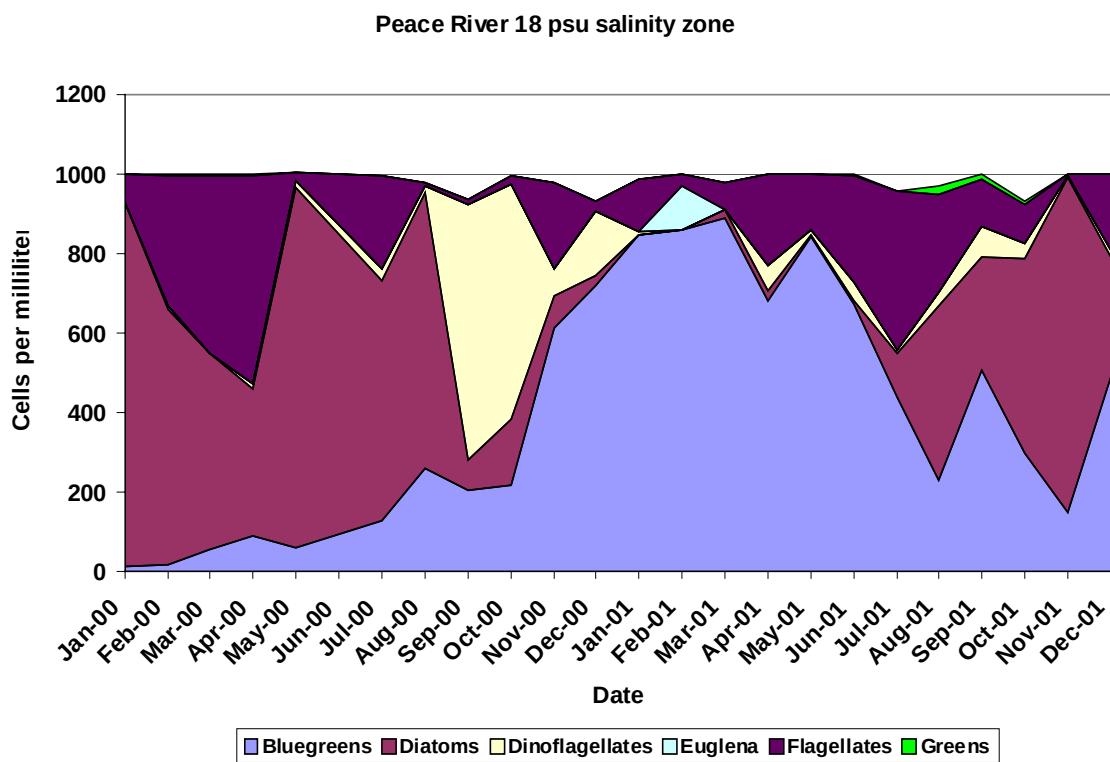
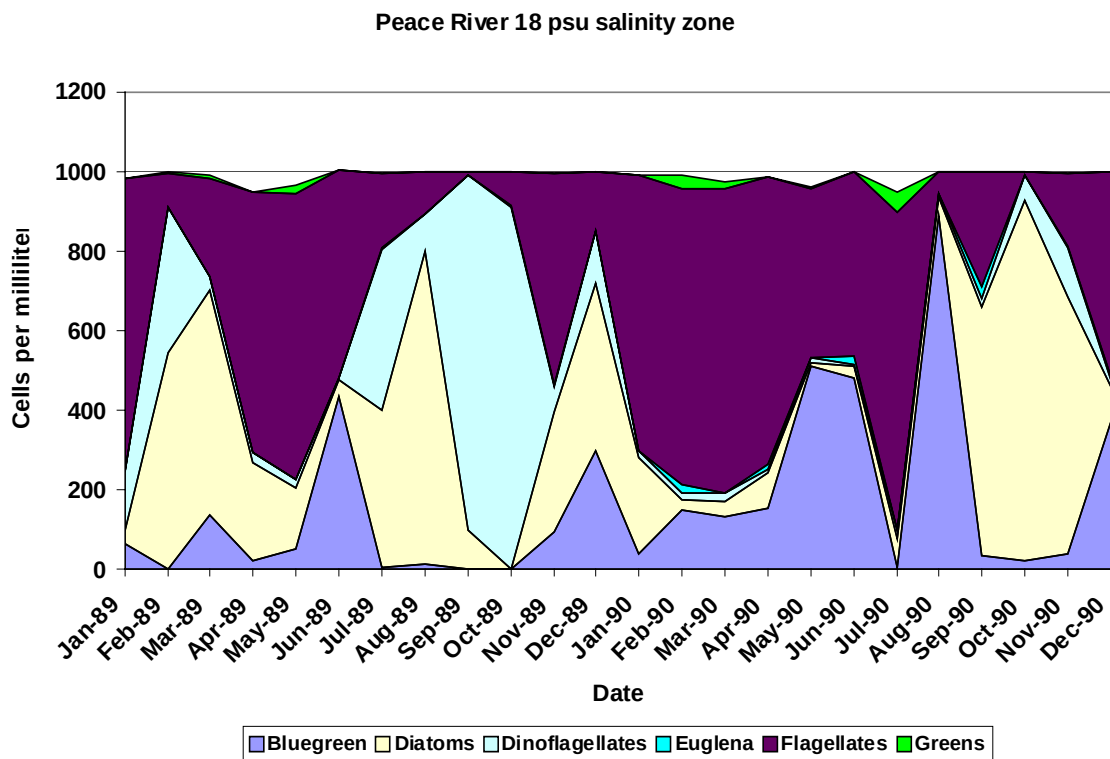




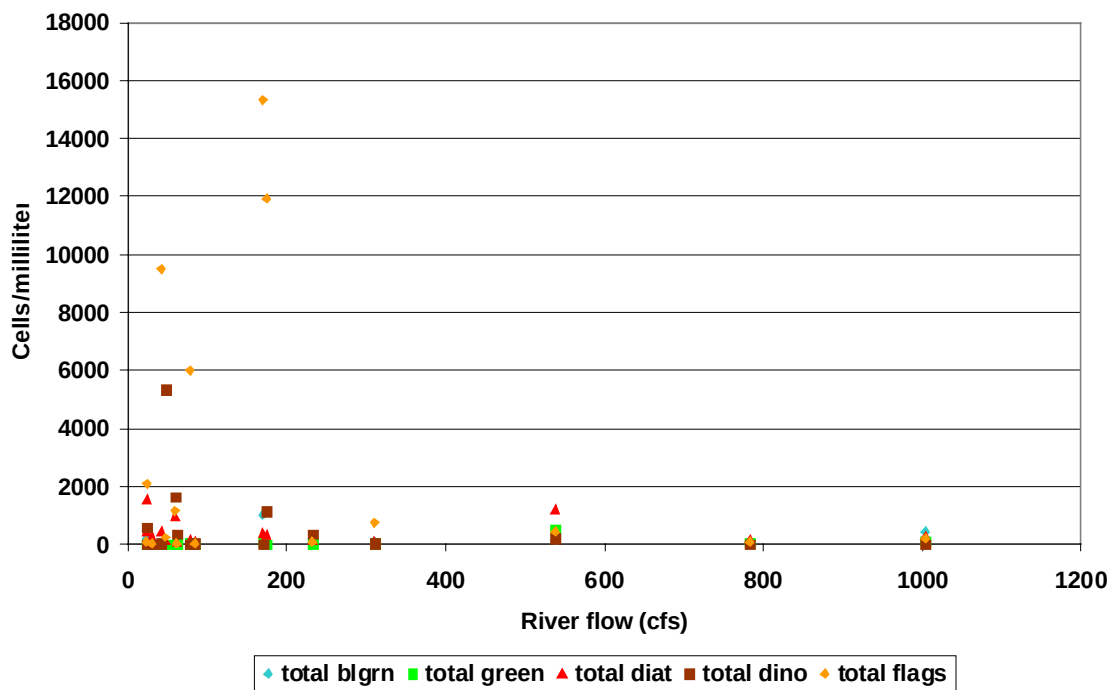




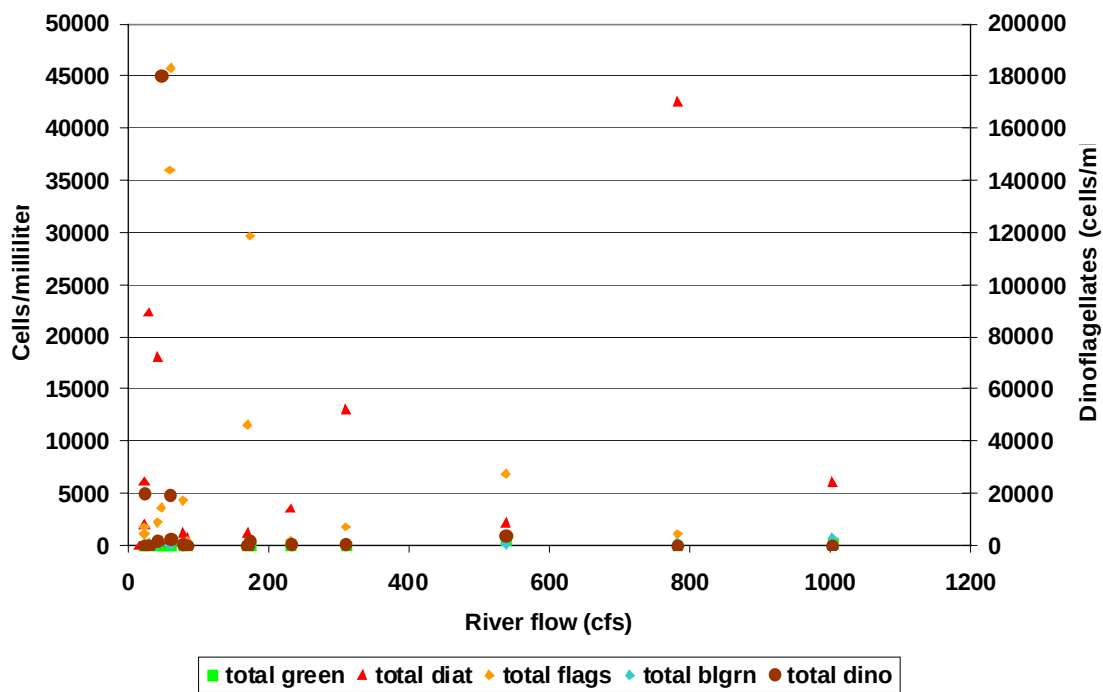


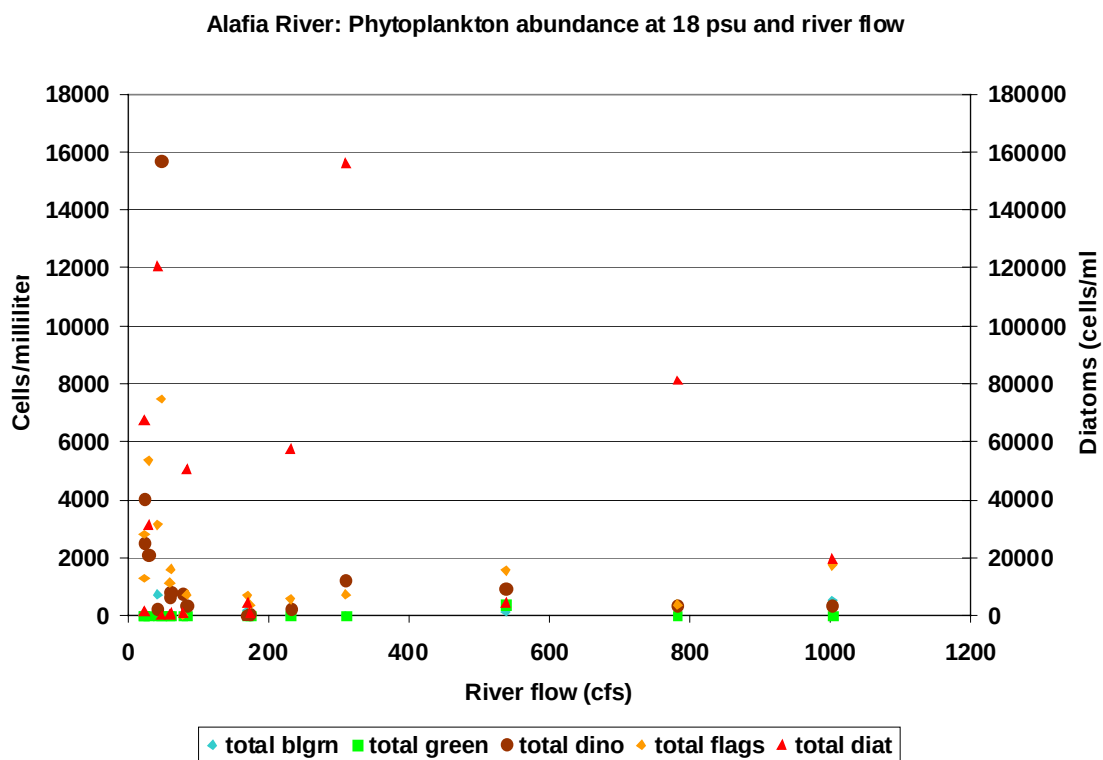
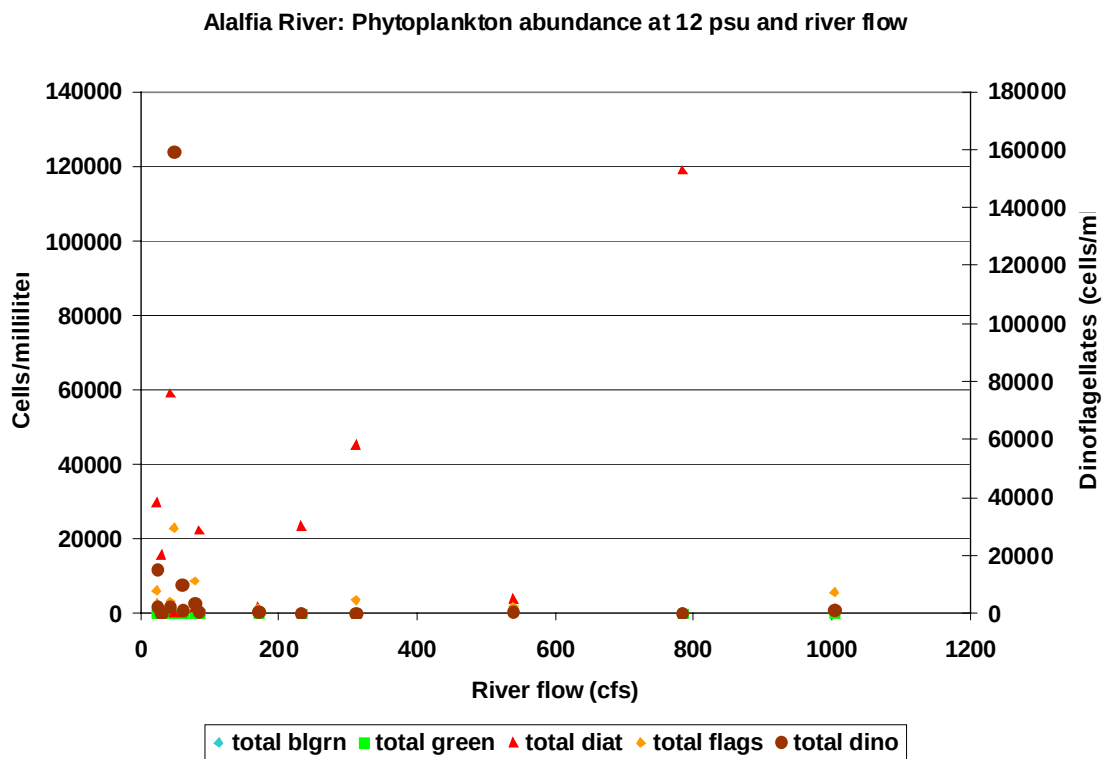


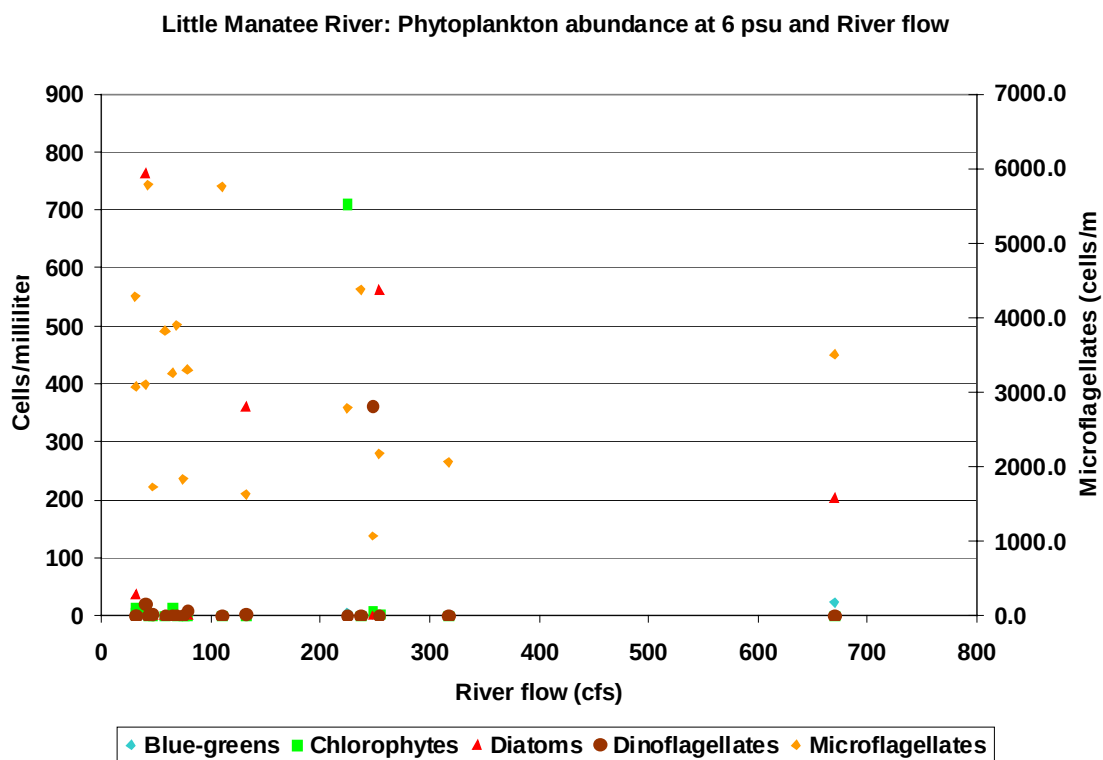
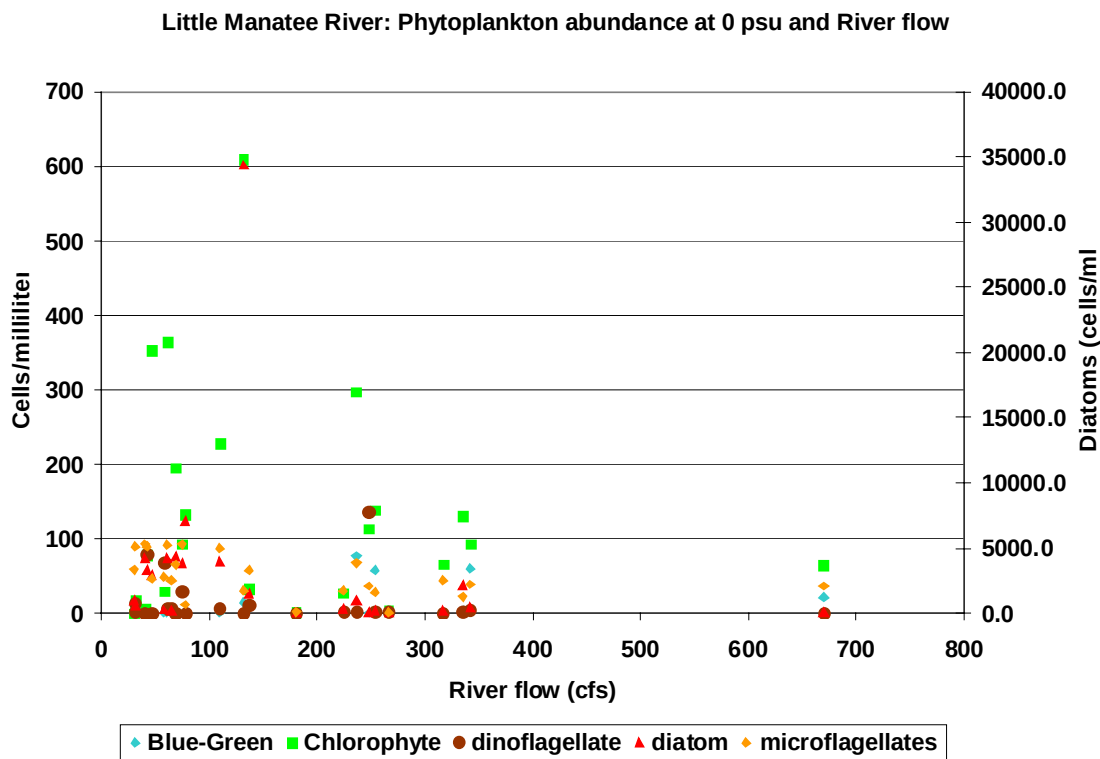
Alafia River: Phytoplankton abundance at 0 psu and river flow

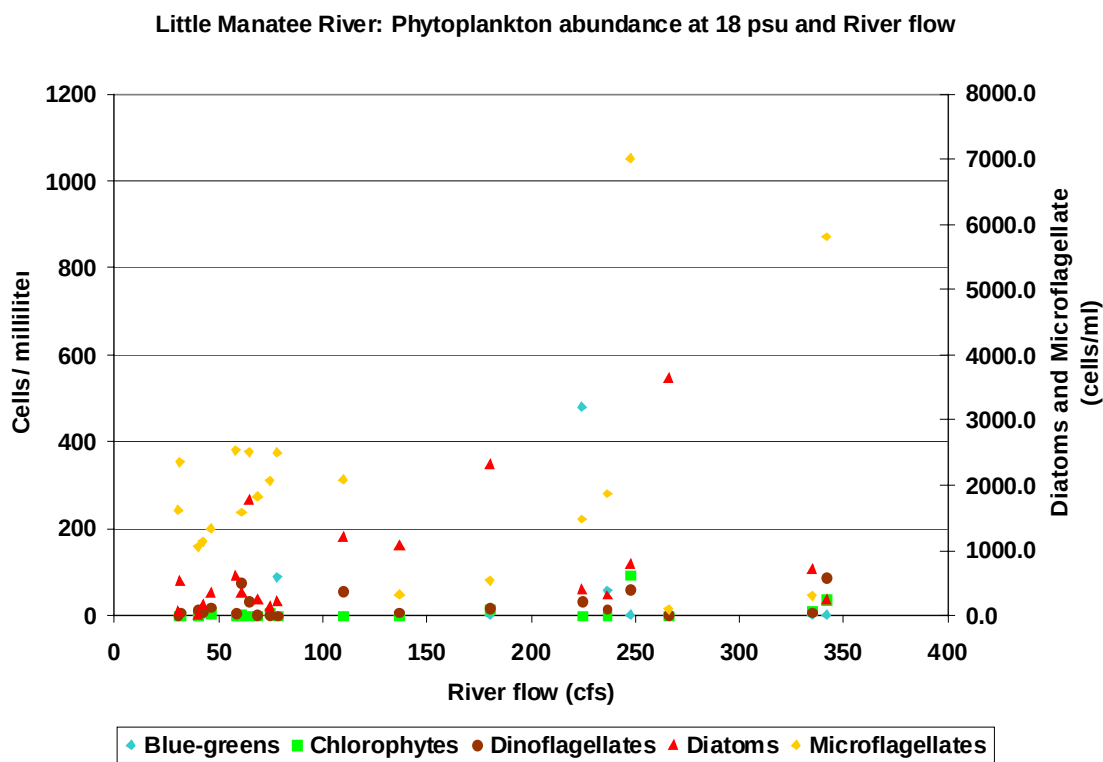
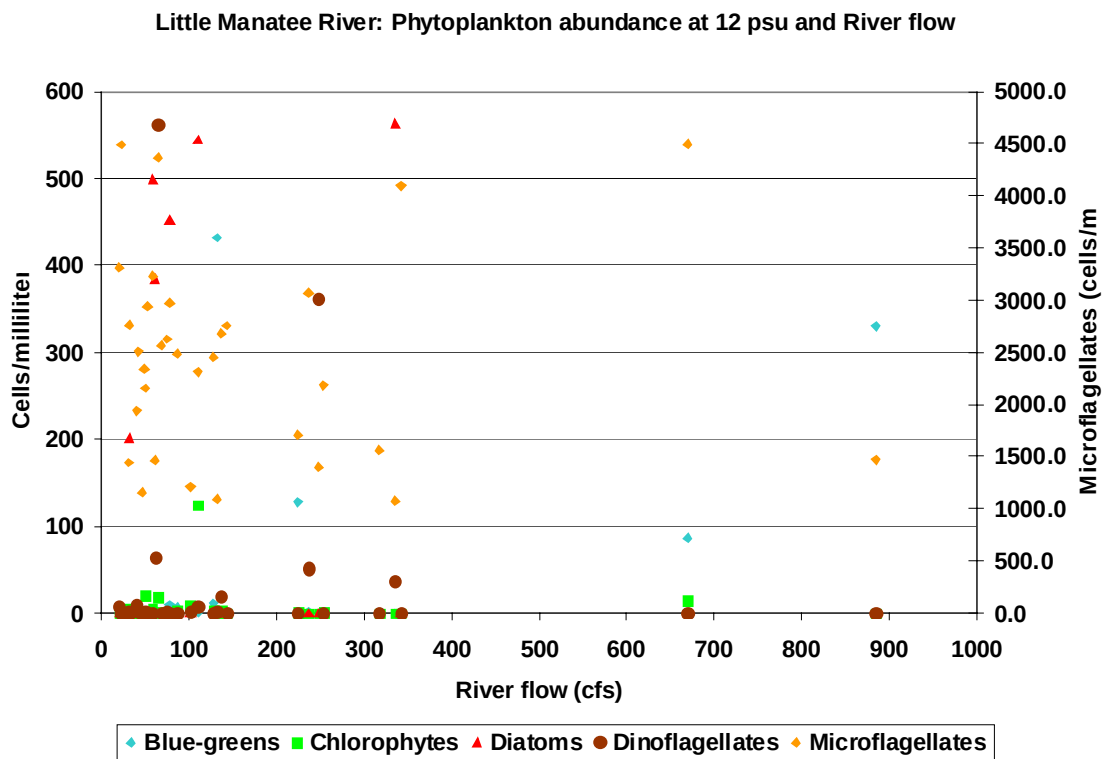


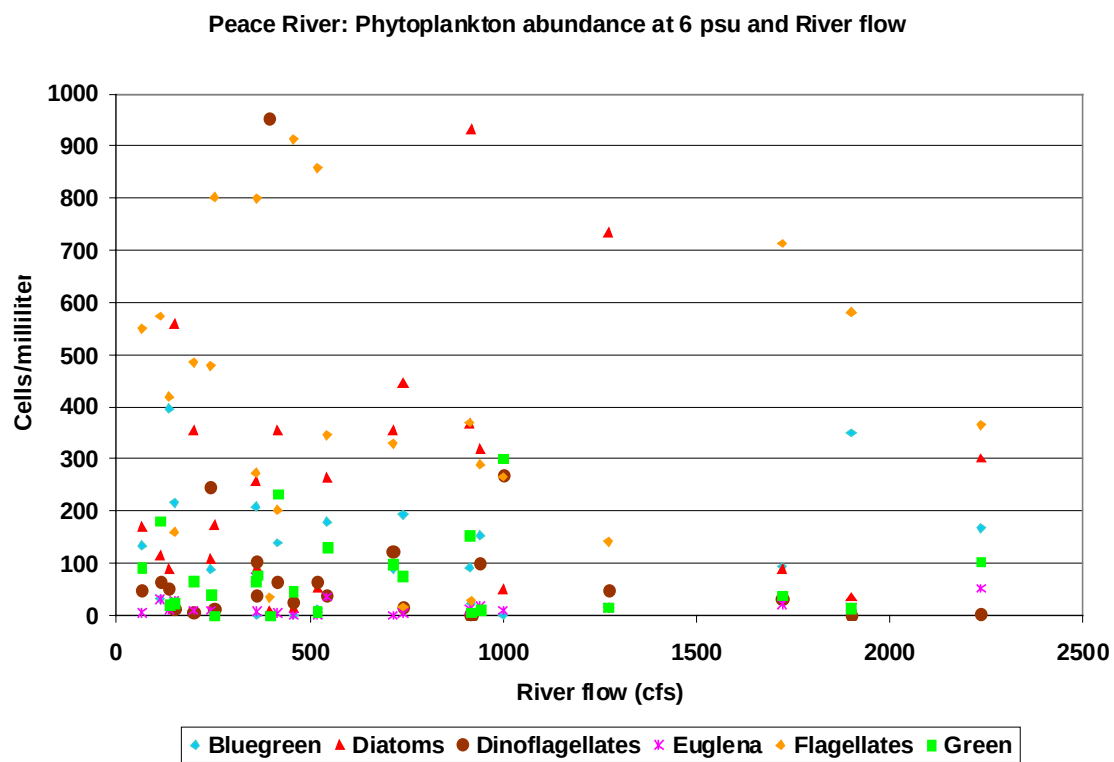
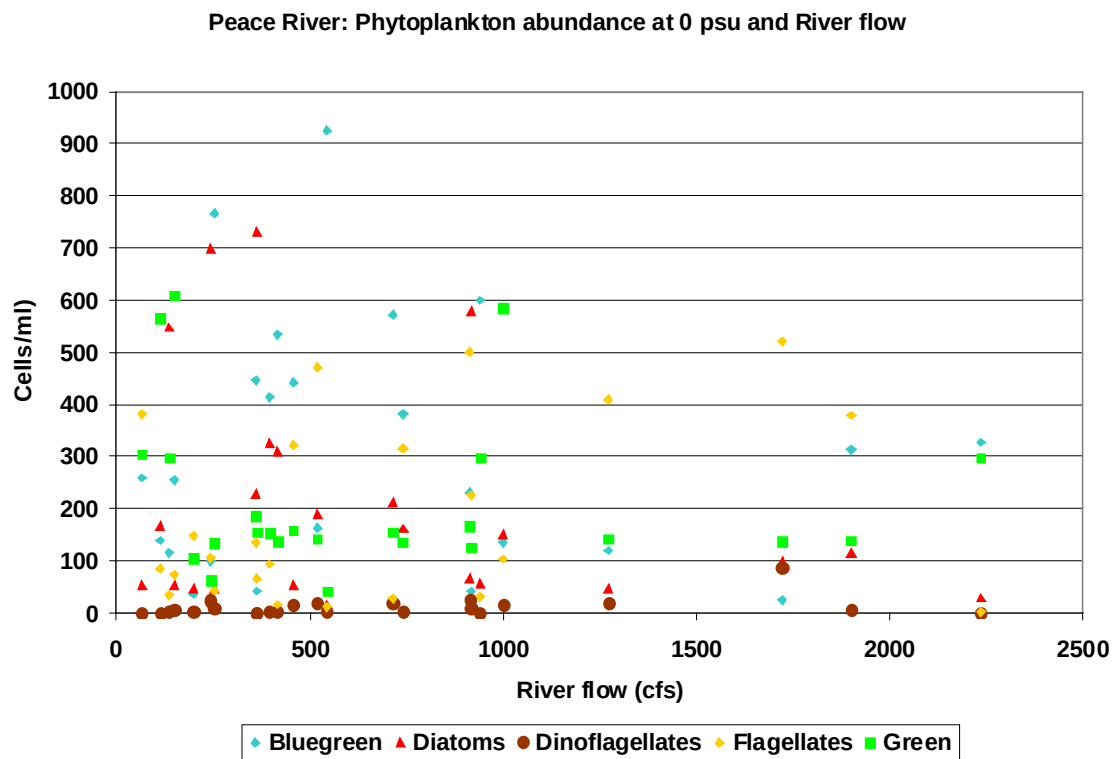
Alafia River: Phytoplankton abundance at 6 psu and river flow

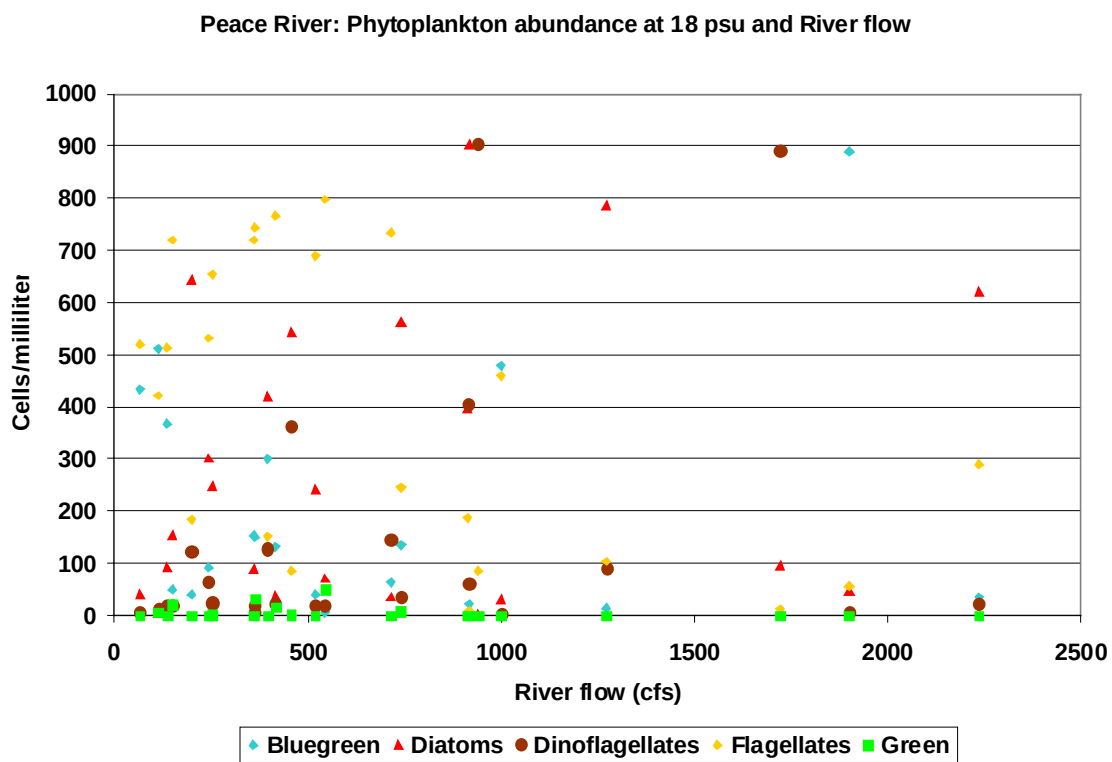
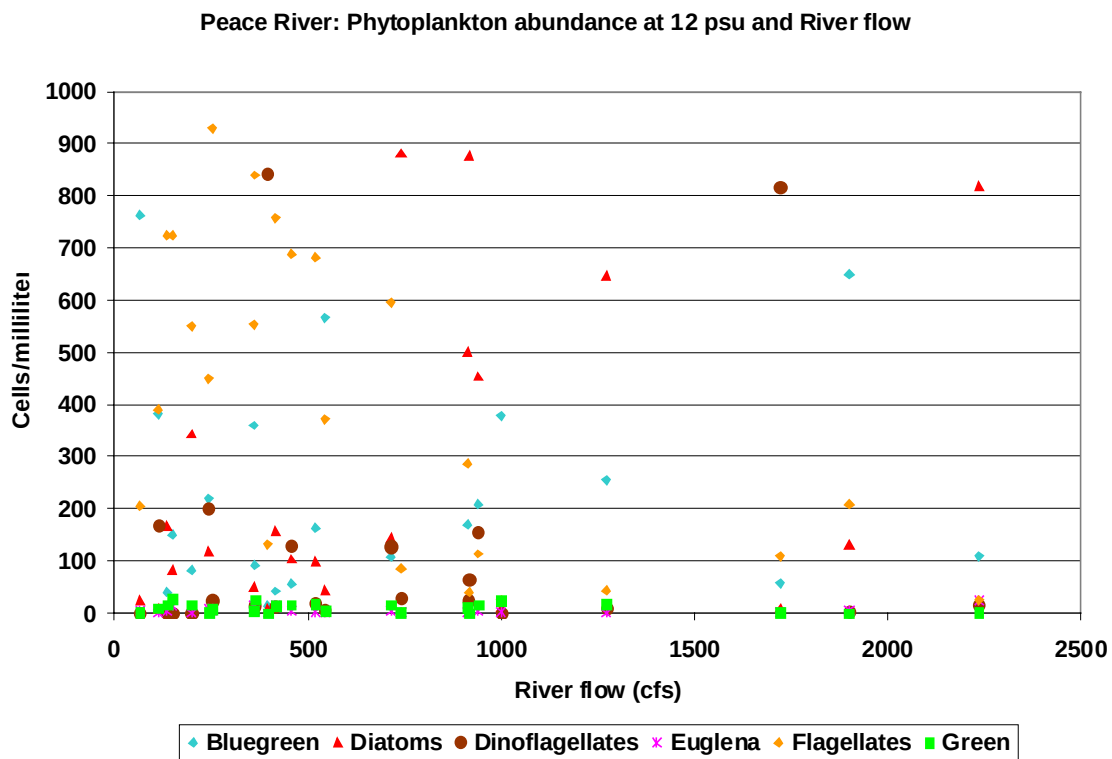




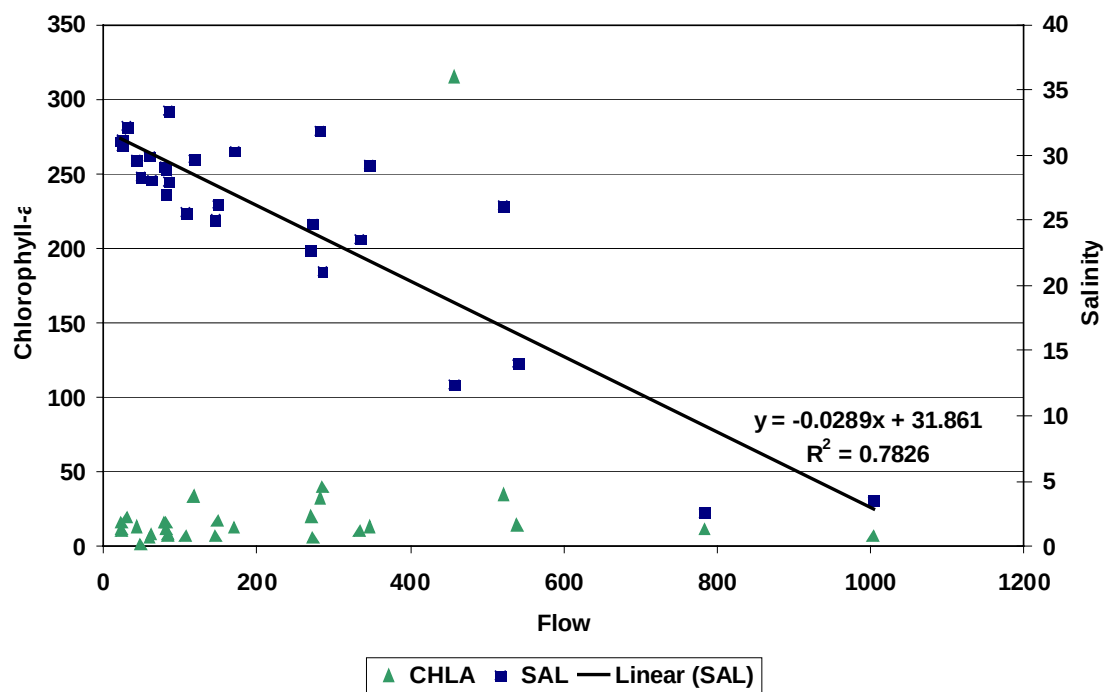




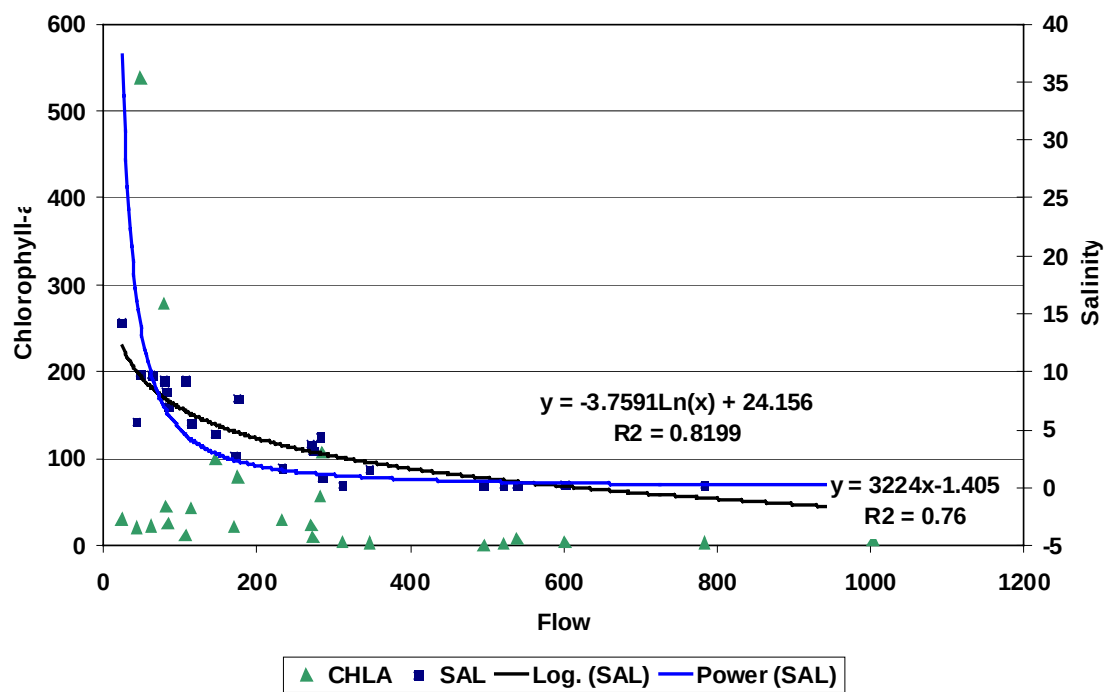




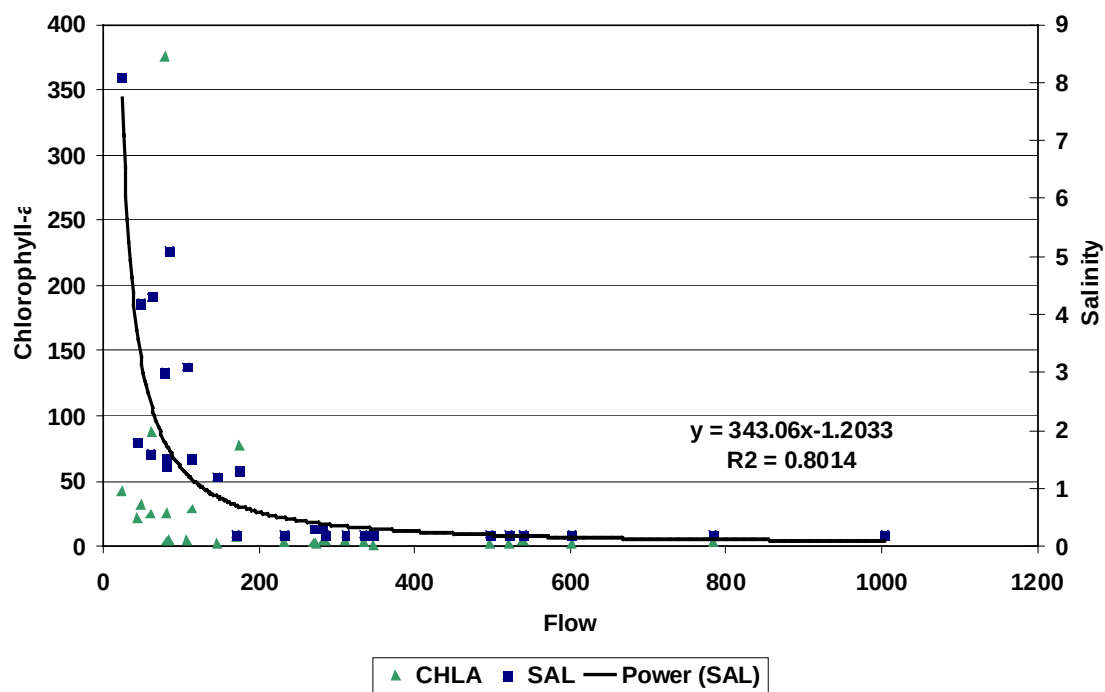
Alafia ST. 1 TBWFlow vs. Chl & Sal



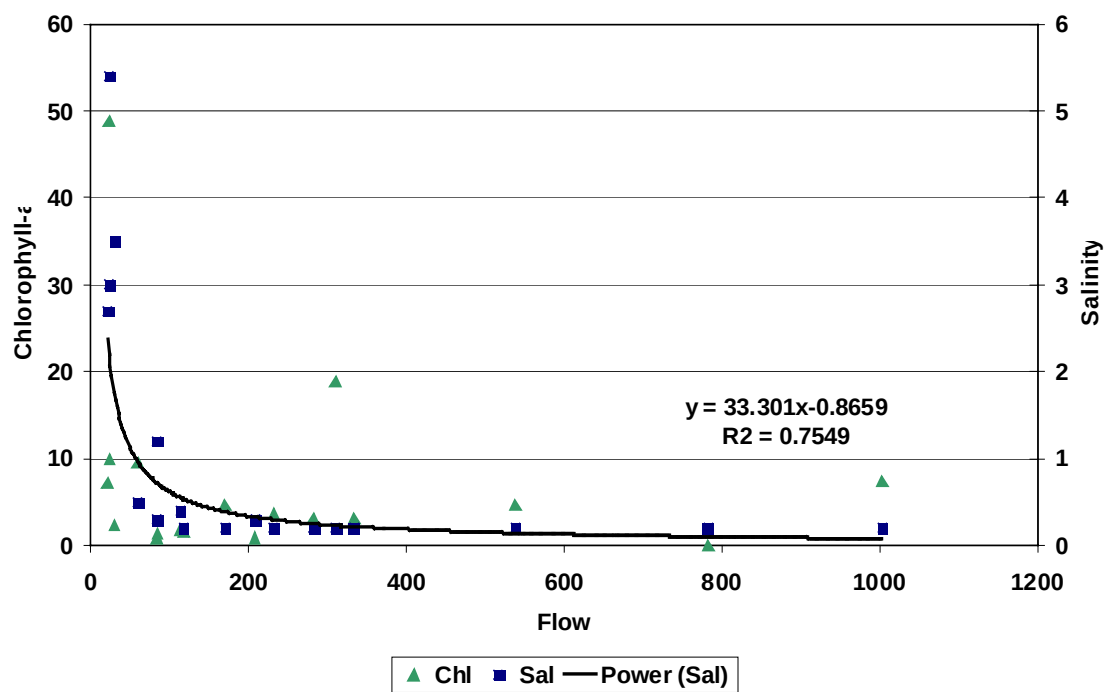
Alafia ST. 6 TBWFlow vs. Chl & Sal



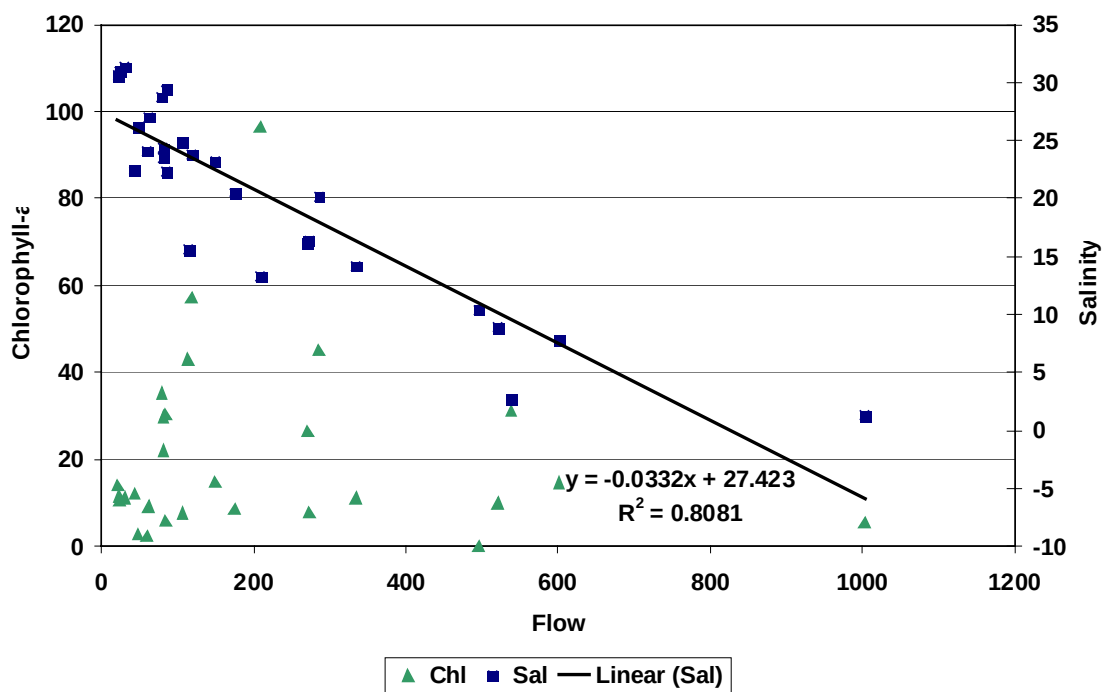
Alafia ST. 10 TBWFlow vs. Chl & Sal



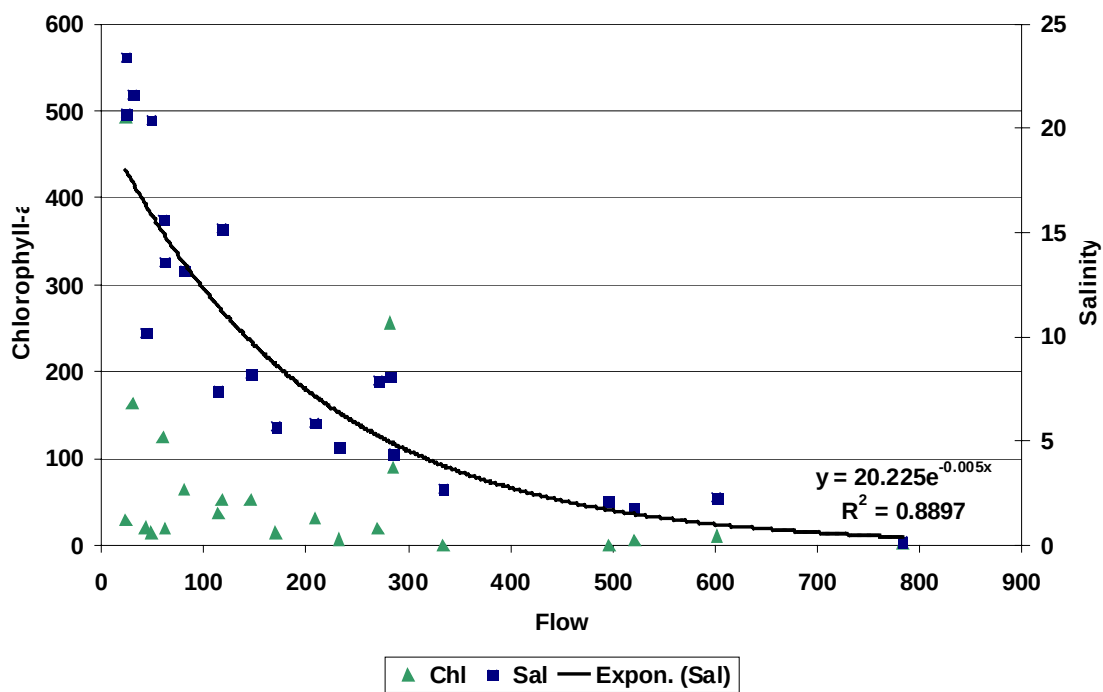
Alafia ST. 13 TBWFlow vs. Chl & Sal



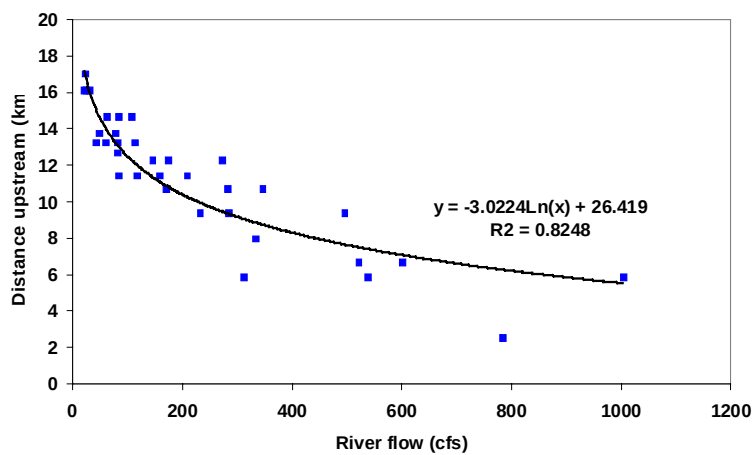
Alafia ST. B TBWFlow vs. Chl & Sal



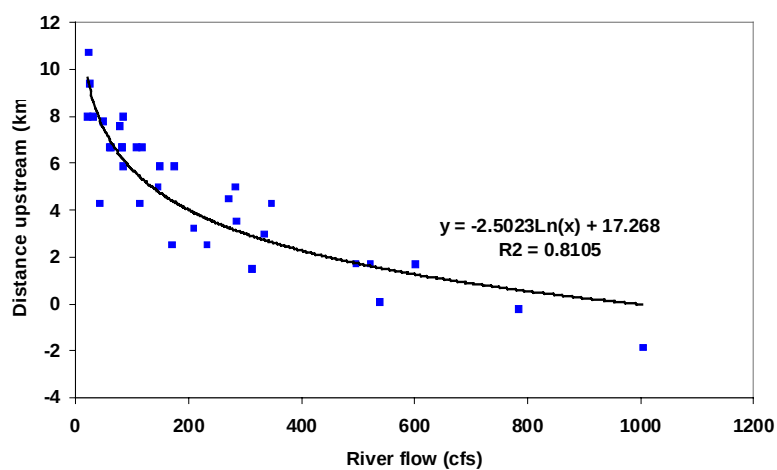
Alafia ST. C TBWFlow vs. Chl & Sal



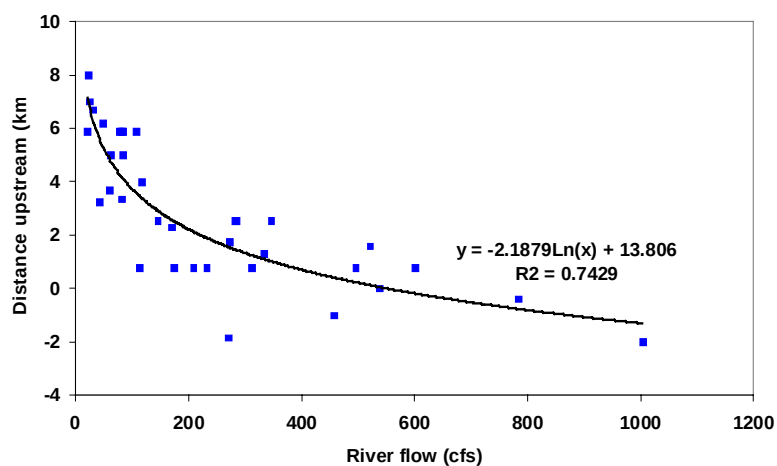
Alafia River: Location of the 0 psu salinity zone

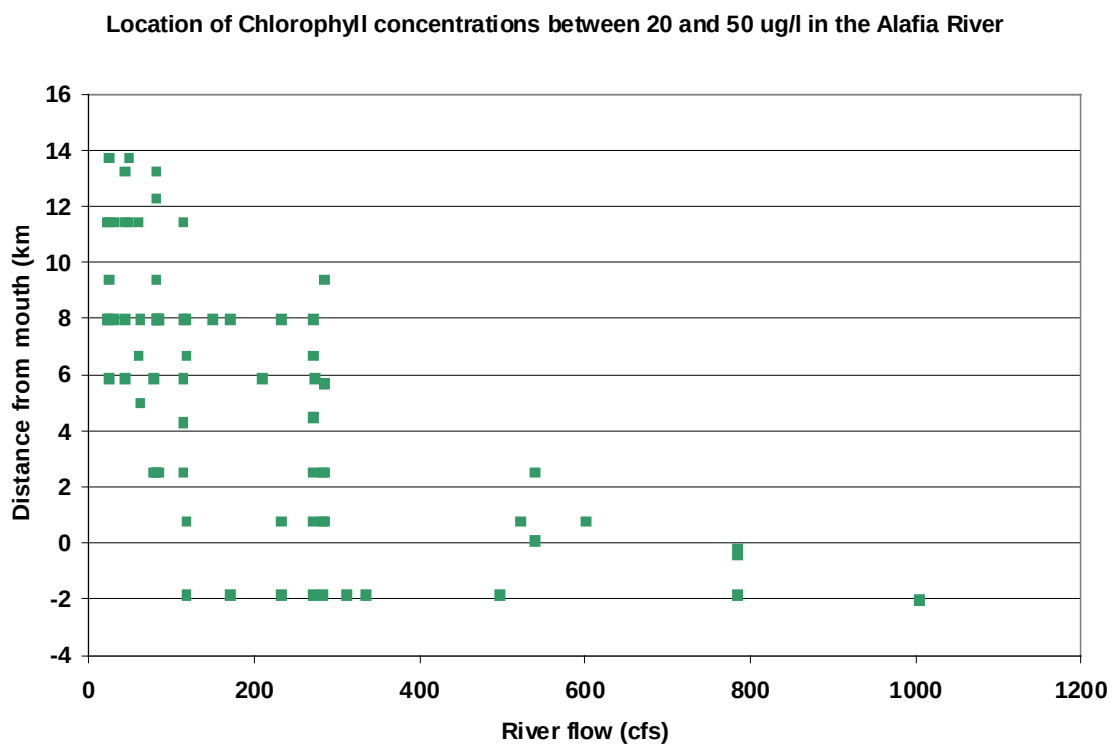
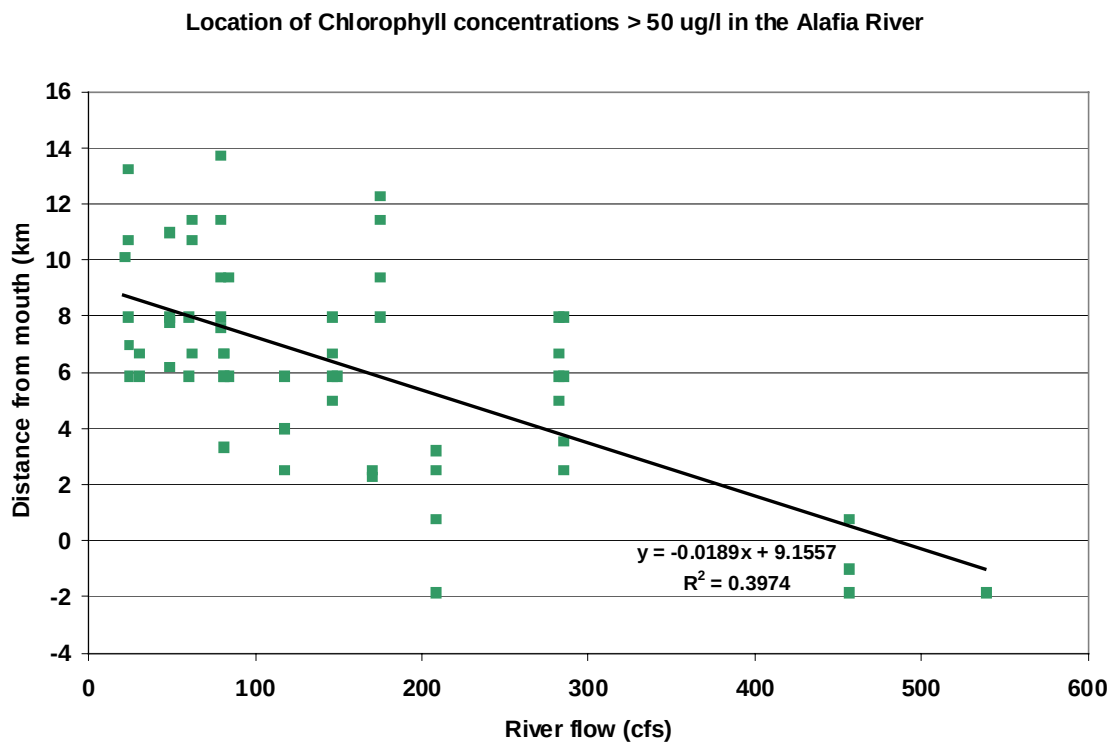


Alafia River: Location of the 12 psu salinity zone

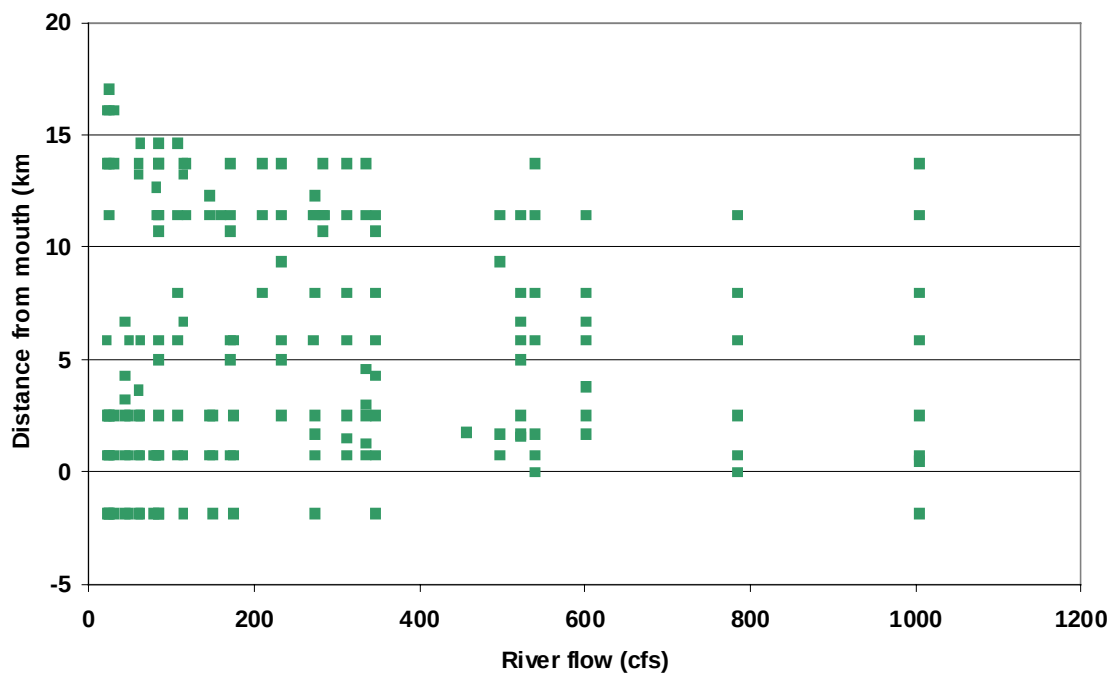


Alafia River: Location of the 18 psu salinity zone

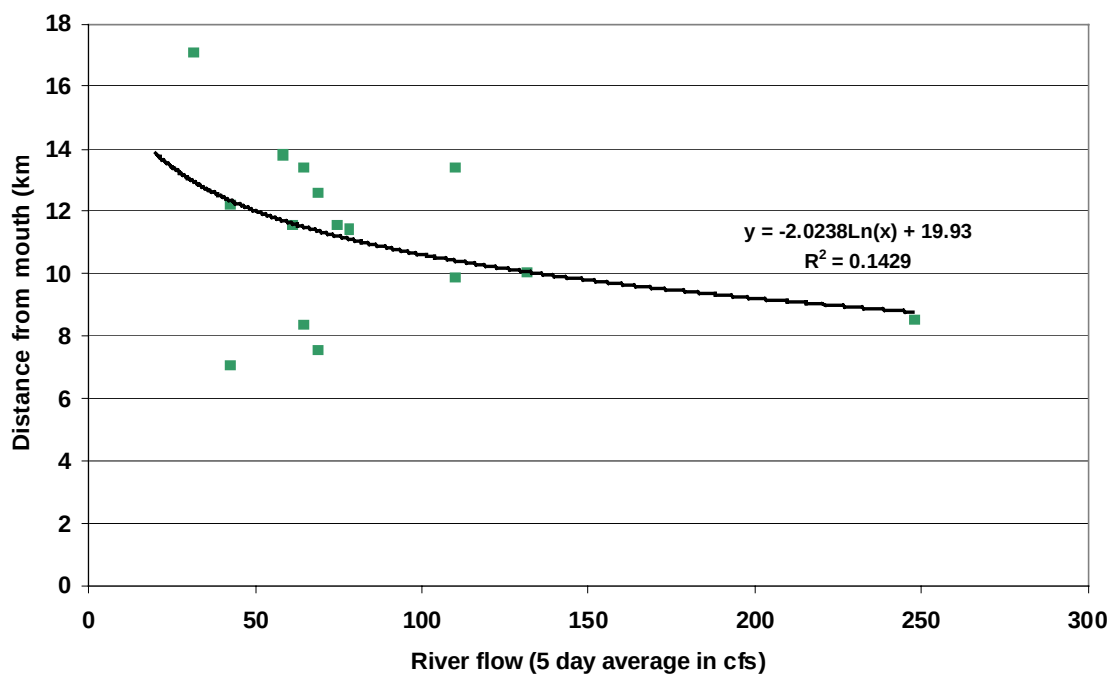




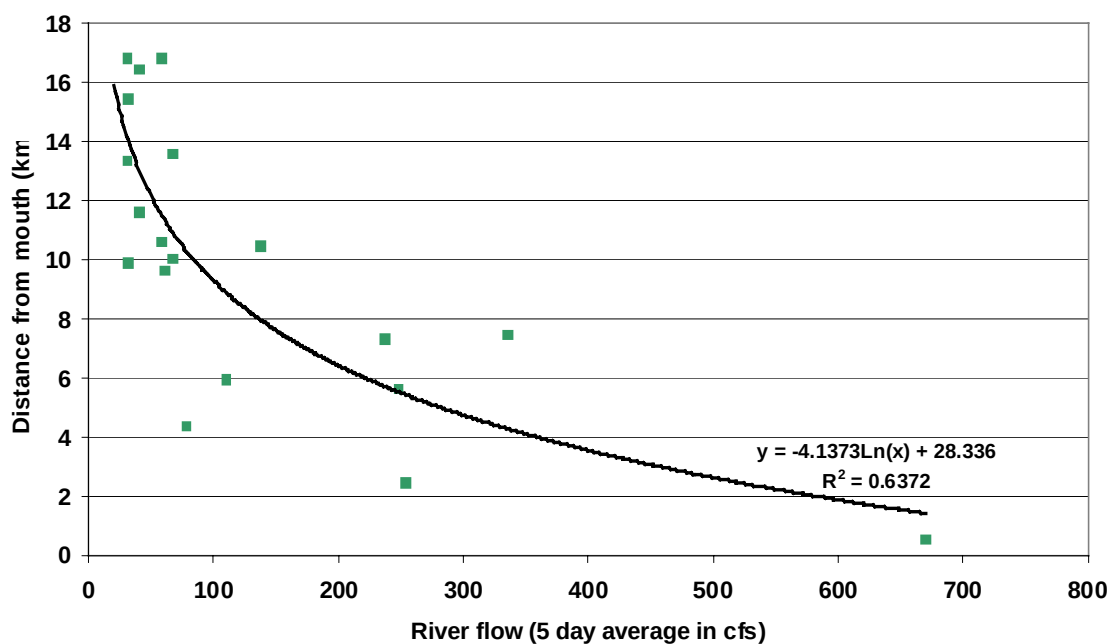
Location of Chlorophyll concentrations <20 ug/l in the Alafia River



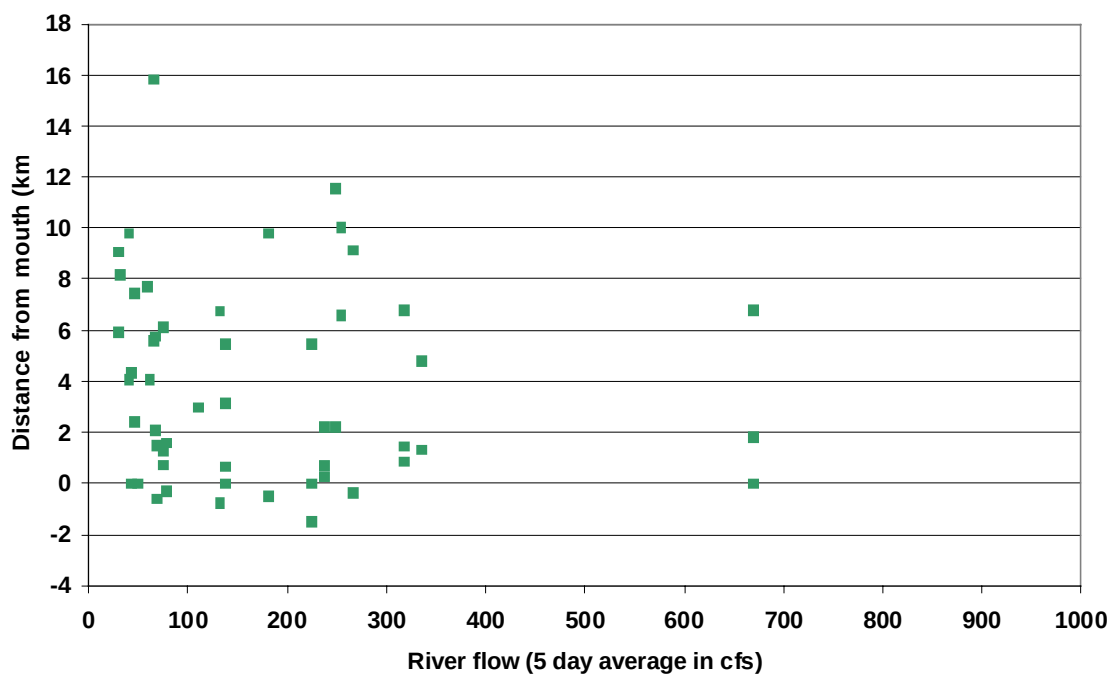
Location of Chlorophyll concentration >20 ug/l in the Little Manatee River

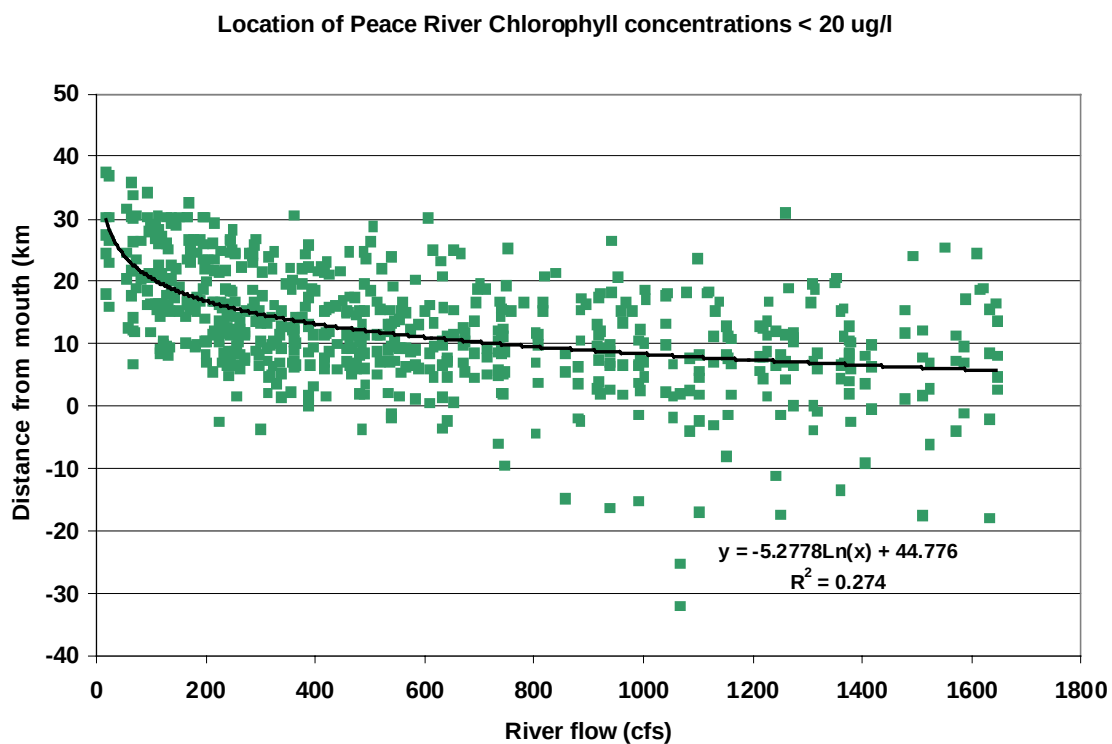
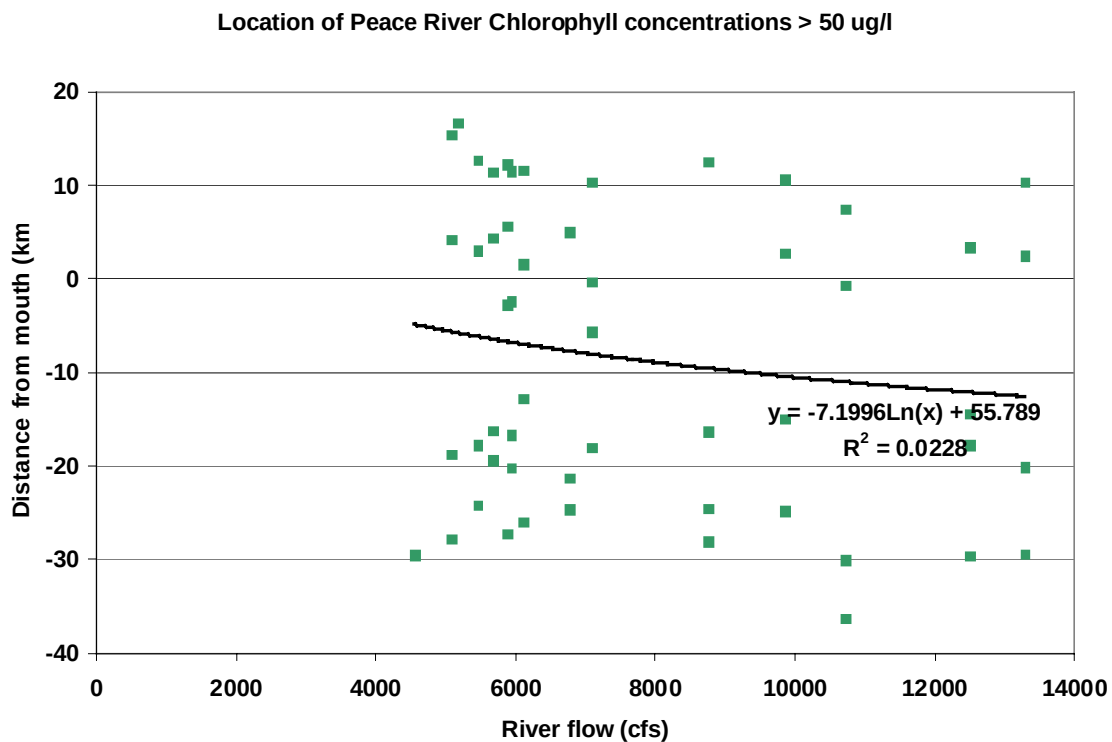


Location of Chlorophyll concentrations <20 and >10 ug/l in the Little Manatee River

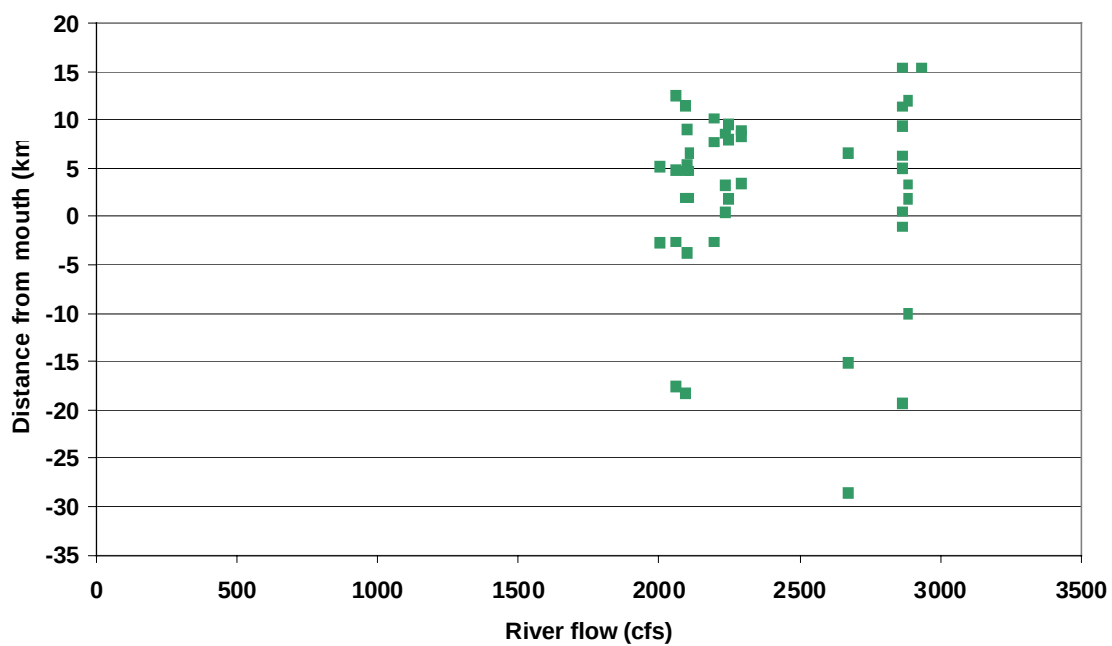


Location of Chlorophyll concentrations < 10 ug/l in the Little Manatee River

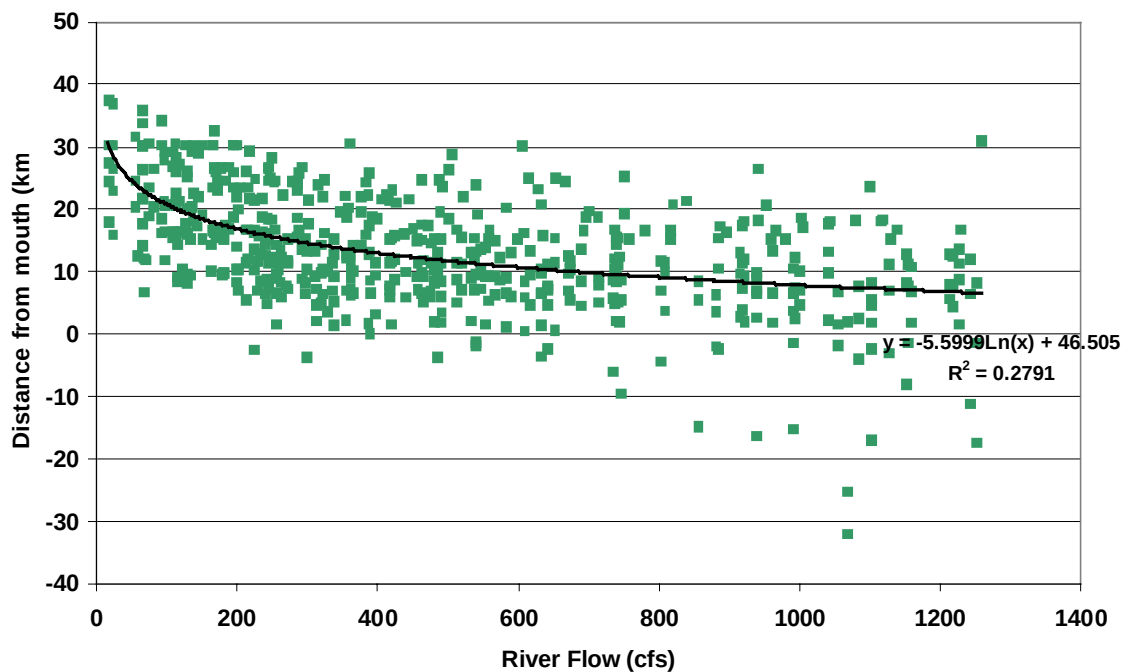


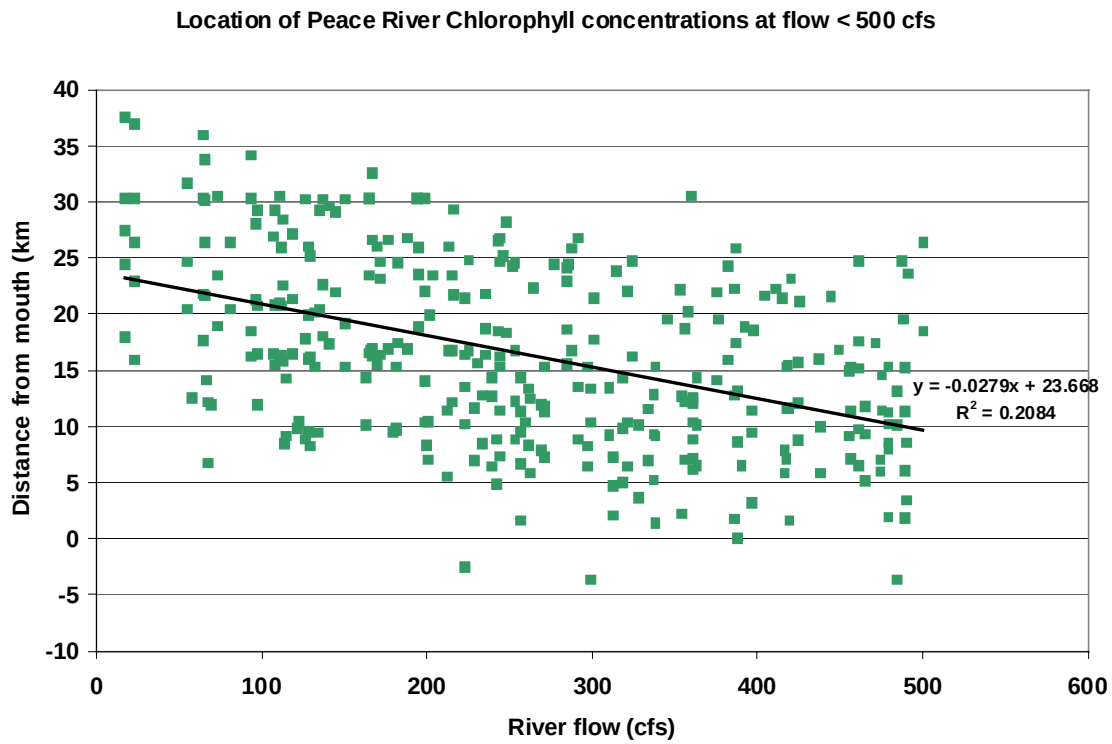


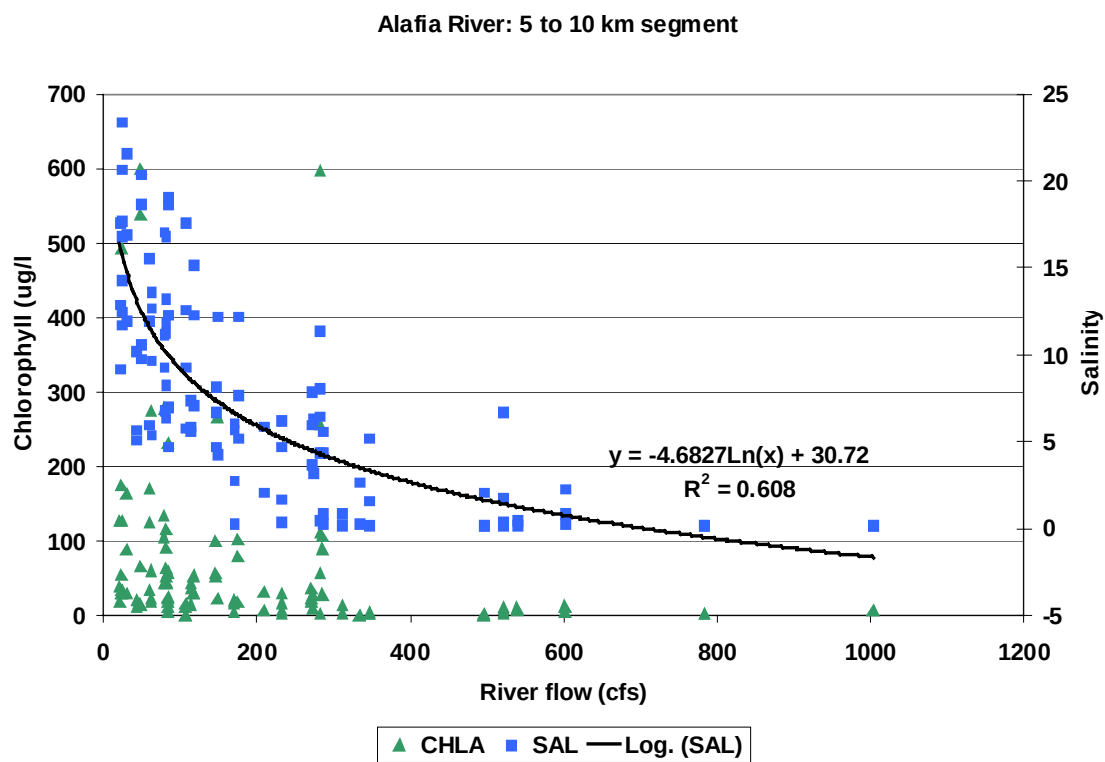
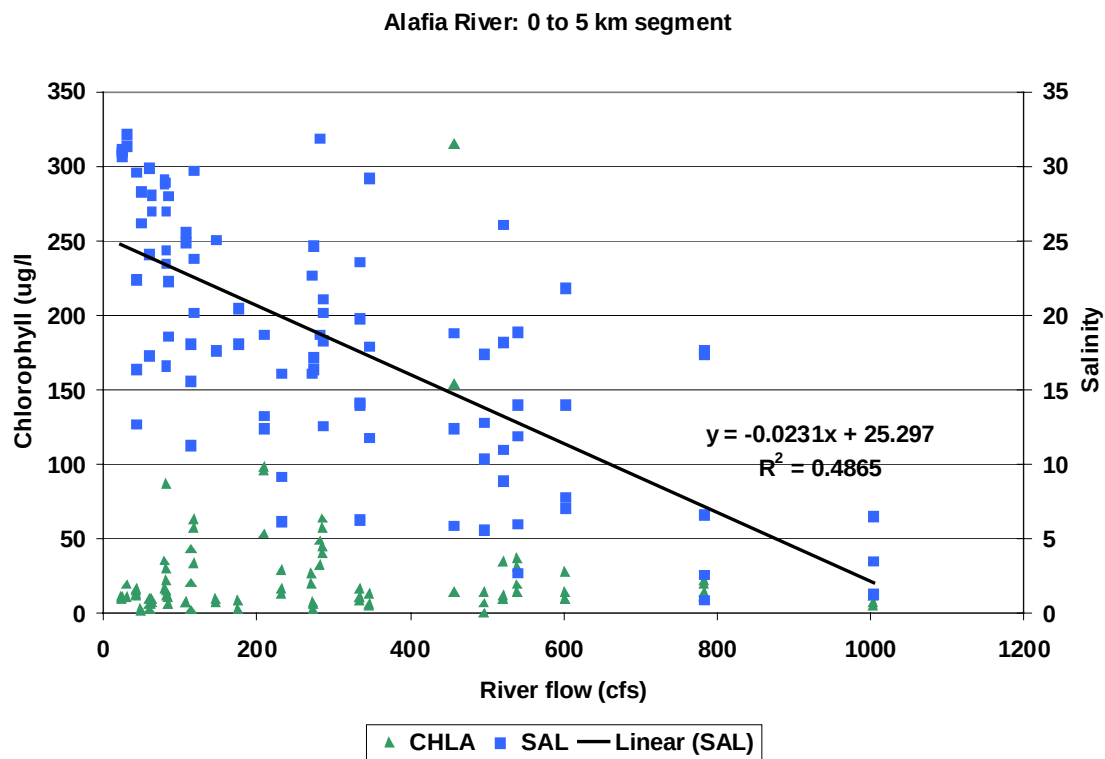
Location of Peace River Chlorophyll concentrations > 50 ug/l with flows < 3000cfs



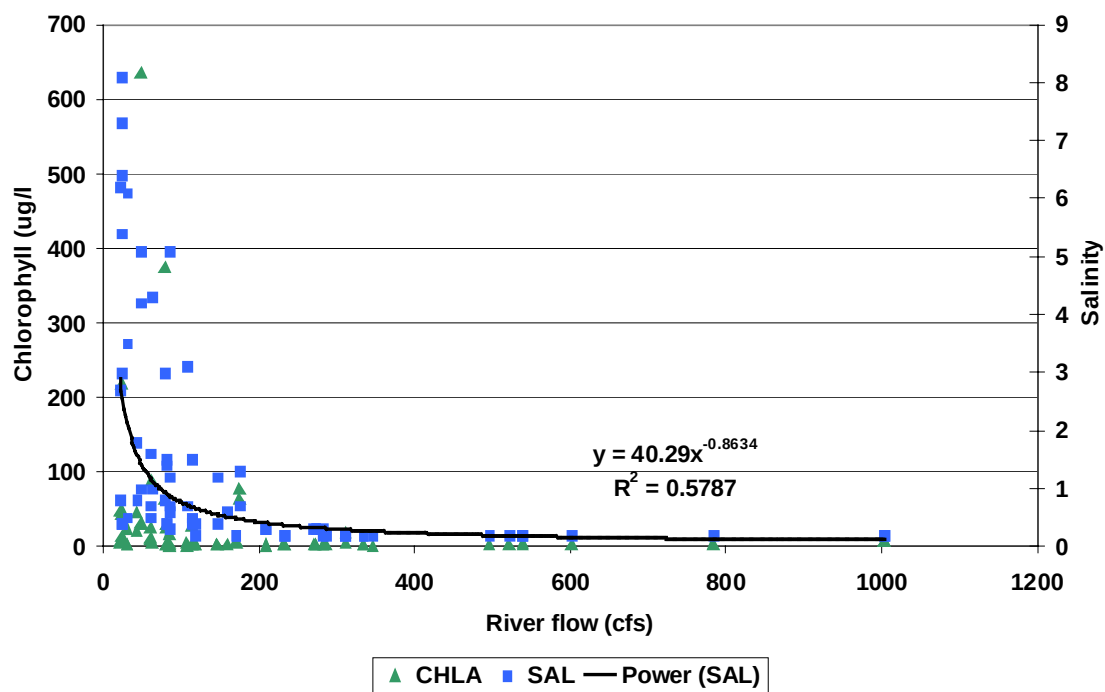
Location of Peace River Chlorophyll concentrations < 20 ug/l and flow < 3000 cfs



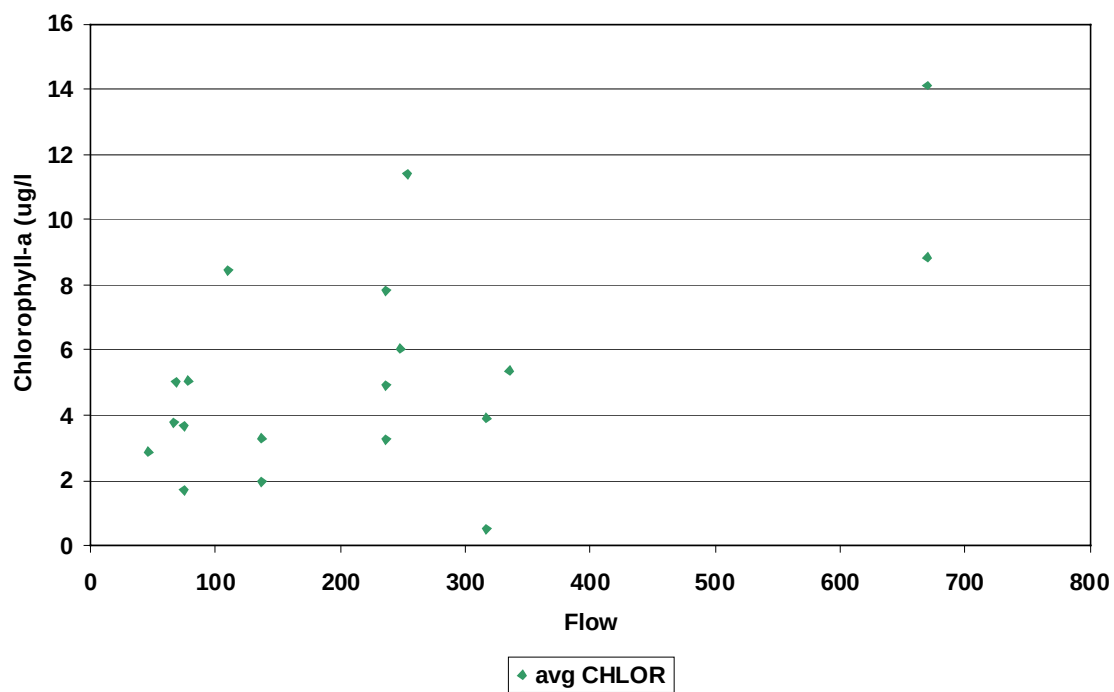




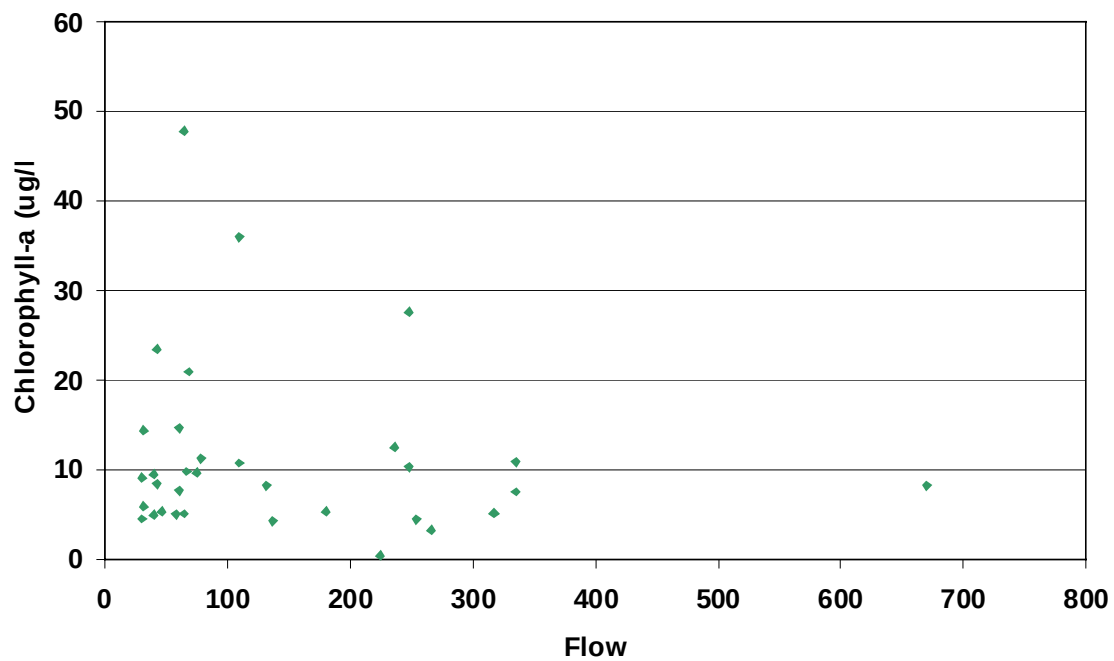
Alafia River: 11 to 17 km segment



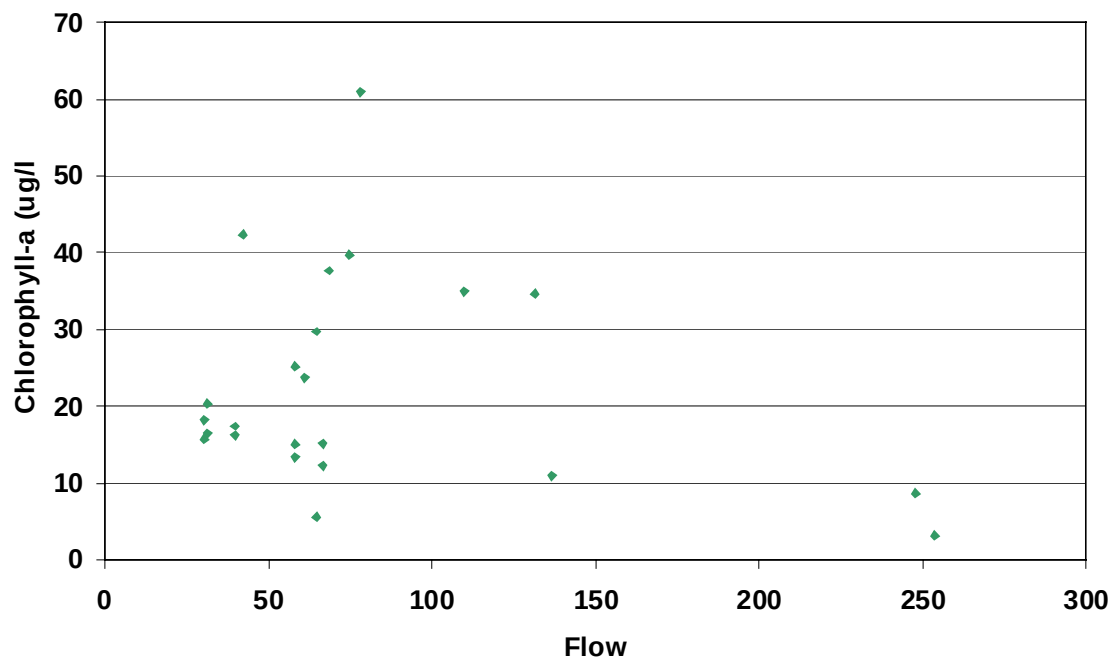
Little Manatee River: Km 0 to 4

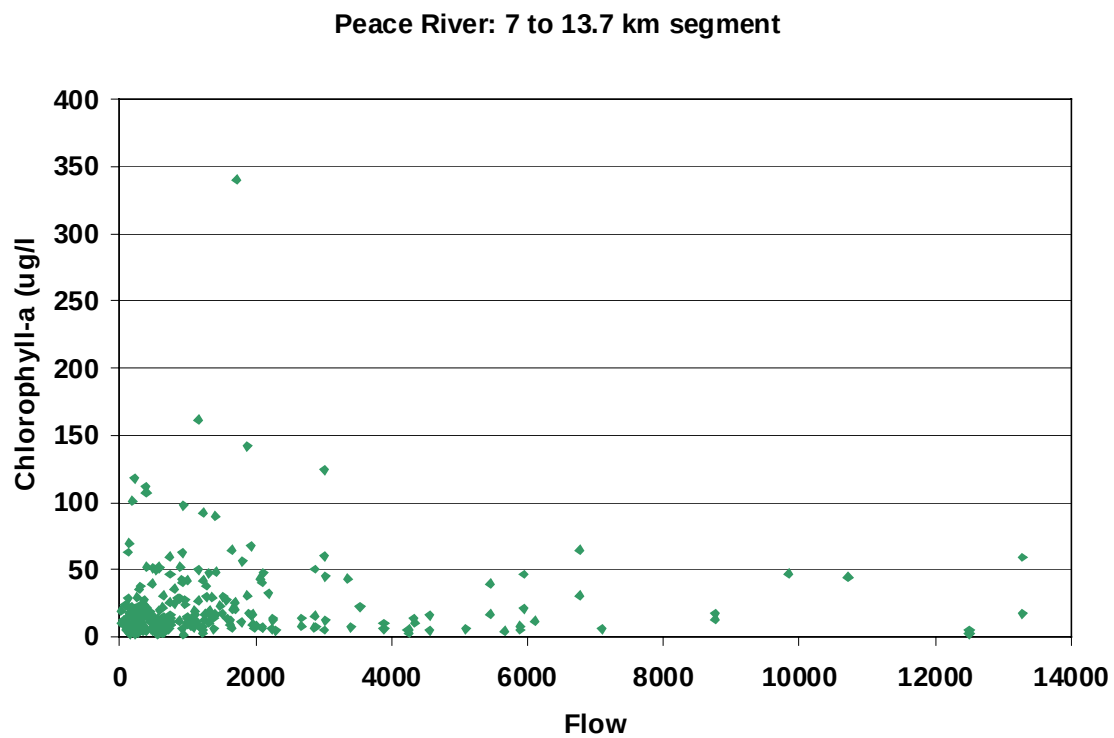
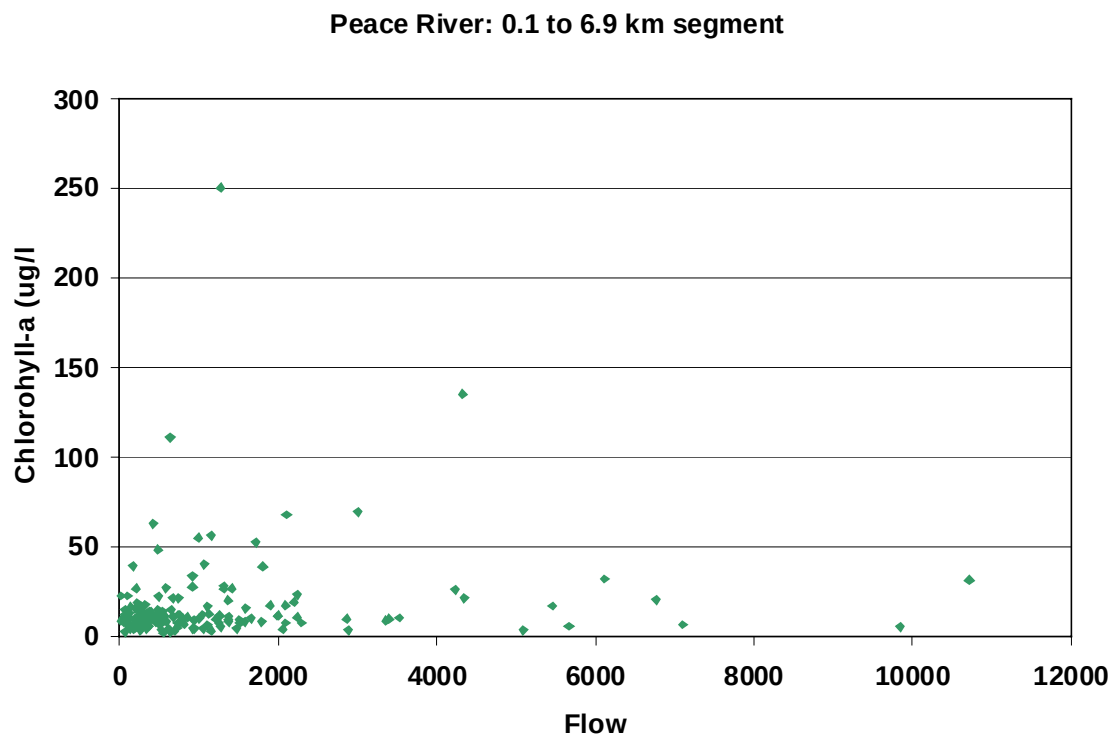


Little Manatee River: Km 4 to 10

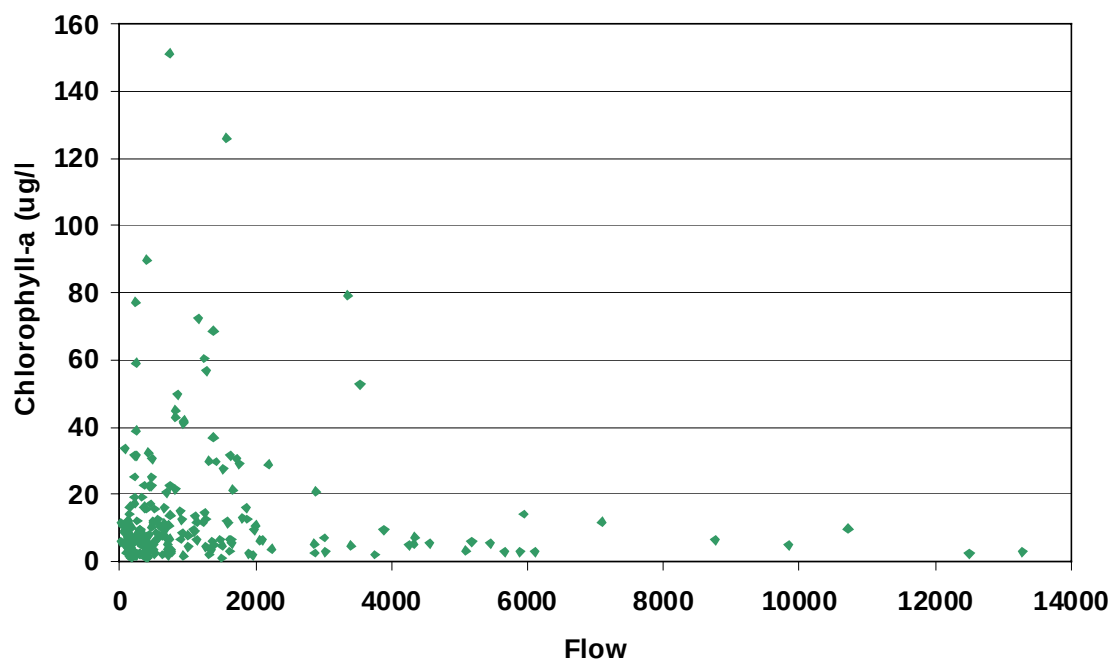


Little Manatee River: km 10 to 17

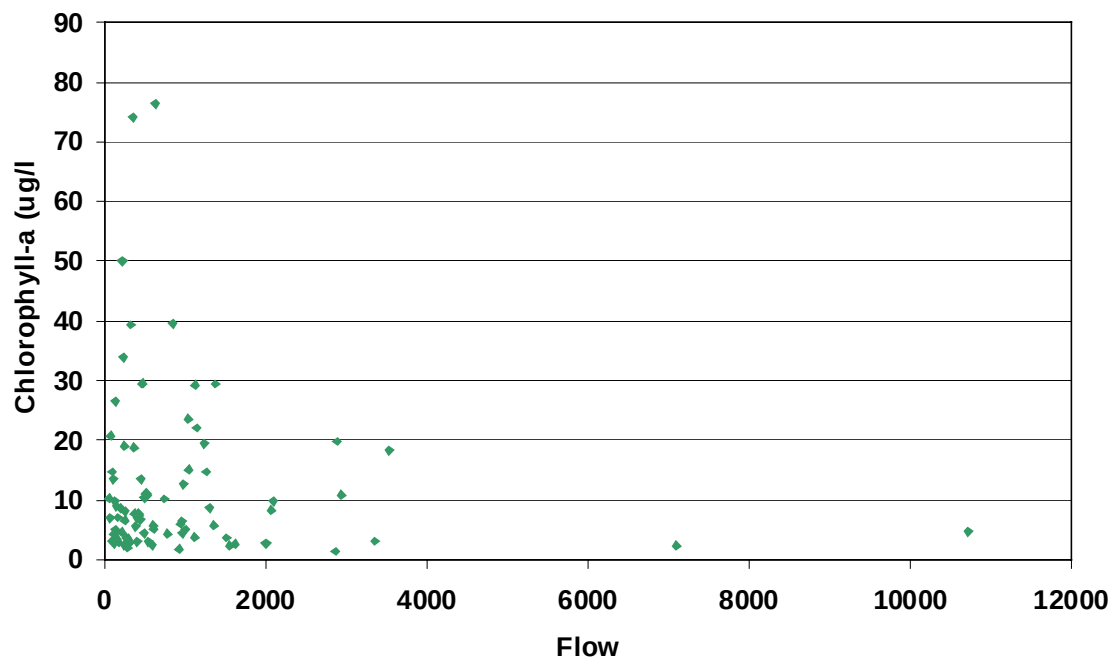


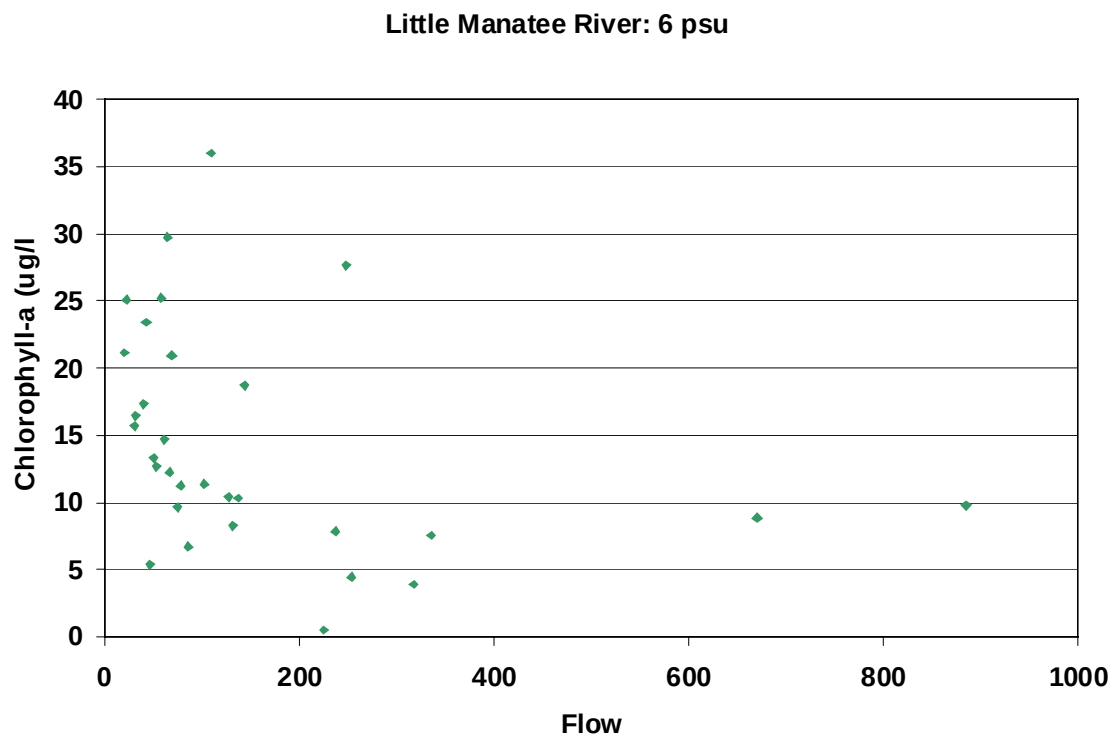
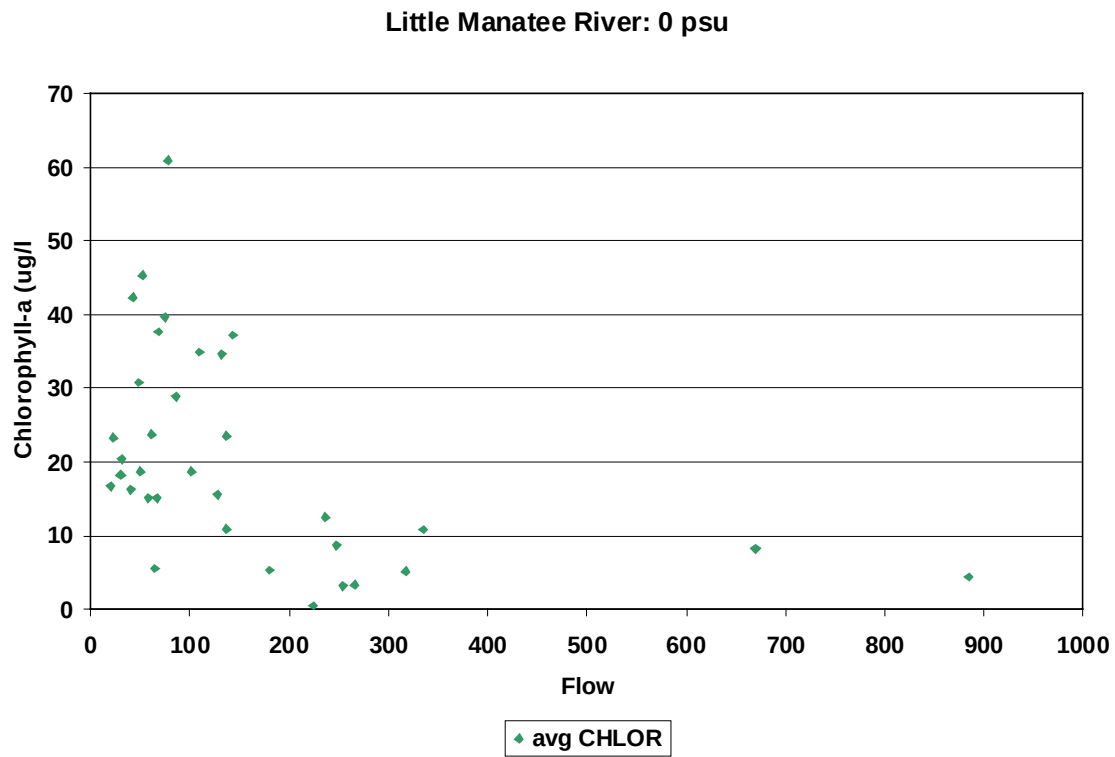


Peace River: 14 to 23.9 km segment

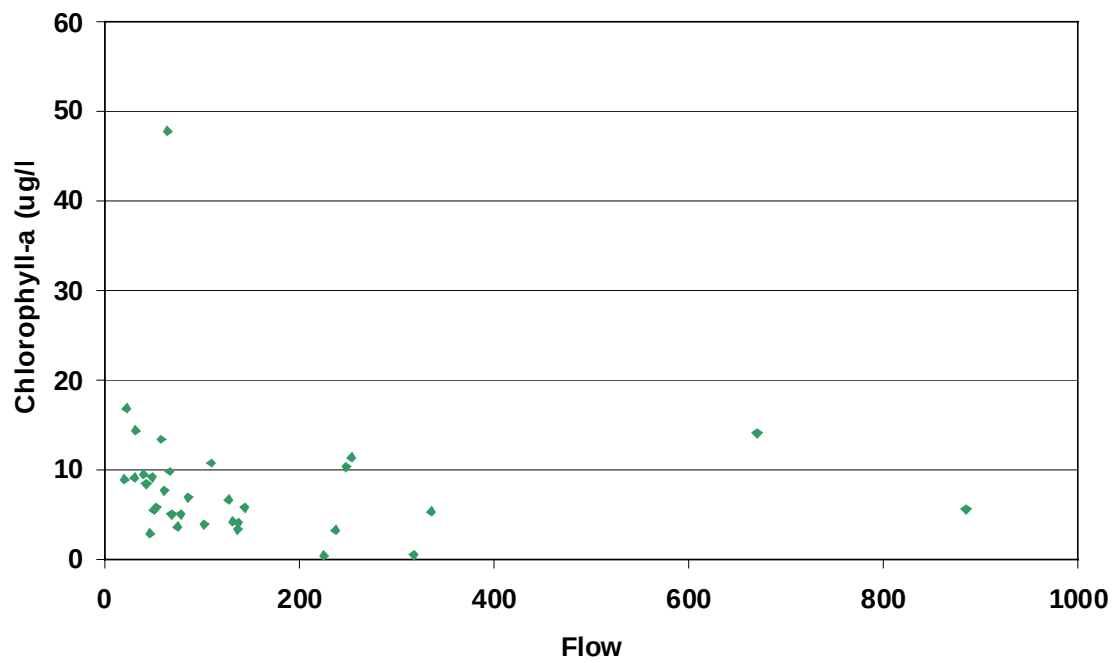


Peace River: 24 to 37.6 km segment

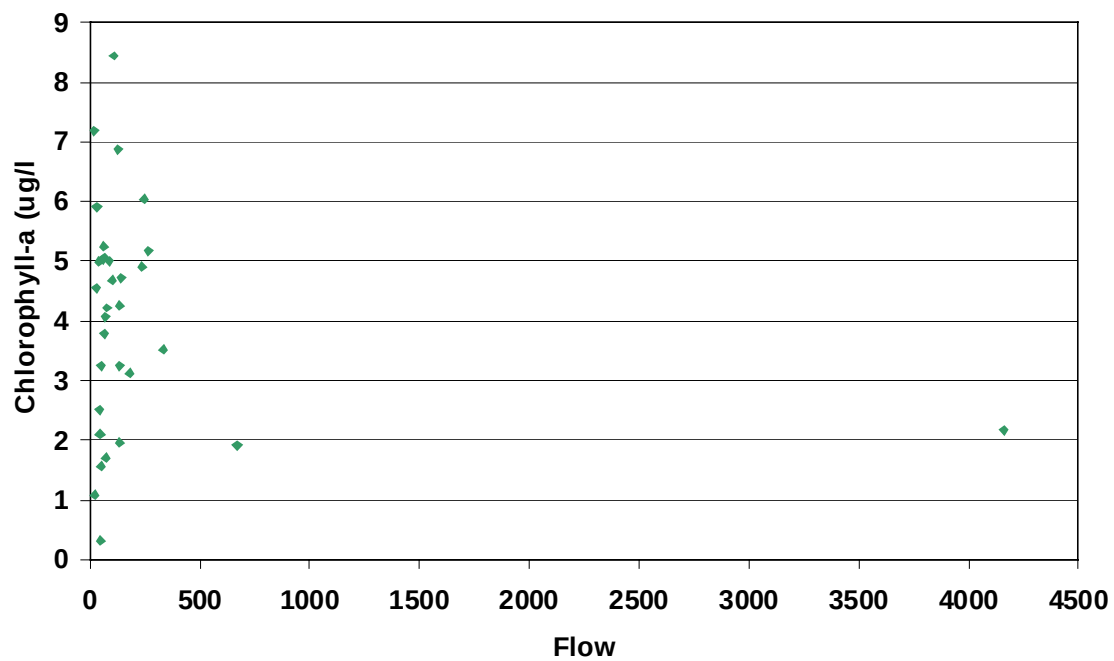


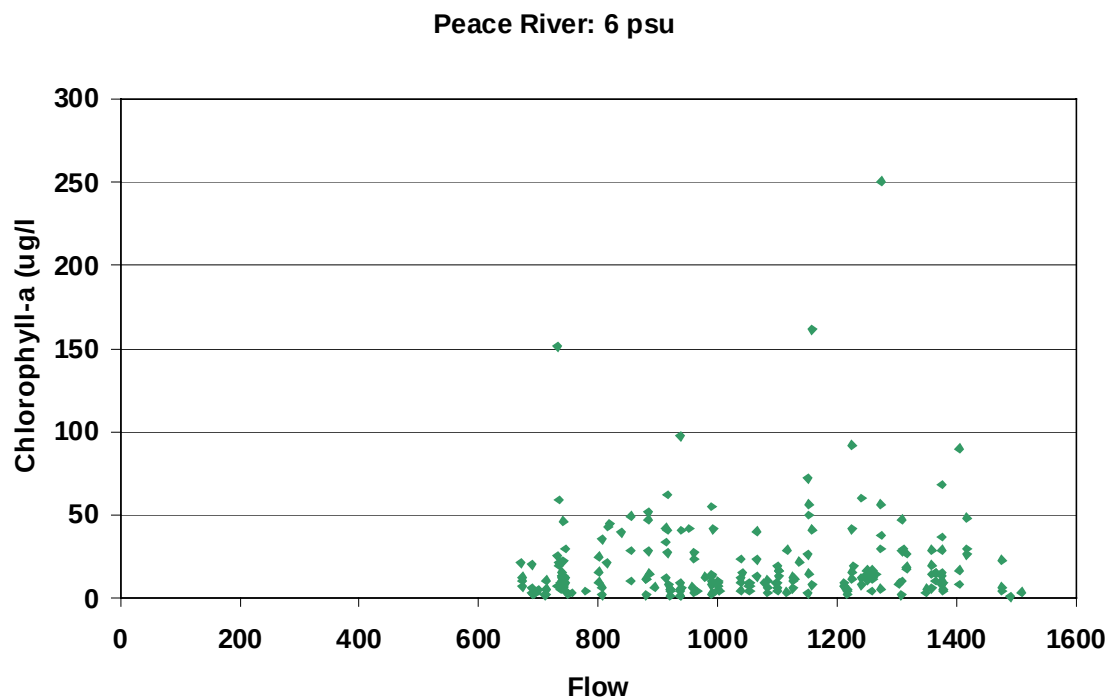
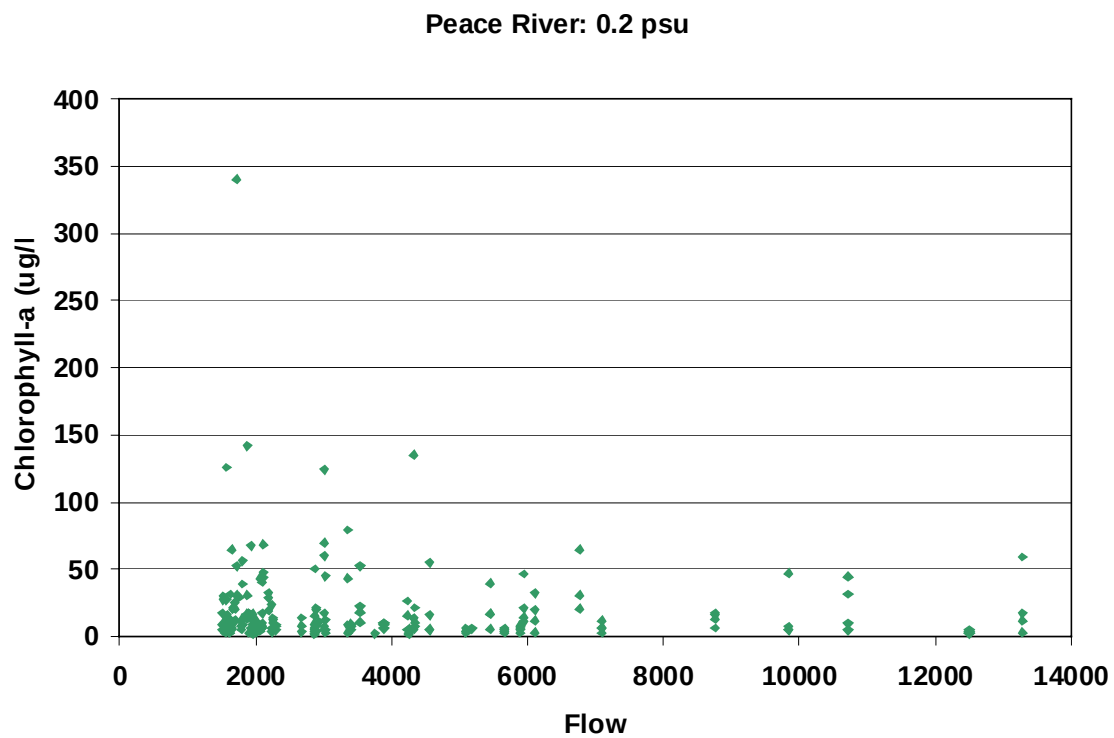


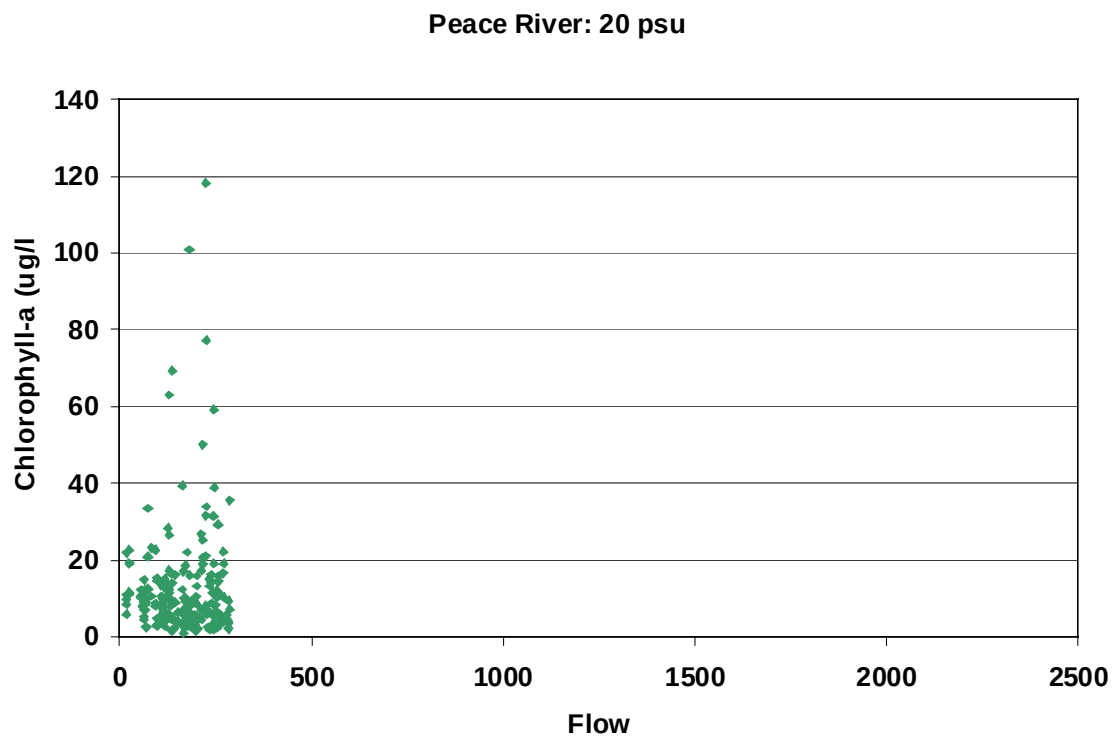
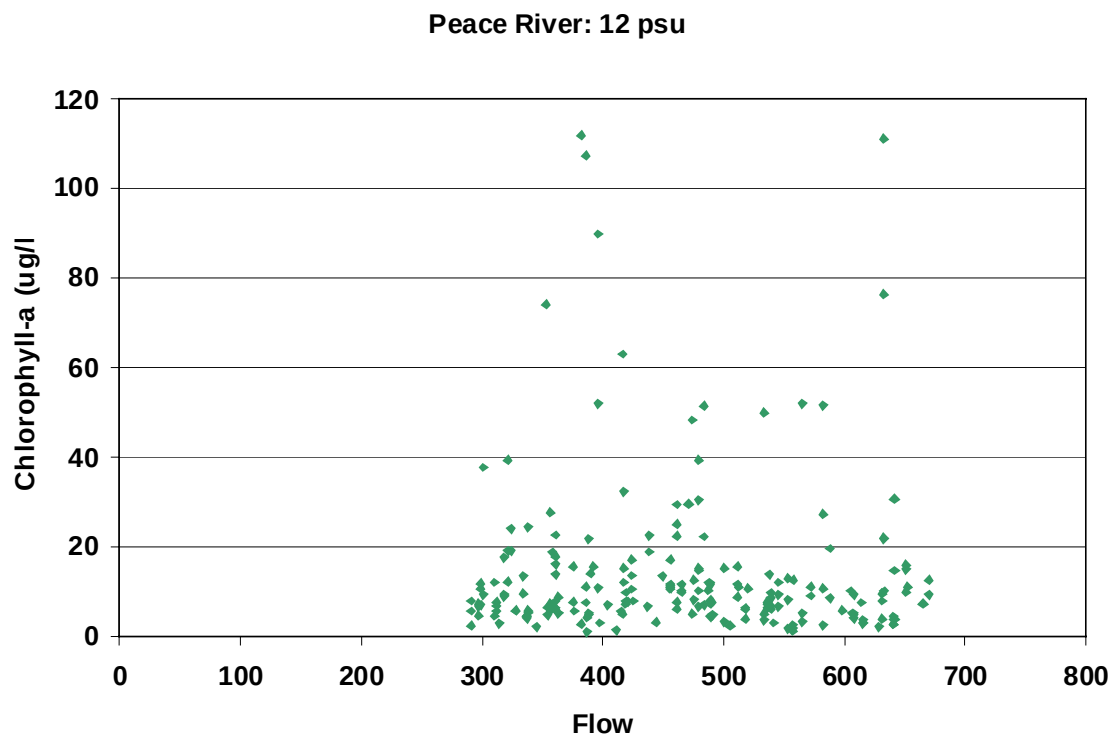
Little Manatee River: 12 psu



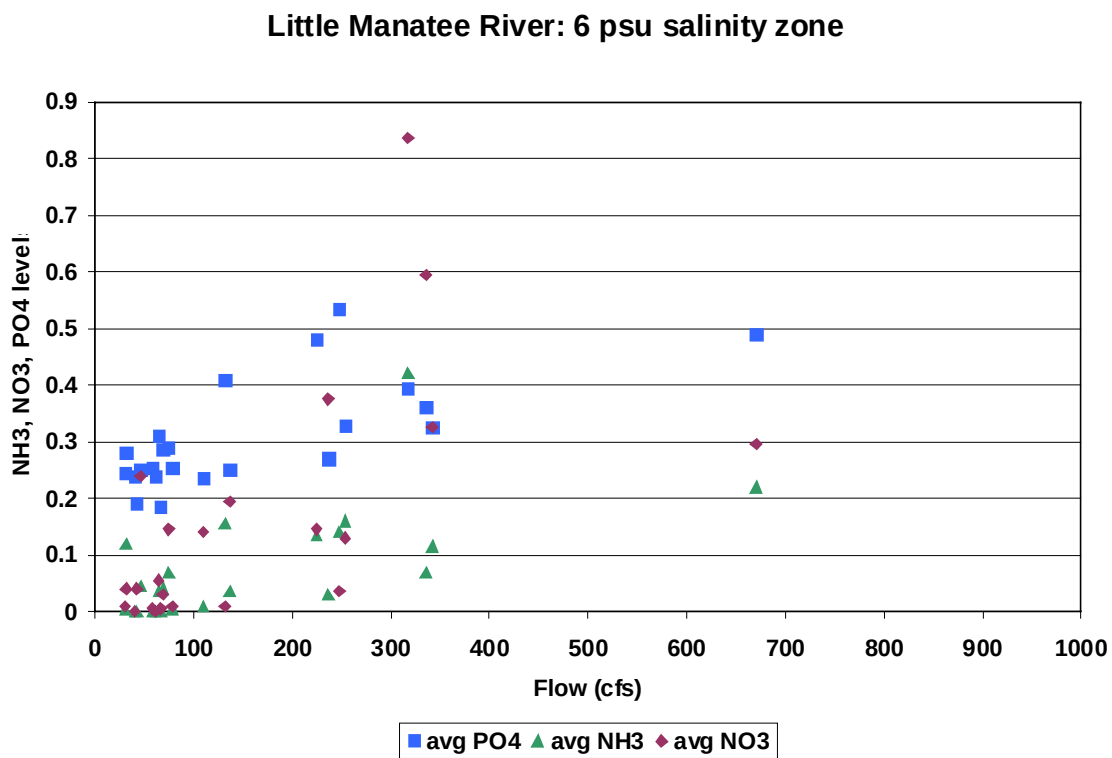
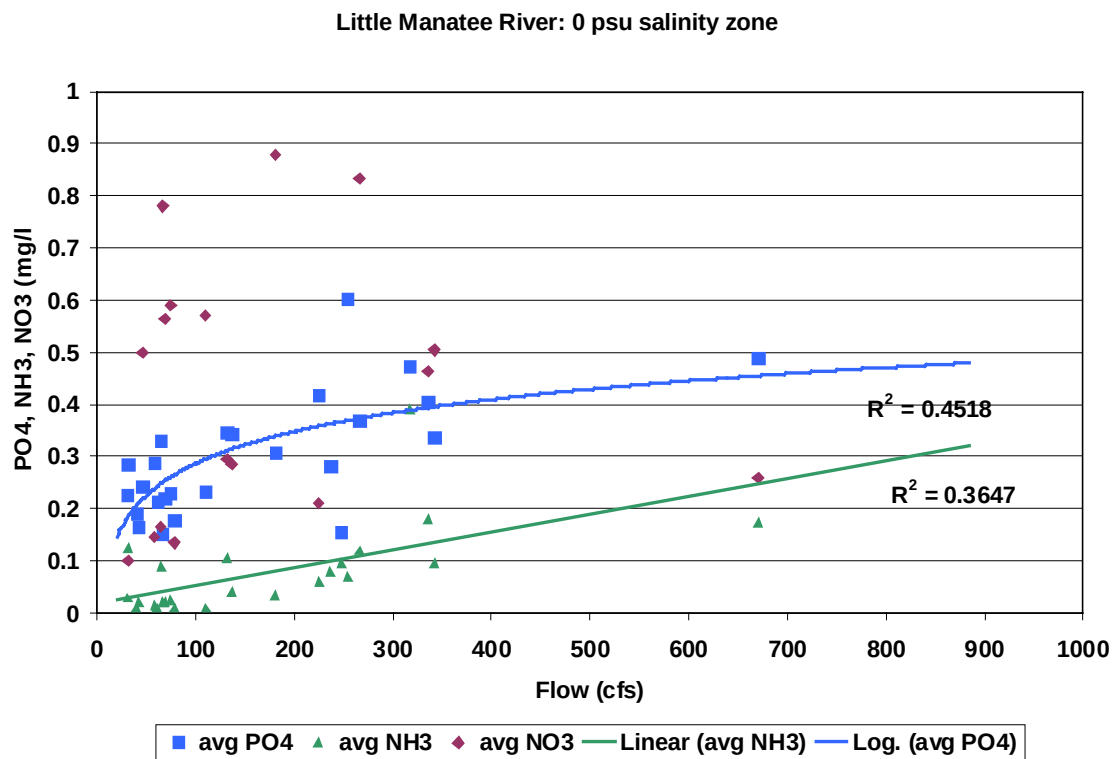
Little Manatee River: 18 psu



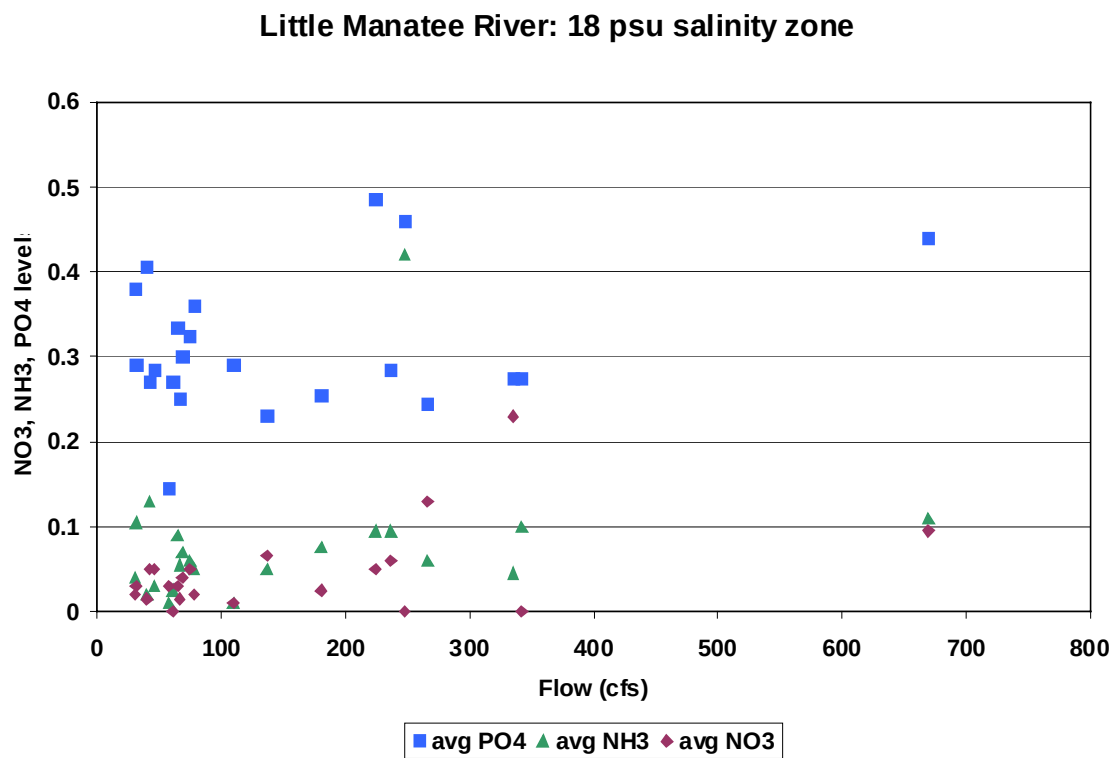
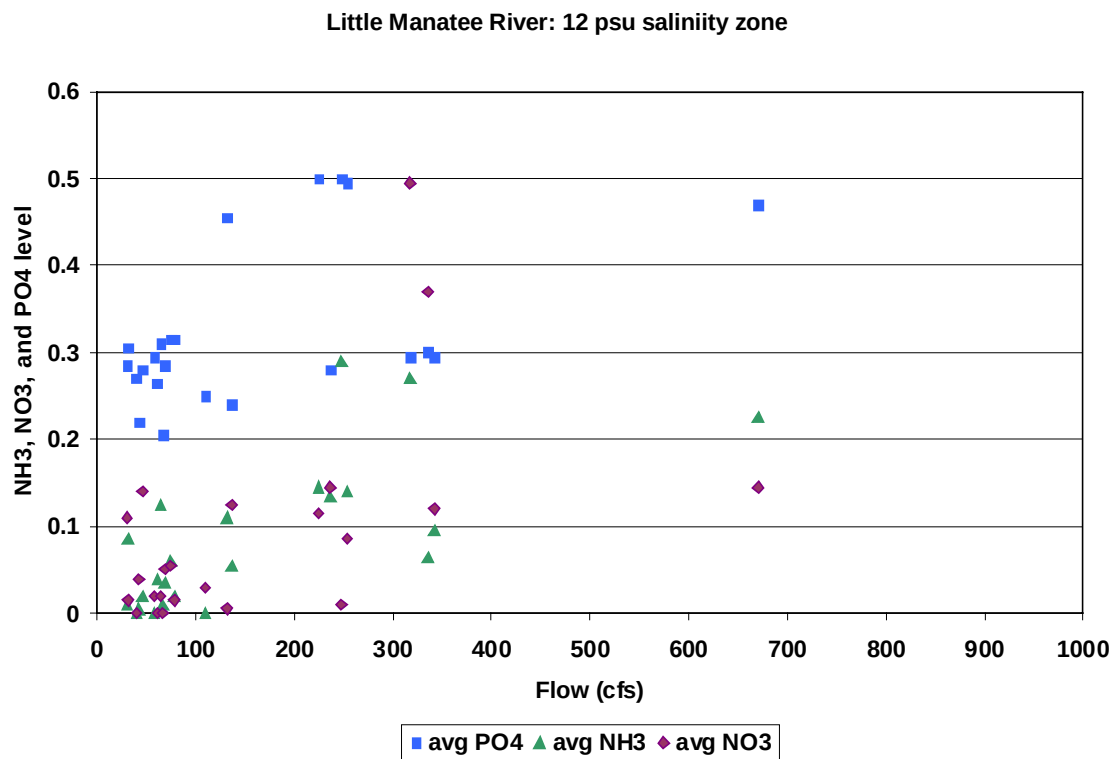




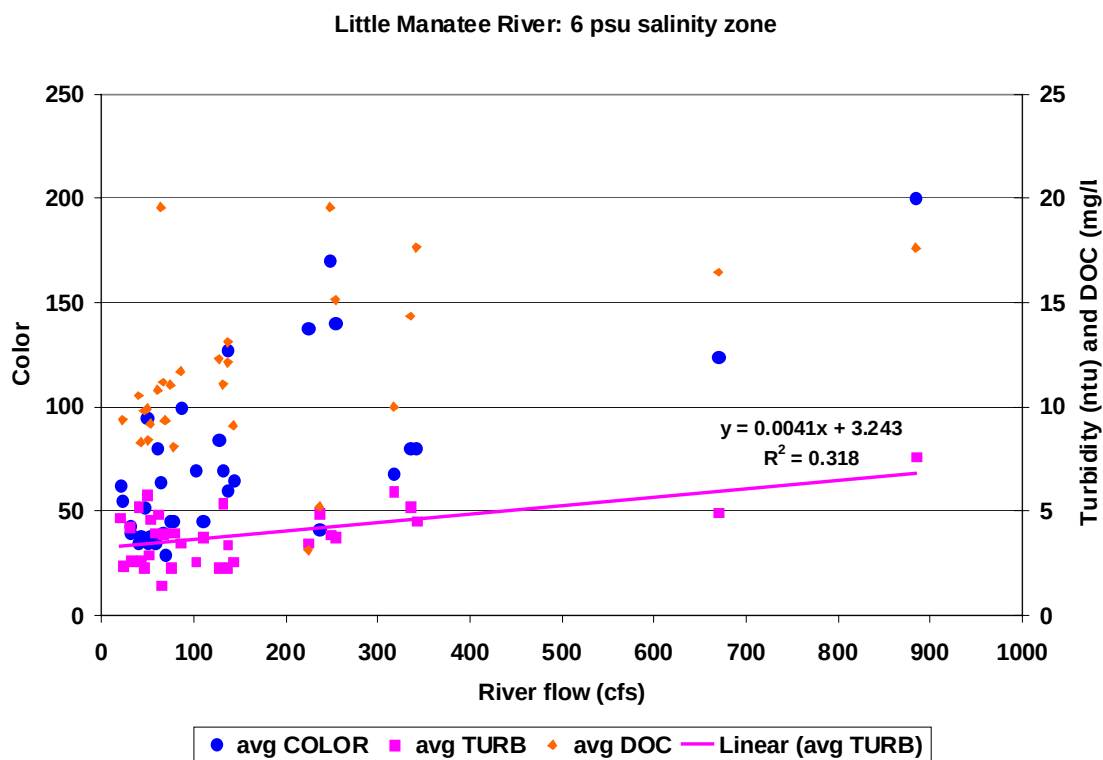
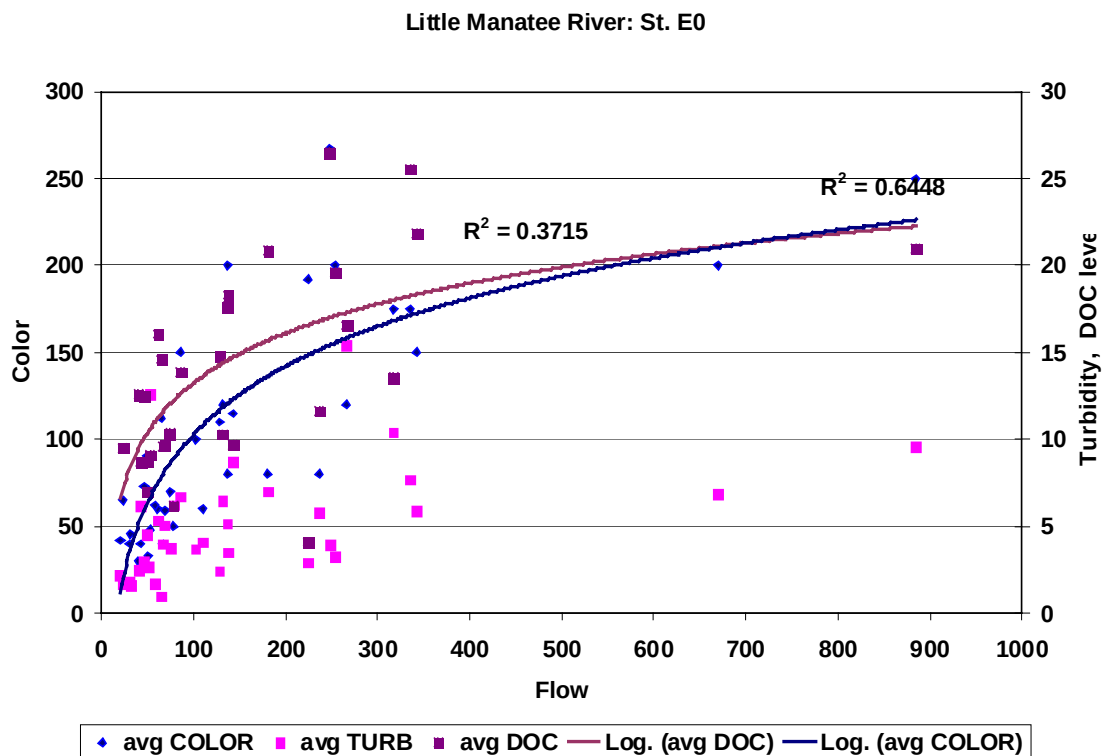
Appendix13: Little Manatee River nutrients and water quality variables with river flow



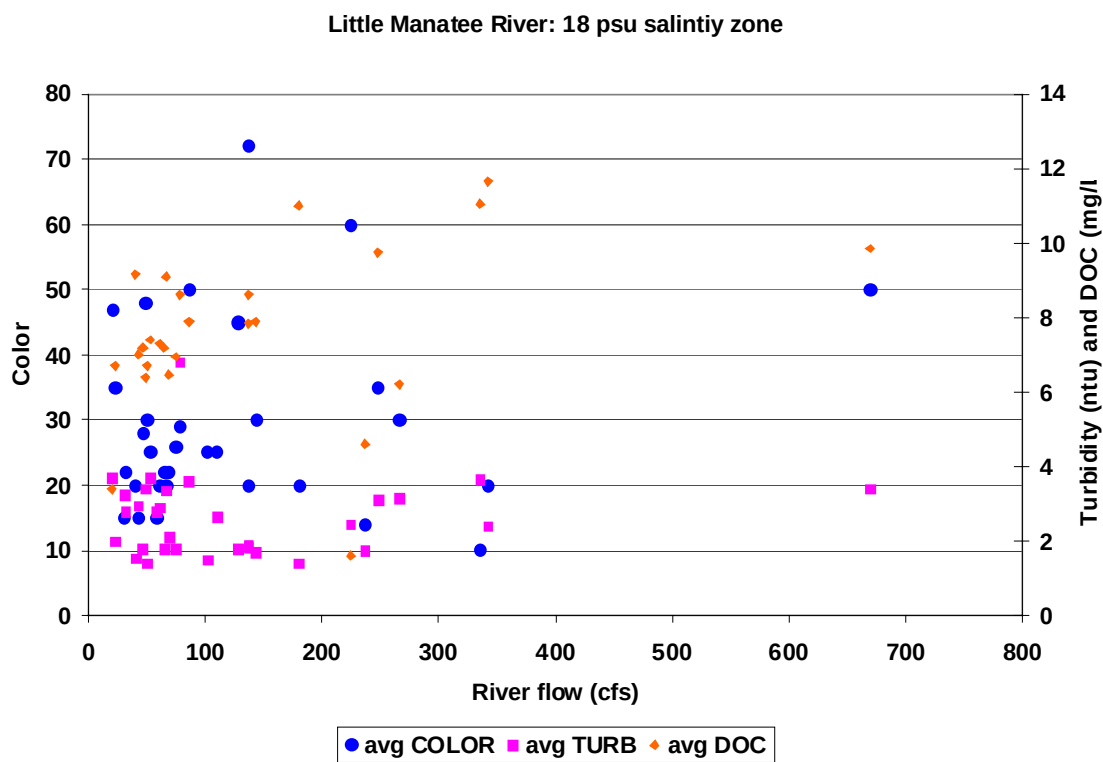
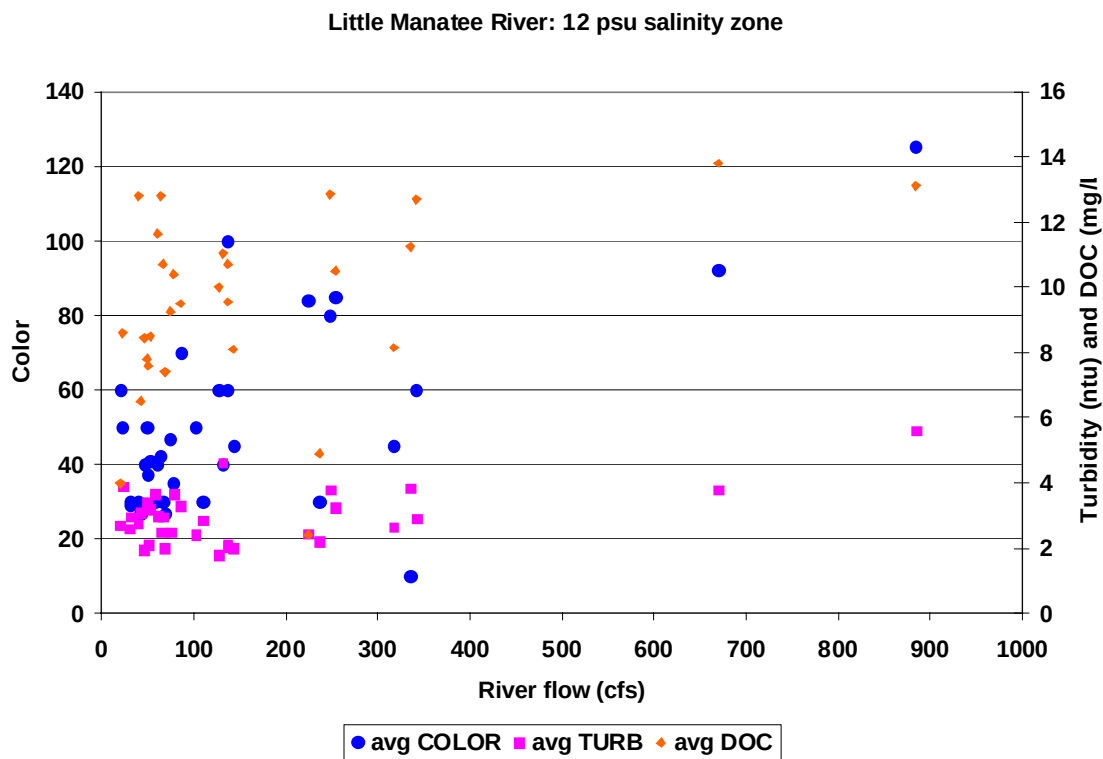
Appendix13: Little Manatee River nutrients and water quality variables with river flow



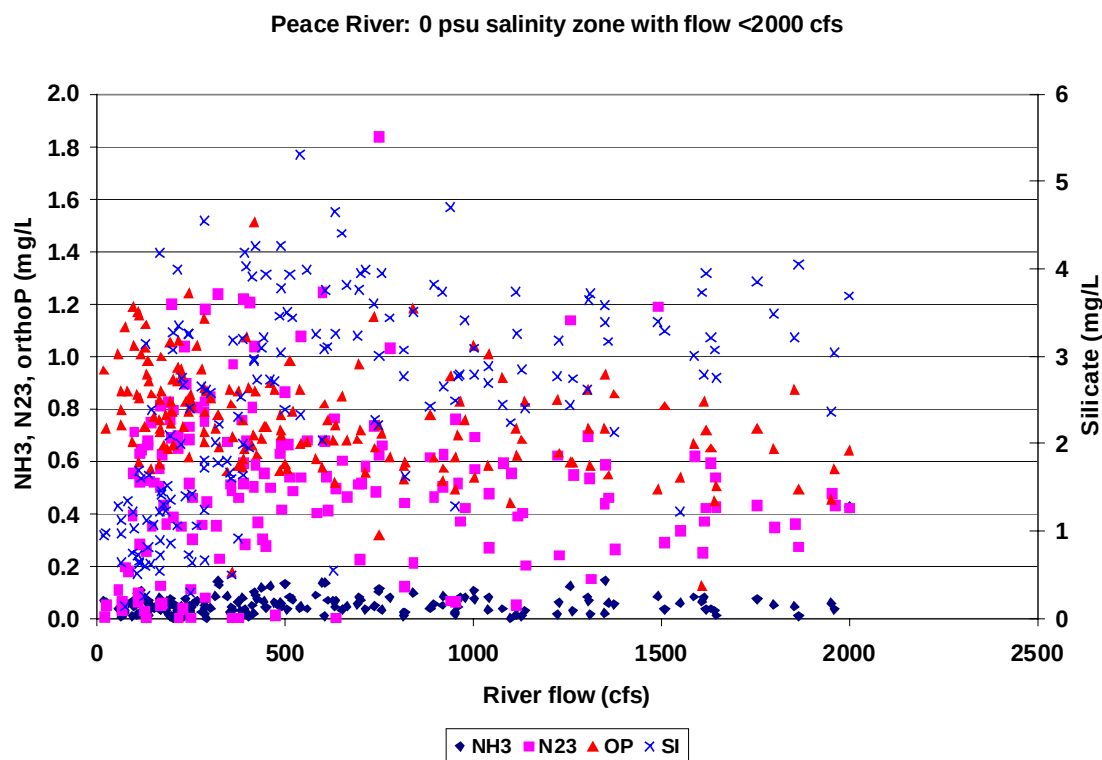
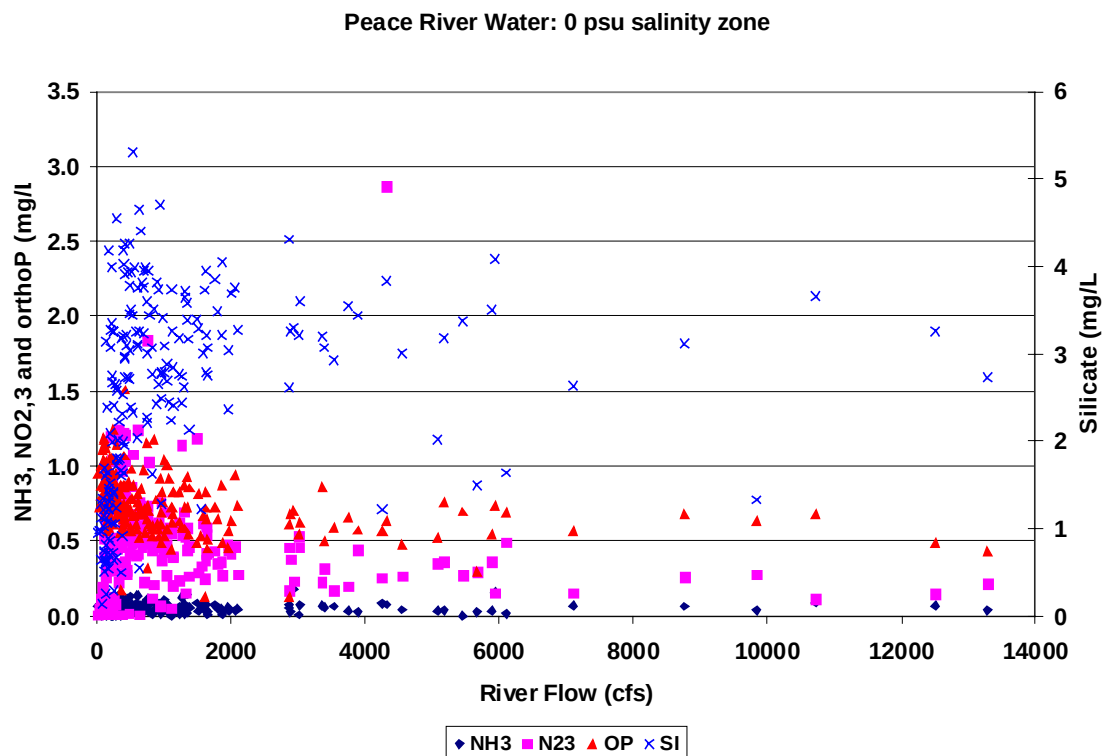
Appendix13: Little Manatee River nutrients and water quality variables with river flow



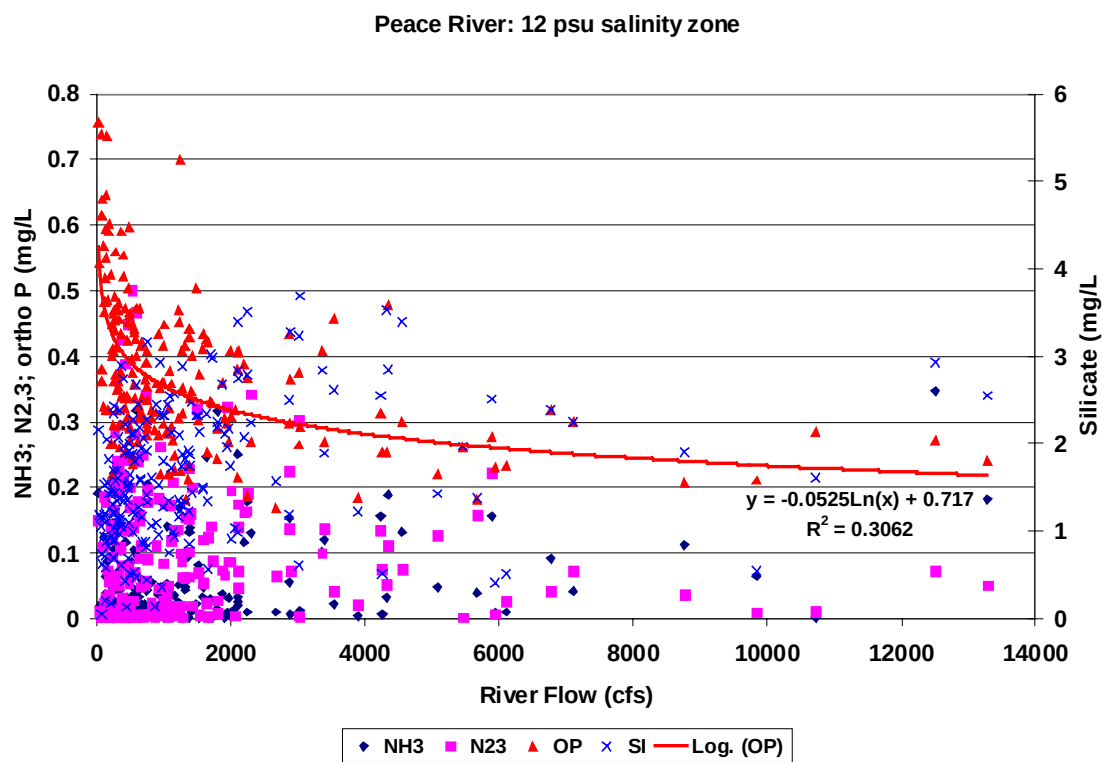
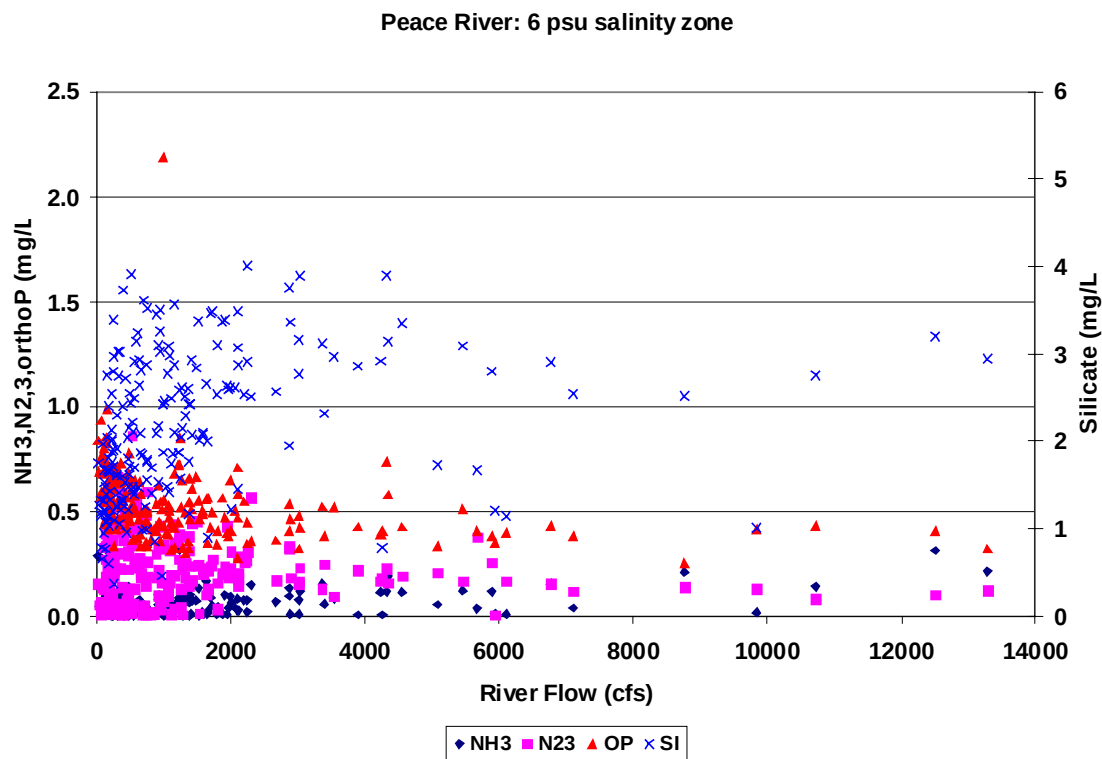
Appendix13: Little Manatee River nutrients and water quality variables with river flow



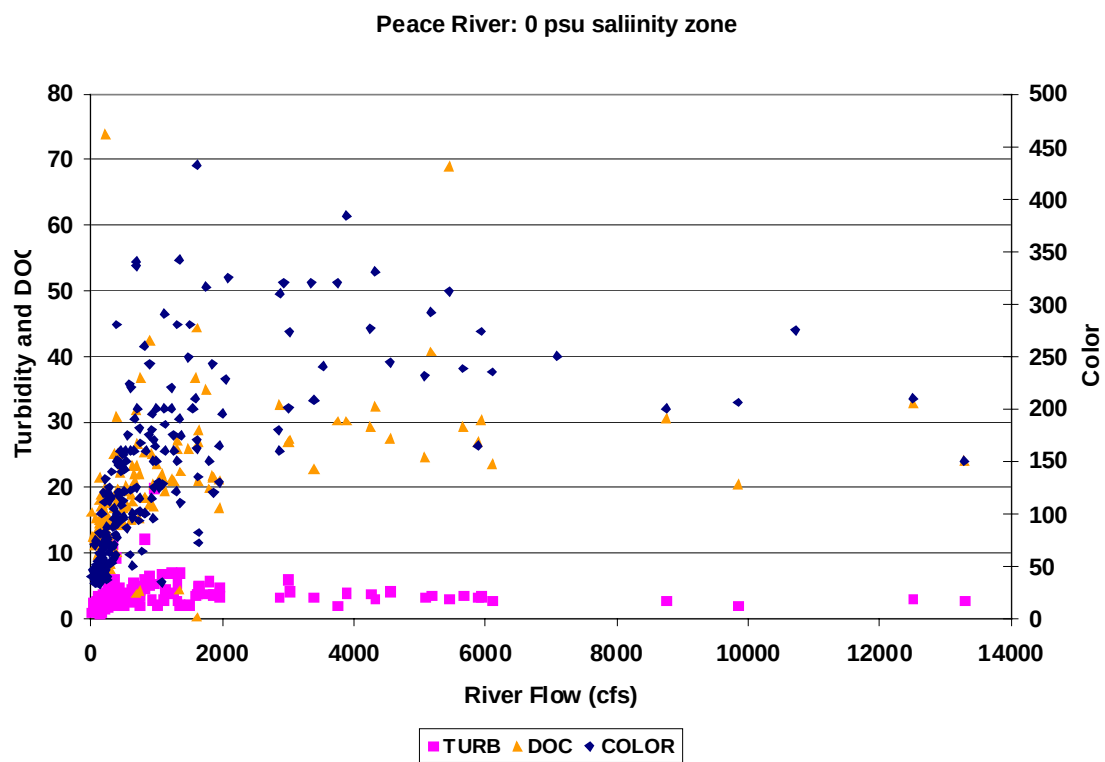
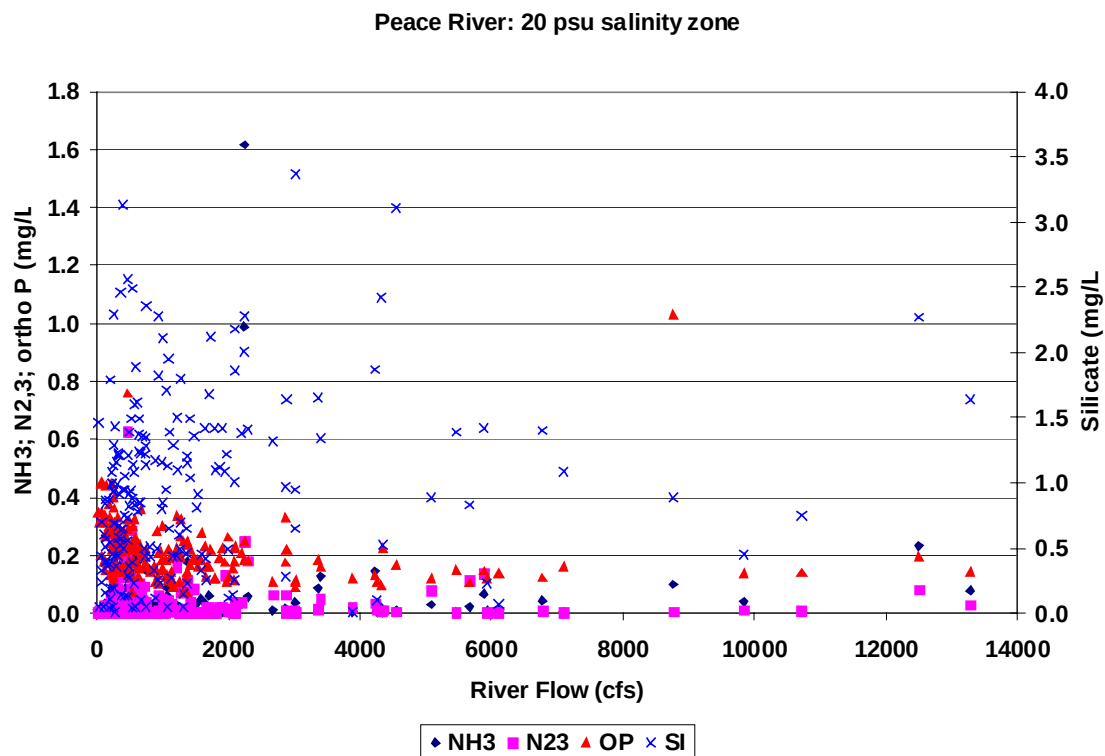
Appendix 14: Peace River nutrients and water quality parameters with river flow



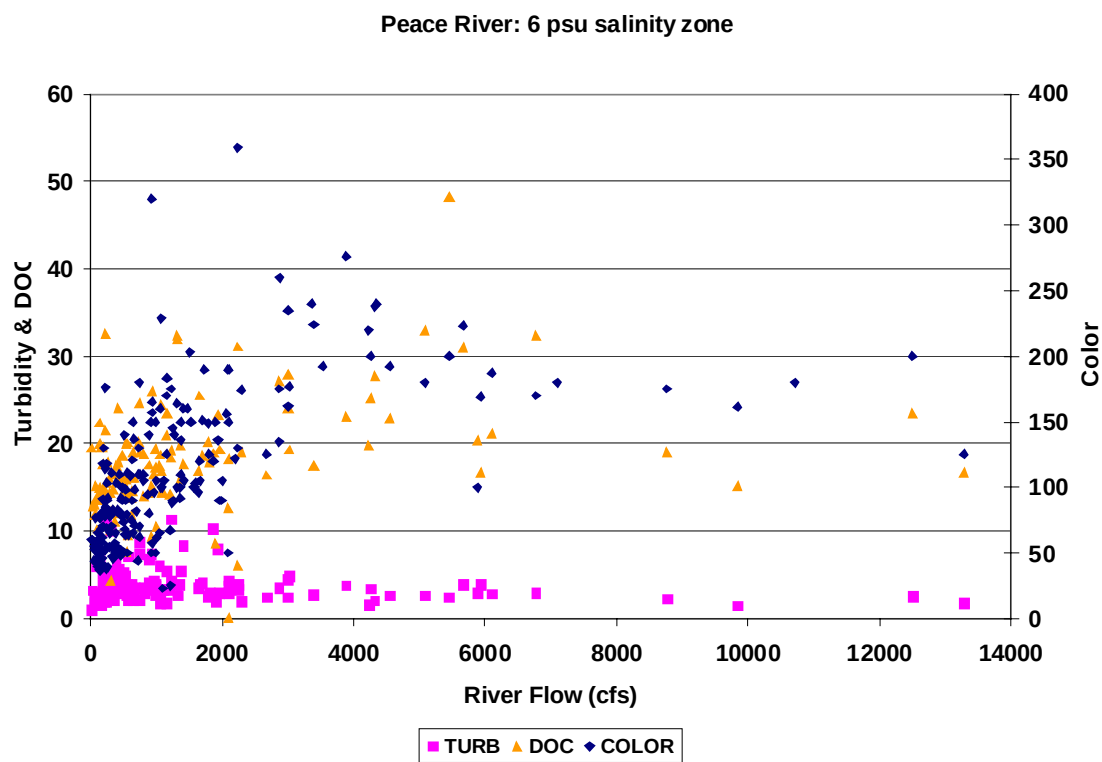
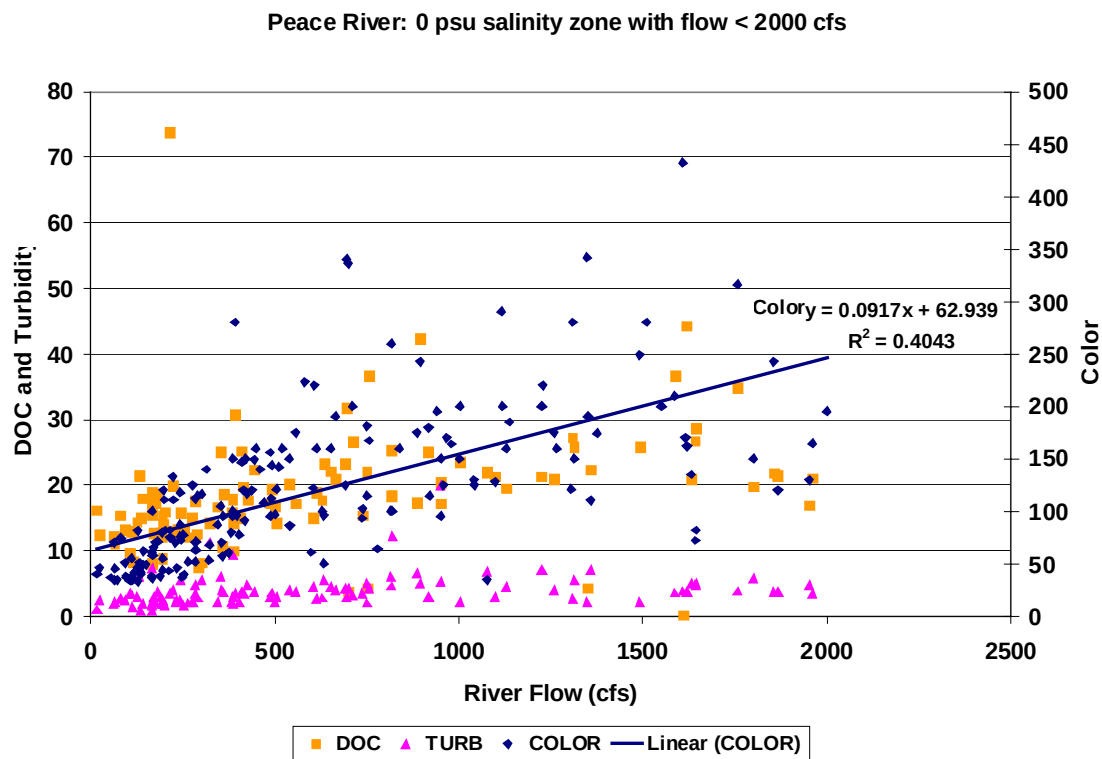
Appendix 14: Peace River nutrients and water quality parameters with river flow



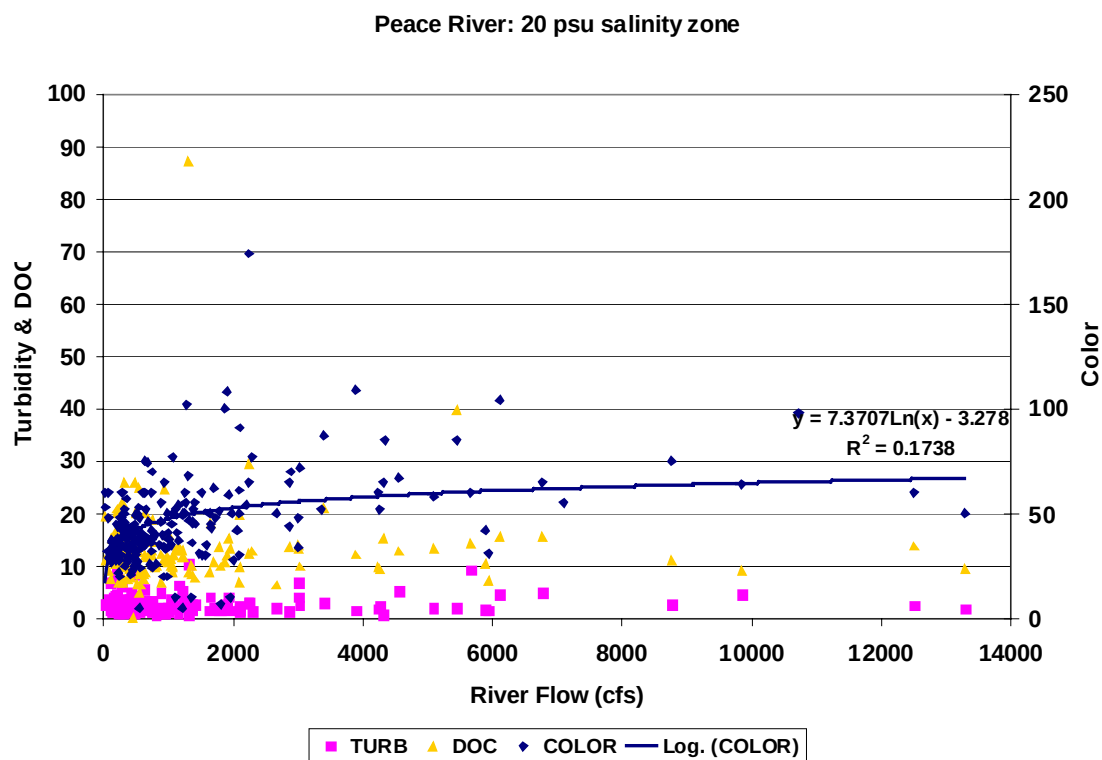
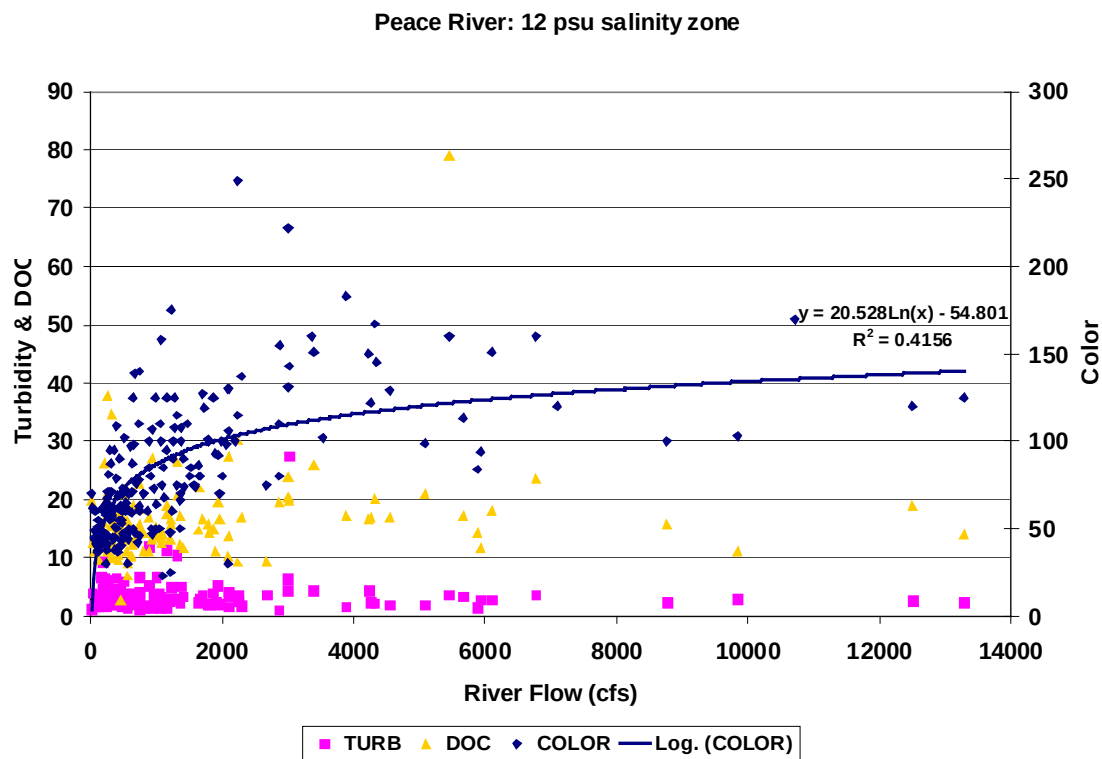
Appendix 14: Peace River nutrients and water quality parameters with river flow



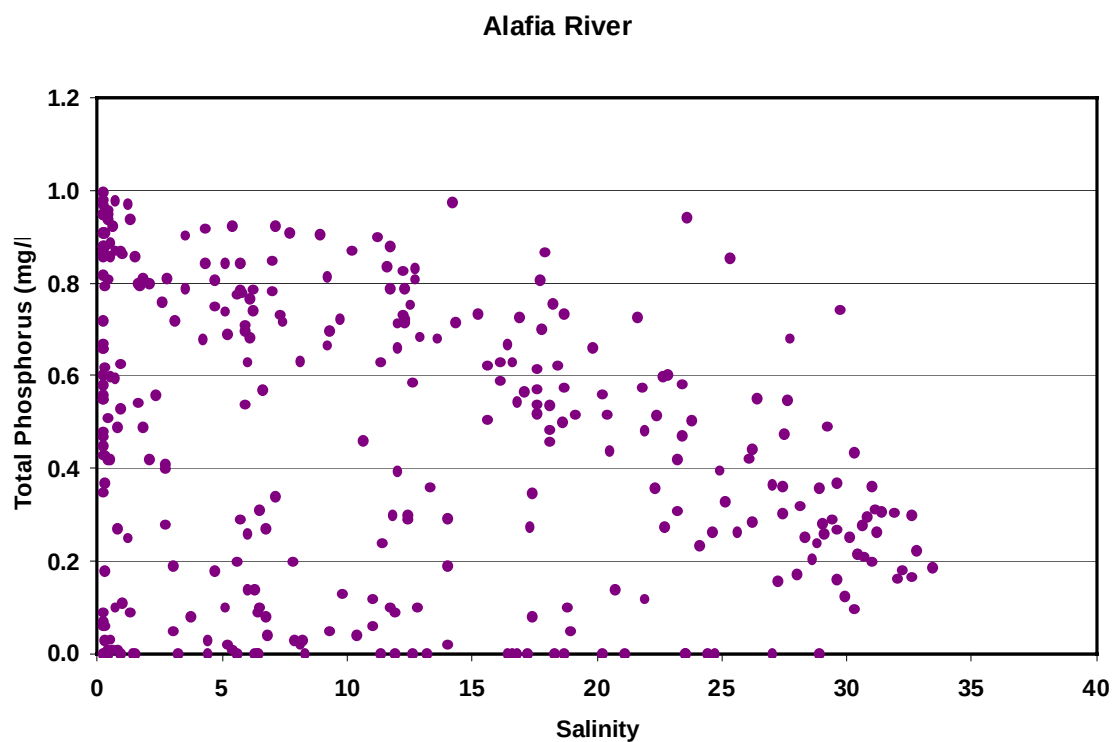
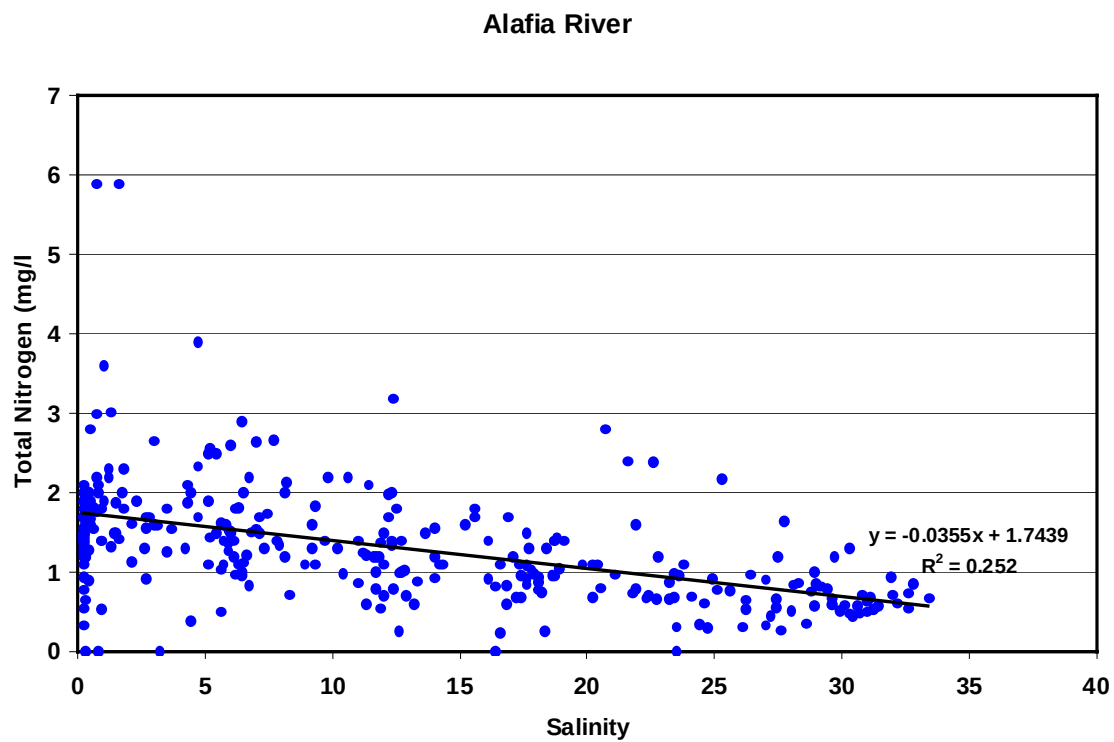
Appendix 14: Peace River nutrients and water quality parameters with river flow



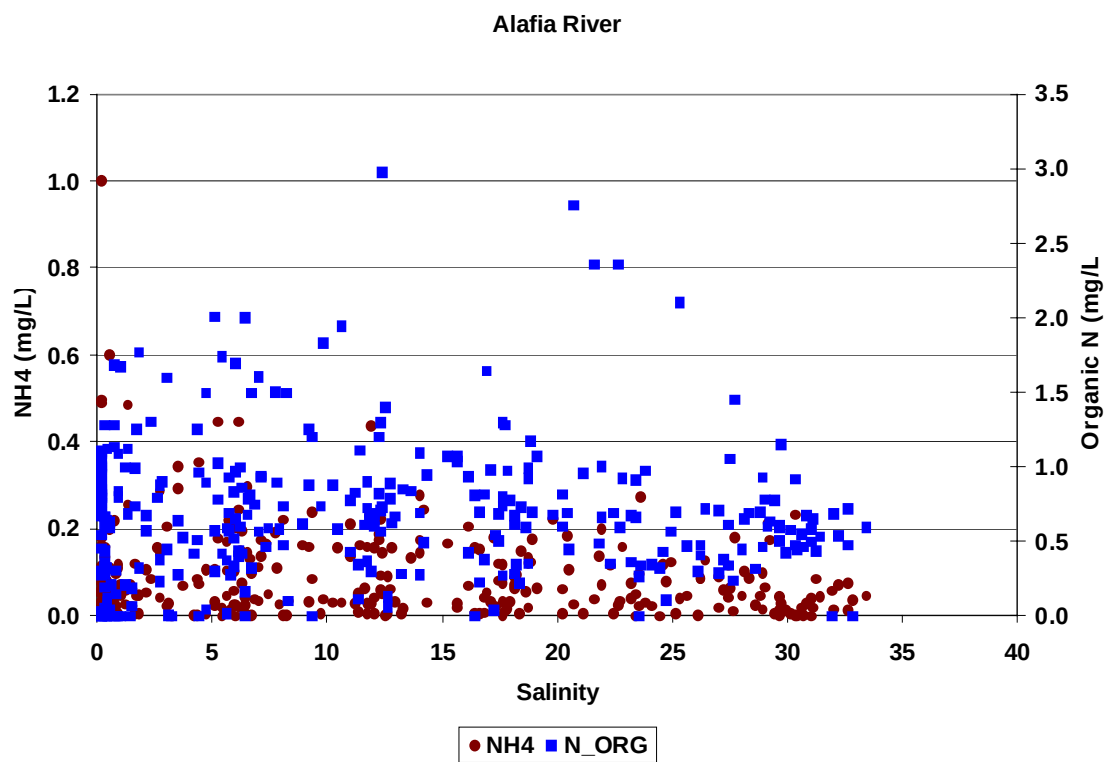
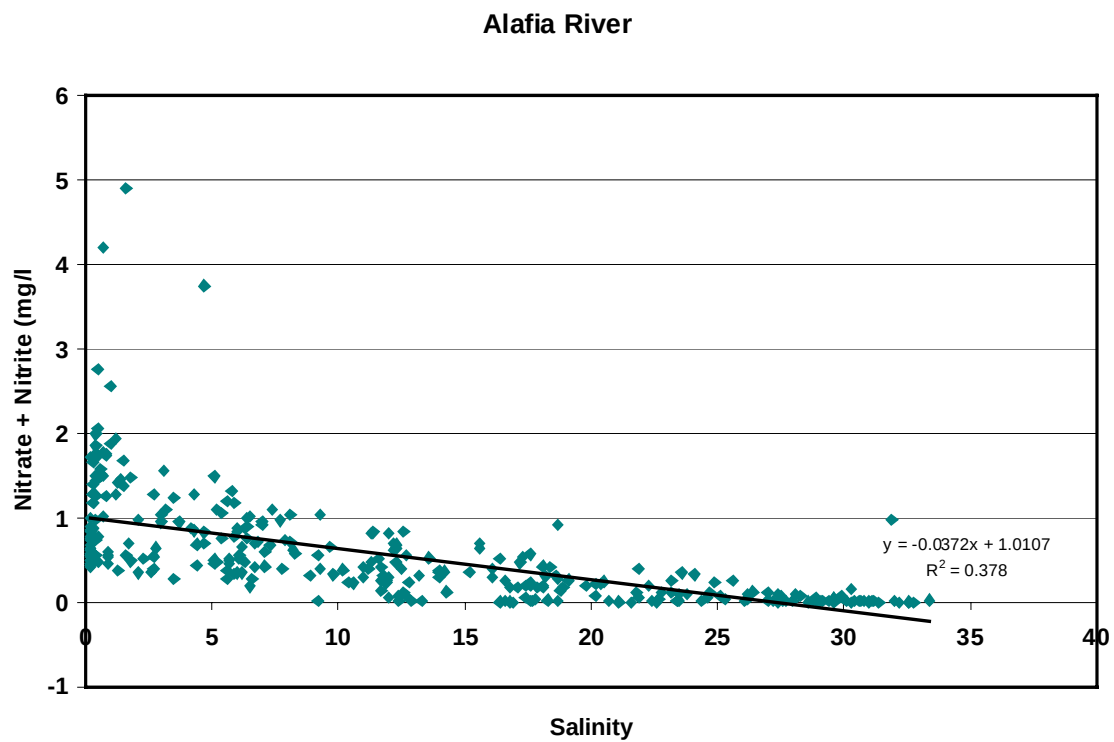
Appendix 14: Peace River nutrients and water quality parameters with river flow



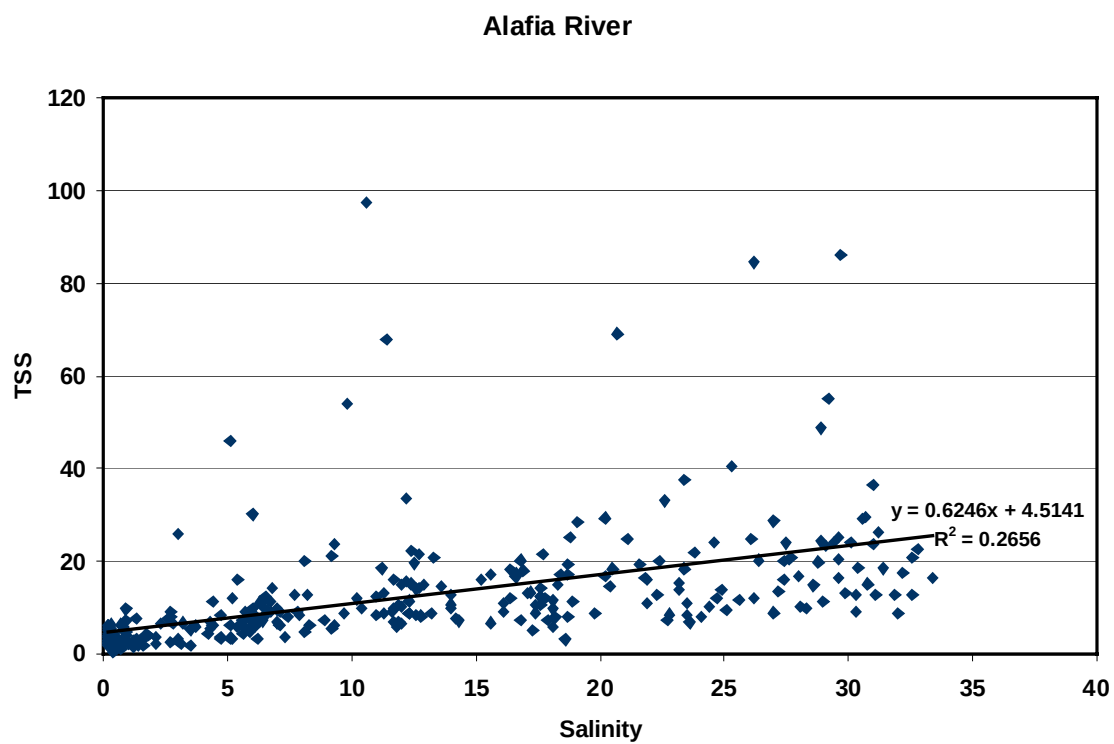
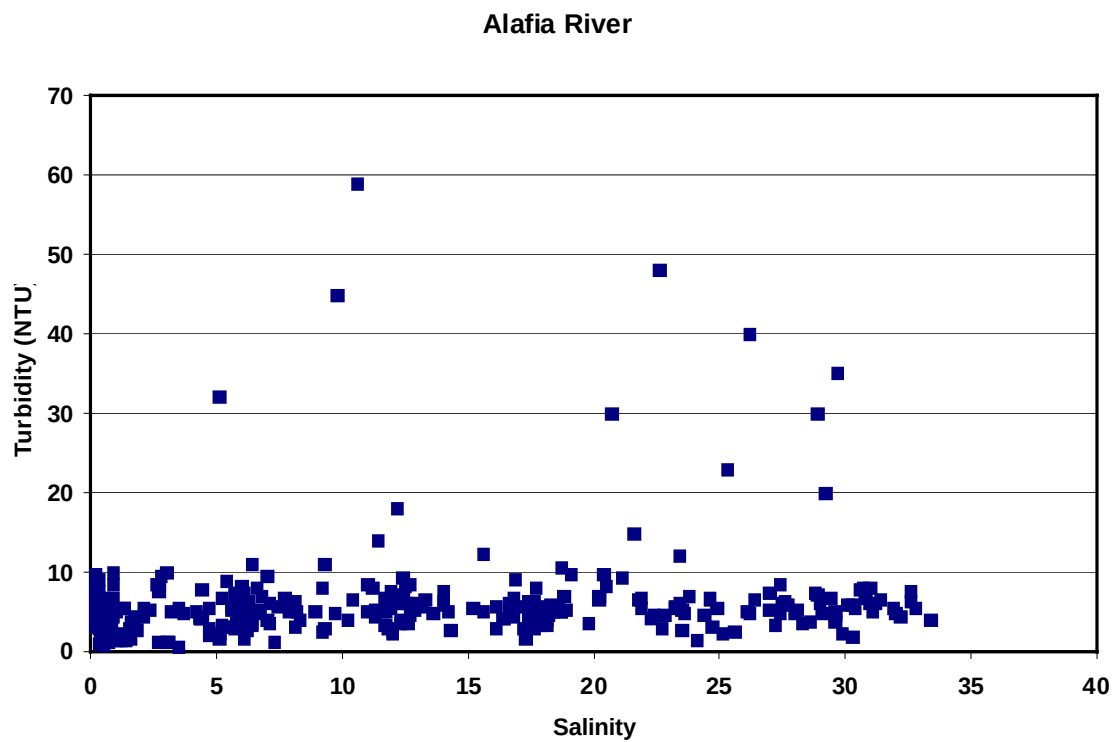
Appendix 15: Alafia River: Nutrients and water quality parameters with salinity



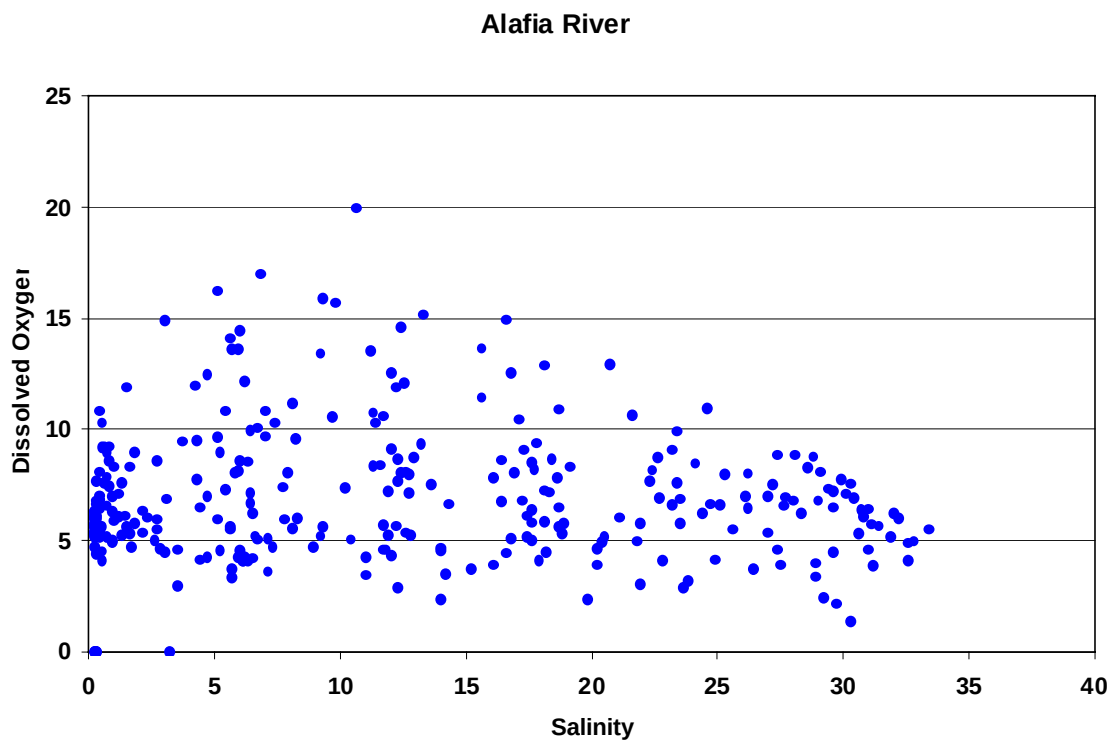
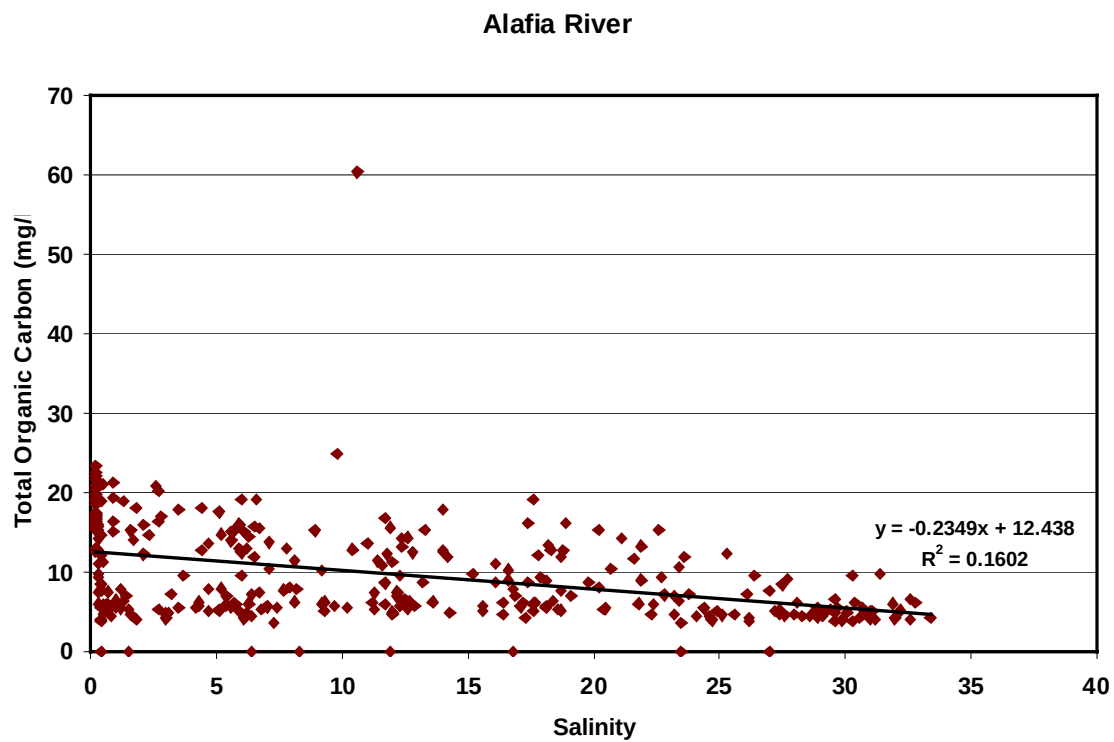
Appendix 15: Alafia River: Nutrients and water quality parameters with salinity



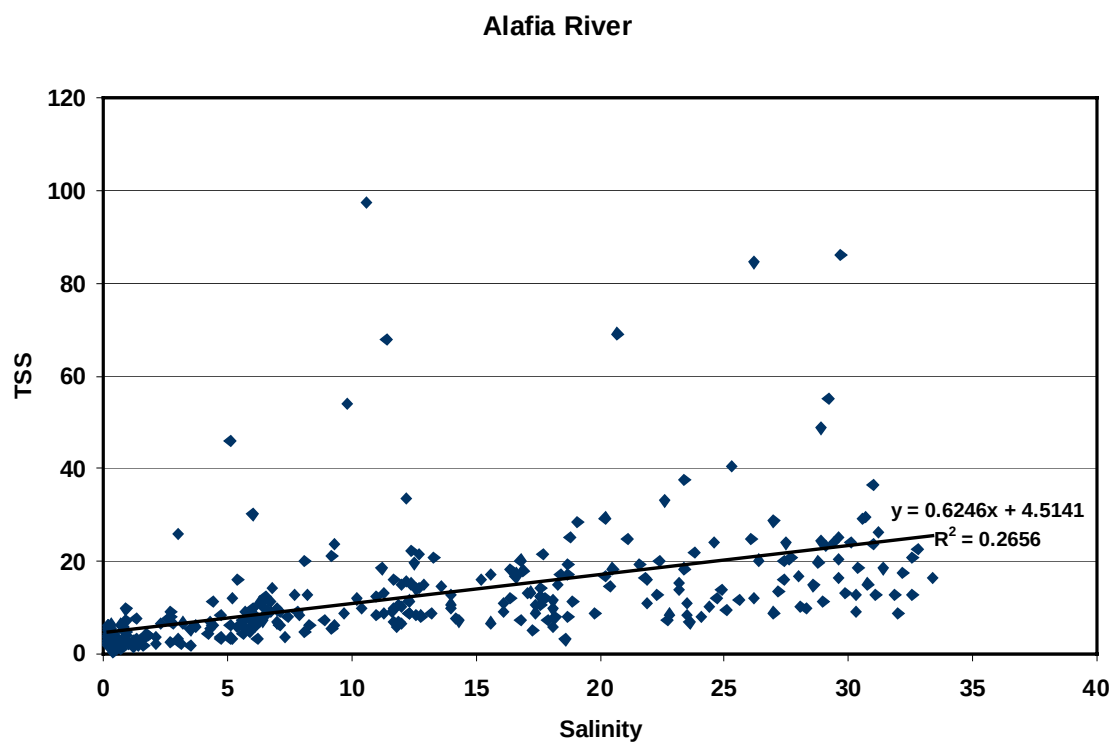
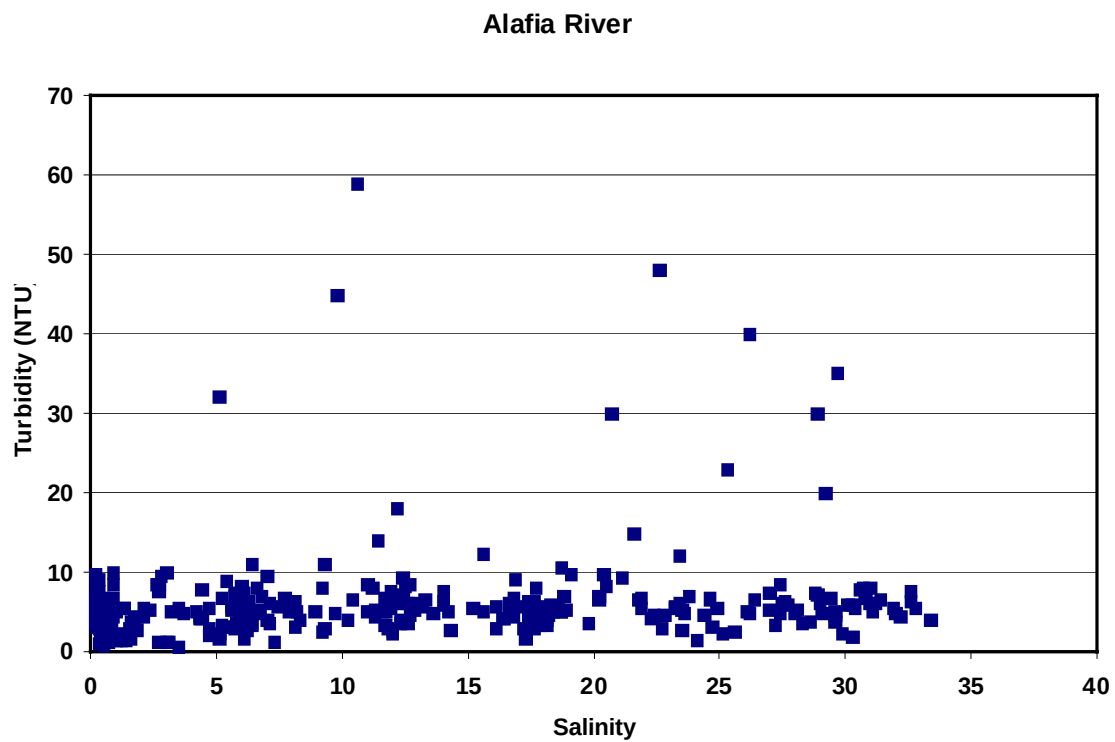
Appendix 15: Alafia River: Nutrients and water quality parameters with salinity

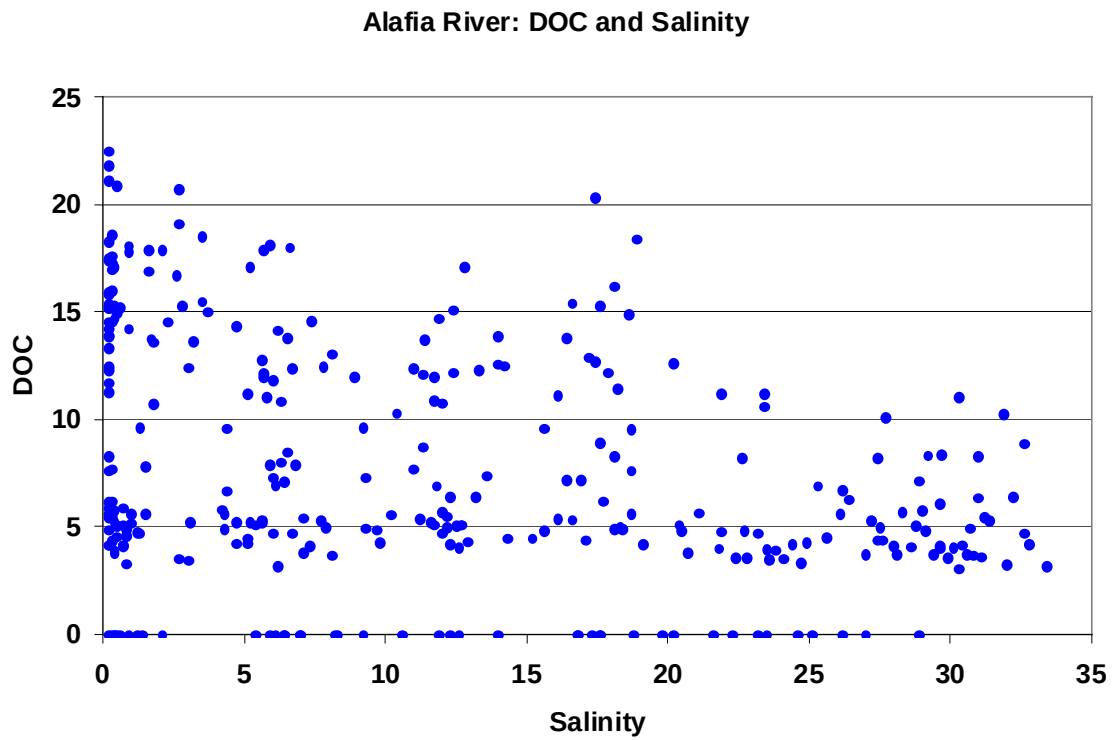


Appendix 15: Alafia River: Nutrients and water quality parameters with salinity

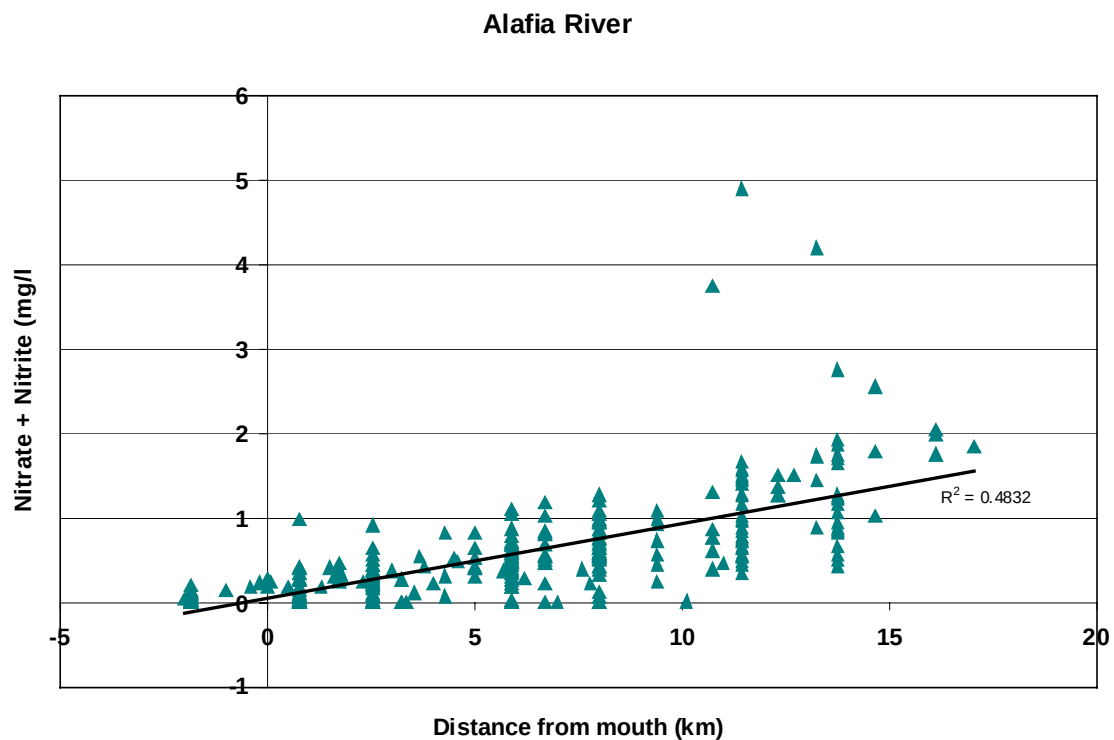
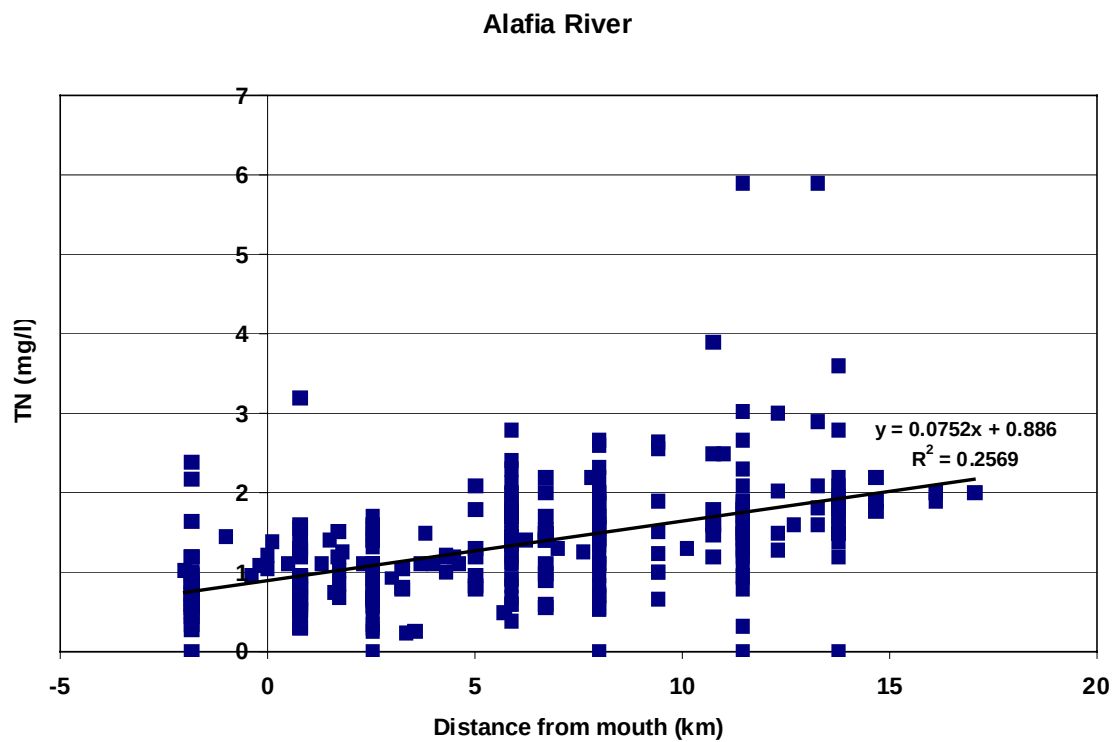


Appendix 15: Alafia River: Nutrients and water quality parameters with salinity

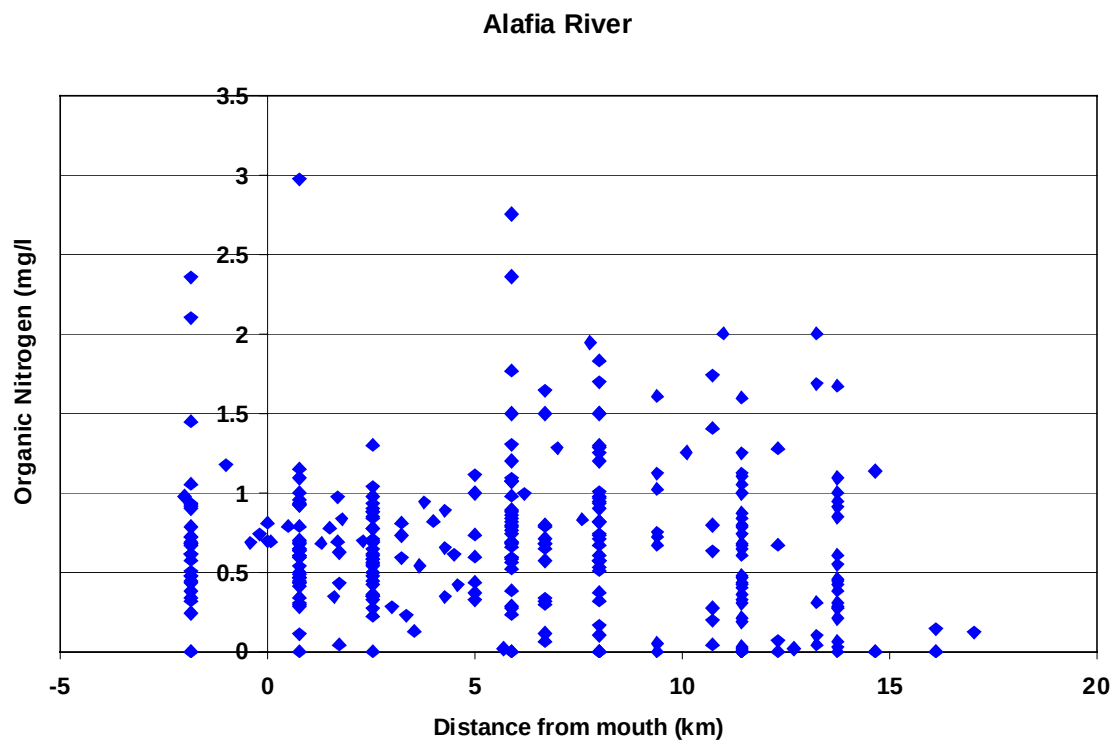
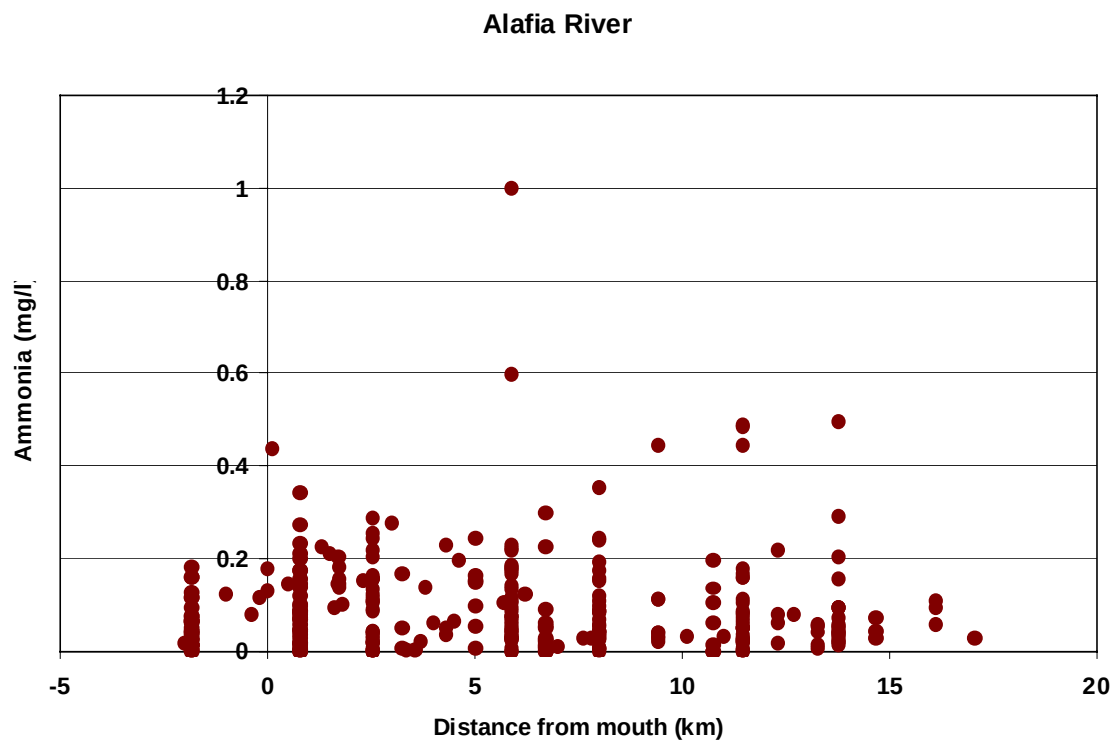




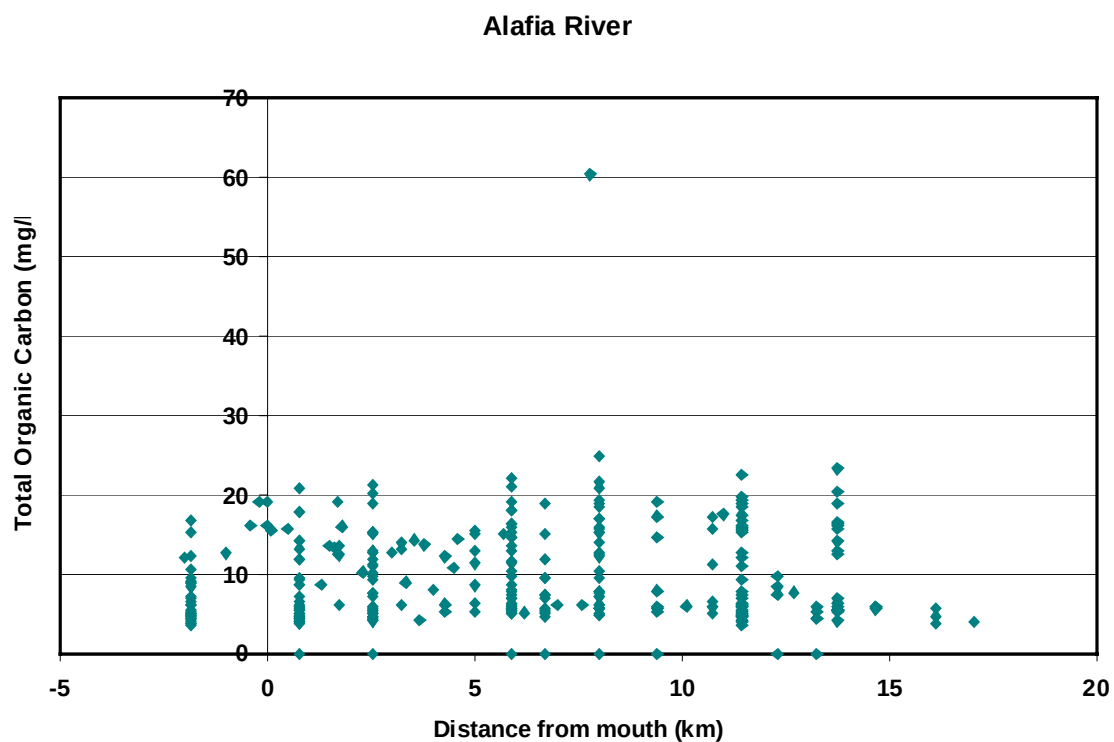
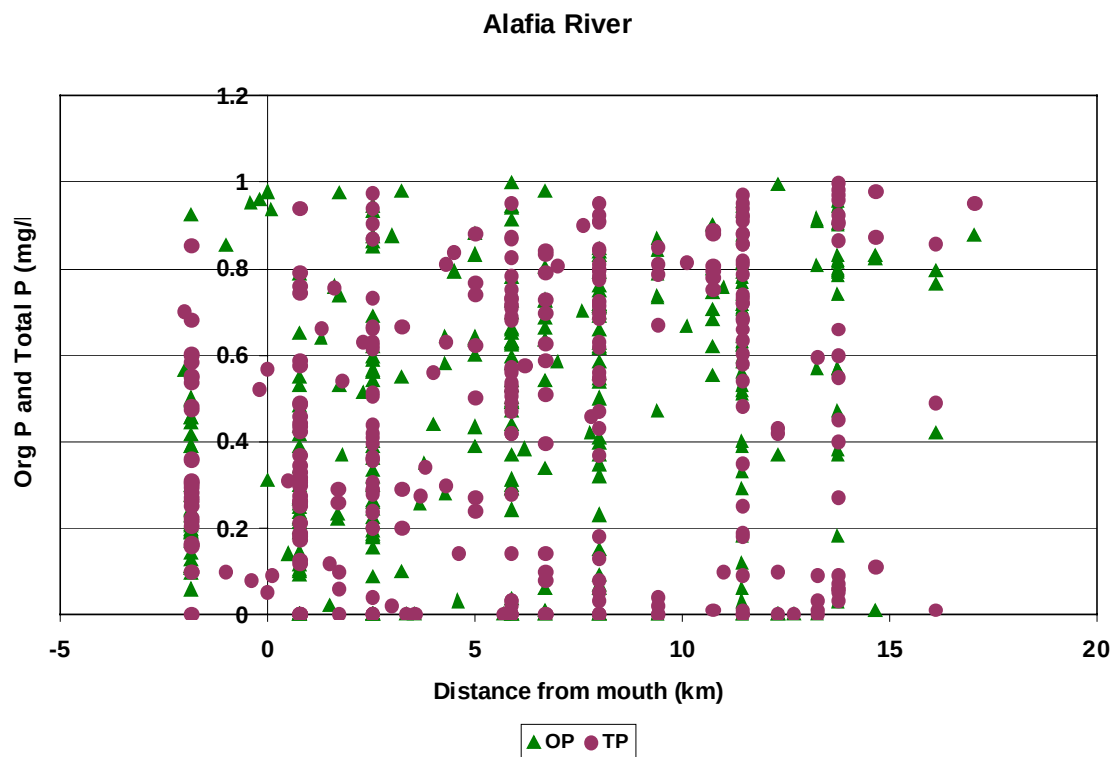
Appendix 16: Alafia River: Nutrients and water quality parameter with distance from the mouth



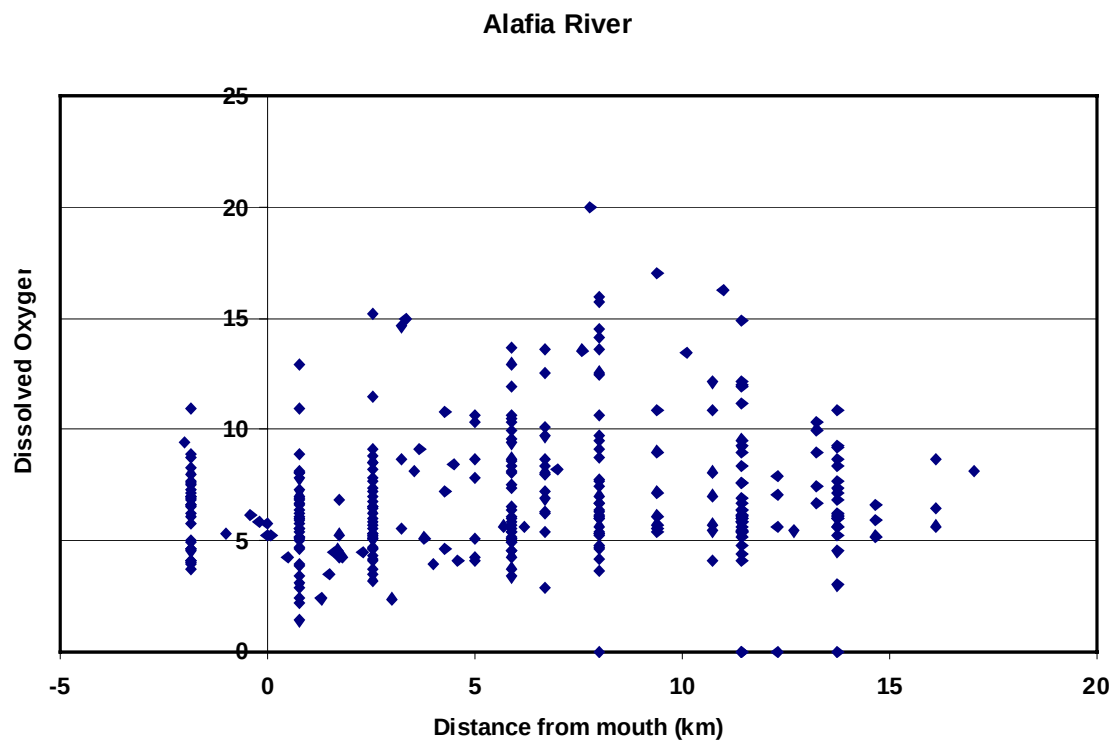
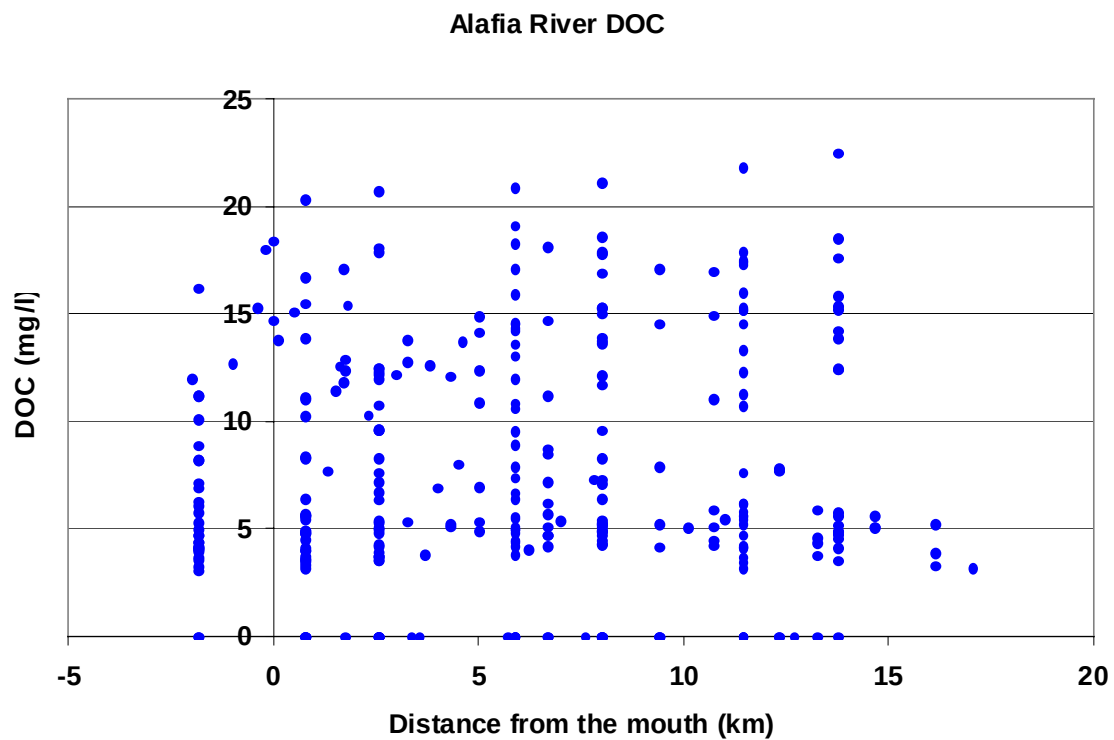
Appendix 16: Alafia River: Nutrients and water quality parameter with distance from the mouth

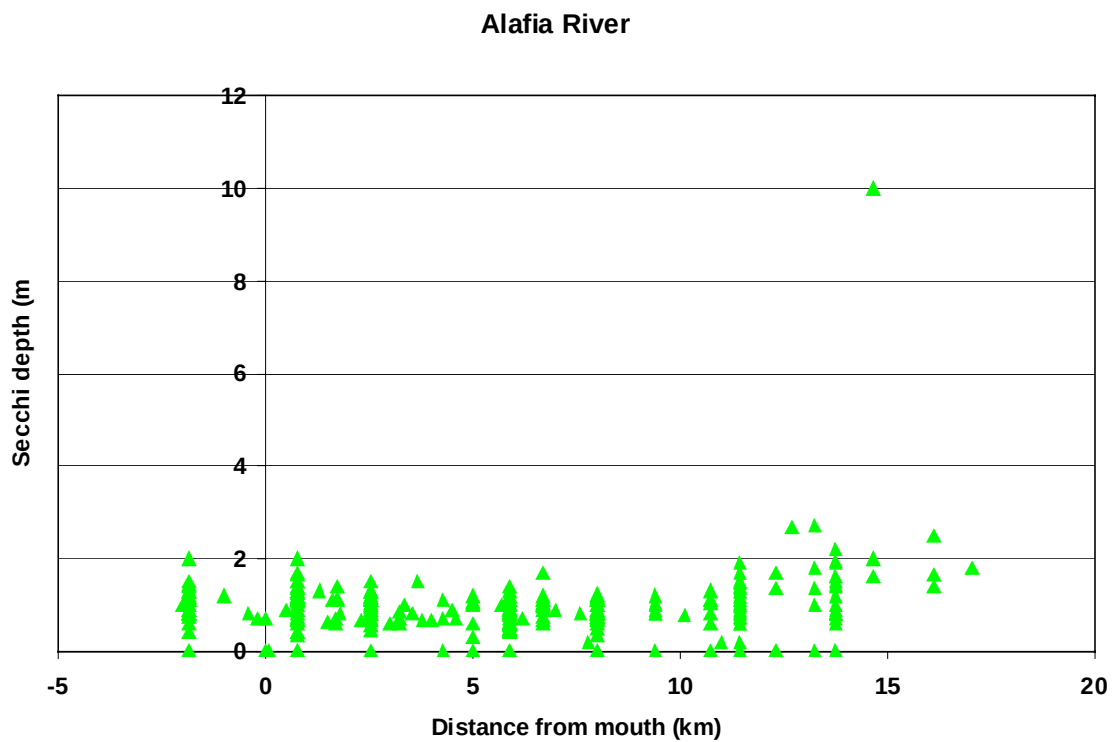


Appendix 16: Alafia River: Nutrients and water quality parameter with distance from the mouth

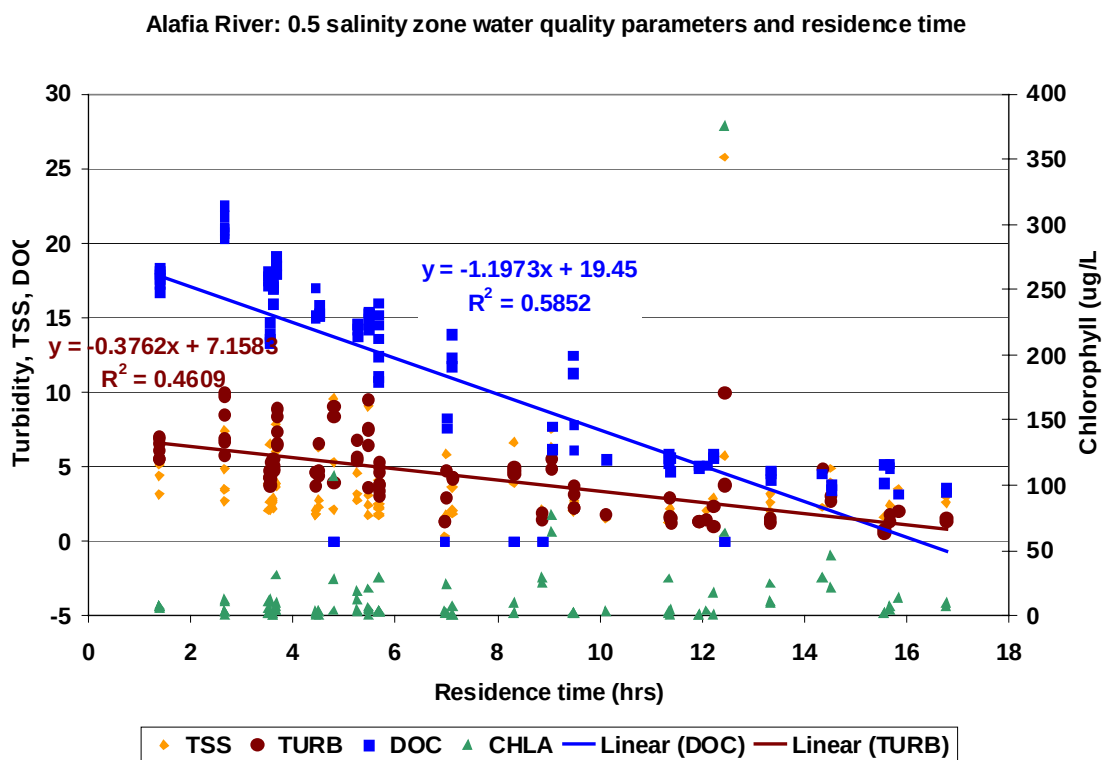
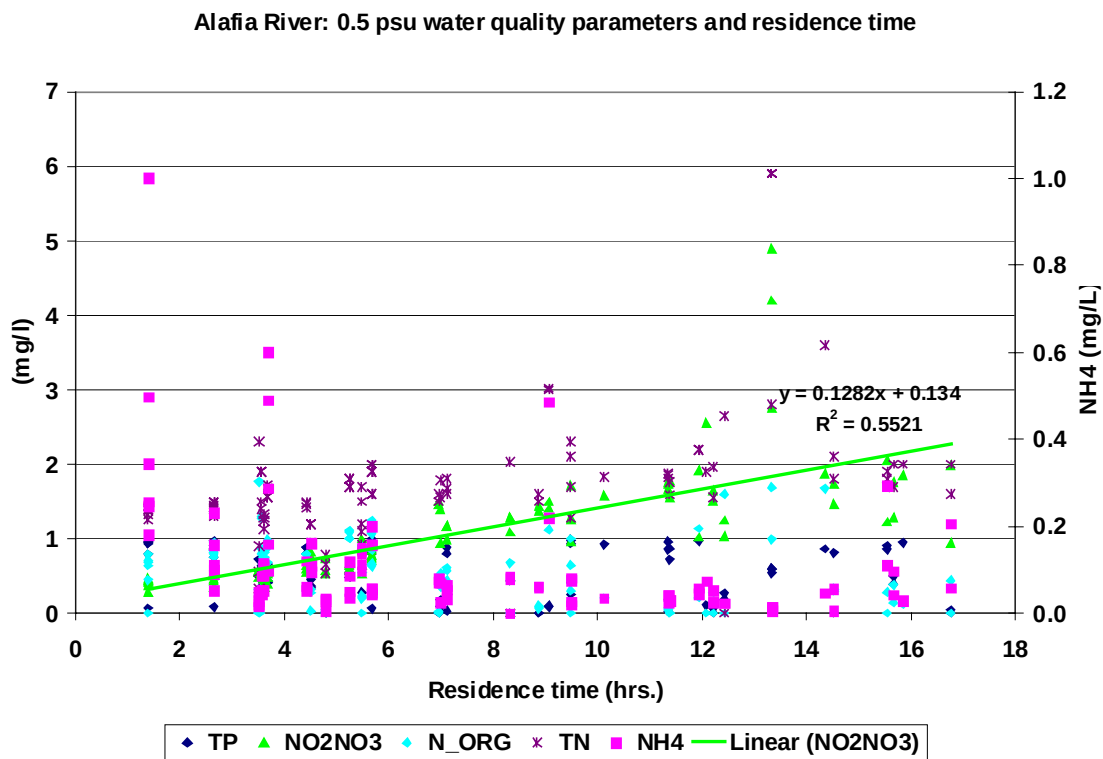


Appendix 16: Alafia River: Nutrients and water quality parameter with distance from the mouth

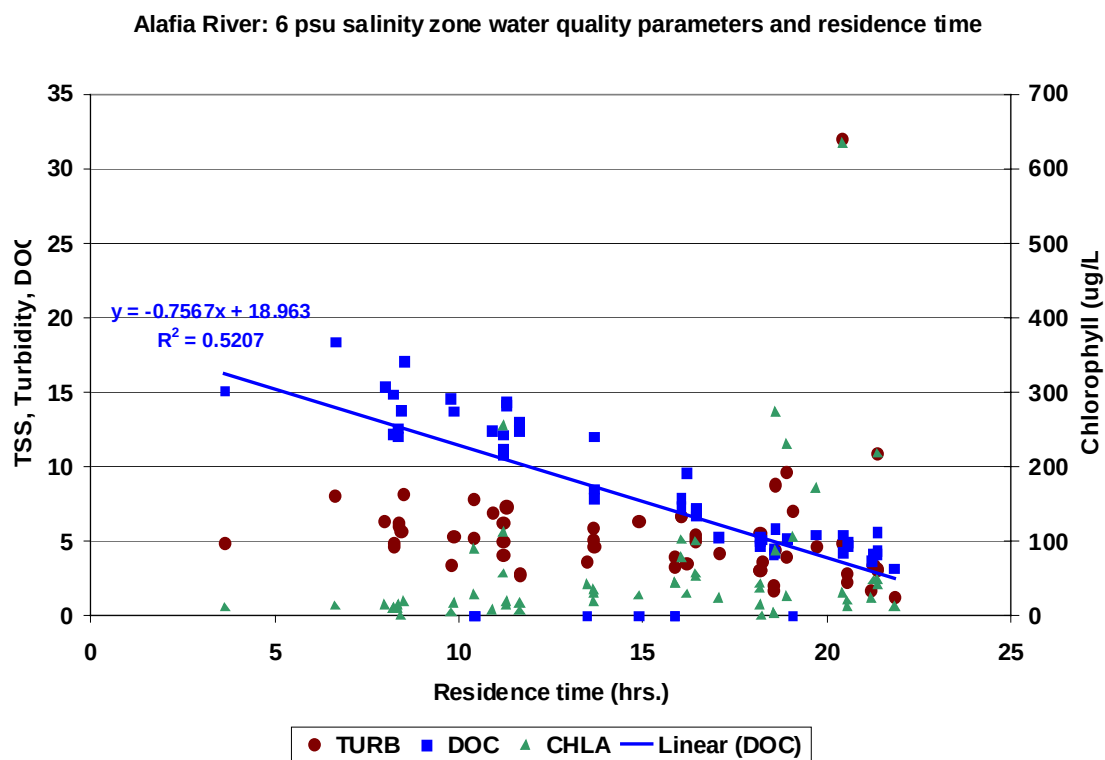
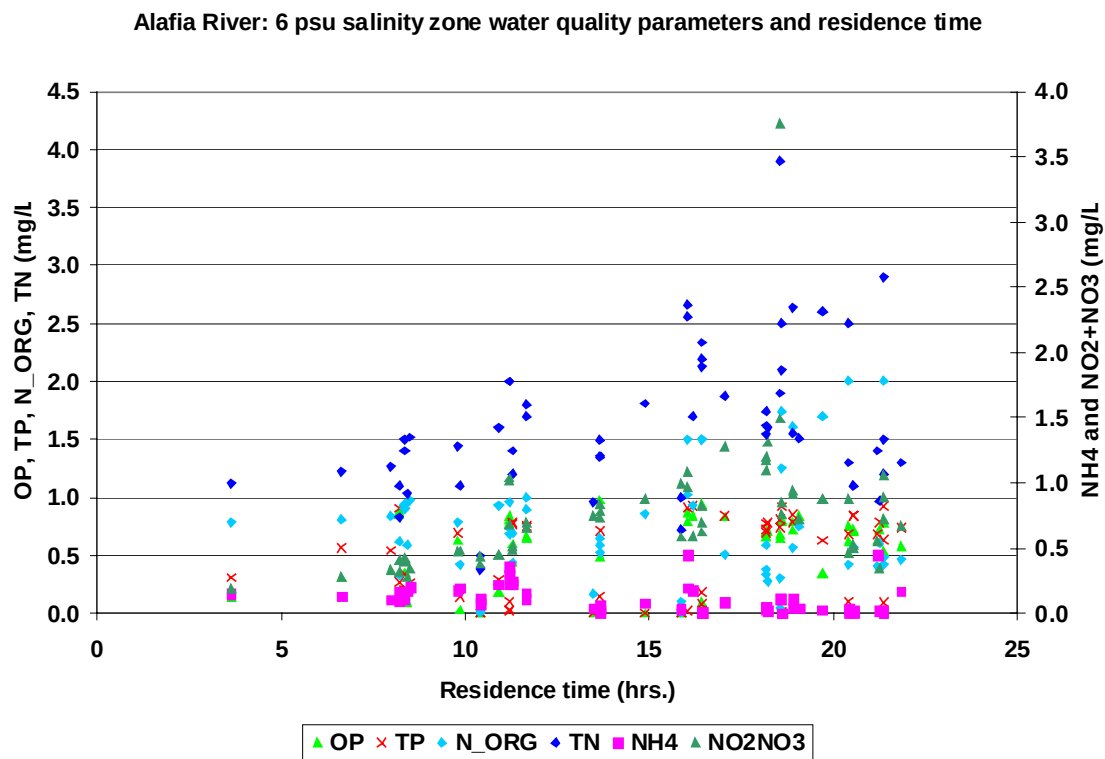




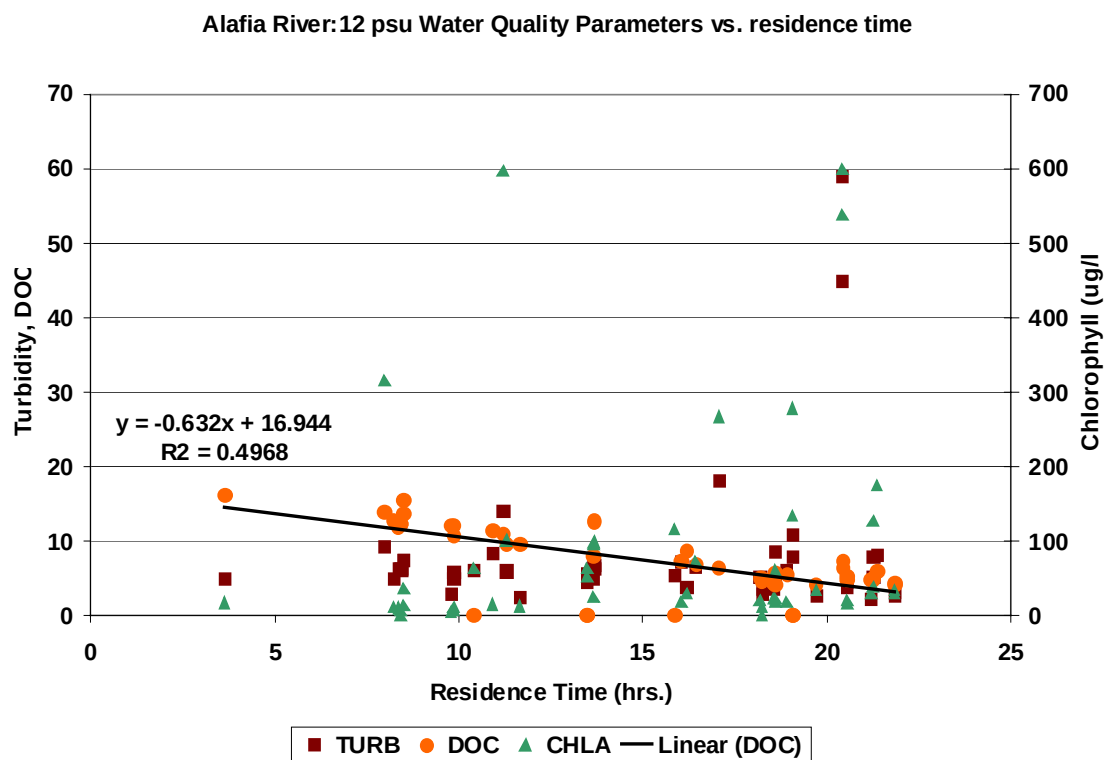
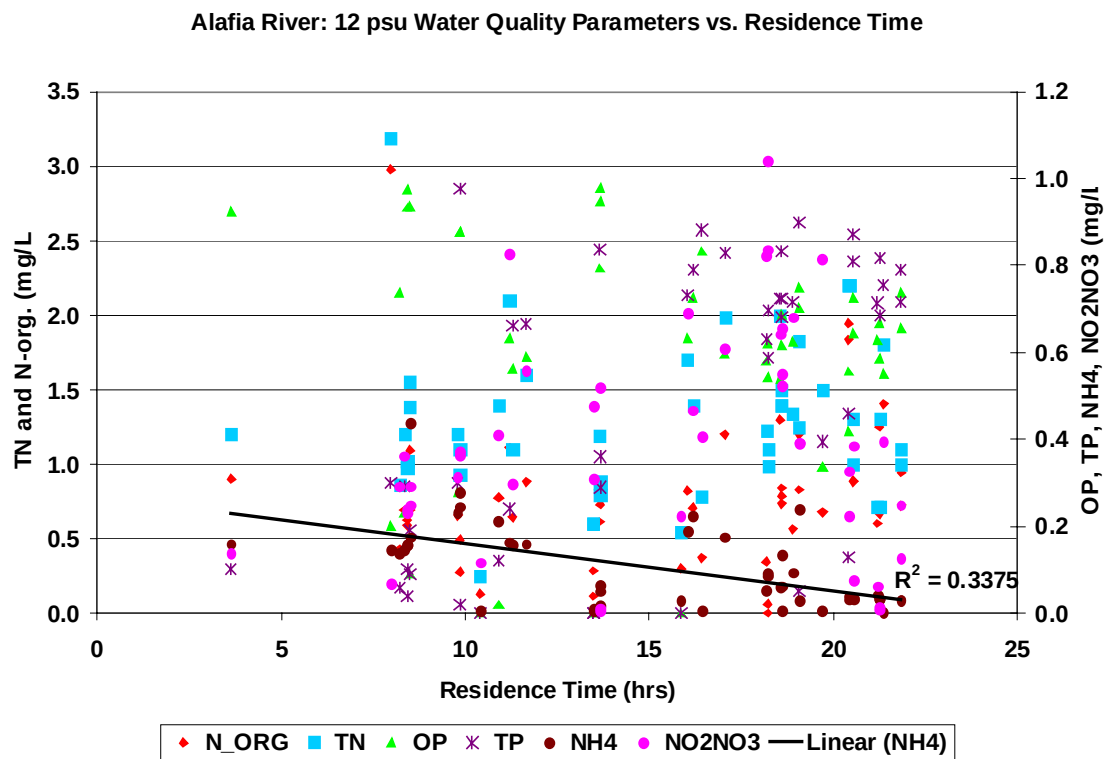
Appendix 17: Alafia River nutrients and water quality parameters with residence time



Appendix 17: Alafia River nutrients and water quality parameters with residence time

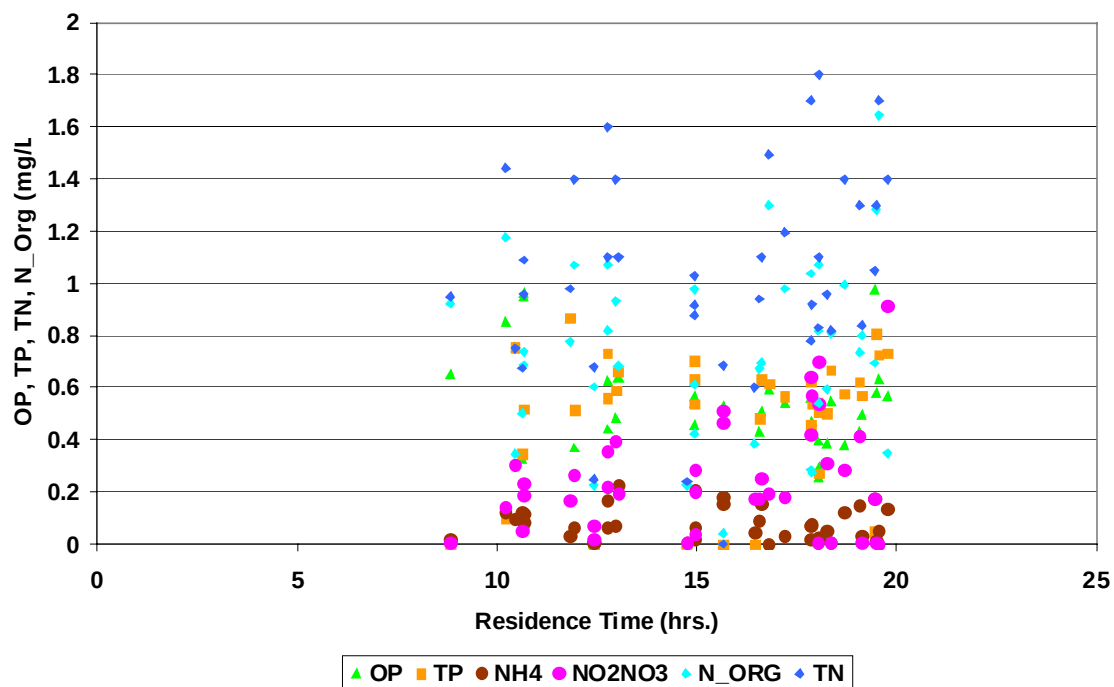


Appendix 17: Alafia River nutrients and water quality parameters with residence time

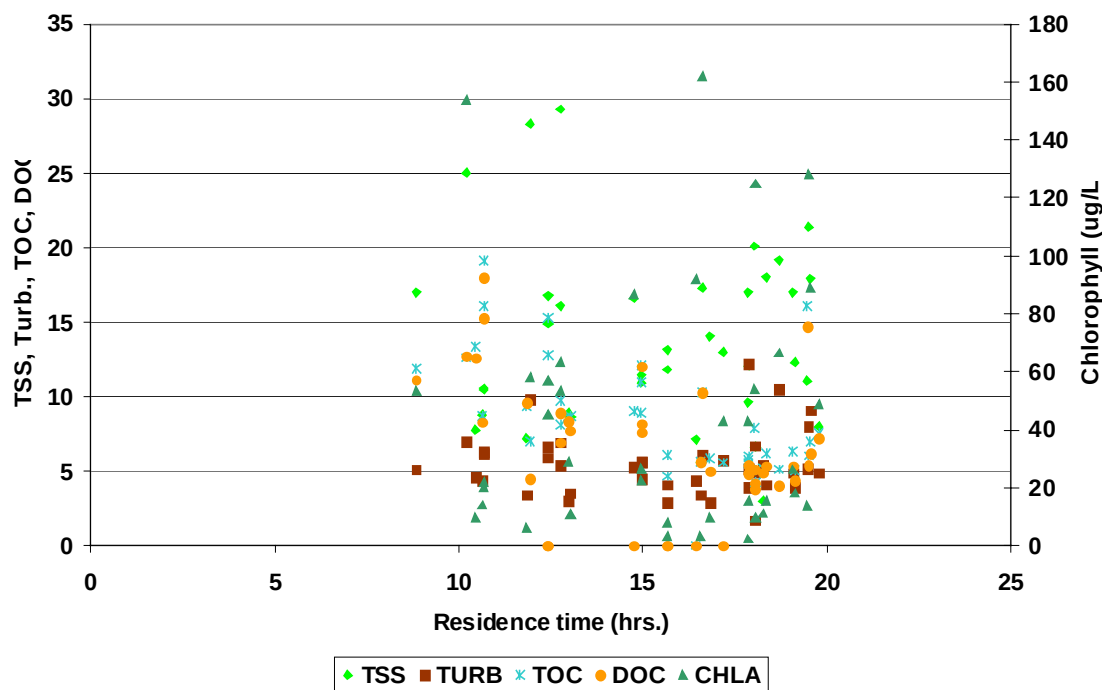


Appendix 17: Alafia River nutrients and water quality parameters with residence time

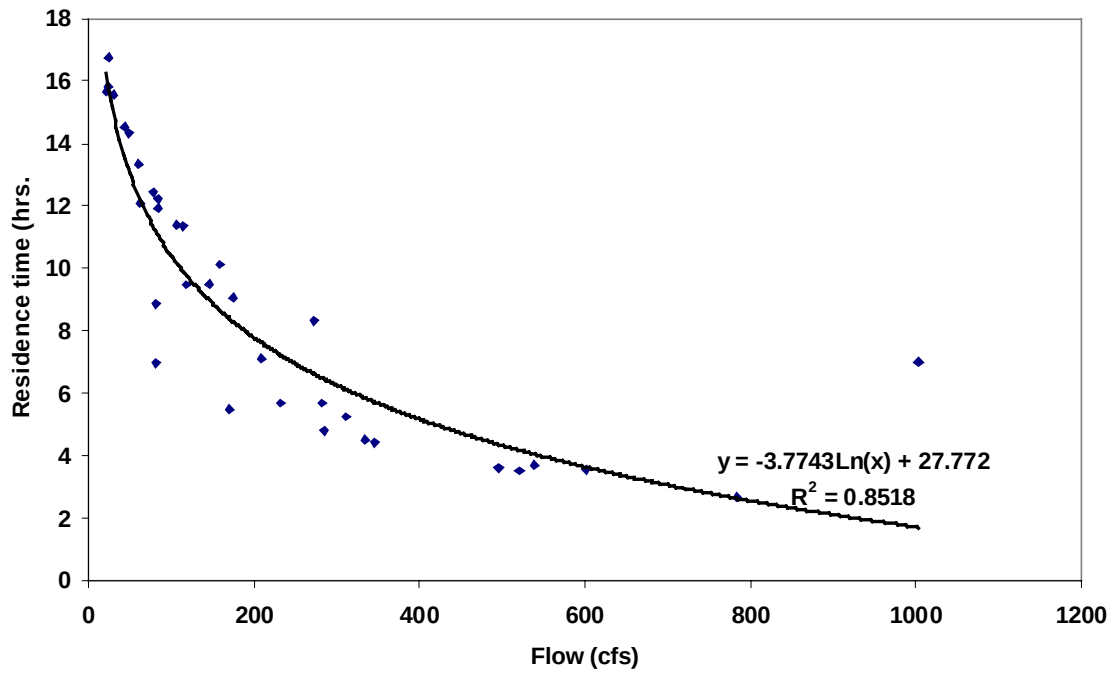
Alafia River: 18 psu Water Quality parameters and residence time



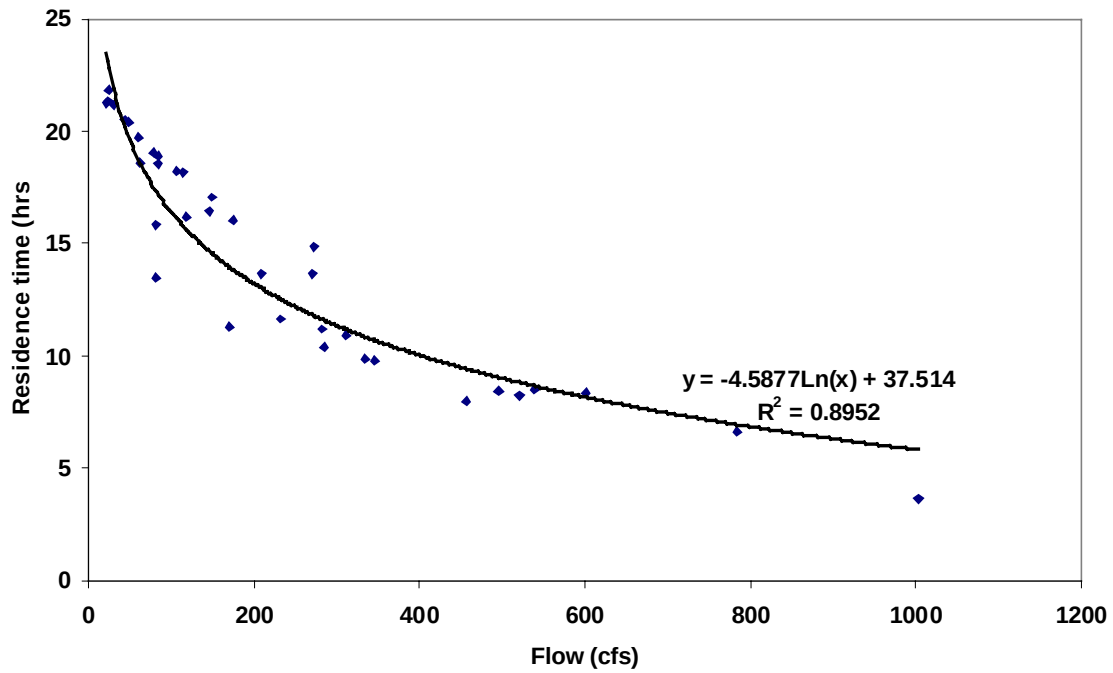
Alafia River: 18 psu water quality parameters and residence time



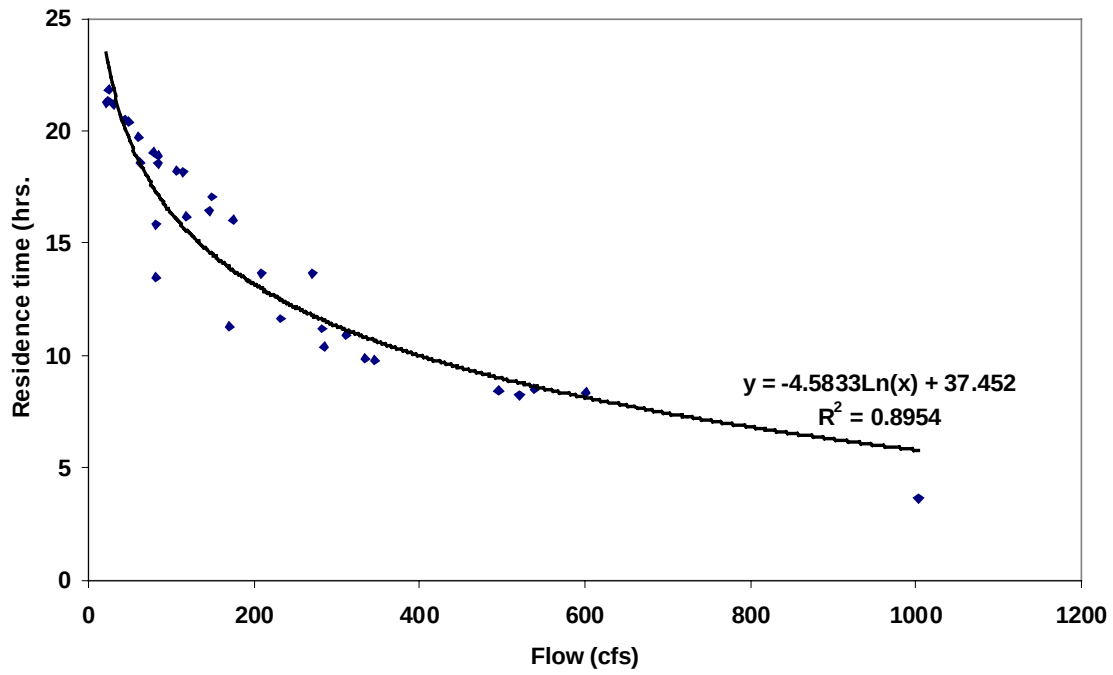
Alafia River: 0 psu zone



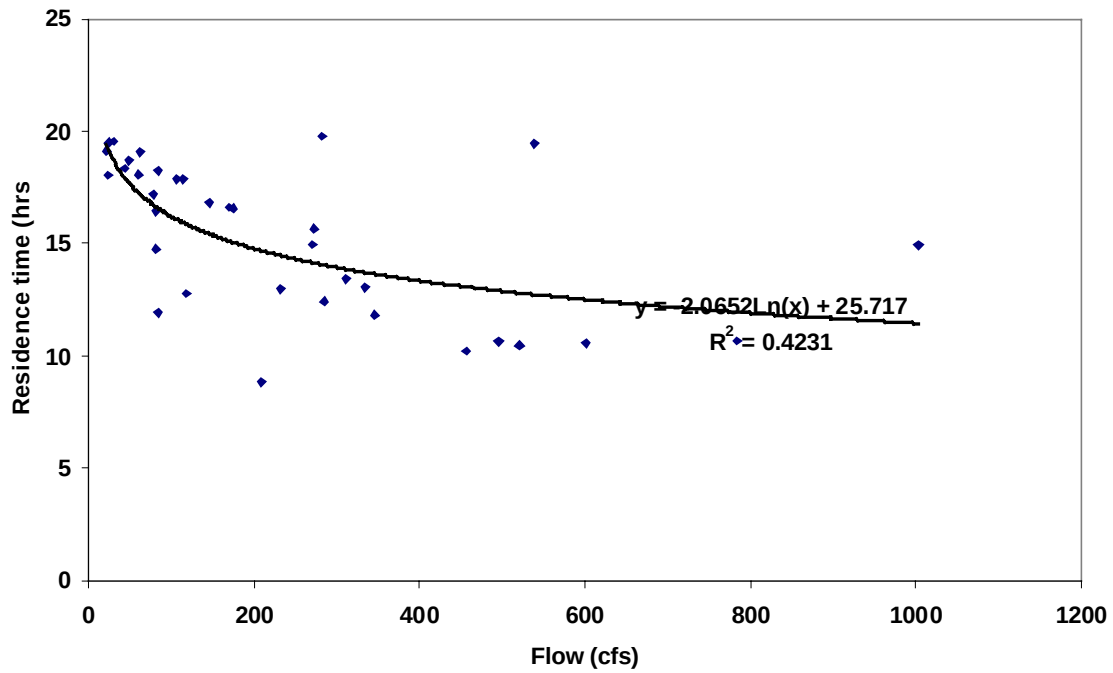
Alafia River: 6psu Residence time vs flow



Alafia River: 12 psu zone



Alafia River: 18 psu zone



SECTION 2

Statistical relationships from Three Rivers Dataset using PRIMER Multivariate Analysis Software.

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Statistical relationships from Three Rivers Dataset using PRIMER Multivariate Analysis Software.

TASK 1 - Upon receiving the electronic spreadsheets containing phytoplankton species abundance, physico-chemical parameters and other potentially useful data, I prepared them for import into the PRIMER software program. The phytoplankton data was standardized to reflect cells l⁻¹ and typographical errors were corrected. Unique identifiers for each sample were created incorporating the river initials, the date and the station identifier, i.e. LMR101188E0.

The environmental variable (mostly physico-chemical parameters) files were edited to remove stations and sample dates that did not coincide with phytoplankton samples or sampling dates. Unique identifiers for each sample were created using the same convention as for the phytoplankton abundance files. Environmental variable files were then further edited to remove those parameters with no data for a corresponding date. In the case of the Alafia the parameters retained were: OP, TP, NH₃, NO₂+NO₃, Norg, TOC, DO, DO sat, COLOR, TURB, COND, PH, SAL and TEMP. For the Little Manatee River the parameters retained were: Phaeo, TP, NH₃, NO₂+NO₃, CHLA, TSS, DO, COLOR, TURB, COND, PH and TEMP; and for the Peace River the parameters retained were: OP, TP, NH₃, NO₂+NO₃, TN, CHLA, DO, COLOR, COND, PH, SAL and TEMP. As with the phytoplankton species abundance files, the environmental parameter files were also standardized to reflect common units for the same measurements where possible.

A list of 512 individual species, or identification taxa, was compiled for the rivers (Table A), however, only 302 species were actually present in the samples with coincident environmental variable measurements (see Appendix A). This shorter list was used for the statistical analyses. Species lists for individual rivers were part of the data originally provided electronically. In some cases an organism could not be classified beyond its family, class, or genus. Higher taxonomic classification levels for all organisms were included to permit statistical comparison, known as aggregation. I incorporated the species abundance data for each river into this composite list, inserting 0's for species that were never found or were not found in a sample.

Table A. Comprehensive list of species and organisms identified in the Alafia, Little Manatee and Peace Rivers.

Scientific Name	Major Taxonomic Grouping	Group
<i>Actinastrum gracilimum</i>	Chlorophyta (Green Algae)	Green
<i>Actinastrum hantzschii</i>	Chlorophyta (Green Algae)	Green
<i>Actinastrum</i> sp.	Chlorophyta (Green Algae)	Green
<i>Actinopterychus splendens</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Actinopterychus undulatus</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Actinopterychus senarius</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Agmenellum quadrupliatum</i>	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Akistrodesmus acuminatus</i>	Chlorophyta/Chlorococcales	Green
<i>Akistrodesmus convolulus</i>	Chlorophyta/Chlorococcales	Green
<i>Akistrodesmus falcatus</i>	Chlorophyta/Chlorococcales	Green
<i>Akistrodesmus fractus</i>	Chlorophyta/Chlorococcales	Green
<i>Akistrodesmus gracilis</i>	Chlorophyta/Chlorococcales	Green
<i>Akistrodesmus</i> sp.	Chlorophyta/Chlorococcales	Green

<i>Amphidinium crassum</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Amphidinium globosum</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Amphidinium</i> sp.	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Amphiprora alata</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Amphiprora</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Amphiprora surirelloides</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Amphora cymbelifera</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Amphora marina</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Amphora</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Amphora</i> sp.1	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Amphora</i> sp.2	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Anabaena oscillarioides</i>	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Anabaena</i> sp.	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Anabaena spiroides</i> v. <i>crassa</i>	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Anabaenopsis</i> sp.	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Anabaenopsis trichomes</i>	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Anacystis</i> sp.	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Ankistrodesmus</i> sp.	Chlorophyta (Green Algae)	Green
<i>Apedinella radians</i>	Chromophyta/prymnesiophyte	Flagellates
<i>Aphanizomenon</i> sp.	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Aphanocapsa</i> sp.	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Arthrodesmus</i> sp.	Chlorophyta (Chlorococcales)	Green
<i>Asterionella glacialis</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Asterionella japonica</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Asterococcus superbus</i>	Chlorophyta (Chlorococcales)	green
<i>Attheya</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Aulacodiscus voluta-coeli</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Bacillaria paradoxa</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Bacillaria paxillifera</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Bacillaria</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Bacteriastrium comosum</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Bacteriastrium delicatulum</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Bacteriastrium elongatum</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Bacteriastrium hyalinum</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Bacteriastrium</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Bellerochea horologicalis</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Bellerochea malleus</i> F. biang.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Biddulphia alternans</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Biddulphia mobiliensis</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Biddulphia pulchella</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Biddulphia regia</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Biddulphia reticulum</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Biddulphia rhombus</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Biddulphia sinensis</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Biddulphia</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
Bluegreen coccoid sp.	Cyanophyta (Blue Green Algae)	Bluegreen
Bluegreen filamentous sp.	Cyanophyta (Blue Green Algae)	Bluegreen

Bluegreen sp.	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Calycomonas ovalis</i>	Chrysophyta (Chrysophytes)	Chrysophytes
<i>Calycomonas wulfie</i>	Chrysophyta (Chrysophytes)	Chrysophytes
<i>Campylosira cymbelliformis</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Carteria</i> sp.	chromophyta/Chlorophyceae	Flagellates
<i>Centritractus</i> aff. <i>Belonophorus</i>	Chrysophyta (Chrysophytes)	Chrysophytes
<i>Cerataulina bergonii</i> large	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Cerataulina bergonii</i> small	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Ceratium furca</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Ceratium fusus</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Ceratium hircus</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Ceratium</i> sp. 1	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Ceratium trichocerus</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Ceratulina bergonii</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Ceratulina pelagica</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros affinis</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros affinis</i> V. <i>willei</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros breve</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros compressum</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros crinitum</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros curvisetus</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros danicum</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros decipiens</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros didymus</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros diversum</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros gracile</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros laciniosum</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros lauderi</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros lorenzianum</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros muelleri</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros neogracile</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros pelagicum</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros pendulus</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros peruvianum</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros polygonum</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros radicans</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros rostratum</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros simplex</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros socialis</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros</i> sp. 11	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros</i> sp. 12	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros</i> sp. 13	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros</i> sp. 14	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros</i> sp. 15	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros</i> sp. 16	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros</i> sp. 17	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros</i> sp. 18	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms

<i>Chaetoceros</i> sp. 19	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros</i> sp. 20	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros</i> sp. 21	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros</i> sp. 22	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros</i> sp. 23	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros</i> sp. 24	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros</i> sp. A	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros</i> sp. B	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros</i> sp. C	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros</i> sp. D	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros</i> sp. E	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros subtilis</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros tortissimus</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros</i> type #1 for sample	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros</i> type #2 for sample	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros</i> type #3 for sample	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros</i> type #4 for sample	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros</i> type #5 for sample	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros</i> type #6 for sample	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros</i> type #7 for sample	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetoceros</i> type #8 for sample	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Chaetosphaeridium</i> sp.	Chlorophyta (Green Algae)	Green
<i>Chlamydomonas</i> sp.	Chlorophyta (Green Algae)	Green
<i>Chlamydomonas sphagnicola</i>	Chlorophyta (Green Algae)	Green
<i>Chlorogonium</i> sp.	Chlorophyta (Green Algae)	Green
Chlorophyte colonial sp.	Chlorophyta (Green Algae)	Green
Chlorophyte sp.	Chlorophyta (Green Algae)	Green
<i>Chlymentomonas</i> sp.	Chlorophyta (Green Algae)	Green
<i>Choanoflagellates</i> sp.	chloanoflagellidea	zooflagellates
<i>Chroococcus limneticus</i> v. <i>subsalsu</i>	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Chroococcus minutus</i>	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Chroococcus</i> sp.	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Chrysophyte</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Chrysophytes
<i>Chrysophyte</i> sp. A	Chrysophyta / Bacillariophyceae (Diatoms)	Chrysophytes
<i>Chrysophyte</i> sp. 1	Chrysophyta / Bacillariophyceae (Diatoms)	Chrysophytes
<i>Climacosphaenia moniligera</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Closterium</i> sp.	Chlorophyta (Green Algae)	Green
<i>Clostridium</i> sp.	Chlorophyta/Chlorococcales	Green
<i>Cocconeis</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Coelosphaerium</i> sp.	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Coolia</i> sp.	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Corethron criophilum</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Corethron hystrix</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Corethron</i> sp.	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Corethron</i> sp. auxospore	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Coscinodiscus centralis</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Coscinodiscus concinnus</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Coscinodiscus eccentricus</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms

<i>Coscinodiscus grani</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Coscinodiscus lineatus</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Coscinodiscus radiatus</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Coscinodiscus</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Coscinosira polychorda</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Cosmarium subcrenatum</i>	Chlorophyta/Chlorococcales	Green
<i>Crucigenia fenestrata</i>	Chlorophyta (Green Algae)	Green
<i>Crucigenia quadratus</i>	Chlorophyta (Green Algae)	Green
<i>Crucigenia</i> sp.	Chlorophyta (Green Algae)	Green
<i>Crucigenia tetrapedia</i>	Chlorophyta (Green Algae)	Green
<i>Cryptomonas curvata</i>	Pyrophyta (Flagellates)	Flagellates
<i>Cryptomonas erosa</i>	Pyrophyta (Flagellates)	Flagellates
<i>Cryptomonas ovata</i>	Pyrophyta (Flagellates)	Flagellates
<i>Cryptomonas</i> sp.	Pyrophyta (Flagellates)	Flagellates
<i>Cryptomonas</i> sp.1	Pyrophyta (Flagellates)	Flagellates
<i>Cryptomonas</i> sp.2	Pyrophyta (Flagellates)	Flagellates
<i>Cryptophyte</i> sp.	Pyrophyta (Flagellates)	Flagellates
<i>Cyclotella meneghiniana</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Cyclotella</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Cyclotella</i> sp. (large)	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Cyclotella</i> sp. (small)	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Cyclotella</i> sp. A	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Cyclotella</i> sp. B	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Cyclotella undulata</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Cymbella</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Dactylococcopsis acicularis</i>	Euglenophyta (Euglena)	Euglena
<i>Dactylococcopsis irregularis</i>	Euglenophyta (Euglena)	Euglena
<i>Dactylosolen mediterraneus</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Desmidium</i> sp.	Chlorophyta/Chlorococcales	Green
<i>Dictyocha fibula</i>	Chromophyta/Dictyochophyceae	Dictyochophytes
<i>Dictyocha</i> sp.	Chromophyta/Dictyochophyceae	Dictyochophytes
<i>Dictyosphaerium</i> sp.	Chromophyta/Dictyochophyceae	Dictyochophytes
<i>Dimerogramma fluvium</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Dinobryon</i> sp.	chromophyta/Chrysophyceae	Flagellates
<i>Dinophysis caudata</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Diploneis</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Dissodium lenticula</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Ditylum</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Ebria tripartita</i>	chromophyta/Chrysophyceae	Flagellates
<i>Entomoneis alata</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Eucampia cornuta</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Eucampia</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Eucampia zoodiacus</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Euglena acus</i>	Euglenophyta (Euglena)	Euglena
<i>Euglena elastica</i>	Euglenophyta (Euglena)	Euglena
<i>Euglena</i> sp.	Euglenophyta (Euglena)	Euglena
<i>Euglena spirogyra</i>	Euglenophyta (Euglena)	Euglena
<i>Eupodiscus argus</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms

<i>Eutreptia</i> sp.	Euglenophyta (Euglena)	Euglena
<i>Eutreptiella</i> sp.	Euglenophyta (Euglena)	Euglena
<i>Fragilaria hyalina</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Fragilaria oceana</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Fragilaria</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Franceia</i> sp.	Chlorophyta/Chlorococcales	Green
<i>Franceia tuberculata</i>	Chlorophyta/Chlorococcales	Green
<i>Glenodinium rotundum</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Glenodinium</i> sp.	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Glenodinium</i> sp. A	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Golenkinia</i> sp.	Chlorophyta/Chlorococcales	Green
<i>Gloeocapsa</i> sp.	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Gloeocystic gigas</i>	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Gomphonema</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Gomphosphaeria</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Gonyaulax dicantha</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Gonyaulax diegensis</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Gonyaulax digitalis</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Gonyaulax grindlyi</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Gonyaulax monilata</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Gonyaulax palustre</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Gonyaulax polyedra</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Gonyaulax polygramma</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Gonyaulax scrippsae</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Gonyaulax</i> sp.	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Gonyaulax spinifera</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Grammatophora marina</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Grammatophora</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Guinardia flaccida</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Gymnodinium aurantium</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Gymnodinium breve</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Gymnodinium estuariale</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Gymnodinium gracilentrum</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Gymnodinium simplex</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Gymnodinium</i> sp.	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Gymnodinium splendens</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Gyrodinium fusiforme</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Gyrodinium</i> sp.	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Gyrosigma</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Gyrosigma</i> sp. A	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Gyrosigma</i> sp. B	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Gyrosigma</i> sp.1	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Gyrosigma</i> sp.2	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Hantzschia</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Haptophyte</i> sp.	Haptophyta	Flagellates
<i>Hemiaulis hauckii</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Hemiaulis sinensis</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Hermesinum adriaticum</i>	silicoflagellate	Flagellates

<i>Heteroaulacus sphericum</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Heterocapsa triquetra</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Heteromastix pyriformis</i>	Prasinophyceae	prasinophyte
<i>Hymenomas carterae</i>	Haptophyta	Flagellates
<i>Isochrysis galbana</i>	Haptophyta	Flagellates
<i>Kirchneriella</i> sp.	Chlorophyta (Green Algae)	Green
<i>Lauderia borealis</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Leptocylindricus danicus</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Leptocylindricus minimum</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Leptocylindricus</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Licmophora abbreviata</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Licmophora</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Lithodesmium undulatum</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Lyngbya contorta</i> (trichome)	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Mallomonas acaroides</i>	Chrysophyta (Chrysophytes)	Chrysophytes
<i>Mallomonas</i> sp.	Chrysophyta (Chrysophytes)	Chrysophytes
<i>Mallomonas elliptica</i>	Chrysophyta (Chrysophytes)	Chrysophytes
<i>Mastogloea</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Melosira granulata</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Melosira nummuloidea</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Melosira</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Melosira varians</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Merismopedia glauca</i>	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Merismopedia punctata</i>	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Merismopedia</i> sp.	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Micractinium pusillum</i>	Chlorophyta (Chlorococcales)	Green
<i>Micrasterias</i> sp.	Chlorophyta (Chlorococcales)	Green
<i>Micratinium</i> sp.	Chlorophyta	Green
<i>Microcystis</i> sp.	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Minutocellus pseudopolymorphus</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Minutocellus scriptus</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Minutocellus</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Navicula</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Navicula</i> sp. large	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Navicula</i> sp. small	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Navicula wawriake</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Nitzschia closterium</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Nitzschia delicatissima</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Nitzschia fruticosa</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Nitzschia lineata</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Nitzschia longissima</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Nitzschia palea</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Nitzschia paradoxa</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Nitzschia pulchella</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Nitzschia pungens</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Nitzschia pungens</i> v. <i>atlantica</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Nitzschia reversa</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Nitzschia rigida</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms

<i>Nitzschia seriata</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Nitzschia sigma</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Nitzschia sigma</i> V. <i>rigida</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Nitzschia</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Nitzschia</i> sp. 1	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Nitzschia</i> sp. A	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Nitzschia spathulata</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Nitzschia tryblionella</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Noctiluca scintillans</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Nostoc</i> sp.(trichomes)	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Odontella aurita</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Odontella mobiliensis</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Odontella</i> sp. 1	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Ohrmidium</i> sp. (trichomes)	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Olisthodiscus luteus</i>	chromophyta	Flagellates
<i>Oocystis</i> sp.	Chlorophyta (Green Algae)	Green
<i>Oscillatoria rubescens</i> (trichome)	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Oscillatoria</i> sp.	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Oscillatoria</i> sp. (trichomes)	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Oxytoxum gigas</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Oxytoxum longiceps</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Oxytoxum scolopax</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Oxytoxum</i> sp.	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Paralia sulcata</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Pavlova gyraus</i> V. <i>simplex</i>	Prymnesiophyta/Haptophyceae	Prymnesiophyte
<i>Pediastrum borfanum</i>	Chlorophyta (Green Algae)	Green
<i>Pediastrum duplex</i> v. <i>reticulum</i>	Chlorophyta (Green Algae)	Green
<i>Pediastrum simplex</i>	Chlorophyta (Green Algae)	Green
<i>Pediastrum</i> sp.	Chlorophyta (Green Algae)	Green
<i>Peridinium aciculiferum</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Peridinium brochii</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Peridinium cerasus</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Peridinium claudicans</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Peridinium concinum</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Peridinium crassipes</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Peridinium depressum</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Peridinium divergens</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Peridinium nipponicum</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Peridinium oblongum</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Peridinium pellucidum</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Peridinium</i> sp.	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Peridinium subinermis</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Peridinium trochoideum</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Peridinium tuba</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Peridinium turbo</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Phacus pleuronectus</i>	Euglenophyta (Euglena)	Euglena
<i>Phacus</i> sp.	Euglenophyta (Euglena)	Euglena
<i>Phacus torta</i>	Euglenophyta (Euglena)	Euglena

<i>Phaeocystis pouchettii</i>	Prymnesiophyta/Haptophyceae	Prymnesiophyte
<i>Phaeodactylum</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Phormidium fragile</i> (trichome)	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Phormidium</i> sp.	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Plagiogramma vanhuerkii</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Planktionella sol</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Pleurosigma fasciola</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Pleurosigma</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Polyedriopsis spinulosa</i>	Chlorophyta (Chlorococcales)	green
<i>Polykrikos</i> sp.	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Polykrikos swartzii</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Prasinophyceae</i> sp. A	Prasinophyceae	prasinophyte
<i>Prorocentrum gracile</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Prorocentrum micans</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Prorocentrum minimum</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Prorocentrum redfieldi</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Prorocentrum</i> sp.	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Protococcus viridis</i>	Chlorophyta (Green Algae)	Green
<i>Protoperidinium conicum</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Protoperidinium depressum</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Protoperidinium oblongum</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Pseudopedinella</i> sp.	Chromophyta/Dictyochophyceae	Dictyochophytes
<i>Ptychodiscus brevis</i>	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Pyramimonas</i> sp.	Chromophyta/Halosphaeraceae	prasinophyte
<i>Pyrophacus horologium</i> V. stei.	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Pyrophacus</i> sp.	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Raphidiopsis</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Rhizosolenia alata</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Rhizosolenia calcar-avis</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Rhizosolenia delicatula</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Rhizosolenia fragilissima</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Rhizosolenia hebetata</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Rhizosolenia inermis</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Rhizosolenia robusta</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Rhizosolenia setigera</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Rhizosolenia</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Rhizosolenia</i> sp. 1	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Rhizosolenia stolterfothii</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Rhizosolenia styliformis</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Scenedesmus abundans</i>	Chlorophyta (Green Algae)	Green
<i>Scenedesmus abundans</i> v. <i>brevicauda</i>	Chlorophyta (Green Algae)	Green
<i>Scenedesmus acuminatus</i>	Chlorophyta (Green Algae)	Green
<i>Scenedesmus acutus</i>	Chlorophyta (Green Algae)	Green
<i>Scenedesmus arcuatus</i>	Chlorophyta (Green Algae)	Green
<i>Scenedesmus bicaudata</i>	Chlorophyta (Green Algae)	Green
<i>Scenedesmus bijinga</i>	Chlorophyta (Green Algae)	Green
<i>Scenedesmus bijuga</i> v. <i>alternans</i>	Chlorophyta (Green Algae)	Green
<i>Scenedesmus denticulus</i>	Chlorophyta (Green Algae)	Green

<i>Scenedesmus quadracauda</i>	Chlorophyta (Green Algae)	Green
<i>Scenedesmus quadricauda</i> v. <i>Westii</i>	Chlorophyta (Green Algae)	Green
<i>Scenedesmus</i> sp.	Chlorophyta (Green Algae)	Green
<i>Schizothrix calcicola</i>	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Schizothrix mexicana</i>	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Schizothrix</i> sp.	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Schroederia anchora</i>	Chlorophyta (Chlorococcales)	green
<i>Schroederia setigera</i>	Chlorophyta (Chlorococcales)	green
<i>Scrippsiella</i> sp.	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Selenastrum gracile</i>	Chlorophyta (Green Algae)	Green
<i>Selenastrum</i> sp.	Chlorophyta (Green Algae)	Green
<i>Skeletonema costatum</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Skeletonema menezelli</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Skeletonema tropicum</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Sorastrum spinulosum</i>	Chlorophyta (Green Algae)	Green
<i>Spermatozoopsis exultans</i>	Chlorophyta (Green Algae)	Green
<i>Spirulina laxa</i>	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Spirulina</i> sp. (trichomes)	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Spirulina</i> sp.1	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Staurastrum paradoxym</i>	Chlorophyta (Green Algae)	Green
<i>Staurastrum</i> sp.	Chlorophyta (Green Algae)	Green
<i>Stephanodiscus</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Stephanoeca pendicellata</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Stephanopyxis</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Streptotheca tamesis</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Striatella delicatula</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Surirella</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Synechocystis aquaticus</i> Sauvageau	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Synedra</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Synedra ulna</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Tetraedron</i> sp.	Chlorophyta (Green Algae)	Green
<i>Tetrastrum heterocontum</i>	Chlorophyta (Chlorococcales)	Green
<i>Tetrastrum</i> sp.	Chlorophyta (Chlorococcales)	Green
<i>Tetrastrum staurogeniaeforme</i>	Chlorophyta (Chlorococcales)	Green
<i>Thalassionema nitzschoides</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Thalassionema</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Thalassiosira aestivalis</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Thalassiosira alleni</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Thalassiosira decipiens</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Thalassiosira eccentrica</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Thalassiosira gravis</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Thalassiosira hyalina</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Thalassiosira oestrupii</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Thalassiosira pseudonana</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Thalassiosira rotula</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Thalassiosira</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Thalassiosira</i> sp. A	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms

<i>Thalassiosira</i> sp. B	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Thalassiosira subtilis</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Thalassiothrix delicatula</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Thalassiothrix frauenfeldianum</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Thalassiothrix frauenfeldii</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Thalassiothrix mediterranea</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Thalassiothrix</i> sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
<i>Trachelomonas</i> sp.	Euglenophyta (Euglena)	Euglena
<i>Treubaria crassispina</i>	Chlorophyta (Green Algae)	green
<i>Triceratium favus</i>	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
<i>Trichodesmium</i> sp.	Cyanophyta (Blue Green Algae)	Bluegreen
<i>Tropodineis lepidoptera</i>	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
Unknown algal cells sp.	Unknown	Unknown
Unknown bluegreen sp.	Cyanophyta (Blue Green Algae)	Bluegreen
Unknown bluegreen sp. 11	Cyanophyta (Blue Green Algae)	Bluegreen
Unknown bluegreen sp. 12	Cyanophyta (Blue Green Algae)	Bluegreen
Unknown bluegreen sp. 13	Cyanophyta (Blue Green Algae)	Bluegreen
Unknown bluegreen sp. 14	Cyanophyta (Blue Green Algae)	Bluegreen
Unknown bluegreen sp. A	Cyanophyta (Blue Green Algae)	Bluegreen
Unknown bluegreen sp. B	Cyanophyta (Blue Green Algae)	Bluegreen
Unknown chlorophyte sp.	Chlorophyta (Green Algae)	green
Unknown chrysophyte sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Chrysophytes
Unknown diatom sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
Unknown diatom sp. 11	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
Unknown diatom sp. 12	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
Unknown diatom sp. 13	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
Unknown diatom sp. 14	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
Unknown diatom sp. 15	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
Unknown diatom sp. 16	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
Unknown diatom sp. 17	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
Unknown diatom sp. 18	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
Unknown diatom sp. 19	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
Unknown diatom sp. A	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
Unknown diatom sp. C	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
Unknown diatom sp. D	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
Unknown diatom sp. E	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
Unknown Diatom sp. epiphytic	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
Unknown diatom sp. F	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
Unknown diatom sp. G	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
Unknown diatom sp. H	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
Unknown diatom type #1 for sample	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
Unknown diatom type #2 for sample	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
Unknown diatom type #3 for sample	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
Unknown diatom type #4 for sample	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
Unknown diatom type #5 for sample	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
Unknown diatom type #6 for sample	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
Unknown diatom type #7 for sample	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
Unknown diatom type #8 for sample	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms

Unknown Dinoflagellate sp.	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
Unknown flagellate sp.	Pyrophyta (Flagellates)	Flagellates
Unknown flagellate sp. 1	Pyrophyta (Flagellates)	Flagellates
Unknown flagellate sp. 2	Pyrophyta (Flagellates)	Flagellates
Unknown Green colonial #1	Chlorophyta (Green Algae)	Green
Unknown <i>Katodinium</i> sp.	Pyrophyta / Dinophyceae (Dinoflagellates)	Dinoflagellates
Unknown microflagellate sp.	Pyrophyta (Flagellates)	Flagellates
Unknown <i>Pandorina</i> sp.	Chlorophyta (Green Algae)	Green
Unknown pennate diatom sp.	Chrysophyta / Bacillariophyceae (Diatoms)	Diatoms
Unknown phytoflagellate sp.	Pyrophyta (Flagellates)	Flagellates
Unknown phytoflagellate sp. 2	Pyrophyta (Flagellates)	Flagellates
Unknown phytoflagellate type #1 for sample	Pyrophyta (Flagellates)	Flagellates
Unknown phytoflagellate type #2 for sample	Pyrophyta (Flagellates)	Flagellates
Unknown phytoflagellate type #3 for sample	Pyrophyta (Flagellates)	Flagellates
Unknown phytoflagellate type #4 for sample	Pyrophyta (Flagellates)	Flagellates
Unknown phytoflagellate type #5 for sample	Pyrophyta (Flagellates)	Flagellates
Unknown Vegetative cell sp.	Unknown	Unknown
Unknown C sp.	Unknown	Unknown
<i>Westella</i> sp.	Chlorophyta (Green Algae)	Green

Upon completion of the preparation and standardization of the data files for the individual rivers, these spreadsheets were imported into the PRIMER program and converted to a PRIMER file. Statistical analyses like the CLUSTER analysis, SIMPER, BIOENV, PCA, and MDS tests were performed for each river. Details on the methodology and the results of these tests will follow in this report.

PRIMER requires phytoplankton species to be listed as rows and samples to be listed as columns. Excel spreadsheets are limited to a maximum 256 columns. Due to the number of individual samples generated for all three rivers (>256), the combined river file had to be created in the PRIMER program using the spreadsheet JOIN function. This combined river environmental variable file can only be seen and viewed in its entirety using the PRIMER software. However, the environmental variables files, with individual samples as rows and parameters as columns, can be converted to a spreadsheet program and viewed using Quattro Pro or Excel.

The combined environmental parameter file had to be reduced to the parameters measured in all three rivers. These common measured parameters were: total phosphorus (TP), Ammonia (NH₃), nitrate plus nitrite (NO₂+NO₃), chlorophyll *a* (CHLA), dissolved oxygen (DO), color (COLOR), turbidity (TURB), conductivity (COND), pH (PH), and temperature (TEMP).

Upon creation of the PRIMER files from the spreadsheets, factors were added to the environmental variables files to allow the data to be averaged for meaningful comparison. Averaging combines all samples representative of the factor that you are averaging over and makes statistical comparisons between these different factors. The factors added to each file were: river, year, river-station, month, month-year, and season. For clarification, the Alafia and Little Manatee River stations are generally represented by the river initials and the salinity, except for the bay stations that were designated with their alphabetical station name or general

location (ALASFB, ALASFC, LMRTB, LMRRUSK). The Peace River stations were numbered 1 through 4 - proceeding from freshwater to bay salinities, respectively.

It quickly became apparent that the most meaningful factors to average samples over were river or river-station. I believe that due to the disparity in the dates of the sampling for the three projects; year, month, and season proved too variable as factors.

The same factors were added to the phytoplankton abundance files. New PRIMER files were created for each spreadsheet averaged by the different factors for both the individual and the combined river files for both environmental variables and phytoplankton abundance. Similarly, when species identifications were AGGREGATED to higher taxonomic levels or groups and again averaged by the factors, new PRIMER files were created for individual and combined river files for both environmental variables and phytoplankton abundance. In short, more than three hundred PRIMER files were created for use in different statistical tests.

TASK 2 - As specifically requested, Table B, C and D provide the mean, median, and maximum abundances of each species by river. Because the mean and median are based upon all records of the species and there were many instances where a species was not found, these results are strongly skewed by the large number of 0's (species not found) and will appear low. The species lists for each river with 0's removed and providing the minimum, mean, median and maximum values for each species can be found in Appendices B, C and D.

Several identifications were unique to rivers, possibly as a function of principle investigator identification expertise, but more likely as a result of endemism. Generic identification levels, like "Unknown *Chaetoceros* sp. 5" were strictly based upon the unique classification of that organism by the individual principle investigator for each river. Thus, these types of classifications will be unique to rivers as a result of identification bias by the principle investigator.

Table B. Peace River species list with maximum number of cells l⁻¹, mean number of cells l⁻¹ and median number of cells l⁻¹ (with coincident environmental variables)

Scientific name	Max (cells l ⁻¹)	Mean (cells l ⁻¹)	Median (cells l ⁻¹)
" <i>Actinastrum gracilimum</i> ";	48	16	5.5
" <i>Actinoptychus undulatus</i> ";	96	14	4.5
" <i>Amphidinium crassum</i> ";	113	8	3
" <i>Amphora</i> sp.1";	2	1	1
" <i>Amphora</i> sp.2";	1	1	1
" <i>Anabaena spiroides</i> v. <i>crassa</i> ";	32	7	2
" <i>Anabaenopsis</i> sp.";	82	26	9.5
" <i>Ankistrodesmus</i> sp.";	4	4	3.5
" <i>Aphanizomenon</i> sp.";	24	12	11
" <i>Aphanocapsa</i> sp.";	40	21	16
" <i>Asterionella gracilus</i> ";	52	13	6
" <i>Bacillaria paradoxa</i> ";	199	18	5.5
" <i>Biddulphia reticulum</i> ";	2	1	1

"Biddulphia rhombus";	1	1	1
"Biddulphia sinensis";	198	16	4
"Calycomonas ovalis";	157	9	3
"Calycomonas wulfie";	9	4	3
"Campylosira cymbelliformis";	38	19	17
"Centritractus aff. belonophorus";	20	6	2.5
"Ceratium fusus";	5	2	1
"Ceratulina pelagica";	421	34	6
"Certaum hircus";	437	43	6
"Chaetocerus compressa";	103	13	3.5
"Chaetocerus dicipens";	110	18	10
"Chaetocerus subtile";	256	15	6
"Chaetosphaeridium sp.";	17	9	6
"Chlamydomonas sp.";	37	9	5
"Chlamydomonas sphagnicola";	10	3	1
"Chlymentomonas sp.";	216	12	6
"Chroococcus limneticus v. subsalsa";	145	52	32
"Chroococcus minutus";	445	101	65.5
"Closterium sp.";	2	1	1
"Coelosphaerium sp.";	323	57	33
"Coscinodiscus eccentricus";	149	6	2
"Crucigenia fenestrata";	102	18	6
"Crucigenia tetrapedia";	22	11	11.5
"Cryptomonas curvata";	187	11	2
"Cryptomonas erosa";	120	12	4
"Cryptomonas ovata";	353	23	8
"Cryptomonas sp.1";	472	105	68
"Cryptomonas sp.2";	1	1	1
"Cyclotella sp.";	383	21	8
"Cyclotella undulata";	321	19	3
"Cymbella sp.";	6	2	1
"Dinophysis caudata";	23	3	1
"Diploneis sp.";	1	1	1
"Entomoneis alata";	75	5	2
"Euglena acus";	168	10	3
"Euglena elastica";	5	3	3
"Euglena sp.";	349	42	5
"Euglena spirogyra";	12	5	3
"Eutreptilla sp.";	195	10	4
"Gloeocystic gigas";	16	10	10
"Gomphonema spp.";	1	1	1
"Gonyalux palustre";	481	20	5
"Gonyalux polygramma";	25	15	14.5
"Gonyalux scrippsae";	325	22	5
"Green colonial #1";	4	4	4
"Gymnodinium simplex";	156	13	5
"Gymnodinium splendens";	467	40	6
"Gyrosigma/Pleurosigma sp.1";	32	3	2

"Gyrosigma/Pleurosigma sp.2";	2	2	2
"Hemialus hauckii";	6	3	2
"Hemialus sinensis";	11	6	4
"Kirchneriella sp.";	21	8	5
"Licomorpha sp.";	12	12	12
"Lyngbya contorta (trichome)";	89	9	2
"Mallomonas acaroides";	12	3	1
"Melosira granulata";	343	28	8
"Melosira sp.";	1	1	1
"Merismopedia glauca";	248	36	18
"Merismopedia sp.";	128	35	24.5
"Navicula spp.";	315	8	3
"Nitzschia closterium";	20	3	2
"Nitzschia fruticosa";	113	22	8
"Nitzschia palea";	98	7	2
"Nitzschia pungens v. atlantica";	24	8	3
"Nitzschia reversa";	49	3	1
"Nitzschia sigma";	5	2	1
"Nitzschia spp.";	49	5	2
"Nitzschia tryblionella";	20	3	1
"Oocystis sp.";	56	16	9
"Oscillatoria rubescens (trichome)";	103	12	4
"Paralia (Melosira) sulcata";	16	4	2.5
"Pediastrum boryanum";	44	17	8
"Pediastrum duplex v. reticulum";	22	12	11.5
"Pediastrum simplex";	16	16	16
"Peridinium cerasus";	474	41	7
"Phacus pleuronectes";	7	2	2
"Phacus torta";	4	2	2
"Phormidium fragile (trichome)";	410	55	6.5
"Plagiogramma vanhuerkii";	28	16	16
"Polykrikos swartzii";	22	5	1
"Prorocentrum micans";	174	15	4
"Protococcus viridis";	299	29	10.5
"Proto-peridinium conicum";	2	2	2
"Proto-peridinium depressum";	2	1	1
"Proto-peridinium oblongum";	6	3	2
"Rhizosolenia calcar-avis";	144	26	2
"Rhizosolenia fragellissima";	378	54	33
"Rhizosolenia setigera";	139	20	3
"Rhizosolenia stolterfothii";	366	72	26.5
"Rhizosolenia styliiformis";	472	28	4
"Scenedesmus abundans v. brevicauda";	68	17	8
"Scenedesmus acuminatus";	36	9	6
"Scenedesmus bicaudata";	11	5	4
"Scenedesmus bijuga v. alternans";	28	7	4
"Scenedesmus bijuga";	19	6	6
"Scenedesmus quadricauda v. Westii";	342	33	12

" <i>Selanastrum</i> sp.";	6	6	6
" <i>Skeletonema costatum</i> ";	496	137	62.5
" <i>Sorastrum spinulosum</i> ";	7	7	7
" <i>Spermatozoopsis exultans</i> ";	305	23	7
" <i>Spirulina laxa</i> ";	9	3	1.5
" <i>Spirulina</i> sp.1";	18	7	2.5
" <i>Staurastrum</i> sp.";	13	4	1
" <i>Stephanodiscus</i> sp.";	41	5	1
" <i>Surirella</i> sp.";	2	1	1
" <i>Synechocystis aquaticus</i> Sauvageau";	485	171	147
" <i>Synedra ulna</i> ";	28	11	3
" <i>Tetraedron</i> sp.";	40	5	2
" <i>Thalassionema nitzschioides</i> Grun.";	262	35	14
" <i>Trachelomonas</i> sp.";	16	9	8.5
" <i>Tropodineis lepidoptera</i> ";	3	2	2
"unidentified flagellate #1";	272	12	3
"unidentified flagellate #2";	35	6	3

Table C. Alafia River species list with maximum number of cells l⁻¹, mean number of cells l⁻¹ and median number of cells l⁻¹ (with coincident environmental variables)

Scientific name	Max (cells l ⁻¹)	Mean (cells l ⁻¹)	Median (cells l ⁻¹)
<i>Actinastrum</i> sp.	3.25	0.07	0.00
<i>Akistrodesmus</i> sp.	441.83	25.23	0.00
<i>Amphora</i> sp.	241.00	4.10	0.00
<i>Anabaena</i> sp.	40.17	0.44	0.00
<i>Apedinella radians</i>	241.00	10.59	0.00
<i>Aphanocapsa</i> sp.	361.50	18.09	0.00
<i>Asterionella japonica</i>	1446.00	28.61	0.00
<i>Bacillaria</i> sp.	40.17	0.44	0.00
<i>Bacteriastrum</i> sp.	120.50	3.53	0.00
<i>Bellerochea horologicalis</i>	241.00	2.65	0.00
<i>Cerataulina bergonii</i> large	241.00	5.74	0.00
<i>Cerataulina bergonii</i> small	40.17	0.51	0.00
<i>Ceratium hircus</i>	964.00	40.61	0.00
<i>Chaetoceros gracile</i>	6426.67	146.98	0.00
<i>Chaetoceros muelleri</i>	1687.00	48.10	0.00
<i>Chaetoceros</i> sp.	4579.00	224.62	0.00
<i>Chaetoceros subtilis</i>	3072.75	54.95	0.00
<i>Chroococcus</i> sp.	84.50	1.48	0.00
<i>Coscinodiscus</i> sp.	562.33	13.54	0.00
<i>Crucigenia</i> sp.	9.75	0.14	0.00
<i>Dinophysis caudate</i>	160.67	2.21	0.00
<i>Diploneis</i> sp.	40.17	0.73	0.00
<i>Eutreptia</i> sp.	8555.50	196.26	0.00
<i>Eutreptiella</i> sp.	31490.67	361.25	0.00
<i>Fragilaria oceanica</i>	80.33	2.13	0.00
<i>Franceia</i> sp.	13.00	0.14	0.00

<i>Glenodinium</i> sp.	1446.00	52.23	0.00
<i>Gonyaulax</i> sp.	783.25	15.23	0.00
<i>Guinardia flaccida</i>	80.33	1.77	0.00
<i>Gymnodinium</i> sp.	763.17	13.94	0.00
<i>Gyrodinium</i> sp.	16.25	0.18	0.00
<i>Gyrosigma</i> sp.	6.50	0.07	0.00
<i>Hemiaulis hauckii</i>	40.17	0.44	0.00
<i>Leptocylindricus danicus</i>	5061.00	91.13	0.00
<i>Leptocylindricus minimum</i>	1205.00	54.19	0.00
<i>Mallomonas</i> sp.	55.25	1.05	0.00
<i>Melosira</i> sp.	80.33	0.88	0.00
<i>Merismopedia</i> sp.	522.17	8.96	0.00
<i>Microcystis</i> sp.	55.25	0.61	0.00
<i>Minutocellus</i> sp.	321.33	23.65	0.00
<i>Navicula</i> sp. large	241.00	13.84	0.00
<i>Navicula</i> sp. small	723.00	19.02	0.00
<i>Nitzschia closterium</i>	2289.50	152.86	0.00
<i>Nitzschia delicatissima</i>	3735.50	41.09	0.00
<i>Nitzschia pungens</i>	1807.50	117.19	0.00
<i>Nitzschia</i> sp.	160.67	2.42	0.00
<i>Oscillatoria</i> sp.	48.75	0.79	0.00
<i>Peridinium</i> sp.	10724.50	227.54	0.00
<i>Pleurosigma</i> sp.	241.00	2.68	0.00
<i>Polykrikos</i> sp.	1687.00	18.54	0.00
<i>Prorocentrum gracile</i>	682.83	12.36	0.00
<i>Prorocentrum micans</i>	5342.17	125.72	0.00
<i>Prorocentrum minimum</i>	180268.00	3926.72	0.00
<i>Prorocentrum redfieldi</i>	19400.50	248.01	0.00
<i>Prorocentrum</i> sp.	7430.83	153.44	0.00
<i>Pseudopedinella</i> sp.	9037.50	99.31	0.00
<i>Pyramimonas</i> sp.	723.00	72.95	0.00
<i>Pyrophacus</i> sp.	723.00	23.39	0.00
<i>Raphidiopsis</i> sp.	241.00	3.16	0.00
<i>Rhizosolenia fragilissima</i>	482.00	10.15	0.00
<i>Rhizosolenia setigera</i>	241.00	14.30	0.00
<i>Scenedesmus</i> sp.	763.17	35.89	0.00
<i>Schizothrix calcicola</i>	80.33	2.42	0.00
<i>Schizothrix</i> sp.	723.00	7.95	0.00
<i>Skeletonema costatum</i>	48742.25	3730.86	241.00
<i>Skeletonema menezelli</i>	129176.00	4234.93	0.00
<i>Tetraedron</i> sp.	200.83	13.62	0.00
<i>Thalassionema nitzschoides</i>	602.50	21.14	0.00
<i>Thalassiosira</i> sp.	61876.75	1649.59	136.50
<i>Tricodesmium</i> sp.	175.50	2.14	0.00
Unknown bluegreen sp.	241.00	8.50	0.00
Unknown Cryptophyte sp.	45790.00	2777.84	723.00
Unknown diatom sp.	3133.00	343.62	200.83
Unknown diatom sp. 17	723.00	10.04	0.00

Unknown diatom sp. A	2410.00	95.56	0.00
Unknown diatom sp. D	104353.00	7229.80	643.50
Unknown Dinoflagellate sp.	24983.67	599.78	40.17
Unknown Green sp.	241.00	3.08	0.00
Unknown <i>Katodinium</i> sp.	15183.00	199.14	0.00
Unknown Vegetative cell sp.	482.00	10.77	0.00

Table D. Little Manatee River species list with maximum number of cells l⁻¹, mean number of cells l⁻¹ and median number of cells l⁻¹ (with coincident environmental variables)

Scientific name	Max (cells l ⁻¹)	Median (cells l ⁻¹)	Mean (cell l ⁻¹)
<i>Actinastrum hantzschii</i>	38.40	0.50	0.00
<i>Actinastrum</i> sp.	4.30	0.03	0.00
<i>Agmenellum quadrupliatum</i>	57.00	0.34	0.00
<i>Akistrodesmus acuminatus</i>	47.60	0.33	0.00
<i>Akistrodesmus convolulus</i>	20.60	0.12	0.00
<i>Akistrodesmus falcatus</i>	42.90	1.57	0.00
<i>Akistrodesmus fractus</i>	9.60	0.08	0.00
<i>Akistrodesmus gracilis</i>	7.20	0.11	0.00
<i>Akistrodesmus</i> sp.	8.20	0.10	0.00
<i>Amphidinium globosum</i>	1.40	0.01	0.00
<i>Amphidinium</i> sp.	14.30	0.14	0.00
<i>Amphiprora alata</i>	1.00	0.01	0.00
<i>Amphiprora</i> sp.	28.60	0.66	0.00
<i>Amphora cymbelifera</i>	5.10	0.04	0.00
<i>Amphora</i> sp.	97.60	0.92	0.00
<i>Anabaenopsis trichomes</i>	4.30	0.03	0.00
<i>Asterionella glacialis</i>	259.40	6.42	0.00
<i>Asterococcus superbus</i>	0.90	0.01	0.00
<i>Attheya</i> sp.	1.80	0.01	0.00
<i>Bacillaria paradoxa</i>	33.40	0.36	0.00
<i>Bacteriastrium elongatum</i>	28.60	0.17	0.00
<i>Belleriochea horologicalis</i>	5.70	0.03	0.00
<i>Biddulphia pulchella</i>	1.40	0.01	0.00
Bluegreen filamentous sp.	10.00	0.37	0.00
<i>Ceratium hircus</i>	102.40	1.56	0.00
<i>Ceratulina bergonii</i>	1085.30	19.30	0.00
<i>Chaetoceros affinis</i>	5.70	0.03	0.00
<i>Chaetoceros breve</i>	18.60	0.17	0.00
<i>Chaetoceros compressum</i>	764.00	11.95	0.00
<i>Chaetoceros curvisetus</i>	1554.10	10.07	0.00
<i>Chaetoceros danicum</i>	34.20	0.26	0.00
<i>Chaetoceros decipiens</i>	14.30	0.23	0.00
<i>Chaetoceros didymus</i>	9.20	0.11	0.00
<i>Chaetoceros diversum</i>	4.30	0.05	0.00
<i>Chaetoceros gracile</i>	1.40	0.01	0.00
<i>Chaetoceros lacinosum</i>	161.10	1.34	0.00
<i>Chaetoceros lorenzianum</i>	54.10	0.70	0.00
<i>Chaetoceros neogracile</i>	754.50	8.57	0.00
<i>Chaetoceros peruvianum</i>	2.90	0.03	0.00
<i>Chaetoceros polygonum</i>	4.30	0.03	0.00

<i>Chaetoceros simplex</i>	3.90	0.05	0.00
<i>Chaetoceros socialis</i>	666.20	20.09	0.00
<i>Chaetoceros</i> sp.	1370.90	8.97	0.00
<i>Chaetoceros subtilis</i>	2441.90	77.13	0.00
Chlorophyte colonial sp.	7.10	0.05	0.00
<i>Clostridium</i> sp.	2.90	0.02	0.00
<i>Coolia</i> sp.	6.40	0.07	0.00
<i>Corethron hystrix</i>	65.50	0.41	0.00
<i>Coscinodiscus centralis</i>	1.40	0.01	0.00
<i>Coscinodiscus concinnus</i>	1.40	0.01	0.00
<i>Coscinodiscus radiatus</i>	1.40	0.01	0.00
<i>Coscinodiscus</i> sp.	4.80	0.06	0.00
<i>Coscinosira polychorda</i>	22.80	0.20	0.00
<i>Crucigenia fenestrata</i>	4.80	0.03	0.00
<i>Crucigenia quadratus</i>	11.90	0.12	0.00
<i>Crucigenia</i> sp.	42.40	0.67	0.00
<i>Crucigenia tetrapedia</i>	7.10	0.04	0.00
<i>Cryptomonas</i> sp.	47.00	0.28	0.00
<i>Cyclotella meneghiniana</i>	974.60	6.07	0.00
<i>Cyclotella</i> sp.	2556.20	64.02	0.00
<i>Cyclotella</i> sp. (large)	3884.20	35.70	0.00
<i>Cyclotella</i> sp. (small)	4012.70	87.40	0.00
<i>Dactyliosolen mediterraneus</i>	1.40	0.01	0.00
<i>Dictyocha fibula</i>	6.40	0.12	0.00
<i>Dictyosphaerium</i> sp.	276.10	1.83	0.00
<i>Dimerogramma fluvium</i>	2.00	0.01	0.00
<i>Dinobryon</i> sp.	23.80	0.25	0.00
<i>Dinophysis caudata</i>	4.80	0.14	0.00
<i>Ebria tripartita</i>	9.40	0.13	0.00
<i>Eucampia cornuta</i>	4.30	0.06	0.00
<i>Eucampia zoodiacus</i>	15.70	0.17	0.00
<i>Euglena</i> sp.	1206.70	13.80	0.00
<i>Eutreptia</i> sp.	402.60	9.66	0.00
<i>Franceia</i> sp.	7.10	0.07	0.00
<i>Franceia tuberculata</i>	6.80	0.04	0.00
<i>Golenkinia</i> sp.	17.10	0.14	0.00
<i>Gloeocapsa</i> sp.	4.30	0.03	0.00
<i>Gonyaulax digitalis</i>	62.70	0.53	0.00
<i>Gonyaulax grindlyi</i>	4.30	0.03	0.00
<i>Gonyaulax monilata</i>	22.90	0.62	0.00
<i>Gonyaulax polyedra</i>	2.40	0.02	0.00
<i>Gonyaulax polygramma</i>	21.40	0.93	0.00
<i>Gonyaulax spinifera</i>	5.70	0.23	0.00
<i>Guinardia flaccida</i>	28.60	0.23	0.00
<i>Gymnodinium</i> sp.	211.80	5.75	0.00
<i>Gymnodinium splendens</i>	1.40	0.02	0.00
<i>Gyrosigma</i> sp.	16.60	0.24	0.00
<i>Hantzschia</i> sp.	1.40	0.01	0.00
<i>Hemiaulis hauckii</i>	8.60	0.13	0.00
<i>Hemiaulis sinensis</i>	7.20	0.04	0.00
<i>Hermesinum adriaticum</i>	2.00	0.01	0.00

<i>Heteroaulacus sphericum</i>	1.40	0.01	0.00
<i>Heterocapsa triquetra</i>	2.90	0.02	0.00
<i>Kirchneriella</i> sp.	5.30	0.03	0.00
<i>Leptocylindricus danicus</i>	91.20	1.70	0.00
<i>Leptocylindricus minimum</i>	1977.80	28.56	0.00
<i>Licmophora</i> sp.	1.40	0.01	0.00
<i>Mastogloea</i> sp.	1.00	0.01	0.00
<i>Melosira nummuloidea</i>	609.30	4.20	0.00
<i>Melosira</i> sp.	71.40	0.88	0.00
<i>Melosira varians</i>	12.80	0.13	0.00
<i>Merismopedia punctata</i>	543.10	5.67	0.00
<i>Micractinium pusillum</i>	80.90	0.61	0.00
<i>Micratinium</i> sp.	7.20	0.04	0.00
<i>Microcystis</i> sp.	4.30	0.03	0.00
<i>Navicula</i> sp.	5.10	0.12	0.00
<i>Nitzschia closterium</i>	950.10	24.35	1.10
<i>Nitzschia lineata</i>	2.40	0.01	0.00
<i>Nitzschia longissima</i>	42.90	2.73	1.40
<i>Nitzschia pulchella</i>	1.40	0.01	0.00
<i>Nitzschia pungens</i>	835.40	10.39	0.00
<i>Nitzschia rigida</i>	1.40	0.01	0.00
<i>Nitzschia seriata</i>	47.60	0.35	0.00
<i>Nitzschia sigma</i>	49.90	0.54	0.00
<i>Nitzschia</i> sp.	2.70	0.07	0.00
<i>Nostoc</i> sp.(trichomes)	30.60	0.68	0.00
<i>Ohrmidium</i> sp. (trichomes)	1.40	0.01	0.00
<i>Olisthodiscus luteus</i>	2.90	0.02	0.00
<i>Oocystis</i> sp.	20.00	0.12	0.00
<i>Oscillatoria</i> sp.	2.90	0.04	0.00
<i>Oxytoxum gigas</i>	1.40	0.01	0.00
<i>Oxytoxum longiceps</i>	1.40	0.02	0.00
<i>Oxytoxum scolopax</i>	1.00	0.01	0.00
<i>Oxytoxum</i> sp.	1.00	0.01	0.00
<i>Pediastrum borfanum</i>	4.80	0.03	0.00
<i>Pediastrum simplex</i>	14.30	0.10	0.00
<i>Pediastrum</i> sp.	2.90	0.02	0.00
<i>Peridinium aciculiferum</i>	266.50	10.64	0.00
<i>Peridinium brochii</i>	4.30	0.03	0.00
<i>Peridinium claudicans</i>	1.80	0.02	0.00
<i>Peridinium concinum</i>	11.40	0.20	0.00
<i>Peridinium crassipes</i>	2.40	0.01	0.00
<i>Peridinium depressum</i>	4.20	0.03	0.00
<i>Peridinium divergens</i>	2.40	0.03	0.00
<i>Peridinium nipponicum</i>	2.40	0.01	0.00
<i>Peridinium oblongum</i>	2.40	0.02	0.00
<i>Peridinium</i> sp.	47.10	1.32	0.00
<i>Peridinium trochoideum</i>	14.30	0.21	0.00
<i>Peridinium tuba</i>	6.10	0.13	0.00
<i>Peridinium turbo</i>	1.40	0.01	0.00
<i>Phacus pleuronectus</i>	2.90	0.03	0.00
<i>Phacus</i> sp.	4.80	0.08	0.00

<i>Phaeocystis pouchettii</i>	4.00	0.02	0.00
<i>Pleurosigma</i> sp.	14.30	0.31	0.00
<i>Polyedriopsis spinulosa</i>	4.80	0.03	0.00
<i>Prorocentrum gracile</i>	5.80	0.08	0.00
<i>Prorocentrum micans</i>	91.20	2.97	0.00
<i>Prorocentrum minimum</i>	1213.60	16.44	0.00
<i>Pyramimonas</i> sp.	163.90	2.07	0.00
<i>Rhizosolenia alata</i>	7.20	0.13	0.00
<i>Rhizosolenia calcar-avis</i>	9.50	0.17	0.00
<i>Rhizosolenia delicatula</i>	219.50	2.53	0.00
<i>Rhizosolenia fragilissima</i>	17.10	0.25	0.00
<i>Rhizosolenia hebetata</i>	1.40	0.02	0.00
<i>Rhizosolenia inermis</i>	3.50	0.02	0.00
<i>Rhizosolenia setigera</i>	88.80	2.84	0.00
<i>Rhizosolenia stolterfothii</i>	8.60	0.09	0.00
<i>Scenedesmus abundans</i>	133.20	1.08	0.00
<i>Scenedesmus acuminatus</i>	78.60	1.18	0.00

Identifying species common to all estuaries

In regard to the specific goal of identifying species common to all estuaries the SIMPER test was performed on the combined phytoplankton abundance. The SIMPER test calculates several things including the Bray – Curtis similarity (sim) or dissimilarity (diss) between samples, and the standard deviation (SD) of that distance. If the ratio of diss/SD is large for DISSIMILARITY between samples then the species is a good discriminator between communities. If the ratio of sim/SD is large for SIMILARITY then this species is typical for the community.

As recommended, I determined those species that accounted for 3% or more of the phytoplankton abundance in any one, or more, sample(s). Those species that did not meet the criteria were removed from the file for comparison of the similarities between river-stations. This is because the inclusion of rarer species in this particular SIMPER calculation is unnecessary for the very reason they are not likely to be in common between estuaries. The remaining data were transformed using the 4th root transformation.

To determine how best to compare the rivers using the SIMPER test, I performed the CLUSTER analysis on the combined river data for phytoplankton abundance. This analysis calculates the Bray-Curtis distance between samples – a method of ordination whereby similar groups are clustered together on a branch of a dendrogram. Figure A is the dendrogram for the data averaged by river-station. The three rivers form separate branches at the base of the dendrogram with the freshwater stations and the Tampa Bay stations eventually branching off for their respective rivers.

Dendrogram of the Combined Rivers Species Abundance Patterns (Transformed) Averaged by River Station

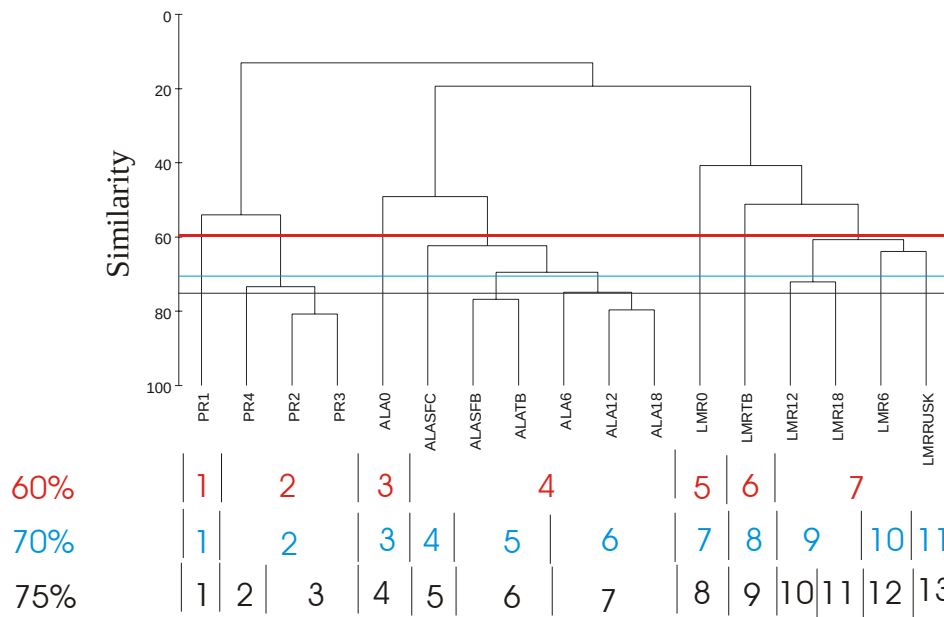
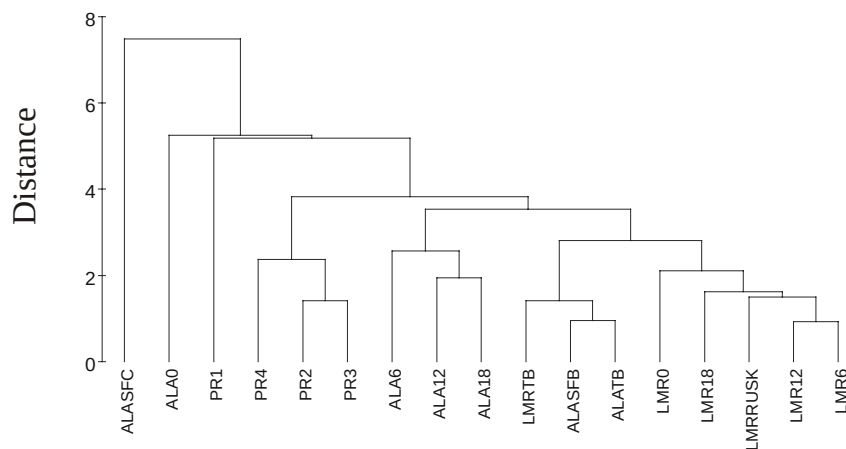


Figure A. Dendrogram of the combined rivers phytoplankton abundance patterns. This data was 4th root transformed, averaged by river-station and represents all the species. This dendrogram was used to generate the 60%, 70% and 75% similarity groupings.

Figure B. Dendrogram of the combined rivers environmental variables patterns. This data was 4th root transformed, averaged by river-station, and represents all the common environmental Variables.

Dendrogram of the Combined Rivers Environmental Variables Averaged by River Station



Artificial groupings of river-station clusters were made at the 60, 70 and 75% rank similarity levels. In essence I drew a horizontal line parallel to the X axis at the 60, 70 and 75% similarity level on the Y axis and then grouped those stations that fell on the branch intersecting that horizontal line for each grouping level (see Figure A). These artificial groupings were then added to the factors for data averaging.

At the 60% rank similarity grouping level, 7 groups were apparent – the freshwater stations for each river, the Tampa Bay station off the LMR, and all other stations within each river grouped together (Peace River lower stations, Alafia lower stations, LMR middle stations). There were 11 groups at the 70% rank similarity grouping level and 13 at the 75% rank similarity grouping level. The increase in the number of groups corresponds to the differentiation among the communities. Although every station in the LMR was different by the 75% rank similarity grouping level, it is worth noting that the mid-Peace River stations (PR2 and PR3), the mid-Alafia (ALA6, ALA12, and ALA18) and the Alafia-Bay (ALATB and ALASFB) stations still remained grouped.

The results of the SIMPER test on the species that account for 3% or more of the total abundance in any one sample are given in Appendix F. Recall this test was performed to determine those species common to all three rivers. Table E shows the species with the highest sim/SD ratio for each river station, thus being typical of that station community. Several species or taxonomic groups stand out as being common among the estuaries, specifically, *Scenedesmus* spp. (headwaters), *Skeletonema costatum* (emptying body), and flagellates (estuarine gradient stations).

Table E. List of species typical of the seven different groupings at the 60% similarity level based upon the SIMPER test results of the transformed dataset of only those species accounting for >3% of the species abundance at any one station.

ALA0

Unknown Cryptophyte sp.
Unknown diatom sp.
Unknown diatom sp. D
Thalassiosira sp.
Unknown Dinoflagellate sp.
Scenedesmus sp.
Navicula sp. small
Prorocentrum micans
Unknown bluegreen sp.
Pyramimonas sp.

All ALAFIA but ALA0

Unknown Cryptophyte sp.
Unknown diatom sp. D
Unknown diatom sp.
Skeletonema costatum
Thalassiosira sp.
Unknown Dinoflagellate sp.
Nitzschia closterium
Pyramimonas sp.
Chaetoceros sp.

LMR0

Unknown pennate diatom sp.
Skeletonema costatum
Scenedesmus quadracauda
Cyclotella sp.
Gymnodinium sp.
Schroederia setigera
Cyclotella sp. (small)
Eutreptia sp.
Scenedesmus bijinga
Nitzschia longissima
Cyclotella sp. (large)
Ankistrodesmus falcatus

LMR 6 – 12- 18 – Ruskin

Skeletonema costatum
Chaetoceros subtilis
Peridinium aciculiferum
Nitzschia longissima
Nitzschia closterium
Thalassiosira pseudonana
Unknown pennate diatom sp.
Schroederia setigera
Eutreptia sp.
Leptocylindricus minimum

LMR 6-12-18-RUSK cont.

Prorocentrum minimum
Thalassiosira sp.
Gymnodinium sp.
Schizothrix sp..
Chaetoceros socialis

LMRTB

Skeletonema costatum
Thalassionema nitzschoides
Ceratulina bergonii
Leptocylindricus minimum
Schizothrix sp.
Chaetoceros neogracile
Prorocentrum micans
Unknown pennate diatom sp.
Chaetoceros socialis
Nitzschia closterium
Rhizosolenia setigera
Ceratium hircus
Nitzschia pungens
Prorocentrum minimum
Thalassiosira sp.
Thalassiosira decipiens
Nitzschia longissima

PR1

Cryptomonas sp.1
Synechocystis aquaticus Sauvageau
Scenedesmus quadracauda v. Westii
Gonyaulax palustre
Spermatozoopsis exultans
Cryptomonas erosa
Chlymentomonas sp.
Cryptomonas ovata
Skeletonema costatum

PR 2-3-4

Skeletonema costatum
Cryptomonas sp.1
Synechocystis aquaticus Sauvageau
Chlymentomonas sp.
Peridinium cerasus
Gymnodinium simplex
Eutreptiella sp.
Spermatozoopsis exultans
Cryptomonas ovata
Gymnodinium splendens

Cluster analysis and the SIMPER test were performed on the complete dataset, after 4th root transformation, to identify those species unique to each rank similarity grouping level. In this case the entire species list was used because rarer species can be indicative of communities unique to an estuary and are thus important to include. The results of these tests are shown in Appendix I, respectively. Tables F and G show the species with the largest diss/SD ratios, or those species that are good discriminators between the groups. In some cases, these species were entirely unique to, or entirely absent from a river (e.g. where the Av. Abund. column reflects 0 for a certain species).

Table F. List of species unique to each location when compared within a river based upon presence/absence or abundance.

ALA0

Prorocentrum micans
Scenedesmus sp.

Alafia other stations distinct from ALA0

Unk. Diatom D sp.
Unk. Cryptophyte sp.
Unk. Dino sp.
Unk. Diatom sp.
Nitzschia closterium
Pyramimonas sp.
Nitzschia pungens
Chaetoceros sp.

LMR0

Unk. Pennate diatom sp.
Scenedesmus quadricana
Schroederia setigera
Nitzschia longissima

LMR 6-12-18-Rusk

Skeletonema costatum *

LMRTB

Leptocylindricus minimum
Skeletonema costatum *
Nitzschia closterium
Prorocentrum micans

PR1

Scenedesmus quadricana westii
Gonyaulax palustre
Cryptomonas sp.1

PR2/3/4

Skeletonema costatum *

* indicates numerical abundances differ, not necessarily species

Table G. List of species unique to a location when compared between rivers based on presence/absence or abundance.

ALA0

Unknown Cryptophyte sp.
Unknown Diatom sp.
Unknown Diatom sp. D
Thalassiosira sp.

LMR0

Unknown Pennate diatom
Skeletonema costatum

PR1

Cryptophyte sp. 1
Synechocystis aquaticus Savageau
Gonyaulax palustre

ALA 6-12-18-SFC-SFB

Unknown Cryptophyte sp.
Unknown Diatom sp.
Unknown Diatom sp. D
Thalassiosira sp. (*LMRRusk. and LMRTB, absent from Peace)
Skeletonema costatum (*LMR 6-12-18-Rusk)
Unknown Dinoflagellate (absent from LMR 6-12-18-Rusk and LMRTB)
Nitzschia closterium (*LMR 6-12-18-Rusk and LMRTB)
Nitzschia pungens (*LMRTB)

PR2/3/4

Cryptomonas sp.1
Synechocystis aquaticus Savageau
Chlymentomonas sp.
Peridinium cerasus

LRM6/12/18/RUSK

Skeletonema costatum *
Peridinium aciculiferum
Chaetoceros subtilis
Thalassiosira pseudonana

LMRTB

Skeletonema costatum *
Leptocylindricus minimum (absent from Peace, * Alafia)
Schizothrix sp.
Ceratulina bergonii
Chaetoceros socialis
Chaetoceros neogracile
Unknown pennate diatom
Rhizosolenia setigera
Prorocentrum micans (* Peace)
Prorocentrum minimum
Thalassionema nitzschoides (* ALA 6-12-18-SFC-SFB)

* indicates numerical abundances differ, not necessarily species

Diversity

The following diversity indices were calculated in PRIMER for the combined and individual river phytoplankton abundance files: Total number of species (S), total number of individuals (N), Margalef species richness (d), Pielou's evenness (J'), Shannon-Weiner (H') and Simpson (1-λ). The results for the combined rivers data averaged by river, river-station, month, and 60% similarity grouping are presented in Tables H, I, J and K.

Table H. Diversity indices of the combined rivers species data averaged by river

River	Diversity Indices					
	S	N	d	J'	H'(loge)	1-Lambda'
Alafia	79	50.59	19.88	0.79	3.45	0.97
Little Manatee	172	28.11	51.26	0.77	3.98	0.99
Peace	98	25.40	29.99	0.78	3.56	0.98

S= # species, N= # individuals, d= species richness (Margalef), J'= Pielou's evenness, H'= Shannon-Weiner Index, 1-lambda= Simpson Index

Table I. Diversity indices of the combined rivers species data averaged by river-station

River-station	Diversity Indices					
	S	N	d	J'	H'(loge)	1-Lambda'
ALA0	55	32.82	15.47	0.84	3.38	0.98
ALA12	41	49.78	10.24	0.83	3.08	0.95
ALA18	49	55.65	11.94	0.85	3.29	0.96
ALA6	48	47.36	12.18	0.86	3.32	0.96
ALASFB	42	54.03	10.28	0.84	3.14	0.95
ALATB	48	62.23	11.38	0.84	3.24	0.96
ALASFC	20	70.62	4.46	0.93	2.78	0.94
LMR0	62	28.11	18.29	0.86	3.56	0.99
LMR12	67	23.02	21.04	0.83	3.47	0.99
LMR6	55	25.09	16.76	0.84	3.35	0.98
LMRRUSK	83	30.04	24.10	0.81	3.56	0.97
LMRTB	102	37.78	27.81	0.83	3.85	0.99
LMR18	71	21.73	22.74	0.83	3.55	0.99
PR1	68	29.97	19.70	0.83	3.48	0.98
PR2	51	24.70	15.59	0.81	3.19	0.97
PR3	57	23.16	17.82	0.80	3.23	0.97
PR4	58	23.62	18.03	0.82	3.35	0.98

S= # species, N= # individuals, d= species richness (Margalef), J'= Pielou's evenness, H'= Shannon-Weiner Index, 1-lambda= Simpson Index

Table J. Diversity indices of the combined rivers species data averaged by month

Month	Diversity Indices					
	S	N	d	J'	H'(loge)	1-Lambda'
January	18	34.99	4.78	0.92	2.65	0.94
February	67	34.95	18.57	0.81	3.41	0.97
March	88	39.37	23.69	0.83	3.70	0.98
April	53	50.79	13.24	0.84	3.34	0.96
May	56	34.17	15.58	0.87	3.50	0.98
June	64	30.88	18.37	0.83	3.44	0.98
July	122	43.69	32.03	0.85	4.10	0.99
August	141	30.87	40.82	0.83	4.11	1.00
September	140	30.42	40.70	0.83	4.09	1.00
October	75	36.39	20.59	0.83	3.56	0.97
November	82	34.38	22.90	0.86	3.77	0.99
December	75	27.84	22.25	0.84	3.62	0.99

S= # species, N= # individuals, d= species richness (Margalef), J'= Pielou's evenness, H'= Shannon-Weiner Index, 1-lambda= Simpson Index

Table K. Diversity indices of the combined rivers species data averaged by 60% similarity grouping

Group	Diversity Indices					
	S	N	d	J'	H'(loge)	1-Lambda'
60%Grp3	55	3372.24	6.65	0.40	1.59	0.59
60%Grp5	69	33032.68	6.54	0.54	2.30	0.85
60%Grp4	20	32916.58	1.83	0.53	1.59	0.71
60%Grp6	62	4328.72	7.29	0.37	1.52	0.61
60%Grp9	92	845.14	13.50	0.40	1.79	0.65
60%Grp7	94	4101.58	11.18	0.24	1.08	0.37
60%Grp8	102	5550.88	11.71	0.30	1.40	0.55
60%Grp1	68	1000.00	9.70	0.61	2.56	0.84
60%Grp2	73	1000.00	10.42	0.51	2.19	0.79

S= # species, N= # individuals, d= species richness (Margalef), J'= Pielou's evenness, H'= Shannon-Weiner Index, 1-lambda= Simpson Index

The Little Manatee River stands out among the others in terms of diversity (S, N and d) (Table H). When averaged by river-station, the two bay stations for the Little Manatee River again show the greatest diversity measurements (Table I). The same holds true when averaged by 60% similarity groupings (Table K). The SFC station in the Alafia River shows the least diversity measurements, especially fewest species recorded, but this station was infrequently sampled during the study.

A strong seasonal trend in diversity is seen in the combined rivers data averaged by month (Table J). July, August and September – the peak months for rain and warm temperatures, exhibited the greatest diversity measurements. March also had relatively high diversity measurements - a month of transition from winters cool temperatures and shorter photoperiod.

As requested, the relationship between species richness (d) and: CHLA, COND, TP, NH₃ and NO₂+NO₃ were analyzed using simple regressions (Table L) for every sample for the

combined rivers data. None of these environmental variables were correlated with species richness. Regressions were also performed on the combined river data averaged to river-station and month, with similar results.

Table L. Combined species richness (d) versus several environmental variables

Comparison	R²
d vs. CHLA (biomass)	0.060
d vs. SAL	0.279
d vs. TP	0.000
d vs. NH ₃	0.000
d vs NO ₂ +NO ₃	0.075

Based upon the common and unique species lists, the rivers have more differences than similarities. The headwaters of each river had the most species of any other grouping, but the fewest unique species. The Little Manatee River Tampa Bay station had the greatest number of species both in common with mid-river stations for other rivers and unique to that station.

The species similarities probably lie in salinity tolerances for these species and endemism to west-central Florida and the Gulf of Mexico. Species differences are probably due to a complex combination of environmental variables.

Comparing species composition and environmental variables

In regard to the specific goal of comparing species composition and environmental variables the BIOENV test was performed using the individual and combined river files. This test required both phytoplankton abundance and environmental variable data. These data files had to match one another exactly and were, therefore, a subset of the larger, transformed, data files used for the other statistical analyses. Scatter plots with regressions for each of the environmental variables indicated that no transformations were required for the data, which was unusual. Table M provides the r^2 values of the regressions of the environmental variables.

Table M. R² values for scatter plots of the combined data for each of the environmental variables for every station over time.

Variable	R²
COLOR	0.32
COND	0.279
PH	0.06
TEMP	0.26
DO	0.119
TURB	0.0631
CHLA	0.06
TP	0.001
NO ₂ +NO ₃	0.075
NH ₃	0.001

The BIOENV test measures the null hypothesis that there is no relationship between environmental variables (abiotic factors) and phytoplankton abundance (biotic patterns). It seeks the combination of environmental variables that attains a good match (correlation) to the phytoplankton abundance ordination. In technical terms the BIOENV test evaluates the ratio MDS of abiotic:MDS of biotic. Within user-selected parameters (number of iterations, number of variables tested, and specifying which variables are always included or always excluded) BIOENV returns the variable or, more likely, the combination of variables that best ‘explain’ the phytoplankton abundance patterns.

The results of the BIOENV tests are presented in Appendices L-JJ, and summarized in Table N. The highest correlations were achieved when the data was averaged by river-station ($r^2=0.939$). However, this could not be performed for the Peace River because there were only 4 stations, resulting in insufficient degrees of freedom to make a meaningful test. So, only the Alafia and Little Manatee individual river data were averaged using river-station, excluding the Peace for that comparison.

Table N. BIOENV test results for phytoplankton species abundance and environmental variables

Rivers Measured	Correlation	Best Combination of Variables
All Rivers ¹	0.429	NO ₂ +NO ₃ , Color, Conductivity, pH
All Rivers Physical parameters only ²	0.31	Color, Turbidity, pH
All Rivers Nutrient parameters only ³	0.228	TP, NO ₂ +NO ₃
All Rivers Averaged by Station ¹	0.939	TP, NH ₃ , DO, Conductivity, pH
All Rivers Averaged by Station Physical parameters only ²	0.755	Color, pH, Temp
All Rivers Averaged by Station Nutrient parameters only ³	0.696	TP, NH ₃ , NO ₂ +NO ₃
Peace River ⁴	0.385	OP, TP, TN, DO, Salinity
Little Manatee River ⁵	0.452	TSS, Conductivity
Alafia River ⁶	0.456	NO ₂ +NO ₃ , TOC, DO, Conductivity

¹ TP NH₃ NO₂+NO₃ CHLA DO COLOR TURB COND PH TEMP

² CHLA DO COLOR TURB COND PH TEMP

³ TP NH₃ NO₂+NO₃

⁴ OP TP NO₂+NO₃ NH₃ TN CHLA DO COLOR COND PH SAL TEMP

⁵ Phaeo TP NH₃ NO₂+NO₃ CHLA TSS DO COLOR TURB COND PH TEMP

⁶ OP TP NH₃ NO₂+NO₃ Norg TOC DO DO sat COLOR TURB COND PH SAL TEMP

Combined rivers

There is a relatively low correlation for any combination of the measured environmental variables explaining the combined river phytoplankton abundance patterns ($r^2=0.429$). In fact, color, pH and NO₂+NO₃ were the only parameters in common between the overall BIOENV test ($r^2=0.429$), the BIOENV test of non-nutrient variables ($r^2=0.310$), and the BIOENV test of nutrient variables ($r^2=0.228$).

For the combined rivers, the environmental parameters measured were too variable for the combination of a few of them to explain the phytoplankton abundance patterns (i.e., high r^2 value). This may be due to the disparity in sampling dates between the three projects, seasonal variation in measurements, or the list of environmental variables that were common to all three projects used in the tests. Non-nutrient parameters were better

correlated than nutrient parameters to phytoplankton abundance patterns for the combined river data (Table N).

It is interesting that when averaged by river-station, non-nutrient variables accounted for the correlation with phytoplankton abundance patterns ($r^2=0.755$). The single nutrient that was correlated with phytoplankton patterns was NH_3 ($r^2=0.491$), preceded by a combination of TP, NH_3 and NO_2+NO_3 ($r^2=0.696$). By averaging the data to river-station, variability in environmental parameters is reduced producing greater correlation coefficients.

Individual Rivers

Examining the BIOENV results for the individual rivers, more environmental variables could be tested because the variables did not need to be in common with the other rivers. When comparing all the samples collected throughout each river, nutrients contributed the most in explaining the phytoplankton abundance patterns for both the Peace (OP, TP, TN - $r^2=0.368$) and Alafia Rivers (NO_2+NO_3 , TOC - $r^2=0.390$), but not for the Little Manatee (TP, NO_2+NO_3 - $r^2=0.220$). Like the combined river data, correlations were still low for any combination of the measured environmental variables explaining the individual river phytoplankton abundance patterns. Because these comparisons were within a river, the disparity in sampling times would not be an issue but, seasonal variability may explain the low correlation coefficients (Table N).

Substantial differences exist between the Alafia, Little Manatee and Peace Rivers, including length, watershed area, urbanization and land use. Within-river comparisons eliminate these hindrances. Spatially, the Alafia and Little Manatee rivers are most closely related, with the common emptying body of Tampa Bay.

When the Alafia and Little Manatee data were averaged by river station, (reducing variability), the role of nutrients – especially nitrogen - became much more apparent. For the Alafia, the overall BIOENV test of all environmental variables indicated a mix of nutrients and non-nutrient parameters were important (NH_3 , DO saturation, COND, and SAL - $r^2=0.952$). A similar relationship was found in the Little Manatee River (NO_2+NO_3 , CHLA, COND, PH - $r^2=0.964$).

In the Alafia River, a nutrient-only combination of NO_2+NO_3 and organic N (NORG) were still highly correlated with phytoplankton abundance patterns ($r^2=0.783$), and physical (non-nutrient) variables alone (TURB and COND - $r^2=0.945$) were too. Again, a similar relationship was found in the Little Manatee River, with NO_2+NO_3 being the single important nutrient ($r^2=0.889$), and the test of the physical variables alone revealing the combination of CHLA, COND, COLOR and PH as important ($r^2=0.929$). As a reminder, the Peace River cannot be included in the river-station averaged BIOENV analyses comparison because too few stations (degrees of freedom) were identified in the river.

The increased importance of nutrient parameters in explaining the phytoplankton abundance patterns within the Alafia and Little Manatee Rivers may be related to the fact

that they are fed by urbanized watersheds, altering the quantity and quality of stormwater drainage. Their close proximity to each other and to Tampa Bay is also a factor in nutrient – and particularly nitrogen - concentrations.

Phytoplankton Abundance Aggregated to Group Level

When these same BIOENV tests were performed using the phytoplankton abundance data that had been AGGREGATED to the “Group” taxonomic level, similar results were found (see Table O). However, TP seemed important in both Peace and Little Manatee Rivers in determining phytoplankton Group abundance patterns, while NO₂+NO₃ and NH₃ were important in the Alafia. An examination of the Group abundance patterns indicated the Peace and Little Manatee Rivers exhibited diatom abundances while the Alafia River had large numbers of Dinoflagellates, flagellates and Euglenoid species. Bluegreens and other groups were proportional between rivers. Nitrogen loading to the Alafia watershed may be favoring flagellated species. Aggregation to the Genus level did not substantially alter the BIOENV test results from that found at the species level.

Table O. BIOENV test results for phytoplankton abundance aggregated to the Group level and environmental variables

Rivers Measured	Correlation	Best Combination of Variables
All Rivers Averaged by Station ¹	0.595	CHLA, DO, TURB, Conductivity, pH
Peace River ⁴	0.341	OP, TN, CHLA, DO, SAL
Little Manatee River ⁵	0.381	Phaeo, CHLA, DO, TURB, COND
Alafia River ⁶	0.406	NH ₃ , NO ₂ +NO ₃ , TOC, DO, COND
Little Manatee River Averaged by River-station ¹	0.811	NO ₂ +NO ₃ , DO, COLOR
Alafia River Averaged by River-station ¹	0.744	NO ₂ +NO ₃ , Conductivity, pH

¹ TP NH₃ NO₂+NO₃ CHLA DO COLOR TURB COND PH TEMP

⁴ OP TP NH₃ NO₂+NO₃ TN CHLA DO COLOR COND PH SAL TEMP

⁵ Phaeo TP NH₃ NO₂+NO₃ CHLA TSS DO COLOR TURB COND PH TEMP

⁶ OP TP NH₃ NO₂+NO₃ Norg TOC DO DO sat COLOR TURB COND PH SAL TEMP

Environmental Variables Statistics

Principal Component Analysis (PCA) is an ordination method to arrange communities by measures of the similarities and dissimilarities (Euclidean distances). This ordination method generates two-dimensional (2D) plots where each sample, or grouping lies in relation to the principle components (x and y axes on a graph). In addition to their orientation to the axes, those samples or groups that are close together on a plot are similar in composition to each other and those that are far apart are different.

A list of eigenvalues for each of 5 Principle Components (PC), a list of eigenvectors for each variable measured, and a score report for each sample or grouping is generated. The eigenvalues for each PC account for a percentage of the total variation in a dataset, the eigenvectors indicate the coefficients in the linear combination of the variables used in each PC. Eigenvectors with high coefficients are important for that PC, and correlations can be either positive or negative. The relative importance of each variable or combination of variables, in explaining the overall variability of a dataset can be determined by examining the PC scores.

This statistic best lends itself to environmental data and works best when PC 1 and PC 2 explain 70% or more of the variability in the samples or groupings. The reasoning behind the latter condition is the inherent two-dimensionality of plots, there is little feeling for the third dimension when viewing these plots.

PCA results

The PCA reports are included in Appendix KK-PP. PCA was only used on the environmental variables data – both on the combined dataset and for individual rivers. Based upon the amount of variability explained by the PCA, only three data sets are discussed - the combined rivers, Alafia and Little Manatee data sets (averaged by River-station or month). Because the Peace River only had 4 river stations, PCA was not performed on the River-station averaged data.

Combined rivers

About 70% of the variability in the combined rivers environmental variables averaged by month was explained by the first two PC's (Table P). Strong eigenvectors are those nearest to ± 1 and weak eigenvectors are closest to zero. There were no strong or weak eigenvectors for PC1 indicating that a combination of most of the variables was important for this entire dataset, however, the weakest eigenvector was for TURB and the strongest was for DO. PC2 did have some strong eigenvectors for TURB and CHLA, which were positively correlated, and PH and $\text{NO}_2 + \text{NO}_3$, negatively correlated.

Table P. PCA results for the combined rivers environmental data averaged by month.

PCA

Principal Component Analysis

Worksheet

File: chemcompositecombinedriversavgbymonth

Sample selection: All

Variable selection: All

Eigenvalues

PC	Eigenvalues	%Variation	Cum.%Variation
1	5.13	51.3	51.3
2	1.90	19.0	70.4
3	1.37	13.7	84.1
4	0.99	9.9	94.0
5	0.33	3.3	97.3

Eigenvectors

(Coefficients in the linear combinations of variables making up PC's)

Variable	PC1	PC2	PC3	PC4	PC5
TP	0.276	-0.274	0.340	-0.492	0.049
NH3	0.311	0.199	0.067	0.553	0.552
N23	-0.302	-0.419	0.224	0.174	0.442
CHLA	-0.241	0.416	0.473	-0.134	0.266
DO	-0.421	-0.050	0.166	0.119	-0.271
COLOR	0.374	-0.083	0.362	0.279	-0.111
TURB	-0.119	0.626	0.323	-0.110	-0.114
COND	-0.335	0.105	-0.418	-0.263	0.486
PH	-0.314	-0.352	0.404	-0.014	0.062
TEMP	0.368	-0.010	0.073	-0.480	0.296

Principal Component Scores

Sample	SCORE1	SCORE2	SCORE3	SCORE4	SCORE5
1	-3.829	-2.936	0.811	0.452	0.576
2	-2.799	2.989	1.870	0.187	-0.043
3	-1.701	0.159	0.455	0.343	0.097
4	-0.464	-0.771	-0.860	-1.325	-0.382
5	-0.954	-0.075	-0.520	-1.199	-0.546
6	0.495	1.135	-0.707	-1.431	0.571
7	2.882	0.226	-0.171	0.383	1.280
8	2.931	-0.904	1.447	-0.316	-0.588
9	3.541	-0.410	1.257	0.713	-0.278
10	0.271	-0.237	-0.349	-0.568	-0.098
11	0.081	0.545	-1.883	0.928	0.091
12	-0.455	0.277	-1.349	1.832	-0.680

When averaged by river-station, 65% of the variability in the combined rivers data set was explained in the first two PC's – which is poor (Figure C, Appendix OO). The environmental variables that were measured do not well characterize the different river-stations two dimensionally. The strongest eigenvectors for PC1 were TURB, CHLA and DO – all positively correlated. The strongest eigenvectors for PC2 were TP, NO₂+NO₃, and TEMP and all these were inversely related to COND.

PCA of the environmental parameters common to all rivers averaged by river-station.

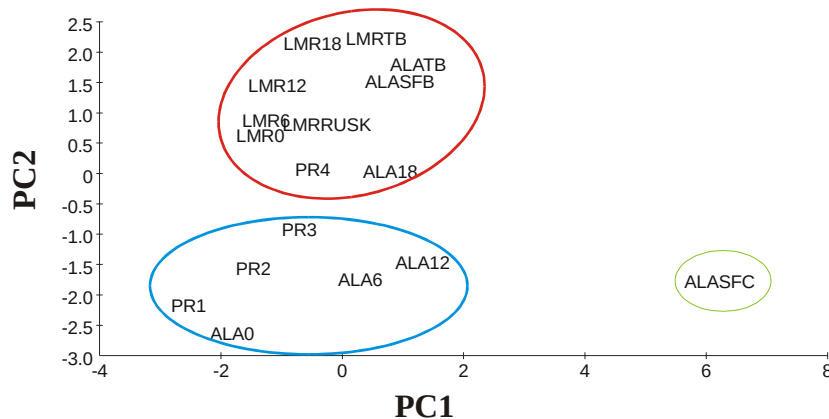


Figure C. PCA graph of PC1 vs. PC2 for the combined rivers environmental variables averaged by river-station. This graph represents only those variables that were common to all the rivers; TP, NH₃, NO₂+NO₃, CHLA, DO, COLOR, TURB, COND, PH, TEMP. Where possible circles are drawn around apparent clusters of river-stations similar in composition.

Individual rivers

The individual river environmental variables data for the Alafia and the Little Manatee were also averaged by river station. More than 90% of the variability in the Alafia dataset was explained by the first two PC's (Figure D, Table Q) – which is excellent.

Unfortunately, there were no strong eigenvectors for PC1. A combination of the variables best explains the variability, the strongest PC1 eigenvectors were PH, TURB, DO sat, Norg and TEMP, all of which were negatively correlated and NH₃ which was positively correlated. For PC2, the strongest eigenvectors were for OP, TOC, and TP which were negatively correlated and COND and SAL, which were positively correlated.

PCA of the environmental variables for the Alafia River alone, averaged by river-station

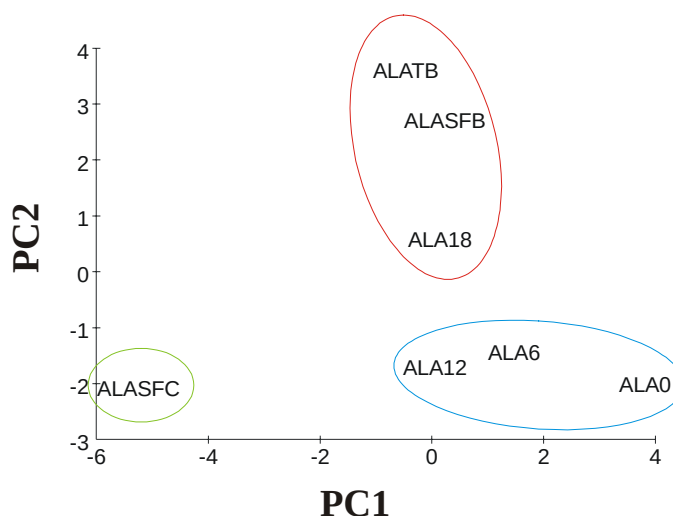


Figure D. PCA graph of the PC1 vs. PC2 for the Alafia River environmental variables averaged by river-station. This graph represents the following variables; OP, TP, NH₃, NO₂+NO₃, Norg, TOC, DO, Dosat, COLOR, TURB, COND, PH, SAL. Where possible circles are drawn around apparent clusters of river-stations similar in composition.

Table Q. PCA results for the Alafia River only averaged by river station.

PCA

Principal Component Analysis

Worksheet

File: alafiachemBIOENV.pri

Sample selection: All

Variable selection: All

Eigenvalues

PC	Eigenvalues	%Variation	Cum.%Variation
1	7.42	53.0	53.0
2	5.69	40.6	93.6
3	0.52	3.7	97.3
4	0.24	1.7	99.0
5	0.10	0.7	99.7

Eigenvectors

(Coefficients in the linear combinations of variables making up PC's)

Variable	PC1	PC2	PC3	PC4	PC5
OP	-0.041	-0.415	-0.022	0.131	-0.141
TP	0.128	-0.321	-0.655	0.507	0.286
NH3	0.309	-0.220	0.071	-0.118	-0.234
N23	0.284	-0.225	0.378	0.199	0.528
Norg	-0.323	-0.171	0.328	0.139	0.103
TOC	-0.098	-0.371	-0.382	-0.519	-0.136
DO	-0.280	-0.267	0.037	-0.224	-0.023
DO sat	-0.328	-0.184	0.107	-0.052	0.110
COLOR	0.263	-0.277	0.195	-0.238	0.056
TURB	-0.339	-0.145	0.161	-0.072	0.340
COND	-0.237	0.316	-0.167	0.006	0.069
PH	-0.344	-0.133	-0.160	-0.092	0.245
SAL	-0.231	0.323	-0.114	-0.001	0.174
TEMP	-0.308	-0.182	0.163	0.510	-0.556

Principal Component Scores

Sample	SCORE1	SCORE2	SCORE3	SCORE4	SCORE5
ALA0	3.812	-1.970	0.417	0.396	0.384
ALA12	0.056	-1.661	-1.378	-0.265	0.013
ALA18	0.142	0.635	-0.476	0.562	-0.300
ALA6	1.474	-1.397	0.737	-0.483	-0.486
ALASFB	0.230	2.768	0.041	-0.706	0.293
ALATB	-0.469	3.653	0.192	0.399	-0.058
ALASFC	-5.245	-2.030	0.467	0.098	0.153

For the Little Manatee River, more than 75% of the variability was explained in the first two PC's (Figure E, Table R). As with the Alafia River, a combination of the variables best explains the variability. The strongest PC1 eigenvectors were COLOR, NO₂+NO₃, and CHLA which were positively correlated and COND, TSS and PH which were negatively correlated. DO and TURB were inversely correlated to NH₃ and had the strongest eigenvectors on PC2.

PCA of the environmental variables for the Little Manatee River alone, averaged by river-station

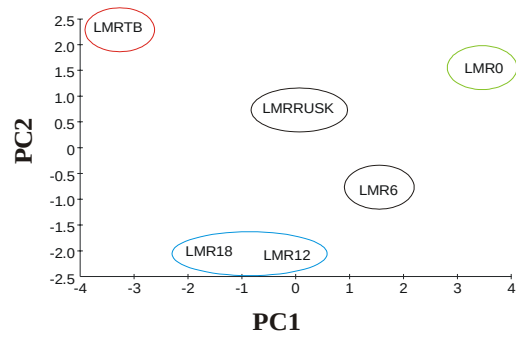


Figure E. PCA graph of the PC1 vs PC2 for the Little Manatee River environmental variables averaged by river-station. This graph represents the following variables; PHAEO, TP, NH3, NO2+NO3, CHLA, TSS, DO, COLOR, TURB, COND, PH, TEMP. Where possible circles are drawn around apparent clusters of river-stations similar in composition

Table R. PCA results for the Little Manatee River averaged by river-station.

PCA Principal Component Analysis

Worksheet

File: K:\3 Rivers\LMR\mbnfiles\LMR PRIMER\LMRChemOKwithspeciesBIOENVavg
by station.pri
Sample selection: All
Variable selection: All

Eigenvalues

PC	Eigenvalues	%Variation	Cum.%Variation
1	5.61	46.7	46.7
2	3.50	29.2	75.9
3	1.58	13.1	89.1
4	1.22	10.1	99.2
5	0.09	0.8	100.0

Eigenvectors

(Coefficients in the linear combinations of variables making up PC's)

Variable	PC1	PC2	PC3	PC4	PC5
Phaeo	0.105	0.317	-0.057	0.689	0.182
TP	-0.213	0.241	-0.555	-0.111	-0.672
NH3	0.182	-0.459	-0.214	-0.024	0.157
N23	0.384	0.170	0.180	-0.083	-0.341
CHLA	0.354	0.240	-0.161	-0.214	-0.049
TSS	-0.349	0.280	-0.039	0.175	0.017
DO	0.057	0.405	0.058	-0.567	0.349
COLOR	0.415	0.081	-0.079	-0.008	0.048
TURB	0.149	0.482	-0.066	0.205	0.163
COND	-0.421	-0.022	0.045	0.026	0.039
PH	-0.366	0.211	-0.055	-0.253	0.309
TEMP	0.081	-0.133	-0.751	0.013	0.352

Principal Component Scores

Sample	SCORE1	SCORE2	SCORE3	SCORE4	SCORE5
LMR0	3.489	1.589	1.315	0.107	-0.126
LMR12	-0.164	-2.046	-0.596	0.214	-0.505
LMR6	1.537	-0.777	-1.270	1.193	0.361
LMRRUSK	0.046	0.810	-1.134	-1.939	0.083
LMRTB	-3.301	2.387	-0.016	0.827	-0.058
LMR18	-1.608	-1.963	1.701	-0.403	0.245

MDS results

MDS, non-metric multidimensional scaling is another ordination technique (non parametric linear regression) that can be used to graphically represent either environmental or biological data. MDS can be more useful than PCA because it preserves distance relationships between samples or groups. MDS doesn't use Euclidean distance like PCA, but instead uses the Bray-Curtis dissimilarity coefficient. Those samples or groups that are close together on the plot are similar in composition

(community or parameter), those that are far apart are different in composition (community or parameter).

Both 2 dimensional and 3 dimensional graphics result from this test in the PRIMER program, however, only the 2 dimensional graphics are presented here. Because the distances on the 2D plot are representative of the Bray-Curtis dissimilarity coefficient, you can get a feel for the 3 dimensionality of the data by evaluating the stress level reported in the upper right of each graphic. For such 2D graphics it is best to have stresses <0.1, indicating the results are a relatively good fit for a 2D plot. Stresses between 0.1-0.2 indicating the MDS results are only acceptable for 2D plots. Stresses >0.3 are suitable only for 3D plots. In fact, all the MDS plots presented in this publication have low stress values and thus are well depicted 2 dimensionally.

The MDS plot for species abundance patterns combined for all rivers show a distinct clustering by river (Figure G.). This indicates the species found and their patterns of abundance are quite unique to each river and more similar in composition within a river. When examining the MDS plot for environmental variables (Figure F), however, the MDS is less clearly clustered by river – although individual river-stations can still be discerned. Specifically, there is a cluster representing the Peace River station 4, the Alafia River stations 18, SFB and TB, and all of the Little Manatee River stations. There is another cluster of the other three Peace River stations. A third cluster representing the Alafia 0, 6 and 12 stations, and a final cluster represented only by station Alafia SFC.

MDS of the combined rivers environmental
Parameters averaged by river-station

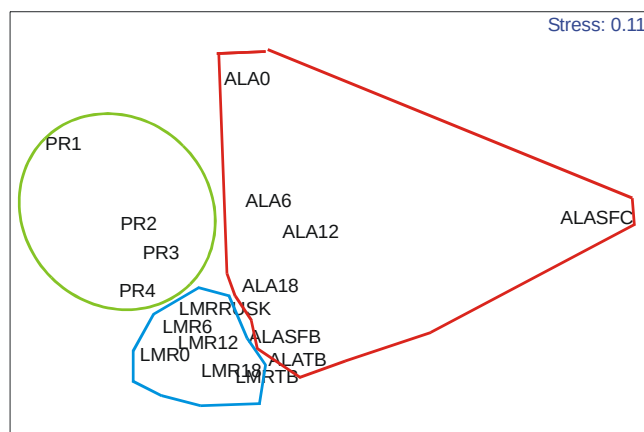


Figure F. MDS graph of the combined rivers environmental variables averaged by river-station. The stress is within the acceptable range for a 2D graphical representation of the data. River-stations similar in composition are clustered, and those that are different are separate. The rivers are depicted within the three colored enclosures.

MDS of the combined rivers species abundance averaged by river-station

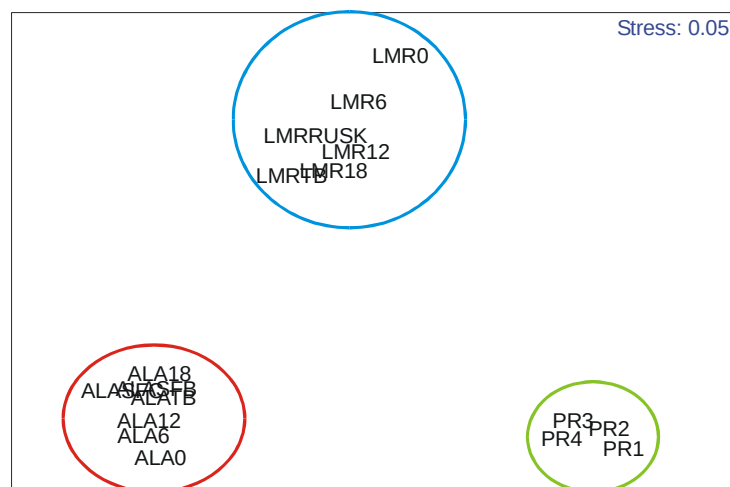


Figure G. MDS graph of the combined rivers phytoplankton abundance averaged by river-station. The stress is within the desired range for a 2D graphical representation of the data. River-stations similar in composition are clustered, and those that are different are separate. The rivers are depicted within the three colored enclosures.

For the individual river data, averaged by river station, the trends generally followed the salinity gradients as shown in Figure H for the Alafia River environmental parameters. Aside from ALASFC being an outlier, the salinity gradient accurately depicts the patterns found in the other combined environmental variables. A similar pattern is found for the species abundance plot (Figure I), with the exception that stations TB and 18 form a tight cluster as do stations 6 and 12. Again, station SFC is an outlier, but SFB and 0 are in close proximity to the other stations indicating similarity in composition.

MDS of Alafia River environmental parameters Averaged by river-station

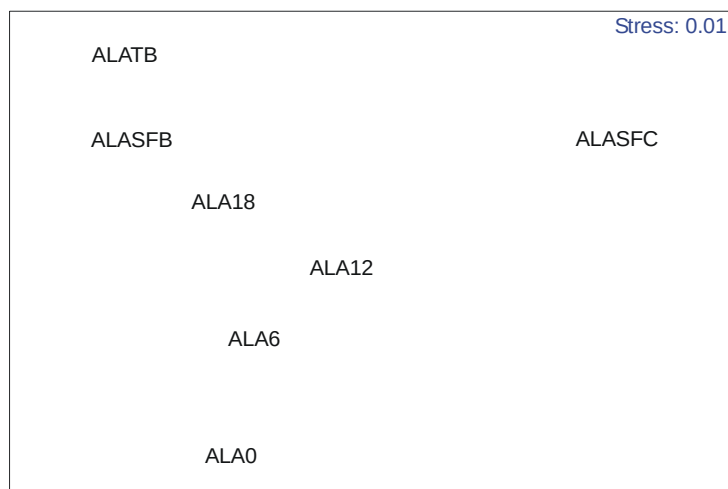


Figure H. MDS graph of the Alafia River environmental variables averaged by river-station. The stress is within the desired range for a 2D graphical representation of the data. River-stations similar in composition are clustered, and those that are different are separate. No clusters can be identified on this graphic.

MDS of Alafia River species abundance Averaged by river-station

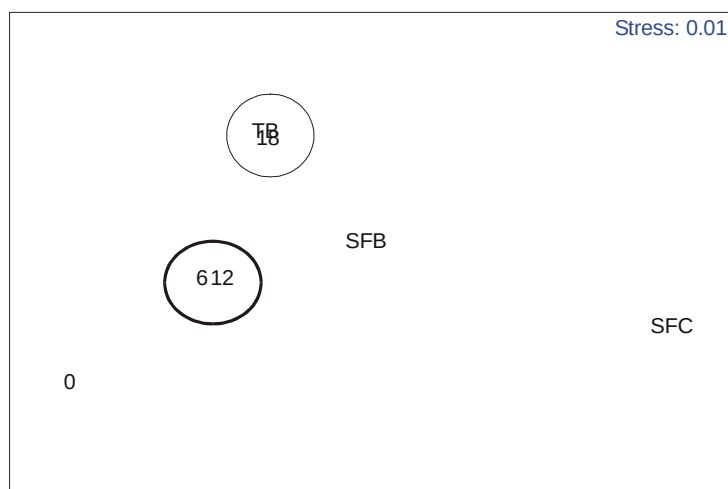


Figure I. MDS graph of the Alafia River phytoplankton abundance averaged by river-station. The stress is within the desired range for a 2D graphical representation of the data. River-stations similar in composition are clustered, and those that are different are separate. Circles are drawn around river-stations (6-12, TB-18) that are considered clustered.

The Little Manatee River MDS plot for the environmental variables generally follows the salinity gradient, indicating that the other environmental variables measured as a group tend to covary with salinity (Figure J). Stations LMR0 and LMRTB are distinct on the environmental variable plot, but there is an apparent weak association between LMR 12 and 18, and LMR RUSK and 6. These associations strengthen on the MDS plot for the Little Manatee River species abundance patterns (Figure K.). LMR 12 and 18 form a cluster, as do LMR RUSK and 6 – bounded on either side by LMRTB and LMR0 which are distinct. Although it is intuitive that LMR 12 and 18 might be similar in composition to each other due to their proximity and estuarine salinities, the association between LMR RUSK and 6 is not clear. However, this association persists even on the CLUSTER analysis dendrograms for species abundance data presented earlier in the report (Figure A), and for environmental variables (not shown).

MDS of Little Manatee River environmental Parameters averaged by river-station

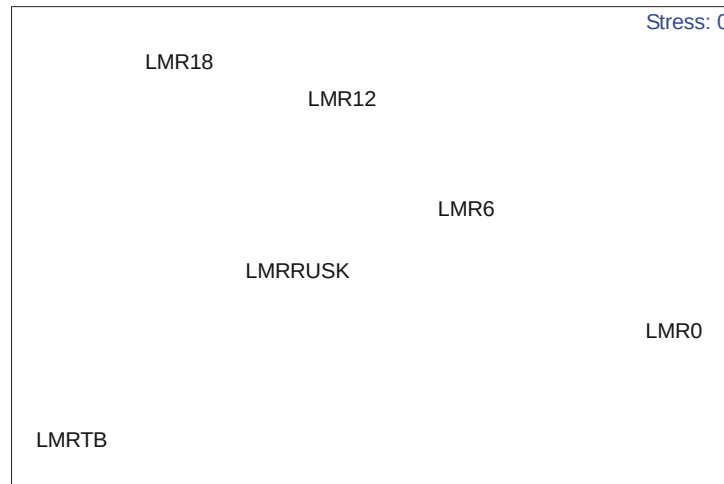


Figure J. MDS graph of the Little Manatee River environmental variables averaged by river-station. There is no stress in this figure indicating it is a 2D graphical representation of the data. River-stations similar in composition are clustered, and those that are different are separate. No clusters can be identified on this graphic.

MDS of Little Manatee River species abundance
averaged by river-station

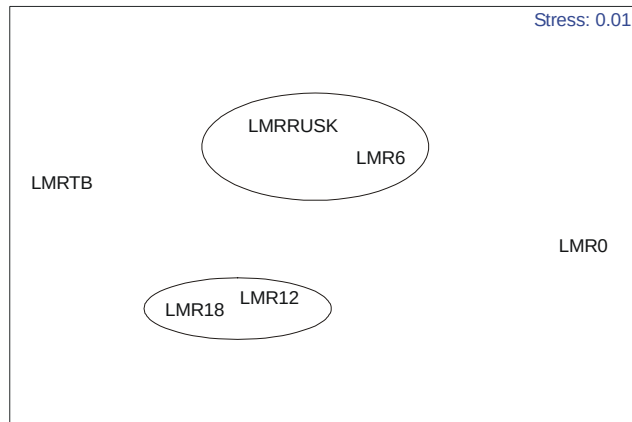


Figure K. MDS graph of the Little Manatee River phytoplankton abundance averaged by river-station. The stress is within the desired range for a 2D graphical representation of the data. River-stations similar in composition are clustered, and those that are different are separate. Circles are drawn around river-stations (6-RUSK, 12-18) that are considered clustered.

MDS of Peace River environmental
Parameters averaged by river-station



Figure L. MDS graph of the Peace River environmental variables averaged by river-station. There is no stress in this figure indicating it is a 2D graphical representation of the data. River-stations similar in composition are clustered, and those that are different are separate. No clusters can be identified on this graphic

MDS of Peace River species abundance
Averaged by river-station

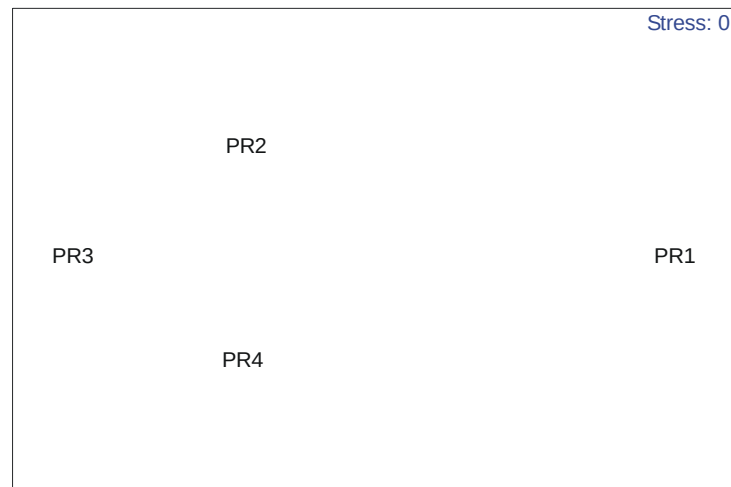


Figure M. MDS graph of the Peace River phytoplankton abundance averaged by river-station. The stress is within the desired range for a 2D graphical representation of the data. River-stations similar in composition are clustered, and those that are different are separate. No clusters can be identified on this graphic.

The MDS plots for the Peace River environmental parameters and species abundance are nearly identical, except for the reversal of stations 3 and 4 (Figures L and M). Again, the salinity gradient well depicts the other environmental variables and the species abundance patterns, noting the mid- and lower-river stations are most similar in composition. Stations cannot be clustered, but instead are spread apart on the graph indicating their differences from each other.

MDS of All Combined River Data with CHLA values highlighted with bubbles

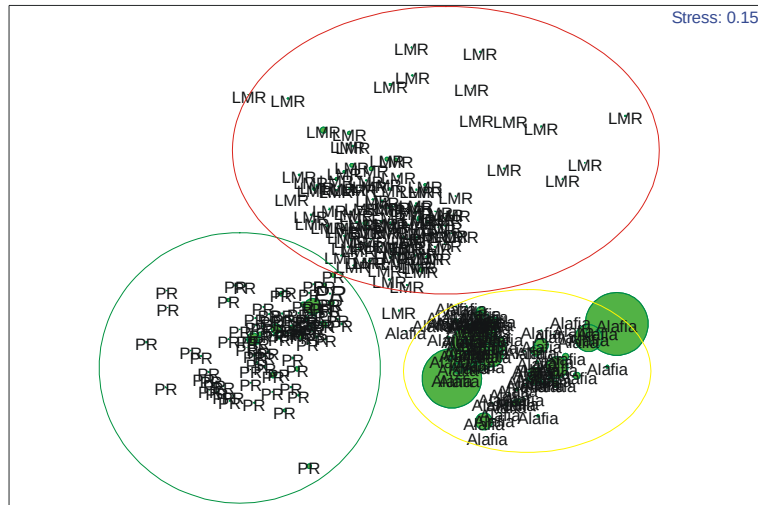


Figure N. MDS graph of the combined rivers phytoplankton abundance with CHLA peaks overlaid in the green bubbles. The size of the bubble is proportional to the chlorophyll value and in this instance indicates that chlorophyll a values are not well correlated with species abundance patterns. The stress is within the acceptable range for a 2D graphical representation of the data. Stations similar in composition are clustered, and those that are different are separate. The rivers are depicted within the three colored enclosures.

Phytoplankton abundance versus chlorophyll *a*

Simple regressions between phytoplankton species abundance and CHLA were performed on the entire combined river data, the combined river data averaged by month and by river-station and the individual rivers. There was no relationship between these parameters. MDS plots of species abundance with CHLA overlaid also did not reveal any relationships between these two parameters (Figure N). The samples from each river do form clusters indicating the similarity of their species abundance and composition.

Phytoplankton abundance versus other environmental variables

Although not specifically requested to do so, simple regressions between phytoplankton species abundance and the other environmental variables were performed on the entire

combined river data. MDS plots of species abundance with each parameter overlaid (not shown) did not reveal any clear relationships between these variables and species abundance.

SUMMARY

The combined species lists for all three rivers included 512 species or taxonomic classifications. Of these, 302 species came from samples with coincident 10 common environmental variable measurements (COLOR, COND, PH, TEMP, DO, TURB, CHLA, TP, NO₂+NO₃, and NH₃). Species lists with minimum, maximum, mean and median values for individual rivers are also provided. More than 300 files were created in PRIMER to test the combined and individual river data sets using the CLUSTER, SIMPER, BIOENV, PCA and MDS tests. These tests were most often performed on data averaged to the river-station, month, river, or 60% species abundance similarity grouping level. The latter grouping level recognized 7 groups with the headwaters of each river alone, the LMRTB station alone, and the remaining river stations grouped by river.

The SIMPER test was used 2 different ways (restricted only to those species accounting for >3% of species abundance in any one sample and then 4th root transformed, full species list 4th root transformed) to determine the species typical of, and unique to a location (60% similarity grouping level). While all evidence indicates the rivers are quite distinct from each other in both species abundance and environmental variables, some common species or taxonomic classifications were apparent. *Scenedesmus* spp. were common to the headwaters of the rivers, *Skeletonema costatum* was common to the receiving bay waters, and flagellates (including euglenoids, dinoflagellates, prymnesiophytes and cryptomonads) were common to the estuarine gradients within the rivers. A few species were found to be entirely unique to a location or river, or differ substantially in abundance as to be considered a good discriminator between the tested locations.

When analyzed by river, the Little Manatee River had the most species, followed by the Peace and then the Alafia rivers. However, the Alafia had the most numbers of each species, followed by the Little Manatee and Peace rivers. This same trend held true when the species abundances were lumped at the major taxonomic group levels.

If averaged by river-station, the LMRTB station had the highest number of species, followed by the other LMR stations and then the Peace stations. The Alafia River stations had the fewest species, with a trend in increasing species number from the bay waters to the headwaters. The reverse trend was noted in species abundances with decreasing abundances at the head-waters.

Diversity indices differed by month for the combined rivers. The peak in number of species was found between July and September, with a smaller peak in March. December and January had the fewest number of species found for the combined rivers. The peaks in species abundances were in April and July – just immediately after the

spring bloom and at the start of the summer-fall bloom. Species richness (d) was not correlated with chlorophyll a, salinity or any nutrients.

The BIOENV test results related environmental parameters with species abundance patterns. Tests using the combined river data had low correlations in general between the environmental (abiotic) variables and species abundance (biotic), but the non-nutrient variables alone showed a higher correlation than the nutrients. Similar results were found when the species abundances were lumped into the major taxonomic groupings. When the data was averaged by river-station, higher correlations resulted because of reduced variability between comparisons.

Individual river BIOENV tests indicated a mix of nutrient and non-nutrient variables best explained the phytoplankton abundance patterns. As before, averaging to river-station increased the correlation coefficient and non-nutrient variables were most important along with Norg, and $\text{NO}_2 + \text{NO}_3$ on the Alafia River. The Peace River could not be tested this way due to the low number of degrees of freedom.

When the phytoplankton abundance data is aggregated into the major taxonomic groups similar BIOENV results were generated. However, TP then became important in the Peace and Little Manatee Rivers and $\text{NO}_2 + \text{NO}_3$ became important in the Alafia. After an examination of the groups and abundances for these rivers, diatoms seemed to dominate the Peace and Little Manatee Rivers, while flagellates and euglenoids dominated the Alafia. This could be due to excessive N-loading of the Alafia, which may favor these flagellates.

Principle Component Analysis conducted on the combined river data and that for individual rivers indicates that the first two PC's do not explain much of the variability between samples (<70% variability explained considered poor). When averaged by month or by river-station acceptable or borderline acceptable amounts of variability were explained by the first 2 PC's.

PCA was also conducted on the Alafia and Little Manatee rivers, individually. The headwaters of the Alafia was defined by NH_3 and station SFC was characterized by COLOR, PH, TURB, DOSat, Norg and TEMP on the first PC. PC2, affecting the lower and bay stations, COND, SAL and TP were characteristic. A very high 93% of the variability was explained using the first two PC's.

On the Little Manatee River, 75% of the variability was explained by PC1 and PC2. Stations 0 and 6 were characterized by COLOR, $\text{NO}_2 + \text{NO}_3$, and CHLA. COND, TSS and PH characterized the TB and 18 stations. These variables defined PC1. PC2 was defined by DO and TURB, characteristic of stations 0, RUSK and TB, and NH_3 was characteristic of stations 6 through 18.

Non-metric multidimensional scaling (MDS) tests were conducted on both the environmental variables and the phytoplankton abundance data for the combined rivers and for the individual rivers (including the Peace). All MDS graphics shown had

acceptable stress levels indicating a relatively 2D representation of the data. The phytoplankton abundance data reveals 3 distinct clusters of samples, each cluster representative of each of the rivers. The MDS for the environmental variables also indicates clusters but they are less clear and do not define the rivers with the possible exception of the Peace.

MDS for the Alafia River environmental variables show a relationship between the river stations, but no clustering, with SFC being the exceptional outlier. Species abundance data for this river show stations 6 and 12 forming a tight cluster, and stations TB and 18 another tight cluster. To reiterate, clustering is an indication of similarity of composition between stations.

No clusters were evident in the MDS of the Little Manatee River environmental variables, but stations RUSK and 6 were close to each other as were stations 12 and 18. This pattern was more apparent in the species abundance MDS. The relationship between 12 and 18 is probably due to salinity gradients and general proximity in the field, but reason for the relationship between RUSK and station 6 is not known.

Peace River stations were quite distinct from each other on the MDS for both the environmental variables and for the species abundances. Station PR1 seemed to be spaced farther from the upper-river stations. The environmental parameters were overlaid on the MDS plots for the combined river species abundance data in bubble plots in an attempt to correlate these parameters, however, no correlations were found.

Appendix A. List of species identified in the Alafia, Little Manatee and Peace Rivers for stations that had coincident environmental variable measurements.

Scientific Name

Actinastrum hantzschii
Actinastrum sp.
Actinopterychus undulatus
Agmenellum quadrupliatum
Akistrodesmus acuminatus
Akistrodesmus convolulus
Akistrodesmus falcatus
Akistrodesmus fractus
Akistrodesmus gracilis
Akistrodesmus sp.
Amphidinium crassum
Amphidinium globosum
Amphidinium sp.
Amphiprora alata
Amphiprora sp.
Amphora cymbelifera
Amphora sp.
Anabaena sp.
Anabaena spiroides v. *crassa*
Anabaenopsis sp.
Anabaenopsis trichomes
Apedinella radians
Aphanocapsa sp.
Asterionella glacialis
Asterionella japonica
Asterococcus superbus
Attheya sp.
Bacillaria paradoxa
Bacillaria sp.
Bacteriastrum elongatum
Bacteriastrum sp.
Bellerochea horologicalis
Biddulphia pulchella
Biddulphia sinensis
Bluegreen filamentous sp.
Calycomonas ovalis
Centritractus aff. *Belonophorus*
Cerataulina bergonii large
Cerataulina bergonii small
Ceratium fusus
Ceratium hircus
Ceratulina bergonii
Ceratulina pelagica
Chaetoceros affinis
Chaetoceros breve
Chaetoceros compressum
Chaetoceros curvisetus
Chaetoceros danicum

Chaetoceros decipiens
Chaetoceros didymus
Chaetoceros diversum
Chaetoceros gracile
Chaetoceros laciniosum
Chaetoceros lorenzianum
Chaetoceros muelleri
Chaetoceros neogracile
Chaetoceros peruvianum
Chaetoceros polygonum
Chaetoceros simplex
Chaetoceros socialis
Chaetoceros sp.
Chaetoceros subtilis
Chaetosphaeridium sp.
Chlamydomonas sp.
Chlamydomonas sphagnicola
Chlorophyte colonial sp.
Chlymentomonas sp.
Chroococcus limneticus v. *subsalsu*
Chroococcus minutus
Chroococcus sp.
Closterium sp.
Clostridium sp.
Coelosphaerium sp.
Coolia sp.
Corethron hystrix
Coscinodiscus centralis
Coscinodiscus concinnus
Coscinodiscus eccentricus
Coscinodiscus radiatus
Coscinodiscus sp.
Coscinosira polychorda
Crucigenia fenestrata
Crucigenia quadratus
Crucigenia sp.
Crucigenia tetrapedia
Cryptomonas curvata
Cryptomonas erosa
Cryptomonas ovata
Cryptomonas sp.
Cryptomonas sp.1
Cyclotella meneghiniana
Cyclotella sp.
Cyclotella sp. (large)
Cyclotella sp. (small)
Cyclotella undulata
Cymbella sp.
Dactylosolen mediterraneus
Dictyocha fibula
Dictyosphaerium sp.
Dimerogramma fluvum

Dinobryon sp.
Dinophysis caudata
Diploneis sp.
Ebria tripartita
Entomoneis alata
Eucampia cornuta
Eucampia zoodiacus
Euglena acus
Euglena elastica
Euglena sp.
Euglena spiroyra
Eutreptia sp.
Eutreptiella sp.
Fragilaria oceana
Franceia sp.
Franceia tuberculata
Glenodinium sp.
Gloenkia sp.
Gloeocapsa sp.
Gonyaulax digitalis
Gonyaulax grindlyi
Gonyaulax monilata
Gonyaulax palustre
Gonyaulax polyedra
Gonyaulax polygramma
Gonyaulax scrippsae
Gonyaulax sp.
Gonyaulax spinifera
Guinardia flaccida
Gymnodinium simplex
Gymnodinium sp.
Gymnodinium splendens
Gyrodinium sp.
Gyrosigma sp.
Gyrosigma sp.1
Gyrosigma sp.2
Hantzschia sp.
Hemiaulis hauckii
Hemiaulis sinensis
Hermesinum adriaticum
Heteroaulacus sphericum
Heterocapsa triquetra
Kirchneriella sp.
Leptocylindricus danicus
Leptocylindricus minimum
Licmophora sp.
Lyngbya contorta (trichome)
Mallomonas acaroides
Mallomonas sp.
Mastogloea sp.
Melosira granulata
Melosira nummuloidea

Melosira sp.
Melosira varians
Merismopedia glauca
Merismopedia punctata
Merismopedia sp.
Micractinium pusillum
Micratinium sp.
Microcystis sp.
Minutocellus sp.
Navicula sp.
Navicula sp. large
Navicula sp. small
Nitzschia closterium
Nitzschia delicatissima
Nitzschia fruticosa
Nitzschia lineata
Nitzschia longissima
Nitzschia palea
Nitzschia pulchella
Nitzschia pungens
Nitzschia reversa
Nitzschia rigida
Nitzschia seriata
Nitzschia sigma
Nitzschia sp.
Nitzschia tryblionella
Nostoc sp.(trichomes)
Ohrmidium sp. (trichomes)
Olisthodiscus luteus
Oocystis sp.
Oscillatoria rubescens (trichome)
Oscillatoria sp.
Oxytoxum gigas
Oxytoxum longiceps
Oxytoxum scolopax
Oxytoxum sp.
Paralia sulcata
Pediastrum borfanum
Pediastrum simplex
Pediastrum sp.
Peridinium aciculiferum
Peridinium brochii
Peridinium cerasus
Peridinium claudicans
Peridinium concinum
Peridinium crassipes
Peridinium depressum
Peridinium divergens
Peridinium nipponicum
Peridinium oblongum
Peridinium sp.
Peridinium trochoideum

Peridinium tuba
Peridinium turbo
Phacus pleuronectus
Phacus sp.
Phacus torta
Phaeocystis pouchettii
Phormidium fragile (trichome)
Pleurosigma sp.
Polyedriopsis spinulosa
Polykrikos sp.
Polykrikos swartzii
Prorocentrum gracile
Prorocentrum micans
Prorocentrum minimum
Prorocentrum redfieldi
Prorocentrum sp.
Protococcus viridis
Protoperidinium conicum
Pseudopedinella sp.
Pyramimonas sp.
Pyrophacus sp.
Raphidiopsis sp.
Rhizosolenia alata
Rhizosolenia calcar-avis
Rhizosolenia delicatula
Rhizosolenia fragilissima
Rhizosolenia hebetata
Rhizosolenia inermis
Rhizosolenia setigera
Rhizosolenia stolterfothii
Rhizosolenia styliformis
Scenedesmus abundans
Scenedesmus abundans v. *brevicauda*
Scenedesmus acuminatus
Scenedesmus acutus
Scenedesmus arcuatus
Scenedesmus bijinga
Scenedesmus bijuga v. *alternans*
Scenedesmus denticulus
Scenedesmus quadracauda
Scenedesmus quadracauda v. *Westii*
Scenedesmus sp.
Schizothrix calcicola
Schizothrix sp.
Schroederia anchora
Schroederia setigera
Scrippsiella sp.
Selenastrum gracile
Selenastrum sp.
Skeletonema costatum
Skeletonema menezelli
Sorastrum spinulosum

Spermatozoopsis exultans
Spirulina laxa
Spirulina sp. (trichomes)
Spirulina sp.1
Stauroastrum paradoxym
Stauroastrum sp.
Stephanodiscus sp.
Synechocystis aquaticus Sauvageau
Synedra sp.
Tetraedron sp.
Tetrastrum heterocontum
Tetrastrum sp.
Tetrastrum staurogeniaeforme
Thalassionema nitzschoides
Thalassiosira aestivalis
Thalassiosira alleni
Thalassiosira decipiens
Thalassiosira gravida
Thalassiosira hyalina
Thalassiosira oestrupii
Thalassiosira pseudonana
Thalassiosira rotula
Thalassiosira sp.
Thalassiothrix frauenfeldianum
Trachelomonas sp.
Treubania crassispina
Tricodesmium sp.
Tropodineis lepidoptera
Unknown bluegreen sp.
Unknown chlorophyte sp.
Unknown Cryptophyte sp.
Unknown diatom sp.
Unknown diatom sp. 17
Unknown diatom sp. A
Unknown diatom sp. D
Unknown Dinoflagellate sp.
Unknown flagellate sp. 1
Unknown flagellate sp. 2
Unknown Green colonial #1
Unknown Green sp.
Unknown Katodinium sp.
Unknown pennate diatom sp.
Unknown Vegetative cell sp.
Unkown C sp.
Westella sp.

Appendix B. Alafia River species list with the minimum number of cells l⁻¹, maximum number of cells l⁻¹, mean number of cells l⁻¹ and median number of cells l⁻¹ (with coincident environmental variables and zeros removed from the database)

Scientific name	Max (cells l ⁻¹)	Mean (cell l ⁻¹)	Median (cells l ⁻¹)	Min (cells l ⁻¹)
<i>Actinastrum sp.</i>	3.25	3.25	3.25	3.25
<i>Akistrodesmus sp.</i>	6.50	6.50	6.50	6.50
<i>Amphora sp.</i>	9.75	6.50	6.50	9.75
<i>Anabaena sp.</i>	13.00	13.00	13.00	13.00
<i>Apedinella radians</i>	16.25	16.25	16.25	16.25
<i>Aphanocapsa sp.</i>	40.17	40.17	40.17	40.17
<i>Asterionella japonica</i>	40.17	40.17	40.17	40.17
<i>Bacillaria sp.</i>	40.17	40.17	40.17	40.17
<i>Bacteriastrium sp.</i>	40.17	15.56	3.25	3.25
<i>Bellerochea horologicalis</i>	55.25	55.25	55.25	55.25
<i>Cerataulina bergonii large</i>	40.17	22.06	19.50	40.17
<i>Cerataulina bergonii small</i>	48.75	35.75	35.75	48.75
<i>Ceratium hircus</i>	80.33	80.33	80.33	80.33
<i>Chaetoceros gracile</i>	55.25	47.71	47.71	55.25
<i>Chaetoceros muelleri</i>	84.50	44.81	40.17	84.50
<i>Chaetoceros sp.</i>	80.33	53.56	40.17	80.33
<i>Chaetoceros subtilis</i>	80.33	48.44	50.21	80.33
<i>Chroococcus sp.</i>	175.50	97.50	97.50	175.50
<i>Coscinodiscus sp.</i>	160.67	100.42	100.42	160.67
<i>Crucigenia sp.</i>	160.67	73.44	40.17	160.67
<i>Dinophysis caudata</i>	80.33	31.48	40.17	80.33
<i>Diploneis sp.</i>	241.00	241.00	241.00	241.00
<i>Eutreptia sp.</i>	241.00	122.13	122.13	241.00
<i>Eutreptiella sp.</i>	241.00	140.00	140.00	241.00
<i>Fragilaria oceana</i>	241.00	95.89	40.17	241.00
<i>Franceia sp.</i>	120.50	80.33	80.33	120.50
<i>Glenodinium sp.</i>	241.00	93.33	56.42	19.50
<i>Gonyaulax sp.</i>	241.00	130.54	100.42	241.00
<i>Guinardia flaccida</i>	723.00	723.00	723.00	723.00
<i>Gymnodinium sp.</i>	241.00	48.36	33.08	3.25
<i>Gyrodinium sp.</i>	522.17	271.72	241.00	522.17
<i>Gyrosigma sp.</i>	723.00	152.25	50.21	723.00
<i>Hemiaulis hauckii</i>	482.00	307.94	361.50	482.00
<i>Leptocylindricus danicus</i>	241.00	80.33	50.21	241.00
<i>Leptocylindricus minimum</i>	482.00	163.38	100.42	482.00
<i>Mallomonas sp.</i>	682.83	374.89	321.33	682.83
<i>Melosira sp.</i>	562.33	112.02	60.25	562.33
<i>Merismopedia sp.</i>	200.83	95.35	120.50	200.83
<i>Microcystis sp.</i>	241.00	59.96	40.17	16.25
<i>Minutocellus sp.</i>	763.17	211.42	70.29	763.17
<i>Navicula sp. large</i>	241.00	72.31	40.17	3.25
<i>Navicula sp. small</i>	783.25	461.92	522.17	783.25
<i>Nitzschia closterium</i>	361.50	149.69	120.50	361.50
<i>Nitzschia delicatissima</i>	1687.00	1687.00	1687.00	1687.00
<i>Nitzschia pungens</i>	723.00	123.63	40.17	723.00
<i>Nitzschia sp.</i>	602.50	147.97	80.33	6.50

<i>Oscillatoria sp.</i>	723.00	425.77	482.00	723.00
<i>Peridinium sp.</i>	321.33	153.73	120.50	321.33
<i>Pleurosigma sp.</i>	441.83	208.70	200.83	441.83
<i>Polykrikos sp.</i>	1446.00	325.47	160.67	13.00
<i>Prorocentrum gracile</i>	763.17	155.54	80.33	763.17
<i>Prorocentrum micans</i>	964.00	369.53	220.92	964.00
<i>Prorocentrum minimum</i>	3735.50	1869.38	1869.38	3735.50
<i>Prorocentrum redfieldi</i>	1687.00	364.75	120.50	1687.00
<i>Prorocentrum sp.</i>	1446.00	950.53	1205.00	1446.00
<i>Pseudopedinella sp.</i>	1205.00	176.11	70.29	16.25
<i>Pyramimonas sp.</i>	3072.75	2500.38	2500.38	3072.75
<i>Pyrophacus sp.</i>	723.00	147.52	96.40	723.00
<i>Raphidiopsis sp.</i>	5061.00	552.88	120.50	3.25
<i>Rhizosolenia fragilissima</i>	2410.00	790.55	241.00	2410.00
<i>Rhizosolenia setigera</i>	9037.50	9037.50	9037.50	9037.50
<i>Scenedesmus sp.</i>	1807.50	296.22	100.42	26.00
<i>Schizothrix calcicola</i>	5342.17	1040.02	200.83	9.75
<i>Schizothrix sp.</i>	6426.67	2229.25	1626.75	6426.67
<i>Skeletonema costatum</i>	2289.50	331.19	100.42	48.75
<i>Skeletonema menezelli</i>	7430.83	997.36	180.75	7430.83
<i>Tetraedron sp.</i>	8555.50	1190.67	361.50	8555.50
<i>Thalassionema nitzschoides</i>	15183.00	3020.34	325.35	15183.00
<i>Thalassiosira sp.</i>	4579.00	638.76	220.92	19.50
<i>Tricodesmium sp.</i>	10724.50	766.89	241.00	10724.50
<i>Unknown bluegreen sp.</i>	19400.50	5642.13	1580.75	19400.50
<i>Unknown Cryptophyte sp.</i>	3133.00	406.09	241.00	3133.00
<i>Unknown diatom sp.</i>	31490.67	2988.50	80.33	31490.67
<i>Unknown diatom sp. 17</i>	24983.67	866.34	180.75	13.00
<i>Unknown diatom sp. A</i>	61876.75	2028.55	220.92	35.75
<i>Unknown diatom sp. D</i>	45790.00	2777.84	723.00	325.00
<i>Unknown Dinoflagellate sp.</i>	48742.25	6928.74	1887.83	2778.75
<i>Unknown Green sp.</i>	180268.00	32484.64	361.50	180268.00
<i>Unknown Katodinium sp.</i>	129176.00	35034.41	17753.67	129176.00
<i>Unknown Vegetative cell sp.</i>	104353.00	8023.31	743.08	29.25

Appendix C. Little Manatee River species list with minimum number of cells l⁻¹, maximum number of cells l⁻¹, mean number of cells l⁻¹ and median number of cells l⁻¹ (with coincident environmental variables and zeros removed from the database)

Scientific name	Min (cells l ⁻¹)	Max (cells l ⁻¹)	Mean (cell l ⁻¹)	Median (cells l ⁻¹)
<i>Actinastrum hantzschii</i>	19.10	38.40	27.90	26.20
<i>Actinastrum sp.</i>	4.30	4.30	4.30	4.30
<i>Agmenellum quadrupliatum</i>	57.00	57.00	57.00	57.00
<i>Akistrodesmus acuminatus</i>	7.20	47.60	27.40	27.40
<i>Akistrodesmus convolulus</i>	20.60	20.60	20.60	20.60
<i>Akistrodesmus falcatus</i>	1.40	42.90	10.44	7.20
<i>Akistrodesmus fractus</i>	4.30	9.60	6.95	6.95
<i>Akistrodesmus gracilis</i>	1.40	7.20	3.74	2.90
<i>Akistrodesmus sp.</i>	1.00	8.20	2.40	1.40
<i>Amphidinium globosum</i>	1.40	1.40	1.40	1.40
<i>Amphidinium sp.</i>	1.40	14.30	5.73	3.60
<i>Amphiprora alata</i>	1.00	1.00	1.00	1.00
<i>Amphiprora sp.</i>	1.00	28.60	5.46	2.35
<i>Amphora cymbelifera</i>	1.40	5.10	3.25	3.25
<i>Amphora sp.</i>	1.00	97.60	7.24	2.00
<i>Anabaenopsis trichomes</i>	4.30	4.30	4.30	4.30
<i>Asterionella glacialis</i>	1.00	259.40	59.17	20.90
<i>Asterococcus superbus</i>	0.90	0.90	0.90	0.90
<i>Attheya sp.</i>	1.80	1.80	1.80	1.80
<i>Bacillaria paradoxa</i>	26.80	33.40	30.10	30.10
<i>Bacteriastrium elongatum</i>	28.60	28.60	28.60	28.60
<i>Belleriochea horologicalis</i>	5.70	5.70	5.70	5.70
<i>Biddulphia pulchella</i>	1.40	1.40	1.40	1.40
<i>Bluegreen filamentous sp.</i>	1.00	10.00	4.07	4.30
<i>Ceratium hircus</i>	1.40	102.40	11.24	4.80
<i>Ceratulina bergonii</i>	1.00	1085.30	66.75	9.90
<i>Chaetoceros affinis</i>	5.70	5.70	5.70	5.70
<i>Chaetoceros breve</i>	10.00	18.60	14.30	14.30
<i>Chaetoceros compressum</i>	2.90	764.00	141.69	33.30
<i>Chaetoceros curvisetus</i>	7.20	1554.10	278.73	27.65
<i>Chaetoceros danicum</i>	1.40	34.20	10.73	3.65
<i>Chaetoceros decipiens</i>	4.30	14.30	9.53	9.75
<i>Chaetoceros didymus</i>	3.00	9.20	5.97	5.70
<i>Chaetoceros diversum</i>	1.00	4.30	2.77	3.00
<i>Chaetoceros gracile</i>	1.40	1.40	1.40	1.40
<i>Chaetoceros laciniosum</i>	5.10	161.10	55.48	27.85
<i>Chaetoceros lorenzianum</i>	7.20	54.10	23.18	10.00
<i>Chaetoceros neogracile</i>	1.00	754.50	29.04	7.20
<i>Chaetoceros peruvianum</i>	2.90	2.90	2.90	2.90
<i>Chaetoceros polygonum</i>	1.00	4.30	2.65	2.65
<i>Chaetoceros simplex</i>	1.00	3.90	2.08	1.70
<i>Chaetoceros socialis</i>	2.00	666.20	70.96	15.80
<i>Chaetoceros sp.</i>	1.20	1370.90	135.31	11.40
<i>Chaetoceros subtilis</i>	1.40	2441.90	166.28	30.40
<i>Chlorophyte colonial sp.</i>	1.40	7.10	4.25	4.25
<i>Clostridium sp.</i>	2.90	2.90	2.90	2.90

<i>Coolia</i> sp.	2.90	6.40	4.07	2.90
<i>Corethron hystrix</i>	2.40	65.50	33.95	33.95
<i>Coscinodiscus centralis</i>	1.40	1.40	1.40	1.40
<i>Coscinodiscus concinnus</i>	1.40	1.40	1.40	1.40
<i>Coscinodiscus radiatus</i>	1.40	1.40	1.40	1.40
<i>Coscinodiscus</i> sp.	1.00	4.80	2.30	1.70
<i>Coscosira polychorda</i>	2.90	22.80	10.97	7.20
<i>Crucigenia fenestrata</i>	4.80	4.80	4.80	4.80
<i>Crucigenia quadratus</i>	7.20	11.90	9.55	9.55
<i>Crucigenia</i> sp.	0.90	42.40	7.97	2.15
<i>Crucigenia tetrapedia</i>	7.10	7.10	7.10	7.10
<i>Cryptomonas</i> sp.	47.00	47.00	47.00	47.00
<i>Cyclotella meneghiniana</i>	33.60	974.60	504.10	504.10
<i>Cyclotella</i> sp.	0.90	2556.20	295.20	56.20
<i>Cyclotella</i> sp. (large)	2.90	3884.20	538.69	85.70
<i>Cyclotella</i> sp. (small)	7.10	4012.70	806.07	199.35
<i>Dactylosolen mediterraneus</i>	1.40	1.40	1.40	1.40
<i>Dictyocha fibula</i>	1.00	6.40	2.74	1.80
<i>Dictyosphaerium</i> sp.	28.50	276.10	152.30	152.30
<i>Dimerogramma fluvum</i>	2.00	2.00	2.00	2.00
<i>Dinobryon</i> sp.	2.90	23.80	10.33	7.30
<i>Dinophysis caudata</i>	1.40	4.80	2.33	1.40
<i>Ebria tripartita</i>	1.00	9.40	2.74	1.40
<i>Eucampia cornuta</i>	1.00	4.30	2.43	2.20
<i>Eucampia zoodiacus</i>	1.40	15.70	9.50	11.40
<i>Euglena</i> sp.	1.00	1206.70	99.57	7.20
<i>Eutreptia</i> sp.	1.00	402.60	28.13	7.20
<i>Franceia</i> sp.	1.40	7.10	3.63	2.40
<i>Franceia tuberculata</i>	6.80	6.80	6.80	6.80
<i>Gloenkia</i> sp.	5.70	17.10	11.40	11.40
<i>Gloeocapsa</i> sp.	4.30	4.30	4.30	4.30
<i>Gonyaulax digitalis</i>	1.40	62.70	14.80	4.50
<i>Gonyaulax grindlyi</i>	4.30	4.30	4.30	4.30
<i>Gonyaulax monilata</i>	1.40	22.90	10.24	7.15
<i>Gonyaulax polyedra</i>	1.00	2.40	1.70	1.70
<i>Gonyaulax polygramma</i>	1.40	21.40	6.73	4.30
<i>Gonyaulax spinifera</i>	1.40	5.70	3.12	2.90
<i>Guinardia flaccida</i>	1.40	28.60	9.65	4.30
<i>Gymnodinium</i> sp.	1.00	211.80	15.40	2.90
<i>Gymnodinium splendens</i>	1.40	1.40	1.40	1.40
<i>Gyrosigma</i> sp.	1.00	16.60	4.50	2.90
<i>Hantzschia</i> sp.	1.40	1.40	1.40	1.40
<i>Hemiaulis hauckii</i>	5.70	8.60	7.17	7.20
<i>Hemiaulis sinensis</i>	7.20	7.20	7.20	7.20
<i>Hermesinum adriaticum</i>	2.00	2.00	2.00	2.00
<i>Heteroaulacus sphericum</i>	1.40	1.40	1.40	1.40
<i>Heterocapsa triquetra</i>	2.90	2.90	2.90	2.90
<i>Kirchneriella</i> sp.	5.30	5.30	5.30	5.30
<i>Leptocylindricus danicus</i>	1.40	91.20	16.56	11.40
<i>Leptocylindricus minimum</i>	1.00	1977.80	79.02	17.25
<i>Licmophora</i> sp.	1.00	1.40	1.20	1.20

<i>Mastogloea</i> sp.	1.00	1.00	1.00	1.00
<i>Melosira nummuloidea</i>	2.00	609.30	63.44	7.20
<i>Melosira</i> sp.	1.40	71.40	16.27	3.50
<i>Melosira varians</i>	2.90	12.80	6.93	5.10
<i>Merismopedia punctata</i>	5.70	543.10	67.26	24.75
<i>Micractinium pusillum</i>	1.80	80.90	33.77	18.60
<i>Micratinium</i> sp.	7.20	7.20	7.20	7.20
<i>Microcystis</i> sp.	4.30	4.30	4.30	4.30
<i>Navicula</i> sp.	1.20	5.10	2.13	1.40
<i>Nitzschia closterium</i>	1.00	950.10	48.12	5.50
<i>Nitzschia lineata</i>	2.40	2.40	2.40	2.40
<i>Nitzschia longissima</i>	1.00	42.90	5.09	3.50
<i>Nitzschia pulchella</i>	1.40	1.40	1.40	1.40
<i>Nitzschia pungens</i>	2.90	835.40	57.49	9.05
<i>Nitzschia rigida</i>	1.40	1.40	1.40	1.40
<i>Nitzschia seriata</i>	1.40	47.60	14.73	4.95
<i>Nitzschia sigma</i>	1.00	49.90	8.95	1.40
<i>Nitzschia</i> sp.	1.40	2.70	1.80	1.65
<i>Nostoc</i> sp.(trichomes)	1.40	30.60	6.62	3.20
<i>Ohrmidium</i> sp. (trichomes)	1.40	1.40	1.40	1.40
<i>Olisthodiscus luteus</i>	2.90	2.90	2.90	2.90
<i>Oocystis</i> sp.	20.00	20.00	20.00	20.00
<i>Oscillatoria</i> sp.	1.40	2.90	2.40	2.90
<i>Oxytoxum gigas</i>	1.40	1.40	1.40	1.40
<i>Oxytoxum longiceps</i>	1.40	1.40	1.40	1.40
<i>Oxytoxum scolopax</i>	1.00	1.00	1.00	1.00
<i>Oxytoxum</i> sp.	1.00	1.00	1.00	1.00
<i>Pediastrum borfanum</i>	4.80	4.80	4.80	4.80
<i>Pediastrum simplex</i>	1.80	14.30	8.05	8.05
<i>Pediastrum</i> sp.	2.90	2.90	2.90	2.90
<i>Peridinium aciculiferum</i>	1.40	266.50	36.79	8.60
<i>Peridinium brochii</i>	4.30	4.30	4.30	4.30
<i>Peridinium claudicans</i>	1.40	1.80	1.60	1.60
<i>Peridinium concinnum</i>	1.40	11.40	4.66	2.90
<i>Peridinium crassipes</i>	2.40	2.40	2.40	2.40
<i>Peridinium depressum</i>	4.20	4.20	4.20	4.20
<i>Peridinium divergens</i>	1.80	2.40	2.10	2.10
<i>Peridinium nipponicum</i>	2.40	2.40	2.40	2.40
<i>Peridinium oblongum</i>	1.40	2.40	1.90	1.90
<i>Peridinium</i> sp.	1.40	47.10	6.46	2.90
<i>Peridinium trochoideum</i>	4.30	14.30	8.75	8.20
<i>Peridinium tuba</i>	1.00	6.10	2.40	1.40
<i>Peridinium turbo</i>	1.40	1.40	1.40	1.40
<i>Phacus pleuronectus</i>	1.80	2.90	2.35	2.35
<i>Phacus</i> sp.	1.40	4.80	2.68	2.90
<i>Phaeocystis pouchettii</i>	4.00	4.00	4.00	4.00
<i>Pleurosigma</i> sp.	0.90	14.30	3.18	1.40
<i>Polyedriopsis spinulosa</i>	4.80	4.80	4.80	4.80
<i>Prorocentrum gracile</i>	1.00	5.80	2.66	1.80
<i>Prorocentrum micans</i>	1.00	91.20	12.04	5.00
<i>Prorocentrum minimum</i>	1.00	1213.60	47.88	4.00

<i>Pyramimonas</i> sp.	1.40	163.90	34.29	10.05
<i>Rhizosolenia alata</i>	1.00	7.20	2.76	2.15
<i>Rhizosolenia calcar-avis</i>	1.00	9.50	3.45	2.80
<i>Rhizosolenia delicatula</i>	1.40	219.50	34.98	2.70
<i>Rhizosolenia fragilissima</i>	1.00	17.10	5.97	4.30
<i>Rhizosolenia hebetata</i>	1.40	1.40	1.40	1.40
<i>Rhizosolenia inermis</i>	3.50	3.50	3.50	3.50
<i>Rhizosolenia setigera</i>	1.00	88.80	12.40	2.95
<i>Rhizosolenia stolterfothii</i>	2.00	8.60	3.90	2.50
<i>Scenedesmus abundans</i>	5.70	133.20	59.97	41.00
<i>Scenedesmus acuminatus</i>	1.20	78.60	13.04	7.20
<i>Scenedesmus acutus</i>	5.70	85.70	38.98	14.30
<i>Scenedesmus arcuatus</i>	7.20	45.60	26.40	26.40
<i>Scenedesmus bijinga</i>	2.90	42.80	15.44	13.30
<i>Scenedesmus denticulus</i>	14.30	14.30	14.30	14.30
<i>Scenedesmus quadracauda</i>	1.40	71.00	18.78	11.40
<i>Scenedesmus</i> sp.	2.90	106.80	23.25	4.90
<i>Schizothrix</i> sp.	1.40	10995.60	935.48	153.25
<i>Schroederia anchora</i>	1.80	1.80	1.80	1.80
<i>Schroederia setigera</i>	1.40	170.20	15.97	4.80
<i>Scrippsiella</i> sp.	1.00	42.80	6.98	3.50
<i>Selenastrum gracile</i>	1.40	11.80	4.81	4.80
<i>Selenastrum</i> sp.	1.40	61.90	31.65	31.65
<i>Skeletonema costatum</i>	5.70	80358.30	2080.43	333.10
<i>Spirulina</i> sp. (trichomes)	14.30	14.30	14.30	14.30
<i>Staurastrum paradoxym</i>	1.40	2.40	1.90	1.90
<i>Synedra</i> sp.	1.40	24.20	8.18	3.55
<i>Tetraedron</i> sp.	1.40	9.60	5.50	5.50
<i>Tetrastrum heterocontum</i>	5.70	5.70	5.70	5.70
<i>Tetrastrum</i> sp.	1.40	14.30	8.08	9.50
<i>Tetrastrum staurogeniaeforme</i>	4.80	4.80	4.80	4.80
<i>Thalassionema nitzschoides</i>	1.40	5419.20	175.67	19.00
<i>Thalassiosira aestivalis</i>	366.60	366.60	366.60	366.60
<i>Thalassiosira allenii</i>	1.40	15.70	4.75	2.75
<i>Thalassiosira decipiens</i>	1.00	1256.70	65.94	7.20
<i>Thalassiosira gravida</i>	1.40	1160.20	235.76	7.20
<i>Thalassiosira hyalina</i>	5.70	5.70	5.70	5.70
<i>Thalassiosira oestrupii</i>	1.00	12.20	4.74	4.40
<i>Thalassiosira pseudonana</i>	1.40	1856.40	171.52	27.10
<i>Thalassiosira rotula</i>	2.00	9.60	4.70	2.50
<i>Thalassiosira</i> sp.	1.40	4483.90	204.30	20.10
<i>Thalassiothrix frauenfeldianum</i>	1.40	14.20	6.98	7.20
<i>Treubania crassispina</i>	1.40	1.40	1.40	1.40
<i>Tropodineis lepidoptera</i>	9.50	46.40	28.48	29.00
<i>Unknown chlorophyte</i> sp.	4.80	40.50	22.65	22.65
<i>Unknown chrysophyte</i> sp.	1.40	1.40	1.40	1.40
<i>Unknown pennate diatom</i> sp.	1.40	2013.00	55.57	15.85
<i>Unkown C</i> sp.	17.90	85.70	51.80	51.80
<i>Westella</i> sp.	9.50	61.90	35.70	35.70

Appendix D. Peace River species list with the minimum number of cells l⁻¹, maximum number of cells l⁻¹, mean number of cells l⁻¹ and median number of cells l⁻¹ (with coincident environmental variables and zeros removed from the database)

Scientific name	Min (cells l ⁻¹)	Max (cells l ⁻¹)	Mean (cell l ⁻¹)	Median (cells l ⁻¹)
<i>Actinoptychus undulatus</i>	2	60	26	16
<i>Amphidinium crassum</i>	2	62	17	11
<i>Anabaena spiroides</i> v. <i>crassa</i>	2	10	7	8
<i>Anabaenopsis</i> sp.	2	2	2	2
<i>Aphanocapsa</i> sp.	16	16	16	16
<i>Asterionella glacialis</i>	2	82	31	10
<i>Bacillaria paradoxa</i>	4	36	19	17
<i>Biddulphia sinensis</i>	2	144	26	6
<i>Calycomonas ovalis</i>	2	314	41	10
<i>Centritractus</i> aff. <i>Belonophorus</i>	2	2	2	2
<i>Ceratium fusus</i>	2	10	5	4
<i>Ceratium hircus</i>	2	654	85	8
<i>Ceratulina pelagica</i>	2	4	3	3
<i>Chaetoceros compressum</i>	2	206	44	18
<i>Chaetoceros decipiens</i>	2	64	21	16
<i>Chaetoceros subtilis</i>	2	210	29	10
<i>Chaetosphaeridium</i> sp.	8	8	8	8
<i>Chlamydomonas</i> sp.	8	36	15	10
<i>Chlamydomonas sphagnicola</i>	2	18	8	4
<i>Chlymentomonas</i> sp.	2	200	26	14
<i>Chroococcus limneticus</i> v. <i>subsalsu</i>	144	144	144	144
<i>Chroococcus minutus</i>	14	890	226	130
<i>Closterium</i> sp.	2	2	2	2
<i>Coelosphaerium</i> sp.	12	442	81	49
<i>Coscinodiscus eccentricus</i>	2	16	5	4
<i>Crucigenia fenestrata</i>	8	204	63	19
<i>Crucigenia tetrapedia</i>	30	30	30	30
<i>Cryptomonas curvata</i>	2	14	5	3
<i>Cryptomonas erosa</i>	2	188	31	12
<i>Cryptomonas ovata</i>	2	166	25	12
<i>Cryptomonas</i> sp.1	2	702	144	80
<i>Cyclotella</i> sp.	4	108	28	18
<i>Cyclotella undulata</i>	2	642	121	26
<i>Cymbella</i> sp.	2	2	2	2
<i>Dinophysis caudata</i>	2	6	3	2
<i>Entomoneis alata</i>	2	2	2	2
<i>Euglena acus</i>	2	336	77	6
<i>Euglena elastica</i>	10	10	10	10
<i>Euglena</i> sp.	2	698	350	350
<i>Euglena spirogyra</i>	24	24	24	24
<i>Eutreptiella</i> sp.	2	390	22	10
<i>Gonyaulax palustre</i>	2	168	29	14
<i>Gonyaulax scrippsae</i>	2	4	2	2
<i>Gymnodinium simplex</i>	2	152	21	10
<i>Gymnodinium splendens</i>	2	794	129	23
<i>Gyrosigma</i> sp.1	2	2	2	2
<i>Gyrosigma</i> sp.2	4	4	4	4

<i>Hemiaulis hauckii</i>	2	4	3	3
<i>Kirchneriella</i> sp.	6	42	17	9
<i>Lyngbya contorta</i> (trichome)	2	150	40	4
<i>Mallomonas acaroides</i>	2	24	12	10
<i>Melosira granulata</i>	2	28	9	6
<i>Merismopedia glauca</i>	12	186	57	28
<i>Merismopedia</i> sp.	16	88	51	50
<i>Navicula</i> sp.	2	14	5	4
<i>Nitzschia closterium</i>	2	18	6	2
<i>Nitzschia fruticosa</i>	4	66	29	23
<i>Nitzschia palea</i>	2	52	8	4
<i>Nitzschia pungens</i>	4	26	12	6
<i>Nitzschia reversa</i>	2	6	4	4
<i>Nitzschia sigma</i>	2	2	2	2
<i>Nitzschia</i> sp.	2	98	21	2
<i>Nitzschia tryblionella</i>	2	14	5	2
<i>Oocystis</i> sp.	8	60	21	16
<i>Oscillatoria rubescens</i> (trichome)	2	96	23	8
<i>Paralia sulcata</i>	2	12	5	3
<i>Pediastrum borfanum</i>	10	10	10	10
<i>Peridinium cerasus</i>	2	786	80	18
<i>Phacus pleuronectus</i>	2	4	3	3
<i>Phacus torta</i>	2	8	5	5
<i>Phormidium fragile</i> (trichome)	10	30	18	16
<i>Polykrikos swartzii</i>	44	44	44	44
<i>Prorocentrum micans</i>	2	158	20	6
<i>Protococcus viridis</i>	4	56	35	44
<i>Protoperidinium conicum</i>	2	4	3	3
<i>Rhizosolenia calcar-avis</i>	2	200	42	4
<i>Rhizosolenia fragilissima</i>	2	22	12	12
<i>Rhizosolenia setigera</i>	2	268	44	4
<i>Rhizosolenia stolterfothii</i>	84	160	117	108
<i>Rhizosolenia styliformis</i>	2	204	38	4
<i>Scenedesmus abundans</i> v. <i>brevicauda</i>	8	80	50	56
<i>Scenedesmus acuminatus</i>	18	18	18	18
<i>Scenedesmus bijinga</i>	12	20	16	16
<i>Scenedesmus bijuga</i> v. <i>alternans</i>	8	32	20	20
<i>Scenedesmus quadricauda</i> v. <i>Westii</i>	4	674	78	20
<i>Skeletonema costatum</i>	6	980	381	356
<i>Sorastrum spinulosum</i>	14	14	14	14
<i>Spermatozoopsis exultans</i>	2	234	34	14
<i>Spirulina laxa</i>	2	6	3	2
<i>Spirulina</i> sp.1	2	36	17	14
<i>Staurastrum</i> sp.	2	8	5	5
<i>Stephanodiscus</i> sp.	4	82	32	10
<i>Synechocystis aquaticus</i> Sauvageau	6	850	308	242
<i>Tetraedron</i> sp.	2	2	2	2
<i>Thalassionema nitzschoides</i>	4	278	105	69
<i>Trachelomonas</i> sp.	32	32	32	32
Unknown flagellate sp. 1	2	118	18	6
Unknown flagellate sp. 2	2	2	2	2

<i>Unknown Green colonial #1</i>	8	8	8	8
<i>Unknown Katodinium sp.</i>	8	8	8	8

Appendix E. SIMPER test results for the combined river species that account for 3% or more of the total abundance in any one sample averaged by river-station.

SIMPER

Similarity Percentages - species contributions

Worksheet

File: F:\3 Rivers\Combined
Files\combspeciesOKwithchemBIOENVtransformedreduced.pri
Sample selection: All
Variable selection: All

Parameters

Standardise data: No
Transform: None
Cut off for low contributions: 90.00%
Factor name: River Station

Factor groups

ALA0
ALA12
ALA18
ALA6
ALASFB
ALATB
ALASFC
LMR0
LMR12
LMR6
LMRRUSK
LMRTB
LMR18
PR1
PR2
PR3
PR4

Group ALA0

Average similarity: 40.67

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	10.45	1.93	25.69	25.69
Unknown diatom sp.	3.09	7.85	2.15	19.30	44.99
Unknown diatom sp. D	2.34	4.70	1.20	11.55	56.54
Thalassiosira sp.	2.01	4.63	1.51	11.39	67.93
Unknown Dinoflagellate sp.	1.73	2.61	0.76	6.41	74.34
Scenedesmus sp.	1.47	2.13	0.69	5.23	79.57
Navicula sp. small	1.23	1.41	0.48	3.46	83.03
Prorocentrum micans	1.61	1.05	0.27	2.59	85.61
Unknown bluegreen sp.	0.83	1.04	0.49	2.55	88.16
Pyramimonas sp.	0.84	0.88	0.49	2.15	90.32

Group ALA12

Average similarity: 41.55

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	6.15	10.16	3.10	24.46	24.46
Unknown diatom sp. D	7.23	9.61	1.76	23.13	47.58

Unknown diatom sp.	3.44	4.87	1.22	11.72	59.30
Skeletonema costatum	4.12	3.98	0.81	9.58	68.88
Thalassiosira sp.	3.70	3.89	0.99	9.37	78.25
Unknown Dinoflagellate sp.	3.25	3.63	0.92	8.74	86.99
Pyramimonas sp.	1.87	1.56	0.59	3.75	90.74

Group ALA18

Average similarity: 40.96

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	5.78	9.90	2.68	24.18	24.18
Unknown diatom sp. D	7.76	9.84	2.49	24.02	48.20
Thalassiosira sp.	3.84	3.98	1.26	9.72	57.92
Unknown diatom sp.	3.26	3.81	1.20	9.31	67.23
Unknown Dinoflagellate sp.	2.82	3.51	0.79	8.57	75.80
Skeletonema costatum	4.35	2.77	0.60	6.76	82.56
Nitzschia closterium	1.48	1.19	0.52	2.92	85.48
Peridinium sp.	1.96	1.14	0.45	2.78	88.26
Nitzschia pungens	1.50	0.92	0.44	2.25	90.52

Group ALA6

Average similarity: 35.68

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	6.93	11.58	3.29	32.46	32.46
Unknown diatom sp. D	5.41	6.44	0.87	18.04	50.49
Unknown diatom sp.	3.19	4.40	1.04	12.32	62.81
Unknown Dinoflagellate sp.	2.98	3.82	1.01	10.71	73.53
Thalassiosira sp.	2.99	3.10	0.73	8.68	82.21
Peridinium sp.	1.80	1.28	0.43	3.58	85.79
Pyramimonas sp.	1.63	1.19	0.53	3.33	89.12
Skeletonema costatum	1.59	0.88	0.28	2.48	91.60

Group ALASFB

Average similarity: 49.86

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	5.30	9.65	3.32	19.35	19.35
Unknown diatom sp. D	7.21	9.46	3.00	18.96	38.31
Skeletonema costatum	6.05	6.76	0.88	13.56	51.87
Nitzschia closterium	3.80	6.26	3.95	12.55	64.42
Unknown diatom sp.	3.86	5.43	1.79	10.88	75.30
Thalassiosira sp.	3.61	5.13	1.76	10.28	85.58
Unknown Dinoflagellate sp.	2.64	3.44	1.24	6.90	92.48

Group ALATB

Average similarity: 54.10

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	8.40	11.46	1.69	21.19	21.19
Unknown Cryptophyte sp.	4.97	8.32	3.46	15.38	36.56
Unknown diatom sp. D	5.42	6.58	1.83	12.17	48.73
Thalassiosira sp.	4.50	5.75	2.14	10.63	59.36
Unknown diatom sp.	3.54	4.64	1.58	8.57	67.94
Nitzschia closterium	3.84	4.56	1.49	8.42	76.36
Nitzschia pungens	3.10	3.31	0.98	6.12	82.48
Chaetoceros sp.	2.89	2.83	1.00	5.22	87.71
Unknown Dinoflagellate sp.	2.17	1.53	0.69	2.83	90.54

Group ALASFC

Average similarity: 57.63

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	7.43	9.86	#####	17.11	17.11
Unknown Dinoflagellate sp.	9.23	9.06	#####	15.73	32.83
Skeletonema costatum	5.96	8.19	#####	14.21	47.04
Thalassiosira sp.	4.72	6.89	#####	11.95	58.99
Unknown diatom sp. D	8.36	6.89	#####	11.95	70.94
Nitzschia closterium	4.12	5.79	#####	10.05	80.99
Unknown diatom sp.	4.70	5.48	#####	9.50	90.50

Group LMR0

Average similarity: 28.35

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Unknown pennate diatom sp.	2.07	6.67	1.24	23.52	23.52
Skeletonema costatum	3.27	4.38	0.72	15.47	38.99
Scenedesmus quadracauda	1.15	2.04	0.64	7.21	46.20
Cyclotella sp.	1.76	1.88	0.39	6.62	52.82
Gymnodinium sp.	1.01	1.85	0.63	6.53	59.34
Schroederia setigera	1.04	1.79	0.63	6.32	65.67
Cyclotella sp. (small)	1.79	1.71	0.34	6.03	71.70
Eutreptia sp.	0.88	1.57	0.53	5.54	77.23
Scenedesmus bijinga	0.90	1.23	0.43	4.33	81.56
Nitzschia longissima	0.78	1.15	0.53	4.04	85.60
Cyclotella sp. (large)	1.45	0.93	0.26	3.28	88.88
Akistrodesmus falcatus	0.64	0.69	0.34	2.42	91.30

Group LMR12

Average similarity: 37.59

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	3.94	15.57	2.21	41.42	41.42
Chaetoceros subtilis	2.19	7.39	0.93	19.67	61.10
Peridinium aciculiferum	1.12	2.35	0.49	6.26	67.35
Thalassiosira pseudonana	0.90	1.33	0.46	3.53	70.88
Nitzschia longissima	0.75	1.31	0.54	3.48	74.36
Nitzschia closterium	0.79	1.20	0.55	3.19	77.55
Unknown pennate diatom sp.	0.75	1.17	0.47	3.11	80.66
Thalassiosira sp.	0.84	1.07	0.38	2.85	83.51
Chaetoceros socialis	0.70	0.90	0.40	2.40	85.92
Eutreptia sp.	0.58	0.69	0.40	1.84	87.75
Leptocylindricus minimum	0.80	0.68	0.34	1.82	89.57
Schizothrix sp.	1.06	0.61	0.28	1.63	91.20

Group LMR6

Average similarity: 38.12

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	4.06	13.46	4.42	35.32	35.32
Chaetoceros subtilis	2.80	7.32	1.24	19.20	54.52
Schroederia setigera	1.25	3.07	1.01	8.07	62.58
Nitzschia longissima	0.91	2.21	0.77	5.81	68.39
Peridinium aciculiferum	1.07	1.39	0.41	3.65	72.04
Cyclotella sp. (small)	1.40	1.38	0.35	3.62	75.66
Gymnodinium sp.	1.06	1.37	0.48	3.60	79.27
Thalassiosira pseudonana	1.15	1.26	0.37	3.30	82.57
Scenedesmus quadracauda	0.73	1.01	0.43	2.64	85.20
Unknown pennate diatom sp.	0.72	0.89	0.36	2.34	87.55
Thalassiosira decipiens	0.59	0.68	0.37	1.78	89.32

Gonyaulax polygramma	0.53	0.63	0.36	1.66	90.98
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Group LMRRUSK

Average similarity: 33.11

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	5.90	14.96	1.53	45.19	45.19
Prorocentrum minimum	1.59	2.21	0.67	6.67	51.86
Eutreptia sp.	1.43	2.17	0.68	6.54	58.40
Thalassiosira pseudonana	1.56	1.71	0.46	5.16	63.56
Schroederia setigera	0.82	1.29	0.53	3.91	67.46
Nitzschia longissima	0.74	1.14	0.57	3.45	70.91
Thalassiosira sp.	1.38	1.10	0.36	3.32	74.23
Peridinium aciculiferum	0.84	1.01	0.46	3.04	77.27
Chaetoceros subtilis	0.83	0.88	0.36	2.65	79.92
Thalassiosira decipiens	0.84	0.83	0.45	2.51	82.43
Nitzschia closterium	0.62	0.78	0.52	2.36	84.79
Unknown pennate diatom sp.	0.81	0.76	0.34	2.28	87.07
Scrippsiella sp.	0.59	0.59	0.35	1.78	88.85
Gymnodinium sp.	0.53	0.44	0.36	1.33	90.19

Group LMRTB

Average similarity: 29.08

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	5.07	7.71	1.12	26.52	26.52
Thalassionema nitzschoides	1.63	2.24	0.59	7.69	34.21
Ceratulina bergonii	1.39	2.14	0.78	7.36	41.57
Leptocylindricus minimum	1.63	1.82	0.76	6.27	47.84
Schizothrix sp.	2.14	1.49	0.35	5.12	52.95
Chaetoceros neogracile	1.24	1.34	0.66	4.62	57.57
Prorocentrum micans	0.97	1.31	0.64	4.49	62.06
Unknown pennate diatom sp.	1.09	1.30	0.50	4.48	66.54
Chaetoceros socialis	1.47	1.07	0.47	3.67	70.21
Nitzschia closterium	1.37	1.07	0.51	3.66	73.87
Rhizosolenia setigera	0.93	0.97	0.46	3.34	77.21
Ceratium hircus	0.73	0.71	0.47	2.45	79.66
Nitzschia pungens	1.11	0.70	0.40	2.41	82.07
Prorocentrum minimum	0.72	0.66	0.55	2.26	84.33
Thalassiosira sp.	0.93	0.64	0.36	2.22	86.55
Thalassiosira decipiens	0.64	0.54	0.32	1.86	88.40
Nitzschia longissima	0.64	0.53	0.49	1.84	90.24

Group LMR18

Average similarity: 33.88

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	4.09	16.36	2.26	48.29	48.29
Nitzschia closterium	1.55	4.56	1.37	13.46	61.75
Peridinium aciculiferum	0.79	1.70	0.41	5.01	66.76
Leptocylindricus minimum	0.93	1.60	0.49	4.73	71.48
Chaetoceros socialis	0.99	1.52	0.51	4.49	75.98
Chaetoceros subtilis	0.83	1.30	0.33	3.85	79.83
Unknown pennate diatom sp.	0.84	1.11	0.44	3.28	83.11
Nitzschia longissima	0.53	0.91	0.43	2.68	85.78
Rhizosolenia setigera	0.54	0.72	0.34	2.11	87.90
Chaetoceros neogracile	0.63	0.67	0.36	1.98	89.87
Thalassiosira pseudonana	0.51	0.46	0.30	1.35	91.23

Group PR1

Average similarity: 46.53

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Cryptomonas sp.1	3.26	10.93	3.00	23.49	23.49
Synechocystis aquaticus Sauvageau	3.49	10.46	1.16	22.48	45.97
Scenedesmus quadricauda v. Westii	2.19	4.92	1.02	10.57	56.54
Gonyaulax palustre	1.82	4.32	1.14	9.28	65.82
Spermatozoopsis exultans	1.79	4.04	0.97	8.67	74.49
Cryptomonas erosa	1.46	2.64	0.75	5.68	80.17
Chlymentomonas sp.	1.14	1.76	0.58	3.77	83.94
Cryptomonas ovata	1.01	1.56	0.53	3.35	87.30
Skeletonema costatum	1.15	1.43	0.42	3.07	90.37

Group PR2

Average similarity: 45.04

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	3.82	13.35	1.76	29.63	29.63
Cryptomonas sp.1	3.26	11.49	2.85	25.50	55.14
Synechocystis aquaticus Sauvageau	2.70	7.31	1.03	16.23	71.36
Cryptomonas ovata	1.21	2.46	0.76	5.46	76.83
Spermatozoopsis exultans	1.02	1.78	0.61	3.96	80.79
Gonyaulax palustre	0.89	1.35	0.52	3.00	83.79
Chlymentomonas sp.	0.90	1.30	0.49	2.89	86.68
Gymnodinium splendens	1.01	1.18	0.35	2.63	89.31
Eutreptiella sp.	0.86	1.05	0.42	2.32	91.63

Group PR3

Average similarity: 40.69

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	3.69	12.17	1.26	29.92	29.92
Cryptomonas sp.1	2.70	9.12	1.83	22.42	52.34
Synechocystis aquaticus Sauvageau	2.83	8.46	1.15	20.79	73.12
Chlymentomonas sp.	1.07	2.04	0.55	5.00	78.12
Peridinium cerasus	1.29	2.02	0.54	4.95	83.08
Eutreptiella sp.	0.70	0.89	0.40	2.18	85.26
Gymnodinium simplex	0.71	0.83	0.35	2.04	87.30
Unknown flagellate sp. 1	0.66	0.76	0.34	1.86	89.15

Gymnodinium splendens	0.87	0.68	0.26	1.68	90.83
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Group PR4

Average similarity: 38.63

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	3.45	11.01	1.26	28.50	28.50
Cryptomonas sp.1	2.59	9.32	2.37	24.13	52.63
Synechocystis aquaticus Sauvageau	2.99	8.48	1.07	21.94	74.57
Gymnodinium simplex	1.01	1.81	0.55	4.68	79.25
Peridinium cerasus	0.87	1.14	0.43	2.96	82.22
Chlymentomonas sp.	0.80	1.12	0.45	2.89	85.11
Ceratium hircus	0.97	1.08	0.38	2.79	87.90
Eutreptiella sp.	0.69	0.92	0.40	2.38	90.28

Groups ALA0 & ALA12

Average dissimilarity = 66.98

Species	Group ALA0 Av.Abund	Group ALA12 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	2.34	7.23	6.65	1.28	9.92	9.92
Skeletonema costatum	0.16	4.12	5.18	1.03	7.73	17.65
Unknown Cryptophyte sp.	4.79	6.15	4.25	1.38	6.34	24.00
Thalassiosira sp.	2.01	3.70	3.71	0.87	5.53	29.53
Unknown Dinoflagellate sp.	1.73	3.25	3.55	1.27	5.29	34.82
Prorocentrum micans	1.61	0.57	2.65	0.67	3.96	38.78
Eutreptia sp.	0.37	1.93	2.62	0.69	3.92	42.70
Unknown diatom sp.	3.09	3.44	2.48	1.29	3.70	46.40
Prorocentrum minimum	0.16	1.70	2.37	0.38	3.55	49.94
Pyramimonas sp.	0.84	1.87	2.27	1.28	3.39	53.33
Prorocentrum sp.	0.45	1.24	2.14	0.52	3.19	56.53
Skeletonema menezelli	0.14	1.67	2.00	0.42	2.98	59.51
Chaetoceros sp.	0.13	1.55	1.94	0.77	2.90	62.42
Scenedesmus sp.	1.47	0.24	1.93	1.13	2.87	65.29
Peridinium sp.	0.00	1.64	1.81	0.65	2.70	67.99
Navicula sp. small	1.23	0.17	1.68	0.87	2.51	70.49
Coscinodiscus sp.	0.83	0.63	1.57	0.76	2.35	72.84
Nitzschia pungens	0.80	0.54	1.32	0.91	1.97	74.81
Unknown bluegreen sp.	0.83	0.17	1.16	0.92	1.74	76.55
Leptocylindricus minimum	0.61	0.54	1.16	0.82	1.74	78.29
Akistrodesmus sp.	0.76	0.31	1.15	0.62	1.72	80.01

Tetraedron sp.	0.82	0.22	1.13	0.78	1.69	81.70
Navicula sp. large	0.66	0.17	1.02	0.69	1.52	83.22
Nitzschia closterium	0.20	0.77	1.01	0.64	1.51	84.72
Unknown Katodinium sp.	0.11	0.46	0.89	0.30	1.32	86.05
Prorocentrum redfieldi	0.40	0.48	0.87	0.44	1.30	87.35
Ceratium hircus	0.00	0.44	0.66	0.39	0.99	88.34
Leptocylindricus danicus	0.27	0.30	0.63	0.47	0.93	89.27
Glenodinium sp.	0.13	0.39	0.59	0.34	0.88	90.15

Groups ALA0 & ALA18

Average dissimilarity = 67.62

Species	Group ALA0 Av.Abund	Group ALA18 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	2.34	7.76	6.39	1.35	9.45	9.45
Skeletonema costatum	0.16	4.35	4.96	0.90	7.33	16.78
Unknown Cryptophyte sp.	4.79	5.78	3.88	1.29	5.73	22.51
Unknown Dinoflagellate sp.	1.73	2.82	3.26	1.19	4.82	27.33
Thalassiosira sp.	2.01	3.84	3.15	1.03	4.66	31.99
Unknown diatom sp.	3.09	3.26	2.57	1.29	3.81	35.79
Skeletonema menezelli	0.14	2.12	2.39	0.40	3.54	39.33
Peridinium sp.	0.00	1.96	2.26	0.77	3.34	42.67
Prorocentrum micans	1.61	0.00	2.21	0.55	3.26	45.93
Prorocentrum minimum	0.16	1.51	2.17	0.47	3.21	49.15
Nitzschia pungens	0.80	1.50	2.06	1.04	3.04	52.19
Scenedesmus sp.	1.47	0.46	1.94	1.14	2.87	55.06
Nitzschia closterium	0.20	1.48	1.92	0.95	2.84	57.90
Chaetoceros sp.	0.13	1.79	1.91	0.74	2.83	60.73
Pyramimonas sp.	0.84	1.42	1.86	1.14	2.75	63.48
Navicula sp. small	1.23	0.00	1.63	0.81	2.40	65.88
Leptocylindricus minimum	0.61	1.10	1.51	0.95	2.24	68.12
Navicula sp. large	0.66	0.89	1.49	0.90	2.21	70.33
Leptocylindricus danicus	0.27	1.12	1.38	0.55	2.04	72.37
Unknown diatom sp. A	0.20	0.89	1.18	0.51	1.75	74.12
Tetraedron sp.	0.82	0.22	1.14	0.75	1.68	75.80
Eutreptiella sp.	0.35	0.49	1.09	0.48	1.61	77.41
Coscinodiscus sp.	0.83	0.00	1.09	0.56	1.61	79.02
Akistrodesmus sp.	0.76	0.24	1.09	0.61	1.61	80.63
Unknown bluegreen sp.	0.83	0.00	1.09	0.86	1.61	82.24
Aphanocapsa sp.	0.36	0.71	1.01	0.60	1.50	83.73
Chaetoceros gracile	0.00	0.89	0.96	0.36	1.42	85.16
Rhizosolenia setigera	0.00	0.91	0.94	0.65	1.39	86.55

Unknown Katodinium sp.	0.11	0.47	0.90	0.39	1.33	87.88
Prorocentrum sp.	0.45	0.40	0.89	0.50	1.31	89.19
Ceratium hircus	0.00	0.66	0.69	0.47	1.01	90.20

Groups ALA12 & ALA18

Average dissimilarity = 57.73

Species	Group ALA12 Av.Abund	Group ALA18 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.23	7.76	5.12	1.28	8.87	8.87
Skeletonema costatum	4.12	4.35	4.86	1.11	8.42	17.29
Thalassiosira sp.	3.70	3.84	3.56	0.91	6.16	23.45
Skeletonema menezelli	1.67	2.12	3.15	0.53	5.45	28.90
Prorocentrum minimum	1.70	1.51	3.07	0.54	5.32	34.23
Unknown Dinoflagellate sp.	3.25	2.82	2.87	1.22	4.97	39.19
Unknown Cryptophyte sp.	6.15	5.78	2.54	1.20	4.40	43.60
Peridinium sp.	1.64	1.96	2.48	0.96	4.29	47.89
Unknown diatom sp.	3.44	3.26	2.39	1.18	4.14	52.03
Chaetoceros sp.	1.55	1.79	2.32	1.00	4.01	56.04
Eutreptia sp.	1.93	0.10	2.04	0.64	3.53	59.57
Pyramimonas sp.	1.87	1.42	1.97	1.13	3.41	62.98
Nitzschia pungens	0.54	1.50	1.69	0.91	2.92	65.90
Nitzschia closterium	0.77	1.48	1.65	1.02	2.86	68.76
Prorocentrum sp.	1.24	0.40	1.63	0.49	2.82	71.58
Leptocylindricus minimum	0.54	1.10	1.23	0.82	2.13	73.71
Chaetoceros gracile	0.35	0.89	1.14	0.45	1.97	75.69
Unknown Katodinium sp.	0.46	0.47	1.13	0.43	1.97	77.65
Leptocylindricus danicus	0.30	1.12	1.10	0.50	1.91	79.56
Unknown diatom sp. A	0.26	0.89	1.05	0.52	1.82	81.38
Navicula sp. large	0.17	0.89	0.98	0.70	1.71	83.08
Rhizosolenia setigera	0.34	0.91	0.96	0.76	1.67	84.75
Ceratium hircus	0.44	0.66	0.96	0.59	1.66	86.41
Eutreptiella sp.	0.17	0.49	0.74	0.41	1.28	87.68
Prorocentrum micans	0.57	0.00	0.71	0.34	1.24	88.92
Coscinodiscus sp.	0.63	0.00	0.70	0.48	1.21	90.13

Groups ALA0 & ALA6

Average dissimilarity = 66.63

Species	Group ALA0 Av.Abund	Group ALA6 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
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Unknown diatom sp. D	2.34	5.41	6.15	1.15	9.23	9.23
Unknown Cryptophyte sp.	4.79	6.93	5.15	1.22	7.74	16.96
Thalassiosira sp.	2.01	2.99	3.35	1.20	5.03	22.00
Unknown Dinoflagellate sp.	1.73	2.98	3.25	1.36	4.88	26.88
Unknown diatom sp.	3.09	3.19	2.79	1.20	4.18	31.06
Prorocentrum micans	1.61	0.46	2.62	0.61	3.93	34.99
Eutreptia sp.	0.37	1.63	2.46	0.70	3.69	38.68
Prorocentrum minimum	0.16	1.60	2.45	0.32	3.67	42.35
Peridinium sp.	0.00	1.80	2.33	0.81	3.49	45.85
Skeletonema costatum	0.16	1.59	2.33	0.65	3.49	49.34
Scenedesmus sp.	1.47	1.08	2.19	1.19	3.28	52.62
Pyramimonas sp.	0.84	1.63	2.13	1.17	3.19	55.81
Eutreptiella sp.	0.35	1.38	2.01	0.54	3.02	58.83
Navicula sp. small	1.23	0.46	1.86	0.94	2.79	61.62
Unknown bluegreen sp.	0.83	0.81	1.72	0.96	2.58	64.20
Prorocentrum redfieldi	0.40	0.74	1.41	0.37	2.12	66.32
Coscinodiscus sp.	0.83	0.23	1.37	0.63	2.05	68.37
Tetraedron sp.	0.82	0.44	1.29	0.83	1.93	70.31
Nitzschia pungens	0.80	0.40	1.28	0.87	1.91	72.22
Prorocentrum sp.	0.45	0.69	1.27	0.51	1.90	74.12
Akistrodesmus sp.	0.76	0.46	1.25	0.67	1.88	76.00
Navicula sp. large	0.66	0.33	1.18	0.73	1.77	77.77
Leptocylindricus minimum	0.61	0.50	1.15	0.80	1.73	79.50
Glenodinium sp.	0.13	0.71	1.11	0.42	1.67	81.16
Leptocylindricus danicus	0.27	0.52	0.99	0.51	1.49	82.65
Skeletonema menezelli	0.14	0.59	0.90	0.31	1.34	84.00
Unknown Katodinium sp.	0.11	0.69	0.89	0.30	1.33	85.33
Nitzschia closterium	0.20	0.51	0.85	0.54	1.27	86.60
Aphanocapsa sp.	0.36	0.36	0.75	0.54	1.13	87.73
Chaetoceros sp.	0.13	0.51	0.68	0.44	1.03	88.76
Pseudopedinella sp.	0.00	0.61	0.66	0.26	1.00	89.75
Unknown diatom sp. A	0.20	0.39	0.62	0.36	0.93	90.68

Groups ALA12 & ALA6

Average dissimilarity = 60.33

Species	Group ALA12 Av.Abund	Group ALA6 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.23	5.41	5.74	1.26	9.52	9.52
Skeletonema costatum	4.12	1.59	4.20	1.06	6.97	16.49
Thalassiosira sp.	3.70	2.99	3.70	0.92	6.13	22.62
Unknown Cryptophyte sp.	6.15	6.93	3.48	1.13	5.76	28.38

Prorocentrum minimum	1.70	1.60	3.45	0.46	5.73	34.10
Unknown Dinoflagellate sp.	3.25	2.98	2.95	1.19	4.89	39.00
Eutreptia sp.	1.93	1.63	2.94	0.85	4.88	43.87
Peridinium sp.	1.64	1.80	2.52	0.99	4.18	48.05
Unknown diatom sp.	3.44	3.19	2.46	1.07	4.07	52.12
Pyramimonas sp.	1.87	1.63	2.11	1.14	3.50	55.62
Skeletonema menezelli	1.67	0.59	2.10	0.46	3.48	59.10
Prorocentrum sp.	1.24	0.69	1.93	0.53	3.20	62.30
Chaetoceros sp.	1.55	0.51	1.82	0.81	3.02	65.32
Eutreptiella sp.	0.17	1.38	1.55	0.48	2.57	67.89
Scenedesmus sp.	0.24	1.08	1.24	0.69	2.05	69.95
Unknown Katodinium sp.	0.46	0.69	1.22	0.37	2.03	71.98
Prorocentrum redfieldi	0.48	0.74	1.13	0.34	1.87	73.85
Prorocentrum micans	0.57	0.46	1.10	0.43	1.82	75.67
Glenodinium sp.	0.39	0.71	1.10	0.45	1.82	77.48
Nitzschia closterium	0.77	0.51	1.08	0.73	1.79	79.27
Unknown bluegreen sp.	0.17	0.81	1.00	0.58	1.65	80.93
Coscinodiscus sp.	0.63	0.23	0.92	0.54	1.52	82.45
Leptocylindricus minimum	0.54	0.50	0.88	0.66	1.46	83.91
Nitzschia pungens	0.54	0.40	0.83	0.61	1.37	85.28
Leptocylindricus danicus	0.30	0.52	0.74	0.44	1.22	86.51
Navicula sp. small	0.17	0.46	0.70	0.53	1.16	87.66
Amphora sp.	0.20	0.40	0.67	0.45	1.12	88.78
Akistrodesmus sp.	0.31	0.46	0.66	0.44	1.09	89.87
Chaetoceros gracile	0.35	0.29	0.64	0.35	1.06	90.92

Groups ALA18 & ALA6

Average dissimilarity = 61.79

Species	Group ALA18 Av.Abund	Group ALA6 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.76	5.41	5.67	1.29	9.18	9.18
Skeletonema costatum	4.35	1.59	4.39	0.99	7.11	16.29
Thalassiosira sp.	3.84	2.99	3.45	1.10	5.58	21.87
Prorocentrum minimum	1.51	1.60	3.24	0.49	5.24	27.11
Unknown Cryptophyte sp.	5.78	6.93	3.15	1.01	5.09	32.20
Unknown Dinoflagellate sp.	2.82	2.98	2.69	1.12	4.36	36.56
Unknown diatom sp.	3.26	3.19	2.57	1.16	4.16	40.72
Peridinium sp.	1.96	1.80	2.51	0.98	4.07	44.79
Skeletonema menezelli	2.12	0.59	2.46	0.44	3.98	48.77
Pyramimonas sp.	1.42	1.63	1.94	1.11	3.15	51.91
Eutreptia sp.	0.10	1.63	1.87	0.64	3.02	54.93

Chaetoceros sp.	1.79	0.51	1.85	0.79	3.00	57.93
Eutreptiella sp.	0.49	1.38	1.84	0.56	2.99	60.91
Nitzschia pungens	1.50	0.40	1.72	0.86	2.79	63.71
Nitzschia closterium	1.48	0.51	1.66	0.98	2.68	66.38
Leptocylindricus danicus	1.12	0.52	1.36	0.56	2.20	68.58
Scenedesmus sp.	0.46	1.08	1.29	0.73	2.09	70.67
Unknown Katodinium sp.	0.47	0.69	1.24	0.42	2.01	72.68
Leptocylindricus minimum	1.10	0.50	1.22	0.80	1.98	74.65
Unknown diatom sp. A	0.89	0.39	1.12	0.51	1.81	76.47
Navicula sp. large	0.89	0.33	1.10	0.73	1.78	78.24
Glenodinium sp.	0.39	0.71	1.05	0.44	1.71	79.95
Chaetoceros gracile	0.89	0.29	1.02	0.43	1.65	81.60
Rhizosolenia setigera	0.91	0.29	0.96	0.75	1.55	83.15
Prorocentrum sp.	0.40	0.69	0.91	0.46	1.47	84.63
Unknown bluegreen sp.	0.00	0.81	0.90	0.52	1.46	86.08
Aphanocapsa sp.	0.71	0.36	0.88	0.59	1.42	87.50
Prorocentrum redfieldi	0.00	0.74	0.78	0.25	1.27	88.77
Akistrodesmus sp.	0.24	0.46	0.60	0.44	0.97	89.75
Ceratium hircus	0.66	0.00	0.60	0.47	0.97	90.72

Groups ALA0 & ALASFB

Average dissimilarity = 65.23

Species	Group ALA0 Av.Abund	Group ALASFB Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	0.16	6.05	7.77	1.35	11.90	11.90
Unknown diatom sp. D	2.34	7.21	6.03	1.32	9.24	21.14
Nitzschia closterium	0.20	3.80	4.64	3.12	7.12	28.26
Unknown Cryptophyte sp.	4.79	5.30	3.70	1.27	5.67	33.93
Thalassiosira sp.	2.01	3.61	2.73	1.68	4.19	38.11
Unknown Dinoflagellate sp.	1.73	2.64	2.61	1.37	3.99	42.11
Unknown diatom sp.	3.09	3.86	2.51	1.19	3.85	45.96
Prorocentrum micans	1.61	0.00	2.25	0.55	3.44	49.40
Nitzschia pungens	0.80	1.73	2.23	1.17	3.41	52.82
Navicula sp. small	1.23	0.89	2.10	0.98	3.21	56.03
Pyramimonas sp.	0.84	1.42	2.08	1.03	3.19	59.22
Chaetoceros sp.	0.13	1.62	1.99	0.81	3.05	62.27
Scenedesmus sp.	1.47	0.38	1.99	1.14	3.05	65.32
Skeletonema menezelli	0.14	1.69	1.92	0.36	2.94	68.26
Leptocylindricus minimum	0.61	0.90	1.48	0.87	2.28	70.53
Akistrodesmus sp.	0.76	0.45	1.32	0.64	2.02	72.56
Unknown bluegreen sp.	0.83	0.25	1.21	0.93	1.85	74.40

Tetraedron sp.	0.82	0.30	1.20	0.79	1.84	76.24
Navicula sp. large	0.66	0.39	1.17	0.78	1.80	78.04
Peridinium sp.	0.00	0.87	1.13	0.49	1.74	79.78
Coscinodiscus sp.	0.83	0.00	1.11	0.57	1.70	81.48
Leptocylicus danicus	0.27	0.50	0.98	0.59	1.50	82.98
Prorocentrum sp.	0.45	0.27	0.95	0.50	1.45	84.43
Eutreptia sp.	0.37	0.19	0.75	0.48	1.15	85.58
Thalassionema nitzschoides	0.35	0.36	0.74	0.58	1.13	86.71
Nitzschia sp.	0.38	0.25	0.73	0.49	1.12	87.83
Chaetoceros subtilis	0.00	0.66	0.69	0.33	1.06	88.90
Aphanocapsa sp.	0.36	0.25	0.66	0.50	1.01	89.90
Gonyaulax sp.	0.00	0.48	0.54	0.33	0.83	90.73

Groups ALA12 & ALASFB

Average dissimilarity = 55.25

Species	Group ALA12 Av.Abund	Group ALASFB Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	4.12	6.05	5.40	1.30	9.78	9.78
Unknown diatom sp. D	7.23	7.21	5.02	1.26	9.09	18.87
Nitzschia closterium	0.77	3.80	3.37	2.02	6.10	24.97
Thalassiosira sp.	3.70	3.61	3.00	0.83	5.43	30.39
Skeletonema menezelli	1.67	1.69	2.84	0.51	5.13	35.52
Unknown Dinoflagellate sp.	3.25	2.64	2.62	1.16	4.74	40.27
Unknown Cryptophyte sp.	6.15	5.30	2.60	1.30	4.70	44.96
Unknown diatom sp.	3.44	3.86	2.29	1.09	4.14	49.10
Chaetoceros sp.	1.55	1.62	2.20	0.99	3.98	53.08
Pyramimonas sp.	1.87	1.42	2.17	1.20	3.93	57.01
Eutreptia sp.	1.93	0.19	2.12	0.67	3.84	60.85
Peridinium sp.	1.64	0.87	1.99	0.80	3.60	64.44
Prorocentrum minimum	1.70	0.00	1.87	0.35	3.39	67.84
Nitzschia pungens	0.54	1.73	1.83	1.01	3.32	71.16
Prorocentrum sp.	1.24	0.27	1.67	0.50	3.03	74.18
Leptocylicus minimum	0.54	0.90	1.19	0.77	2.16	76.34
Navicula sp. small	0.17	0.89	0.93	0.55	1.69	78.03
Unknown Katodinium sp.	0.46	0.24	0.88	0.37	1.60	79.63
Ceratium hircus	0.44	0.47	0.87	0.51	1.58	81.21
Leptocylicus danicus	0.30	0.50	0.78	0.55	1.41	82.62
Prorocentrum micans	0.57	0.00	0.73	0.35	1.32	83.94
Akistrodesmus sp.	0.31	0.45	0.72	0.42	1.29	85.23
Coscinodiscus sp.	0.63	0.00	0.71	0.48	1.29	86.52
Gonyaulax sp.	0.35	0.48	0.68	0.42	1.24	87.75

Scenedesmus sp.	0.24	0.38	0.63	0.42	1.14	88.89
Navicula sp. large	0.17	0.39	0.60	0.54	1.09	89.98
Chaetoceros subtilis	0.00	0.66	0.59	0.33	1.07	91.06

Groups ALA18 & ALASFB

Average dissimilarity = 54.08

Species	Group ALA18 Av.Abund	Group ALASFB Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	4.35	6.05	5.88	1.29	10.88	10.88
Unknown diatom sp. D	7.76	7.21	4.86	1.25	8.99	19.87
Skeletonema menezelli	2.12	1.69	3.12	0.49	5.77	25.64
Thalassiosira sp.	3.84	3.61	2.76	1.05	5.11	30.74
Nitzschia closterium	1.48	3.80	2.69	1.62	4.97	35.71
Unknown diatom sp.	3.26	3.86	2.43	1.16	4.49	40.20
Unknown Dinoflagellate sp.	2.82	2.64	2.36	1.10	4.36	44.57
Chaetoceros sp.	1.79	1.62	2.34	1.02	4.33	48.90
Peridinium sp.	1.96	0.87	2.17	0.87	4.01	52.91
Unknown Cryptophyte sp.	5.78	5.30	2.12	1.11	3.91	56.82
Nitzschia pungens	1.50	1.73	2.11	1.15	3.90	60.72
Pyramimonas sp.	1.42	1.42	1.95	1.06	3.60	64.31
Prorocentrum minimum	1.51	0.00	1.70	0.45	3.13	67.45
Leptocylicus minimum	1.10	0.90	1.44	0.87	2.67	70.12
Leptocylicus danicus	1.12	0.50	1.38	0.62	2.55	72.66
Navicula sp. large	0.89	0.39	1.12	0.80	2.07	74.73
Rhizosolenia setigera	0.91	0.36	0.98	0.72	1.82	76.55
Chaetoceros subtilis	0.47	0.66	0.92	0.41	1.71	78.26
Ceratium hircus	0.66	0.47	0.90	0.57	1.66	79.92
Unknown Katodinium sp.	0.47	0.24	0.86	0.46	1.59	81.51
Unknown diatom sp. A	0.89	0.00	0.85	0.44	1.58	83.09
Chaetoceros gracile	0.89	0.00	0.82	0.36	1.51	84.59
Navicula sp. small	0.00	0.89	0.81	0.48	1.51	86.10
Aphanocapsa sp.	0.71	0.25	0.80	0.57	1.49	87.59
Scenedesmus sp.	0.46	0.38	0.73	0.48	1.36	88.94
Akistrodesmus sp.	0.24	0.45	0.67	0.41	1.23	90.17

Groups ALA6 & ALASFB

Average dissimilarity = 60.77

Species	Group ALA6 Av.Abund	Group ALASFB Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
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Skeletonema costatum	1.59	6.05	5.99	1.33	9.85	9.85
Unknown diatom sp. D	5.41	7.21	5.54	1.29	9.11	18.96
Nitzschia closterium	0.51	3.80	3.63	2.29	5.97	24.94
Unknown Cryptophyte sp.	6.93	5.30	3.25	1.05	5.35	30.28
Thalassiosira sp.	2.99	3.61	2.95	1.17	4.85	35.14
Unknown diatom sp.	3.19	3.86	2.53	1.09	4.16	39.30
Unknown Dinoflagellate sp.	2.98	2.64	2.36	1.23	3.88	43.19
Peridinium sp.	1.80	0.87	2.20	0.90	3.62	46.81
Pyramimonas sp.	1.63	1.42	2.15	1.12	3.53	50.34
Skeletonema menezelli	0.59	1.69	2.07	0.41	3.41	53.75
Eutreptia sp.	1.63	0.19	1.95	0.68	3.20	56.95
Nitzschia pungens	0.40	1.73	1.92	0.99	3.16	60.12
Prorocentrum minimum	1.60	0.00	1.88	0.30	3.09	63.20
Chaetoceros sp.	0.51	1.62	1.86	0.85	3.07	66.27
Eutreptiella sp.	1.38	0.00	1.48	0.45	2.43	68.70
Scenedesmus sp.	1.08	0.38	1.31	0.71	2.15	70.85
Navicula sp. small	0.46	0.89	1.26	0.69	2.07	72.92
Leptocylindricus minimum	0.50	0.90	1.19	0.74	1.96	74.88
Unknown bluegreen sp.	0.81	0.25	1.04	0.60	1.72	76.60
Leptocylindricus danicus	0.52	0.50	1.04	0.59	1.71	78.32
Prorocentrum sp.	0.69	0.27	0.96	0.47	1.57	79.89
Unknown Katodinium sp.	0.69	0.24	0.95	0.37	1.57	81.46
Akistrodesmus sp.	0.46	0.45	0.82	0.48	1.35	82.81
Glenodinium sp.	0.71	0.00	0.81	0.37	1.33	84.14
Prorocentrum redfieldi	0.74	0.00	0.80	0.25	1.31	85.45
Navicula sp. large	0.33	0.39	0.75	0.60	1.24	86.69
Tetraedron sp.	0.44	0.30	0.65	0.49	1.08	87.76
Gonyaulax sp.	0.19	0.48	0.64	0.41	1.06	88.82
Prorocentrum gracile	0.32	0.33	0.62	0.42	1.02	89.84
Chaetoceros subtilis	0.00	0.66	0.61	0.33	1.00	90.85

Groups ALA0 & ALATB

Average dissimilarity = 68.18

Species	Group ALA0 Av.Abund	Group ALATB Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	0.16	8.40	9.81	2.02	14.38	14.38
Nitzschia closterium	0.20	3.84	4.22	1.86	6.19	20.58
Unknown diatom sp. D	2.34	5.42	4.12	1.37	6.04	26.62
Nitzschia pungens	0.80	3.10	3.21	1.50	4.70	31.32
Chaetoceros sp.	0.13	2.89	3.17	1.42	4.66	35.98
Thalassiosira sp.	2.01	4.50	3.12	1.68	4.57	40.55

Unknown Cryptophyte sp.	4.79	4.97	3.06	1.31	4.48	45.03
Unknown Dinoflagellate sp.	1.73	2.17	2.42	1.23	3.55	48.58
Skeletonema menezelli	0.14	2.25	2.34	0.48	3.43	52.02
Prorocentrum micans	1.61	0.54	2.21	0.65	3.23	55.25
Leptocylindricus minimum	0.61	1.84	2.05	1.03	3.00	58.25
Unknown diatom sp.	3.09	3.54	1.97	1.23	2.89	61.14
Pyramimonas sp.	0.84	1.37	1.73	1.09	2.54	63.68
Scenedesmus sp.	1.47	0.20	1.70	1.12	2.49	66.17
Navicula sp. small	1.23	0.17	1.52	0.86	2.23	68.39
Thalassionema nitzschoides	0.35	1.37	1.51	0.90	2.21	70.61
Navicula sp. large	0.66	0.96	1.36	0.93	1.99	72.60
Ceratium hircus	0.00	1.27	1.30	0.57	1.90	74.50
Unknown diatom sp. A	0.20	0.97	1.20	0.63	1.76	76.26
Prorocentrum sp.	0.45	0.79	1.14	0.60	1.67	77.93
Rhizosolenia setigera	0.00	1.05	1.12	0.76	1.64	79.57
Peridinium sp.	0.00	1.19	1.12	0.66	1.64	81.21
Unknown bluegreen sp.	0.83	0.43	1.10	0.99	1.61	82.82
Leptocylindricus danicus	0.27	0.82	1.09	0.70	1.60	84.42
Coscinodiscus sp.	0.83	0.20	1.09	0.62	1.59	86.02
Akistrodesmus sp.	0.76	0.17	0.93	0.62	1.36	87.38
Tetraedron sp.	0.82	0.00	0.90	0.72	1.32	88.70
Chaetoceros gracile	0.00	0.60	0.73	0.27	1.06	89.76
Aphanocapsa sp.	0.36	0.50	0.72	0.55	1.05	90.81

Groups ALA12 & ALATB

Average dissimilarity = 56.58

Species	Group ALA12 Av.Abund	Group ALATB Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	4.12	8.40	5.66	1.36	10.01	10.01
Unknown diatom sp. D	7.23	5.42	4.17	1.18	7.37	17.37
Nitzschia closterium	0.77	3.84	3.23	1.61	5.71	23.08
Thalassiosira sp.	3.70	4.50	2.97	0.93	5.25	28.33
Skeletonema menezelli	1.67	2.25	2.96	0.60	5.23	33.57
Nitzschia pungens	0.54	3.10	2.81	1.42	4.97	38.54
Unknown Dinoflagellate sp.	3.25	2.17	2.73	1.24	4.83	43.37
Chaetoceros sp.	1.55	2.89	2.47	1.28	4.36	47.73
Unknown Cryptophyte sp.	6.15	4.97	2.15	1.29	3.80	51.53
Prorocentrum minimum	1.70	0.27	1.91	0.39	3.38	54.91
Unknown diatom sp.	3.44	3.54	1.91	1.11	3.38	58.30
Eutreptia sp.	1.93	0.00	1.85	0.62	3.27	61.57
Peridinium sp.	1.64	1.19	1.85	0.86	3.27	64.84

Pyramimonas sp.	1.87	1.37	1.78	1.12	3.14	67.98
Leptocylicus minimum	0.54	1.84	1.73	0.95	3.06	71.04
Prorocentrum sp.	1.24	0.79	1.72	0.57	3.03	74.07
Ceratium hircus	0.44	1.27	1.37	0.70	2.43	76.50
Thalassionema nitzschoides	0.00	1.37	1.19	0.77	2.11	78.60
Unknown diatom sp. A	0.26	0.97	1.06	0.64	1.88	80.48
Rhizosolenia setigera	0.34	1.05	1.05	0.83	1.86	82.34
Prorocentrum micans	0.57	0.54	0.98	0.53	1.72	84.07
Chaetoceros gracile	0.35	0.60	0.94	0.37	1.65	85.72
Navicula sp. large	0.17	0.96	0.92	0.72	1.63	87.35
Leptocylicus danicus	0.30	0.82	0.91	0.63	1.60	88.95
Coscinodiscus sp.	0.63	0.20	0.74	0.54	1.31	90.26

Groups ALA18 & ALATB

Average dissimilarity = 54.95

Species	Group ALA18 Av.Abund	Group ALATB Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	4.35	8.40	6.25	1.40	11.38	11.38
Unknown diatom sp. D	7.76	5.42	4.11	1.22	7.48	18.85
Skeletonema menezelli	2.12	2.25	3.27	0.58	5.94	24.80
Thalassiosira sp.	3.84	4.50	2.77	1.14	5.04	29.84
Nitzschia closterium	1.48	3.84	2.73	1.46	4.98	34.82
Chaetoceros sp.	1.79	2.89	2.71	1.39	4.94	39.75
Nitzschia pungens	1.50	3.10	2.58	1.41	4.70	44.45
Unknown Dinoflagellate sp.	2.82	2.17	2.51	1.20	4.56	49.01
Unknown diatom sp.	3.26	3.54	2.07	1.21	3.77	52.79
Peridinium sp.	1.96	1.19	2.02	0.96	3.67	56.45
Leptocylicus minimum	1.10	1.84	1.83	1.00	3.34	59.79
Prorocentrum minimum	1.51	0.27	1.70	0.50	3.10	62.89
Pyramimonas sp.	1.42	1.37	1.63	1.07	2.96	65.85
Unknown Cryptophyte sp.	5.78	4.97	1.61	1.05	2.94	68.79
Leptocylicus danicus	1.12	0.82	1.41	0.69	2.57	71.36
Unknown diatom sp. A	0.89	0.97	1.41	0.72	2.57	73.93
Ceratium hircus	0.66	1.27	1.38	0.72	2.51	76.44
Thalassionema nitzschoides	0.26	1.37	1.25	0.80	2.27	78.72
Chaetoceros gracile	0.89	0.60	1.25	0.44	2.27	80.99
Rhizosolenia setigera	0.91	1.05	1.24	0.96	2.26	83.25
Navicula sp. large	0.89	0.96	1.24	0.90	2.25	85.50
Prorocentrum sp.	0.40	0.79	0.86	0.58	1.56	87.06
Aphanocapsa sp.	0.71	0.50	0.83	0.60	1.51	88.57
Eutreptiella sp.	0.49	0.20	0.71	0.42	1.29	89.86

Unknown Katodinium sp.	0.47	0.00	0.57	0.35	1.05	90.91
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Groups ALA6 & ALATB

Average dissimilarity = 63.66

Species	Group ALA6 Av.Abund	Group ALATB Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	1.59	8.40	7.27	1.72	11.42	11.42
Unknown diatom sp. D	5.41	5.42	4.32	1.20	6.78	18.20
Nitzschia closterium	0.51	3.84	3.43	1.69	5.38	23.58
Thalassiosira sp.	2.99	4.50	3.02	1.30	4.74	28.32
Nitzschia pungens	0.40	3.10	3.01	1.39	4.73	33.05
Chaetoceros sp.	0.51	2.89	2.75	1.39	4.32	37.37
Unknown Cryptophyte sp.	6.93	4.97	2.73	0.98	4.28	41.66
Unknown Dinoflagellate sp.	2.98	2.17	2.52	1.36	3.96	45.61
Skeletonema menezelli	0.59	2.25	2.35	0.52	3.69	49.30
Unknown diatom sp.	3.19	3.54	2.14	1.11	3.36	52.66
Peridinium sp.	1.80	1.19	2.03	0.99	3.19	55.85
Prorocentrum minimum	1.60	0.27	1.95	0.34	3.06	58.91
Pyramimonas sp.	1.63	1.37	1.77	1.08	2.78	61.69
Leptocylindricus minimum	0.50	1.84	1.76	0.92	2.77	64.46
Eutreptia sp.	1.63	0.00	1.68	0.61	2.64	67.10
Eutreptiella sp.	1.38	0.20	1.46	0.49	2.29	69.38
Thalassionema nitzschoides	0.16	1.37	1.26	0.80	1.98	71.37
Unknown diatom sp. A	0.39	0.97	1.15	0.63	1.81	73.18
Ceratium hircus	0.00	1.27	1.14	0.57	1.79	74.97
Prorocentrum sp.	0.69	0.79	1.13	0.56	1.78	76.75
Leptocylindricus danicus	0.52	0.82	1.11	0.66	1.75	78.50
Scenedesmus sp.	1.08	0.20	1.10	0.70	1.73	80.23
Rhizosolenia setigera	0.29	1.05	1.07	0.84	1.68	81.91
Navicula sp. large	0.33	0.96	1.02	0.76	1.61	83.52
Unknown bluegreen sp.	0.81	0.43	1.02	0.68	1.61	85.13
Chaetoceros gracile	0.29	0.60	0.82	0.33	1.28	86.41
Prorocentrum micans	0.46	0.54	0.80	0.49	1.26	87.67
Glenodinium sp.	0.71	0.00	0.73	0.37	1.15	88.82
Prorocentrum redfieldi	0.74	0.00	0.73	0.25	1.15	89.97
Navicula sp. small	0.46	0.17	0.64	0.53	1.01	90.98

Groups ALASFB & ALATB

Average dissimilarity = 47.51

Species	Group ALASFB Av.Abund	Group ALATB Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	6.05	8.40	5.02	1.24	10.57	10.57
Unknown diatom sp. D	7.21	5.42	3.88	1.19	8.17	18.75
Skeletonema menezelli	1.69	2.25	3.00	0.56	6.32	25.07
Nitzschia pungens	1.73	3.10	2.49	1.32	5.23	30.30
Chaetoceros sp.	1.62	2.89	2.48	1.27	5.22	35.52
Thalassiosira sp.	3.61	4.50	2.08	1.06	4.38	39.90
Unknown Dinoflagellate sp.	2.64	2.17	2.04	1.28	4.30	44.20
Unknown diatom sp.	3.86	3.54	1.95	1.10	4.10	48.30
Nitzschia closterium	3.80	3.84	1.93	1.28	4.05	52.35
Leptocylicus minimum	0.90	1.84	1.83	1.00	3.86	56.21
Pyramimonas sp.	1.42	1.37	1.81	1.13	3.80	60.01
Peridinium sp.	0.87	1.19	1.48	0.80	3.11	63.12
Unknown Cryptophyte sp.	5.30	4.97	1.39	0.91	2.92	66.04
Ceratium hircus	0.47	1.27	1.33	0.65	2.79	68.83
Thalassionema nitzschoides	0.36	1.37	1.31	0.83	2.76	71.59
Rhizosolenia setigera	0.36	1.05	1.09	0.82	2.29	73.89
Leptocylicus danicus	0.50	0.82	1.07	0.75	2.24	76.13
Navicula sp. large	0.39	0.96	1.04	0.83	2.20	78.33
Unknown diatom sp. A	0.00	0.97	0.91	0.57	1.92	80.25
Prorocentrum sp.	0.27	0.79	0.88	0.57	1.86	82.10
Navicula sp. small	0.89	0.17	0.88	0.55	1.85	83.95
Chaetoceros gracile	0.00	0.60	0.61	0.26	1.28	85.23
Akistrodesmus sp.	0.45	0.17	0.56	0.40	1.18	86.41
Aphanocapsa sp.	0.25	0.50	0.56	0.51	1.18	87.59
Chaetoceros subtilis	0.66	0.00	0.55	0.33	1.16	88.75
Scenedesmus sp.	0.38	0.20	0.53	0.42	1.12	89.87
Unknown bluegreen sp.	0.25	0.43	0.52	0.58	1.09	90.96

Groups ALA0 & ALASFC

Average dissimilarity = 66.09

Species	Group ALA0 Av.Abund	Group ALASFC Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	1.73	9.23	9.08	1.51	13.74	13.74
Skeletonema costatum	0.16	5.96	6.28	5.07	9.50	23.24
Unknown diatom sp. D	2.34	8.36	5.86	1.71	8.87	32.11
Nitzschia closterium	0.20	4.12	4.45	2.59	6.73	38.84
Unknown Cryptophyte sp.	4.79	7.43	3.82	1.90	5.78	44.62
Pyramimonas sp.	0.84	3.83	3.28	2.42	4.97	49.59
Thalassiosira sp.	2.01	4.72	2.98	2.15	4.51	54.10

Chaetoceros sp.	0.13	3.08	2.70	1.01	4.09	58.19
Gymnodinium sp.	0.09	2.63	2.30	1.02	3.49	61.67
Nitzschia pungens	0.80	2.29	2.17	1.32	3.28	64.95
Unknown diatom sp.	3.09	4.70	1.92	1.45	2.90	67.85
Prorocentrum micans	1.61	0.00	1.83	0.55	2.77	70.62
Leptocylicus minimum	0.61	1.88	1.77	1.23	2.68	73.30
Scenedesmus sp.	1.47	0.00	1.55	1.10	2.34	75.64
Prorocentrum sp.	0.45	1.50	1.47	0.98	2.23	77.87
Navicula sp. small	1.23	0.00	1.36	0.81	2.06	79.93
Peridinium sp.	0.00	1.50	1.30	0.98	1.97	81.90
Navicula sp. large	0.66	1.26	1.26	1.03	1.91	83.80
Leptocylicus danicus	0.27	1.26	1.17	1.01	1.76	85.57
Rhizosolenia setigera	0.00	1.26	1.09	0.98	1.65	87.22
Coscinodiscus sp.	0.83	0.00	0.91	0.56	1.38	88.60
Unknown bluegreen sp.	0.83	0.00	0.91	0.86	1.38	89.98
Tetradron sp.	0.82	0.00	0.83	0.71	1.26	91.24

Groups ALA12 & ALASFC

Average dissimilarity = 49.90

Species	Group ALA12 Av.Abund	Group ALASFC Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	3.25	9.23	6.38	1.30	12.78	12.78
Unknown diatom sp. D	7.23	8.36	4.25	1.33	8.51	21.30
Nitzschia closterium	0.77	4.12	3.27	1.89	6.55	27.85
Skeletonema costatum	4.12	5.96	3.21	1.28	6.43	34.28
Chaetoceros sp.	1.55	3.08	2.58	1.18	5.18	39.46
Thalassiosira sp.	3.70	4.72	2.43	0.84	4.87	44.32
Unknown Cryptophyte sp.	6.15	7.43	2.14	1.38	4.29	48.61
Pyramimonas sp.	1.87	3.83	2.03	1.16	4.07	52.68
Gymnodinium sp.	0.00	2.63	2.00	0.97	4.01	56.69
Prorocentrum sp.	1.24	1.50	1.90	0.75	3.81	60.50
Nitzschia pungens	0.54	2.29	1.83	1.10	3.67	64.17
Peridinium sp.	1.64	1.50	1.75	0.92	3.52	67.68
Unknown diatom sp.	3.44	4.70	1.75	1.13	3.51	71.19
Eutreptia sp.	1.93	0.00	1.73	0.61	3.46	74.65
Prorocentrum minimum	1.70	0.00	1.59	0.34	3.19	77.84
Leptocylicus minimum	0.54	1.88	1.52	1.07	3.04	80.88
Skeletonema menezelli	1.67	0.00	1.38	0.38	2.76	83.64
Leptocylicus danicus	0.30	1.26	1.06	1.00	2.13	85.77
Rhizosolenia setigera	0.34	1.26	1.00	0.97	2.01	87.78
Navicula sp. large	0.17	1.26	0.98	0.96	1.97	89.76

Prorocentrum micans	0.57	0.00	0.60	0.35	1.21	90.97
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Groups ALA18 & ALASFC

Average dissimilarity = 50.01

Species	Group ALA18 Av.Abund	Group ALASFC Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	2.82	9.23	6.40	1.38	12.79	12.79
Unknown diatom sp. D	7.76	8.36	4.13	1.30	8.25	21.05
Skeletonema costatum	4.35	5.96	4.07	1.56	8.15	29.19
Chaetoceros sp.	1.79	3.08	2.67	1.17	5.33	34.52
Nitzschia closterium	1.48	4.12	2.57	1.51	5.14	39.66
Pyramimonas sp.	1.42	3.83	2.39	1.46	4.78	44.44
Thalassiosira sp.	3.84	4.72	2.36	1.13	4.72	49.16
Nitzschia pungens	1.50	2.29	2.04	1.20	4.07	53.23
Gymnodinium sp.	0.17	2.63	1.99	0.99	3.98	57.21
Unknown diatom sp.	3.26	4.70	1.98	1.20	3.97	61.18
Unknown Cryptophyte sp.	5.78	7.43	1.91	1.34	3.81	64.99
Peridinium sp.	1.96	1.50	1.86	1.01	3.72	68.71
Skeletonema menezelli	2.12	0.00	1.68	0.36	3.37	72.08
Leptocylindricus minimum	1.10	1.88	1.59	1.07	3.17	75.26
Leptocylindricus danicus	1.12	1.26	1.48	0.86	2.96	78.22
Prorocentrum minimum	1.51	0.00	1.43	0.45	2.85	81.07
Prorocentrum sp.	0.40	1.50	1.21	0.99	2.41	83.48
Navicula sp. large	0.89	1.26	1.19	1.03	2.39	85.87
Rhizosolenia setigera	0.91	1.26	1.16	1.07	2.33	88.20
Unknown diatom sp. A	0.89	0.00	0.74	0.43	1.48	89.67
Chaetoceros gracile	0.89	0.00	0.71	0.36	1.41	91.09

Groups ALA6 & ALASFC

Average dissimilarity = 56.42

Species	Group ALA6 Av.Abund	Group ALASFC Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	2.98	9.23	6.75	1.25	11.97	11.97
Unknown diatom sp. D	5.41	8.36	4.77	1.37	8.45	20.42
Skeletonema costatum	1.59	5.96	4.14	1.79	7.34	27.76
Nitzschia closterium	0.51	4.12	3.54	2.18	6.27	34.04
Thalassiosira sp.	2.99	4.72	2.64	1.34	4.67	38.71
Unknown Cryptophyte sp.	6.93	7.43	2.59	1.23	4.59	43.30
Chaetoceros sp.	0.51	3.08	2.47	1.03	4.37	47.66

Pyramimonas sp.	1.63	3.83	2.35	1.33	4.16	51.82
Gymnodinium sp.	0.26	2.63	2.08	0.99	3.68	55.51
Unknown diatom sp.	3.19	4.70	2.05	1.18	3.64	59.14
Peridinium sp.	1.80	1.50	1.85	1.03	3.29	62.43
Nitzschia pungens	0.40	2.29	1.83	1.02	3.24	65.67
Prorocentrum minimum	1.60	0.00	1.58	0.29	2.80	68.47
Eutreptia sp.	1.63	0.00	1.56	0.60	2.77	71.23
Leptocylindricus minimum	0.50	1.88	1.53	1.06	2.72	73.95
Prorocentrum sp.	0.69	1.50	1.47	0.89	2.61	76.56
Eutreptiella sp.	1.38	0.00	1.25	0.44	2.22	78.78
Leptocylindricus danicus	0.52	1.26	1.22	0.93	2.16	80.94
Navicula sp. large	0.33	1.26	1.05	0.96	1.86	82.80
Rhizosolenia setigera	0.29	1.26	1.04	1.03	1.84	84.64
Scenedesmus sp.	1.08	0.00	0.95	0.64	1.68	86.32
Unknown bluegreen sp.	0.81	0.00	0.77	0.53	1.37	87.69
Glenodinium sp.	0.71	0.00	0.68	0.36	1.21	88.90
Prorocentrum redfieldi	0.74	0.00	0.68	0.25	1.21	90.10

Groups ALASFB & ALASFC

Average dissimilarity = 44.20

Species	Group ALASFB Av.Abund	Group ALASFC Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	2.64	9.23	6.89	1.33	15.58	15.58
Unknown diatom sp. D	7.21	8.36	4.11	1.34	9.30	24.88
Skeletonema costatum	6.05	5.96	3.70	1.75	8.36	33.24
Pyramimonas sp.	1.42	3.83	2.60	2.11	5.88	39.13
Chaetoceros sp.	1.62	3.08	2.59	1.17	5.85	44.98
Unknown Cryptophyte sp.	5.30	7.43	2.33	2.56	5.28	50.26
Nitzschia pungens	1.73	2.29	2.07	1.23	4.67	54.93
Gymnodinium sp.	0.30	2.63	2.04	1.01	4.61	59.54
Unknown diatom sp.	3.86	4.70	1.73	1.11	3.91	63.45
Leptocylindricus minimum	0.90	1.88	1.59	1.06	3.60	67.04
Thalassiosira sp.	3.61	4.72	1.53	0.89	3.45	70.50
Peridinium sp.	0.87	1.50	1.48	0.96	3.36	73.85
Skeletonema menezelli	1.69	0.00	1.33	0.32	3.01	76.86
Prorocentrum sp.	0.27	1.50	1.21	0.95	2.73	79.59
Nitzschia closterium	3.80	4.12	1.11	1.14	2.51	82.10
Rhizosolenia setigera	0.36	1.26	1.07	0.99	2.42	84.52
Leptocylindricus danicus	0.50	1.26	1.06	0.91	2.40	86.92
Navicula sp. large	0.39	1.26	1.04	1.01	2.36	89.28
Navicula sp. small	0.89	0.00	0.72	0.47	1.63	90.91

Groups ALATB & ALASFC

Average dissimilarity = 44.42

Species	Group ALATB Av.Abund	Group ALASFC Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	2.17	9.23	6.84	1.46	15.40	15.40
Unknown diatom sp. D	5.42	8.36	3.60	1.39	8.11	23.51
Skeletonema costatum	8.40	5.96	3.27	1.46	7.37	30.88
Chaetoceros sp.	2.89	3.08	2.60	1.46	5.85	36.73
Nitzschia pungens	3.10	2.29	2.24	1.18	5.04	41.77
Pyramimonas sp.	1.37	3.83	2.09	1.52	4.70	46.47
Unknown Cryptophyte sp.	4.97	7.43	2.02	2.78	4.55	51.02
Gymnodinium sp.	0.17	2.63	1.89	1.00	4.26	55.28
Leptocylindricus minimum	1.84	1.88	1.76	1.09	3.97	59.25
Skeletonema menezelli	2.25	0.00	1.69	0.45	3.80	63.05
Nitzschia closterium	3.84	4.12	1.45	1.10	3.27	66.32
Unknown diatom sp.	3.54	4.70	1.45	1.14	3.26	69.57
Peridinium sp.	1.19	1.50	1.33	1.02	3.00	72.57
Prorocentrum sp.	0.79	1.50	1.28	0.99	2.88	75.44
Thalassiosira sp.	4.50	4.72	1.24	0.88	2.80	78.24
Leptocylindricus danicus	0.82	1.26	1.15	1.04	2.59	80.83
Navicula sp. large	0.96	1.26	1.12	1.03	2.51	83.34
Rhizosolenia setigera	1.05	1.26	1.11	1.03	2.51	85.85
Thalassionema nitzschoides	1.37	0.00	1.05	0.75	2.35	88.21
Ceratium hircus	1.27	0.00	0.97	0.56	2.18	90.39

Groups ALA0 & LMR0

Average dissimilarity = 97.87

Species	Group ALA0 Av.Abund	Group LMR0 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	9.39	1.54	9.59	9.59
Unknown diatom sp.	3.09	0.00	5.96	2.27	6.09	15.69
Skeletonema costatum	0.16	3.27	5.48	0.94	5.60	21.28
Unknown diatom sp. D	2.34	0.00	4.41	1.52	4.50	25.79
Unknown pennate diatom sp.	0.00	2.07	3.98	1.75	4.07	29.86
Thalassiosira sp.	2.01	0.10	3.74	1.73	3.83	33.68
Unknown Dinoflagellate sp.	1.73	0.00	3.44	0.96	3.51	37.20
Prorocentrum micans	1.61	0.00	3.38	0.54	3.45	40.65
Cyclotella sp. (small)	0.00	1.79	3.28	0.70	3.35	44.00

Cyclotella sp.	0.00	1.76	3.26	0.73	3.33	47.33
Scenedesmus sp.	1.47	0.26	2.63	1.14	2.69	50.02
Cyclotella sp. (large)	0.00	1.45	2.57	0.59	2.62	52.64
Navicula sp. small	1.23	0.00	2.45	0.83	2.50	55.14
Scenedesmus quadracauda	0.00	1.15	2.08	1.08	2.12	57.26
Eutreptia sp.	0.37	0.88	2.01	0.95	2.06	59.32
Gymnodinium sp.	0.09	1.01	1.90	1.01	1.94	61.26
Schroederia setigera	0.00	1.04	1.86	1.05	1.90	63.16
Thalassiosira pseudonana	0.00	1.05	1.84	0.55	1.88	65.03
Unknown bluegreen sp.	0.83	0.00	1.63	0.87	1.67	66.70
Coscinodiscus sp.	0.83	0.00	1.63	0.57	1.67	68.37
Scenedesmus bijinga	0.00	0.90	1.62	0.83	1.66	70.03
Thalassiosira decipiens	0.00	0.91	1.55	0.49	1.59	71.61
Pyramimonas sp.	0.84	0.00	1.52	0.82	1.56	73.17
Nitzschia pungens	0.80	0.00	1.49	0.77	1.52	74.69
Tetraedron sp.	0.82	0.08	1.43	0.77	1.47	76.16
Navicula sp. large	0.66	0.00	1.40	0.63	1.43	77.59
Nitzschia longissima	0.00	0.78	1.37	0.94	1.40	78.99
Akistrodesmus sp.	0.76	0.00	1.30	0.57	1.33	80.32
Leptocylicus minimum	0.61	0.00	1.17	0.64	1.20	81.52
Akistrodesmus falcatus	0.00	0.64	1.17	0.69	1.19	82.71
Nitzschia sp.	0.38	0.09	0.96	0.46	0.98	83.69
Melosira sp.	0.20	0.36	0.91	0.56	0.93	84.62
Prorocentrum sp.	0.45	0.00	0.87	0.38	0.89	85.51
Bluegreen filamentous sp.	0.00	0.41	0.81	0.61	0.83	86.34
Chaetoceros subtilis	0.00	0.44	0.77	0.50	0.79	87.12
Crucigenia sp.	0.21	0.22	0.77	0.64	0.78	87.91
Prorocentrum redfieldi	0.40	0.00	0.70	0.36	0.72	88.62
Cyclotella meneghiniana	0.00	0.40	0.63	0.27	0.65	89.27
Thalassionema nitzschoides	0.35	0.00	0.63	0.48	0.64	89.91
Eutreptiella sp.	0.35	0.00	0.62	0.38	0.64	90.55

Groups ALA12 & LMR0

Average dissimilarity = 94.51

Species	Group ALA12 Av.Abund	Group LMR0 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.23	0.00	10.25	1.73	10.84	10.84
Unknown Cryptophyte sp.	6.15	0.00	8.97	2.53	9.50	20.34
Skeletonema costatum	4.12	3.27	5.93	1.09	6.28	26.62
Thalassiosira sp.	3.70	0.10	5.28	0.95	5.58	32.20
Unknown diatom sp.	3.44	0.00	4.91	1.73	5.20	37.40

Unknown Dinoflagellate sp.	3.25	0.00	4.71	1.20	4.99	42.39
Eutreptia sp.	1.93	0.88	3.21	0.87	3.39	45.79
Unknown pennate diatom sp.	0.00	2.07	3.03	1.81	3.21	48.99
Prorocentrum minimum	1.70	0.16	2.69	0.38	2.84	51.84
Cyclotella sp. (small)	0.00	1.79	2.53	0.68	2.68	54.51
Cyclotella sp.	0.00	1.76	2.50	0.72	2.65	57.16
Pyramimonas sp.	1.87	0.00	2.48	1.02	2.63	59.79
Chaetoceros sp.	1.55	0.00	2.13	0.73	2.25	62.04
Skeletonema menezelli	1.67	0.00	2.05	0.39	2.17	64.21
Prorocentrum sp.	1.24	0.00	2.03	0.41	2.15	66.36
Cyclotella sp. (large)	0.00	1.45	2.00	0.58	2.12	68.48
Peridinium sp.	1.64	0.00	1.99	0.65	2.10	70.58
Scenedesmus quadracauda	0.00	1.15	1.61	1.07	1.70	72.28
Gymnodinium sp.	0.00	1.01	1.46	0.99	1.55	73.83
Schroederia setigera	0.00	1.04	1.44	1.05	1.52	75.35
Thalassiosira pseudonana	0.00	1.05	1.43	0.54	1.52	76.87
Scenedesmus bijinga	0.00	0.90	1.26	0.83	1.33	78.20
Thalassiosira decipiens	0.00	0.91	1.22	0.48	1.29	79.49
Nitzschia longissima	0.00	0.78	1.07	0.94	1.13	80.62
Nitzschia closterium	0.77	0.08	1.05	0.65	1.11	81.73
Prorocentrum micans	0.57	0.00	1.05	0.34	1.11	82.84
Coscinodiscus sp.	0.63	0.00	0.98	0.49	1.04	83.88
Unknown Katodinium sp.	0.46	0.00	0.90	0.26	0.95	84.83
Akistrodesmus falcatus	0.00	0.64	0.90	0.69	0.95	85.78
Nitzschia pungens	0.54	0.00	0.77	0.49	0.81	86.59
Ceratium hircus	0.44	0.00	0.76	0.38	0.80	87.40
Leptocyldricus minimum	0.54	0.00	0.74	0.49	0.79	88.18
Scenedesmus sp.	0.24	0.26	0.68	0.43	0.72	88.90
Bluegreen filamentous sp.	0.00	0.41	0.61	0.61	0.65	89.55
Chaetoceros subtilis	0.00	0.44	0.60	0.50	0.64	90.19

Groups ALA18 & LMR0

Average dissimilarity = 95.48

Species	Group ALA18 Av.Abund	Group LMR0 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.76	0.00	10.17	2.21	10.66	10.66
Unknown Cryptophyte sp.	5.78	0.00	8.50	2.17	8.90	19.56
Skeletonema costatum	4.35	3.27	6.26	1.10	6.56	26.12
Thalassiosira sp.	3.84	0.10	4.94	1.29	5.17	31.29
Unknown Dinoflagellate sp.	2.82	0.00	4.54	1.09	4.76	36.05
Unknown diatom sp.	3.26	0.00	4.33	1.66	4.54	40.58

Unknown pennate diatom sp.	0.00	2.07	3.01	1.65	3.15	43.73
Cyclotella sp. (small)	0.00	1.79	2.51	0.67	2.63	46.36
Peridinium sp.	1.96	0.00	2.50	0.76	2.62	48.98
Prorocentrum minimum	1.51	0.16	2.49	0.47	2.61	51.59
Cyclotella sp.	0.00	1.76	2.48	0.70	2.60	54.19
Skeletonema menezelli	2.12	0.00	2.47	0.37	2.58	56.78
Nitzschia pungens	1.50	0.00	2.14	0.81	2.24	59.02
Nitzschia closterium	1.48	0.08	2.13	0.96	2.23	61.25
Chaetoceros sp.	1.79	0.00	2.04	0.71	2.14	63.39
Cyclotella sp. (large)	0.00	1.45	1.98	0.57	2.07	65.46
Pyramimonas sp.	1.42	0.00	1.80	0.83	1.89	67.35
Scenedesmus quadracauda	0.00	1.15	1.59	1.03	1.67	69.02
Gymnodinium sp.	0.17	1.01	1.51	0.98	1.58	70.60
Schroederia setigera	0.00	1.04	1.43	1.01	1.49	72.09
Thalassiosira pseudonana	0.00	1.05	1.42	0.53	1.49	73.58
Eutreptia sp.	0.10	0.88	1.30	0.93	1.36	74.94
Scenedesmus bijinga	0.00	0.90	1.25	0.81	1.30	76.25
Leptocylicus minimum	1.10	0.00	1.24	0.66	1.30	77.55
Navicula sp. large	0.89	0.00	1.21	0.65	1.27	78.82
Thalassiosira decipiens	0.00	0.91	1.21	0.47	1.26	80.08
Leptocylicus danicus	1.12	0.00	1.18	0.43	1.24	81.32
Unknown diatom sp. A	0.89	0.00	1.11	0.45	1.16	82.48
Chaetoceros gracile	0.89	0.00	1.06	0.36	1.11	83.59
Nitzschia longissima	0.00	0.78	1.06	0.90	1.11	84.70
Chaetoceros subtilis	0.47	0.44	1.04	0.49	1.09	85.79
Rhizosolenia setigera	0.91	0.00	1.03	0.65	1.08	86.87
Unknown Katodinium sp.	0.47	0.00	0.94	0.35	0.99	87.86
Eutreptiella sp.	0.49	0.00	0.90	0.34	0.95	88.80
Akistrodesmus falcatus	0.00	0.64	0.89	0.67	0.93	89.74
Scenedesmus sp.	0.46	0.26	0.81	0.52	0.85	90.59

Groups ALA6 & LMR0

Average dissimilarity = 96.32

Species	Group ALA6 Av.Abund	Group LMR0 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	6.93	0.00	10.54	2.10	10.94	10.94
Unknown diatom sp. D	5.41	0.00	8.42	1.10	8.74	19.68
Skeletonema costatum	1.59	3.27	4.96	1.00	5.15	24.83
Unknown diatom sp.	3.19	0.00	4.75	1.46	4.93	29.75
Thalassiosira sp.	2.99	0.10	4.57	1.01	4.74	34.49
Unknown Dinoflagellate sp.	2.98	0.00	4.33	1.43	4.49	38.99

Unknown pennate diatom sp.	0.00	2.07	3.20	1.66	3.33	42.31
Eutreptia sp.	1.63	0.88	3.05	0.91	3.17	45.48
Prorocentrum minimum	1.60	0.16	2.82	0.32	2.92	48.41
Cyclotella sp. (small)	0.00	1.79	2.66	0.67	2.76	51.17
Cyclotella sp.	0.00	1.76	2.64	0.71	2.74	53.91
Peridinium sp.	1.80	0.00	2.60	0.80	2.70	56.61
Pyramimonas sp.	1.63	0.00	2.20	0.92	2.28	58.89
Cyclotella sp. (large)	0.00	1.45	2.10	0.57	2.18	61.07
Eutreptiella sp.	1.38	0.00	2.03	0.47	2.11	63.18
Gymnodinium sp.	0.26	1.01	1.71	1.00	1.78	64.96
Scenedesmus quadracauda	0.00	1.15	1.69	1.04	1.75	66.71
Scenedesmus sp.	1.08	0.26	1.63	0.75	1.69	68.40
Schroederia setigera	0.00	1.04	1.51	1.02	1.57	69.97
Thalassiosira pseudonana	0.00	1.05	1.50	0.54	1.56	71.53
Scenedesmus bijinga	0.00	0.90	1.32	0.81	1.37	72.90
Thalassiosira decipiens	0.00	0.91	1.28	0.48	1.33	74.23
Unknown bluegreen sp.	0.81	0.00	1.27	0.52	1.32	75.55
Nitzschia longissima	0.00	0.78	1.12	0.91	1.16	76.72
Glenodinium sp.	0.71	0.00	1.11	0.37	1.15	77.87
Prorocentrum redfieldi	0.74	0.00	1.07	0.25	1.11	78.98
Akistrodesmus falcatus	0.00	0.64	0.95	0.68	0.98	79.96
Nitzschia closterium	0.51	0.08	0.88	0.53	0.91	80.88
Navicula sp. small	0.46	0.00	0.88	0.46	0.91	81.79
Unknown Katodinium sp.	0.69	0.00	0.84	0.26	0.87	82.65
Prorocentrum sp.	0.69	0.00	0.83	0.34	0.86	83.52
Skeletonema menezelli	0.59	0.00	0.82	0.26	0.85	84.37
Leptocylindricus danicus	0.52	0.00	0.75	0.36	0.78	85.15
Pseudopedinella sp.	0.61	0.00	0.73	0.26	0.75	85.90
Amphora sp.	0.40	0.00	0.69	0.36	0.72	86.62
Bluegreen filamentous sp.	0.00	0.41	0.65	0.60	0.67	87.29
Leptocylindricus minimum	0.50	0.00	0.64	0.46	0.67	87.96
Chaetoceros subtilis	0.00	0.44	0.63	0.49	0.66	88.62
Chaetoceros sp.	0.51	0.00	0.62	0.37	0.65	89.26
Tetraedron sp.	0.44	0.08	0.58	0.44	0.60	89.86
Melosira sp.	0.00	0.36	0.55	0.48	0.57	90.43

Groups ALASFB & LMR0

Average dissimilarity = 93.35

Species	Group ALASFB Av.Abund	Group LMR0 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.21	0.00	9.79	2.24	10.49	10.49

Unknown Cryptophyte sp.	5.30	0.00	8.11	2.24	8.69	19.17
Skeletonema costatum	6.05	3.27	7.82	1.35	8.38	27.55
Unknown diatom sp.	3.86	0.00	5.27	2.24	5.65	33.20
Nitzschia closterium	3.80	0.08	5.26	3.57	5.63	38.83
Thalassiosira sp.	3.61	0.10	4.78	2.38	5.13	43.96
Unknown Dinoflagellate sp.	2.64	0.00	3.63	1.79	3.89	47.85
Unknown pennate diatom sp.	0.00	2.07	3.07	1.71	3.28	51.13
Cyclotella sp. (small)	0.00	1.79	2.55	0.67	2.74	53.87
Cyclotella sp.	0.00	1.76	2.53	0.71	2.71	56.58
Nitzschia pungens	1.73	0.00	2.44	0.96	2.62	59.20
Chaetoceros sp.	1.62	0.00	2.16	0.77	2.31	61.51
Pyramimonas sp.	1.42	0.00	2.11	0.74	2.26	63.77
Cyclotella sp. (large)	0.00	1.45	2.02	0.57	2.16	65.93
Skeletonema menezelli	1.69	0.00	1.94	0.33	2.07	68.00
Scenedesmus quadricauda	0.00	1.15	1.62	1.04	1.74	69.74
Gymnodinium sp.	0.30	1.01	1.60	1.03	1.71	71.45
Schroederia setigera	0.00	1.04	1.45	1.03	1.56	73.01
Thalassiosira pseudonana	0.00	1.05	1.44	0.54	1.55	74.55
Eutreptia sp.	0.19	0.88	1.37	0.95	1.47	76.03
Leptocylindricus minimum	0.90	0.00	1.27	0.62	1.36	77.39
Peridinium sp.	0.87	0.00	1.27	0.49	1.36	78.75
Chaetoceros subtilis	0.66	0.44	1.27	0.54	1.36	80.11
Scenedesmus bijinga	0.00	0.90	1.27	0.82	1.36	81.47
Thalassiosira decipiens	0.00	0.91	1.23	0.48	1.32	82.78
Nitzschia longissima	0.00	0.78	1.08	0.92	1.15	83.94
Navicula sp. small	0.89	0.00	1.06	0.49	1.14	85.08
Akistrodesmus falcatus	0.00	0.64	0.91	0.68	0.97	86.05
Leptocylindricus danicus	0.50	0.00	0.88	0.45	0.95	86.99
Scenedesmus sp.	0.38	0.26	0.82	0.48	0.88	87.87
Navicula sp. large	0.39	0.00	0.71	0.47	0.76	88.63
Akistrodesmus sp.	0.45	0.00	0.64	0.33	0.69	89.32
Bluegreen filamentous sp.	0.00	0.41	0.62	0.60	0.66	89.98
Gonyaulax sp.	0.48	0.00	0.59	0.33	0.64	90.62

Groups ALATB & LMR0

Average dissimilarity = 92.99

Species	Group ALATB Av.Abund	Group LMR0 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	8.40	3.27	8.58	1.46	9.23	9.23
Unknown diatom sp. D	5.42	0.00	6.82	1.90	7.33	16.56
Unknown Cryptophyte sp.	4.97	0.00	6.81	2.36	7.32	23.88

Thalassiosira sp.	4.50	0.10	5.41	2.47	5.82	29.71
Nitzschia closterium	3.84	0.08	4.72	1.96	5.08	34.79
Unknown diatom sp.	3.54	0.00	4.56	2.11	4.90	39.69
Nitzschia pungens	3.10	0.00	4.03	1.47	4.33	44.02
Chaetoceros sp.	2.89	0.00	3.56	1.41	3.83	47.85
Unknown pennate diatom sp.	0.00	2.07	2.71	1.77	2.91	50.76
Unknown Dinoflagellate sp.	2.17	0.00	2.59	1.07	2.79	53.55
Skeletonema menezelli	2.25	0.00	2.43	0.45	2.61	56.17
Cyclotella sp. (small)	0.00	1.79	2.27	0.67	2.44	58.61
Cyclotella sp.	0.00	1.76	2.24	0.71	2.41	61.02
Leptocyndricus minimum	1.84	0.00	2.09	0.84	2.24	63.26
Pyramimonas sp.	1.37	0.00	1.85	0.83	1.98	65.25
Cyclotella sp. (large)	0.00	1.45	1.80	0.57	1.93	67.18
Thalassionema nitzschoides	1.37	0.00	1.52	0.77	1.63	68.81
Scenedesmus quadricauda	0.00	1.15	1.44	1.05	1.55	70.37
Ceratium hircus	1.27	0.00	1.41	0.57	1.52	71.89
Gymnodinium sp.	0.17	1.01	1.35	1.01	1.45	73.34
Schroederia setigera	0.00	1.04	1.29	1.03	1.39	74.73
Thalassiosira pseudonana	0.00	1.05	1.29	0.54	1.39	76.11
Rhizosolenia setigera	1.05	0.00	1.23	0.76	1.32	77.43
Peridinium sp.	1.19	0.00	1.21	0.66	1.30	78.73
Unknown diatom sp. A	0.97	0.00	1.21	0.58	1.30	80.03
Eutreptia sp.	0.00	0.88	1.16	0.92	1.24	81.27
Scenedesmus bijinga	0.00	0.90	1.13	0.82	1.21	82.49
Thalassiosira decipiens	0.00	0.91	1.10	0.48	1.18	83.67
Navicula sp. large	0.96	0.00	1.10	0.67	1.18	84.85
Leptocyndricus danicus	0.82	0.00	0.99	0.57	1.07	85.92
Nitzschia longissima	0.00	0.78	0.96	0.92	1.03	86.95
Prorocentrum sp.	0.79	0.00	0.82	0.46	0.88	87.83
Akistrodesmus falcatus	0.00	0.64	0.81	0.69	0.87	88.69
Chaetoceros gracile	0.60	0.00	0.80	0.26	0.86	89.56
Nitzschia delicatissima	0.52	0.00	0.61	0.26	0.66	90.22

Groups ALASFC & LMR0

Average dissimilarity = 92.80

Species	Group ALASFC Av.Abund	Group LMR0 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	12.20	1.71	13.15	13.15
Unknown diatom sp. D	8.36	0.00	9.08	3.49	9.78	22.93
Unknown Cryptophyte sp.	7.43	0.00	8.76	5.99	9.44	32.37
Thalassiosira sp.	4.72	0.10	5.56	3.89	6.00	38.36

Unknown diatom sp.	4.70	0.00	5.40	7.98	5.82	44.18
Nitzschia closterium	4.12	0.08	5.01	2.81	5.40	49.58
Skeletonema costatum	5.96	3.27	4.85	1.52	5.23	54.80
Pyramimonas sp.	3.83	0.00	4.59	4.57	4.94	59.75
Chaetoceros sp.	3.08	0.00	2.87	0.97	3.10	62.84
Gymnodinium sp.	2.63	1.01	2.72	1.51	2.93	65.78
Unknown pennate diatom sp.	0.00	2.07	2.47	1.76	2.66	68.43
Nitzschia pungens	2.29	0.00	2.14	0.97	2.30	70.74
Cyclotella sp. (small)	0.00	1.79	2.07	0.66	2.23	72.97
Cyclotella sp.	0.00	1.76	2.05	0.69	2.20	75.18
Leptocylindricus minimum	1.88	0.00	1.75	0.97	1.89	77.07
Cyclotella sp. (large)	0.00	1.45	1.65	0.56	1.77	78.84
Prorocentrum sp.	1.50	0.00	1.39	0.97	1.50	80.34
Peridinium sp.	1.50	0.00	1.39	0.97	1.50	81.85
Scenedesmus quadracauda	0.00	1.15	1.32	1.03	1.42	83.27
Schroederia setigera	0.00	1.04	1.18	1.02	1.28	84.55
Thalassiosira pseudonana	0.00	1.05	1.18	0.53	1.27	85.82
Rhizosolenia setigera	1.26	0.00	1.17	0.97	1.26	87.08
Navicula sp. large	1.26	0.00	1.17	0.97	1.26	88.35
Leptocylindricus danicus	1.26	0.00	1.17	0.97	1.26	89.61
Eutreptia sp.	0.00	0.88	1.05	0.91	1.13	90.75

Groups ALA0 & LMR12

Average dissimilarity = 94.56

Species	Group ALA0 Av.Abund	Group LMR12 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	9.62	1.56	10.18	10.18
Skeletonema costatum	0.16	3.94	7.53	2.54	7.96	18.14
Unknown diatom sp.	3.09	0.00	6.11	2.33	6.46	24.59
Chaetoceros subtilis	0.00	2.19	4.72	1.24	4.99	29.58
Unknown diatom sp. D	2.34	0.00	4.51	1.54	4.77	34.35
Prorocentrum micans	1.61	0.24	3.60	0.59	3.81	38.16
Unknown Dinoflagellate sp.	1.73	0.00	3.52	0.97	3.73	41.89
Thalassiosira sp.	2.01	0.84	3.22	1.41	3.41	45.30
Scenedesmus sp.	1.47	0.07	2.72	1.14	2.87	48.17
Navicula sp. small	1.23	0.00	2.51	0.84	2.65	50.82
Peridinium aciculiferum	0.00	1.12	2.37	0.85	2.50	53.33
Leptocylindricus minimum	0.61	0.80	1.89	0.93	2.00	55.33
Schizothrix sp.	0.00	1.06	1.78	0.56	1.88	57.21
Nitzschia pungens	0.80	0.45	1.77	0.93	1.87	59.08
Thalassiosira pseudonana	0.00	0.90	1.70	0.83	1.79	60.87

Unknown bluegreen sp.	0.83	0.00	1.67	0.88	1.77	62.64
Coscinodiscus sp.	0.83	0.00	1.67	0.57	1.77	64.41
Nitzschia closterium	0.20	0.79	1.61	0.92	1.70	66.11
Pyramimonas sp.	0.84	0.00	1.56	0.83	1.65	67.76
Eutreptia sp.	0.37	0.58	1.53	0.72	1.62	69.38
Navicula sp. large	0.66	0.00	1.43	0.63	1.51	70.90
Tetraedron sp.	0.82	0.00	1.43	0.74	1.51	72.41
Nitzschia longissima	0.00	0.75	1.40	0.93	1.48	73.89
Unknown pennate diatom sp.	0.00	0.75	1.38	0.86	1.46	75.36
Akistrodesmus sp.	0.76	0.05	1.38	0.60	1.46	76.81
Chaetoceros socialis	0.00	0.70	1.28	0.76	1.36	78.17
Schroederia setigera	0.00	0.53	1.08	0.62	1.15	79.32
Thalassionema nitzschoides	0.35	0.32	0.99	0.67	1.04	80.36
Nitzschia sp.	0.38	0.11	0.96	0.47	1.02	81.38
Prorocentrum sp.	0.45	0.00	0.89	0.38	0.94	82.32
Prorocentrum minimum	0.16	0.38	0.86	0.61	0.90	83.22
Leptocylindricus danicus	0.27	0.18	0.84	0.49	0.89	84.11
Gymnodinium sp.	0.09	0.37	0.82	0.61	0.87	84.98
Cyclotella sp.	0.00	0.45	0.78	0.49	0.82	85.80
Cyclotella sp. (small)	0.00	0.35	0.75	0.32	0.79	86.59
Ceratulina bergonii	0.00	0.40	0.72	0.45	0.76	87.36
Prorocentrum redfieldi	0.40	0.00	0.72	0.36	0.76	88.12
Chaetoceros neogracile	0.00	0.39	0.65	0.55	0.69	88.80
Eutreptiella sp.	0.35	0.00	0.64	0.39	0.67	89.48
Gonyaulax monilata	0.00	0.33	0.60	0.47	0.64	90.11

Groups ALA12 & LMR12

Average dissimilarity = 88.78

Species	Group ALA12 Av.Abund	Group LMR12 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.23	0.00	10.45	1.75	11.77	11.77
Unknown Cryptophyte sp.	6.15	0.00	9.16	2.58	10.31	22.09
Unknown diatom sp.	3.44	0.00	5.01	1.75	5.64	27.73
Thalassiosira sp.	3.70	0.84	4.94	0.91	5.57	33.30
Skeletonema costatum	4.12	3.94	4.82	1.13	5.43	38.73
Unknown Dinoflagellate sp.	3.25	0.00	4.81	1.21	5.42	44.15
Chaetoceros subtilis	0.00	2.19	3.50	1.27	3.94	48.09
Eutreptia sp.	1.93	0.58	3.08	0.76	3.47	51.56
Prorocentrum minimum	1.70	0.38	2.89	0.41	3.26	54.81
Pyramimonas sp.	1.87	0.00	2.53	1.02	2.85	57.66
Chaetoceros sp.	1.55	0.12	2.21	0.77	2.49	60.15

Peridinium sp.	1.64	0.20	2.14	0.72	2.41	62.56
Skeletonema menezelli	1.67	0.00	2.08	0.39	2.35	64.91
Prorocentrum sp.	1.24	0.00	2.08	0.42	2.34	67.25
Peridinium aciculiferum	0.00	1.12	1.76	0.86	1.99	69.24
Nitzschia closterium	0.77	0.79	1.61	1.05	1.82	71.05
Leptocylindricus minimum	0.54	0.80	1.44	0.83	1.62	72.68
Schizothrix sp.	0.00	1.06	1.40	0.55	1.58	74.25
Thalassiosira pseudonana	0.00	0.90	1.31	0.82	1.47	75.72
Prorocentrum micans	0.57	0.24	1.30	0.43	1.46	77.18
Nitzschia pungens	0.54	0.45	1.16	0.73	1.31	78.50
Nitzschia longissima	0.00	0.75	1.08	0.93	1.22	79.71
Unknown pennate diatom sp.	0.00	0.75	1.07	0.86	1.20	80.92
Coscinodiscus sp.	0.63	0.00	1.00	0.49	1.13	82.04
Chaetoceros socialis	0.00	0.70	0.99	0.77	1.12	83.16
Ceratium hircus	0.44	0.22	0.98	0.47	1.10	84.26
Unknown Katodinium sp.	0.46	0.00	0.92	0.26	1.04	85.30
Schroederia setigera	0.00	0.53	0.82	0.61	0.92	86.22
Rhizosolenia setigera	0.34	0.28	0.72	0.61	0.82	87.04
Cyclotella sp.	0.00	0.45	0.61	0.49	0.69	87.73
Chaetoceros gracile	0.35	0.00	0.59	0.26	0.67	88.40
Ceratulina bergonii	0.00	0.40	0.56	0.45	0.63	89.03
Cyclotella sp. (small)	0.00	0.35	0.56	0.32	0.63	89.65
Gymnodinium sp.	0.00	0.37	0.55	0.57	0.62	90.27

Groups ALA18 & LMR12

Average dissimilarity = 88.73

Species	Group ALA18 Av.Abund	Group LMR12 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.76	0.00	10.37	2.25	11.68	11.68
Unknown Cryptophyte sp.	5.78	0.00	8.68	2.20	9.78	21.46
Skeletonema costatum	4.35	3.94	5.79	1.33	6.52	27.99
Unknown Dinoflagellate sp.	2.82	0.00	4.65	1.09	5.24	33.22
Thalassiosira sp.	3.84	0.84	4.46	1.18	5.02	38.25
Unknown diatom sp.	3.26	0.00	4.41	1.68	4.97	43.22
Chaetoceros subtilis	0.47	2.19	3.69	1.24	4.15	47.38
Prorocentrum minimum	1.51	0.38	2.68	0.51	3.02	50.39
Peridinium sp.	1.96	0.20	2.62	0.82	2.95	53.34
Skeletonema menezelli	2.12	0.00	2.51	0.37	2.83	56.17
Nitzschia pungens	1.50	0.45	2.26	0.92	2.55	58.72
Nitzschia closterium	1.48	0.79	2.21	1.15	2.49	61.21
Chaetoceros sp.	1.79	0.12	2.13	0.75	2.40	63.61

Pyramimonas sp.	1.42	0.00	1.84	0.83	2.07	65.68
Leptocylindricus minimum	1.10	0.80	1.79	0.94	2.01	67.69
Peridinium aciculiferum	0.00	1.12	1.76	0.82	1.98	69.67
Schizothrix sp.	0.32	1.06	1.62	0.60	1.83	71.50
Leptocylindricus danicus	1.12	0.18	1.37	0.50	1.54	73.04
Thalassiosira pseudonana	0.00	0.90	1.30	0.80	1.46	74.50
Rhizosolenia setigera	0.91	0.28	1.24	0.81	1.39	75.90
Navicula sp. large	0.89	0.00	1.24	0.65	1.39	77.29
Unknown diatom sp. A	0.89	0.00	1.13	0.45	1.27	78.57
Chaetoceros gracile	0.89	0.00	1.08	0.36	1.21	79.78
Nitzschia longissima	0.00	0.75	1.07	0.89	1.21	80.99
Unknown pennate diatom sp.	0.00	0.75	1.06	0.83	1.19	82.18
Chaetoceros socialis	0.00	0.70	0.98	0.74	1.11	83.29
Unknown Katodinium sp.	0.47	0.00	0.97	0.35	1.09	84.38
Ceratium hircus	0.66	0.22	0.96	0.56	1.09	85.47
Eutreptiella sp.	0.49	0.00	0.92	0.34	1.04	86.51
Eutreptia sp.	0.10	0.58	0.89	0.75	1.00	87.51
Aphanocapsa sp.	0.71	0.00	0.81	0.47	0.92	88.43
Schroederia setigera	0.00	0.53	0.81	0.60	0.92	89.34
Gymnodinium sp.	0.17	0.37	0.69	0.62	0.77	90.12

Groups ALA6 & LMR12

Average dissimilarity = 92.31

Species	Group ALA6 Av.Abund	Group LMR12 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	6.93	0.00	10.76	2.13	11.66	11.66
Unknown diatom sp. D	5.41	0.00	8.60	1.10	9.31	20.97
Skeletonema costatum	1.59	3.94	4.99	1.74	5.41	26.38
Unknown diatom sp.	3.19	0.00	4.84	1.47	5.25	31.62
Unknown Dinoflagellate sp.	2.98	0.00	4.41	1.44	4.78	36.40
Thalassiosira sp.	2.99	0.84	4.35	1.05	4.72	41.12
Chaetoceros subtilis	0.00	2.19	3.72	1.19	4.03	45.15
Prorocentrum minimum	1.60	0.38	3.08	0.35	3.34	48.50
Eutreptia sp.	1.63	0.58	2.90	0.79	3.14	51.64
Peridinium sp.	1.80	0.20	2.72	0.87	2.94	54.58
Pyramimonas sp.	1.63	0.00	2.24	0.92	2.42	57.01
Eutreptiella sp.	1.38	0.00	2.08	0.47	2.25	59.26
Peridinium aciculiferum	0.00	1.12	1.88	0.83	2.03	61.29
Nitzschia closterium	0.51	0.79	1.56	0.95	1.69	62.98
Scenedesmus sp.	1.08	0.07	1.53	0.68	1.66	64.64
Schizothrix sp.	0.00	1.06	1.46	0.55	1.59	66.23

Leptocylindricus minimum	0.50	0.80	1.43	0.81	1.55	67.78
Thalassiosira pseudonana	0.00	0.90	1.38	0.81	1.49	69.27
Unknown bluegreen sp.	0.81	0.00	1.30	0.52	1.41	70.68
Nitzschia longissima	0.00	0.75	1.14	0.91	1.23	71.91
Glenodinium sp.	0.71	0.00	1.13	0.37	1.22	73.13
Unknown pennate diatom sp.	0.00	0.75	1.12	0.84	1.22	74.35
Prorocentrum redfieldi	0.74	0.00	1.09	0.26	1.19	75.54
Chaetoceros socialis	0.00	0.70	1.04	0.75	1.13	76.67
Nitzschia pungens	0.40	0.45	0.99	0.67	1.07	77.74
Leptocylindricus danicus	0.52	0.18	0.95	0.44	1.03	78.77
Navicula sp. small	0.46	0.00	0.90	0.47	0.97	79.74
Schroederia setigera	0.00	0.53	0.87	0.60	0.94	80.68
Unknown Katodinium sp.	0.69	0.00	0.85	0.26	0.92	81.60
Gymnodinium sp.	0.26	0.37	0.85	0.58	0.92	82.52
Prorocentrum sp.	0.69	0.00	0.85	0.34	0.92	83.44
Prorocentrum micans	0.46	0.24	0.84	0.39	0.91	84.35
Skeletonema menezelli	0.59	0.00	0.84	0.26	0.90	85.25
Amphora sp.	0.40	0.06	0.78	0.40	0.85	86.10
Chaetoceros sp.	0.51	0.12	0.77	0.45	0.83	86.93
Pseudopedinella sp.	0.61	0.00	0.74	0.26	0.80	87.73
Rhizosolenia setigera	0.29	0.28	0.70	0.60	0.75	88.49
Cyclotella sp.	0.00	0.45	0.64	0.48	0.69	89.18
Cyclotella sp. (small)	0.00	0.35	0.59	0.32	0.64	89.82
Ceratulina bergonii	0.00	0.40	0.59	0.44	0.64	90.46

Groups ALASFB & LMR12

Average dissimilarity = 84.78

Species	Group ALASFB Av.Abund	Group LMR12 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.21	0.00	9.98	2.28	11.77	11.77
Unknown Cryptophyte sp.	5.30	0.00	8.28	2.28	9.77	21.53
Skeletonema costatum	6.05	3.94	6.53	1.65	7.70	29.24
Unknown diatom sp.	3.86	0.00	5.37	2.28	6.34	35.57
Nitzschia closterium	3.80	0.79	4.46	2.18	5.26	40.83
Thalassiosira sp.	3.61	0.84	4.20	1.95	4.95	45.78
Chaetoceros subtilis	0.66	2.19	3.79	1.30	4.47	50.25
Unknown Dinoflagellate sp.	2.64	0.00	3.70	1.81	4.37	54.62
Nitzschia pungens	1.73	0.45	2.51	1.07	2.96	57.58
Chaetoceros sp.	1.62	0.12	2.25	0.82	2.65	60.23
Pyramimonas sp.	1.42	0.00	2.15	0.74	2.54	62.77
Skeletonema menezelli	1.69	0.00	1.97	0.33	2.32	65.09

Peridinium aciculiferum	0.00	1.12	1.79	0.83	2.11	67.20
Leptocylindricus minimum	0.90	0.80	1.79	0.88	2.11	69.31
Peridinium sp.	0.87	0.20	1.47	0.58	1.73	71.04
Schizothrix sp.	0.00	1.06	1.41	0.55	1.66	72.71
Thalassiosira pseudonana	0.00	0.90	1.32	0.81	1.56	74.26
Nitzschia longissima	0.00	0.75	1.09	0.91	1.29	75.55
Navicula sp. small	0.89	0.00	1.08	0.49	1.28	76.82
Unknown pennate diatom sp.	0.00	0.75	1.08	0.84	1.27	78.10
Leptocylindricus danicus	0.50	0.18	1.04	0.53	1.22	79.32
Eutreptia sp.	0.19	0.58	1.01	0.76	1.19	80.50
Chaetoceros socialis	0.00	0.70	1.00	0.75	1.18	81.69
Schroederia setigera	0.00	0.53	0.83	0.60	0.98	82.66
Gymnodinium sp.	0.30	0.37	0.82	0.66	0.96	83.63
Ceratium hircus	0.47	0.22	0.79	0.44	0.93	84.56
Thalassionema nitzschoides	0.36	0.32	0.77	0.56	0.90	85.46
Rhizosolenia setigera	0.36	0.28	0.74	0.56	0.87	86.33
Navicula sp. large	0.39	0.00	0.72	0.48	0.85	87.19
Akistrodesmus sp.	0.45	0.05	0.72	0.36	0.84	88.03
Scenedesmus sp.	0.38	0.07	0.62	0.37	0.74	88.77
Cyclotella sp.	0.00	0.45	0.61	0.48	0.72	89.49
Gonyaulax sp.	0.48	0.00	0.60	0.33	0.71	90.21

Groups ALATB & LMR12

Average dissimilarity = 83.99

Species	Group ALATB Av.Abund	Group LMR12 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	8.40	3.94	7.04	1.56	8.39	8.39
Unknown diatom sp. D	5.42	0.00	6.94	1.92	8.27	16.65
Unknown Cryptophyte sp.	4.97	0.00	6.94	2.39	8.26	24.91
Thalassiosira sp.	4.50	0.84	4.73	1.98	5.63	30.55
Unknown diatom sp.	3.54	0.00	4.64	2.13	5.53	36.08
Nitzschia closterium	3.84	0.79	4.23	1.79	5.04	41.11
Nitzschia pungens	3.10	0.45	3.84	1.46	4.57	45.68
Chaetoceros sp.	2.89	0.12	3.57	1.42	4.25	49.93
Chaetoceros subtilis	0.00	2.19	3.10	1.25	3.69	53.62
Unknown Dinoflagellate sp.	2.17	0.00	2.64	1.07	3.14	56.76
Skeletonema menezelli	2.25	0.00	2.47	0.45	2.94	59.70
Leptocylindricus minimum	1.84	0.80	2.32	1.02	2.77	62.47
Pyramimonas sp.	1.37	0.00	1.88	0.83	2.24	64.71
Thalassionema nitzschoides	1.37	0.32	1.66	0.89	1.97	66.68
Ceratium hircus	1.27	0.22	1.58	0.64	1.88	68.56

Peridinium aciculiferum	0.00	1.12	1.57	0.85	1.86	70.43
Rhizosolenia setigera	1.05	0.28	1.35	0.88	1.61	72.04
Peridinium sp.	1.19	0.20	1.34	0.76	1.60	73.64
Schizothrix sp.	0.00	1.06	1.26	0.54	1.50	75.14
Unknown diatom sp. A	0.97	0.00	1.23	0.58	1.46	76.60
Thalassiosira pseudonana	0.00	0.90	1.17	0.81	1.39	78.00
Leptocylindricus danicus	0.82	0.18	1.12	0.65	1.34	79.33
Navicula sp. large	0.96	0.00	1.11	0.67	1.33	80.66
Nitzschia longissima	0.00	0.75	0.97	0.92	1.15	81.81
Unknown pennate diatom sp.	0.00	0.75	0.96	0.85	1.14	82.95
Chaetoceros socialis	0.00	0.70	0.89	0.76	1.06	84.01
Prorocentrum minimum	0.27	0.38	0.83	0.50	0.99	85.00
Prorocentrum sp.	0.79	0.00	0.83	0.46	0.99	85.99
Chaetoceros gracile	0.60	0.00	0.82	0.26	0.97	86.96
Prorocentrum micans	0.54	0.24	0.77	0.64	0.91	87.88
Eutreptia sp.	0.00	0.58	0.73	0.74	0.87	88.75
Schroederia setigera	0.00	0.53	0.73	0.61	0.87	89.61
Nitzschia delicatissima	0.52	0.00	0.63	0.27	0.74	90.36

Groups ALASFC & LMR12

Average dissimilarity = 84.57

Species	Group ALASFC Av.Abund	Group LMR12 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	12.43	1.73	14.70	14.70
Unknown diatom sp. D	8.36	0.00	9.22	3.61	10.91	25.61
Unknown Cryptophyte sp.	7.43	0.00	8.91	6.42	10.54	36.14
Unknown diatom sp.	4.70	0.00	5.49	9.17	6.49	42.64
Thalassiosira sp.	4.72	0.84	4.77	2.52	5.64	48.27
Pyramimonas sp.	3.83	0.00	4.67	4.76	5.52	53.79
Nitzschia closterium	4.12	0.79	4.30	2.05	5.08	58.87
Chaetoceros sp.	3.08	0.12	2.94	1.02	3.48	62.35
Chaetoceros subtilis	0.00	2.19	2.80	1.25	3.32	65.67
Gymnodinium sp.	2.63	0.37	2.59	1.16	3.06	68.73
Skeletonema costatum	5.96	3.94	2.51	1.41	2.97	71.70
Nitzschia pungens	2.29	0.45	2.28	1.16	2.69	74.39
Leptocylindricus minimum	1.88	0.80	1.96	1.18	2.32	76.71
Peridinium sp.	1.50	0.20	1.47	1.08	1.73	78.45
Peridinium aciculiferum	0.00	1.12	1.42	0.84	1.68	80.12
Prorocentrum sp.	1.50	0.00	1.41	0.98	1.67	81.79
Rhizosolenia setigera	1.26	0.28	1.26	1.11	1.49	83.28
Leptocylindricus danicus	1.26	0.18	1.23	1.03	1.46	84.74

Navicula sp. large	1.26	0.00	1.19	0.98	1.41	86.14
Schizothrix sp.	0.00	1.06	1.16	0.54	1.37	87.52
Thalassiosira pseudonana	0.00	0.90	1.07	0.80	1.26	88.78
Nitzschia longissima	0.00	0.75	0.88	0.91	1.04	89.82
Unknown pennate diatom sp.	0.00	0.75	0.88	0.84	1.04	90.86

Groups LMR0 & LMR12

Average dissimilarity = 79.34

Species	Group LMR0 Av.Abund	Group LMR12 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	3.94	7.79	1.37	9.82	9.82
Chaetoceros subtilis	0.44	2.19	5.38	1.05	6.78	16.60
Cyclotella sp. (small)	1.79	0.35	4.33	0.76	5.46	22.06
Cyclotella sp.	1.76	0.45	4.23	0.82	5.33	27.40
Unknown pennate diatom sp.	2.07	0.75	3.91	1.18	4.93	32.33
Thalassiosira pseudonana	1.05	0.90	3.29	0.91	4.15	36.48
Cyclotella sp. (large)	1.45	0.08	3.19	0.61	4.02	40.50
Peridinium aciculiferum	0.11	1.12	2.92	0.84	3.68	44.18
Scenedesmus quadricauda	1.15	0.16	2.52	1.07	3.17	47.35
Schroederia setigera	1.04	0.53	2.41	1.07	3.04	50.39
Gymnodinium sp.	1.01	0.37	2.34	1.00	2.95	53.34
Eutreptia sp.	0.88	0.58	2.21	1.07	2.78	56.12
Schizothrix sp.	0.00	1.06	2.07	0.56	2.61	58.73
Thalassiosira sp.	0.10	0.84	2.01	0.72	2.53	61.26
Nitzschia longissima	0.78	0.75	2.00	1.07	2.52	63.78
Scenedesmus bijinga	0.90	0.00	1.97	0.82	2.49	66.27
Thalassiosira decipiens	0.91	0.06	1.94	0.52	2.45	68.72
Nitzschia closterium	0.08	0.79	1.75	0.89	2.21	70.93
Leptocylindricus minimum	0.00	0.80	1.54	0.68	1.95	72.87
Chaetoceros socialis	0.00	0.70	1.52	0.74	1.91	74.79
Akistrodesmus falcatus	0.64	0.00	1.43	0.66	1.80	76.58
Prorocentrum minimum	0.16	0.38	1.03	0.66	1.30	77.88
Bluegreen filamentous sp.	0.41	0.00	1.01	0.60	1.28	79.16
Nitzschia pungens	0.00	0.45	0.94	0.55	1.19	80.34
Scenedesmus acutus	0.34	0.10	0.89	0.46	1.12	81.47
Ceratulina bergonii	0.00	0.40	0.86	0.43	1.08	82.54
Melosira sp.	0.36	0.00	0.84	0.49	1.05	83.60
Chaetoceros neogracile	0.00	0.39	0.75	0.54	0.95	84.55
Cyclotella meneghiniana	0.40	0.00	0.74	0.27	0.94	85.49
Scrippsiella sp.	0.08	0.29	0.74	0.54	0.94	86.43
Crucigenia sp.	0.22	0.00	0.72	0.49	0.91	87.34

Merismopedia punctata	0.29	0.00	0.72	0.38	0.91	88.24
Gonyaulax monilata	0.00	0.33	0.71	0.47	0.90	89.14
Pleurosigma sp.	0.24	0.00	0.66	0.49	0.83	89.97
Scenedesmus sp.	0.26	0.07	0.61	0.45	0.77	90.74

Groups ALA0 & LMR6

Average dissimilarity = 97.18

Species	Group ALA0 Av.Abund	Group LMR6 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	9.01	1.62	9.27	9.27
Skeletonema costatum	0.16	4.06	7.28	2.63	7.49	16.76
Unknown diatom sp.	3.09	0.00	5.72	2.50	5.89	22.65
Chaetoceros subtilis	0.00	2.80	5.21	1.58	5.36	28.01
Unknown diatom sp. D	2.34	0.00	4.24	1.60	4.36	32.37
Thalassiosira sp.	2.01	0.31	3.35	1.67	3.45	35.82
Unknown Dinoflagellate sp.	1.73	0.00	3.29	0.99	3.39	39.21
Prorocentrum micans	1.61	0.00	3.22	0.56	3.32	42.53
Cyclotella sp. (small)	0.00	1.40	2.59	0.68	2.66	45.19
Scenedesmus sp.	1.47	0.00	2.57	1.15	2.65	47.84
Navicula sp. small	1.23	0.00	2.34	0.85	2.41	50.25
Schroederia setigera	0.00	1.25	2.29	1.43	2.36	52.61
Thalassiosira pseudonana	0.00	1.15	2.14	0.70	2.20	54.81
Peridinium aciculiferum	0.00	1.07	2.07	0.72	2.13	56.94
Gymnodinium sp.	0.09	1.06	1.94	0.86	2.00	58.93
Nitzschia longissima	0.00	0.91	1.76	1.22	1.81	60.74
Coscinodiscus sp.	0.83	0.00	1.57	0.58	1.61	62.35
Unknown bluegreen sp.	0.83	0.00	1.56	0.90	1.61	63.96
Nitzschia pungens	0.80	0.21	1.51	0.89	1.56	65.52
Pyramimonas sp.	0.84	0.06	1.49	0.87	1.53	67.05
Schizothrix sp.	0.00	0.71	1.40	0.47	1.44	68.49
Cyclotella sp.	0.00	0.79	1.39	0.53	1.43	69.93
Unknown pennate diatom sp.	0.00	0.72	1.36	0.73	1.40	71.33
Tetraedron sp.	0.82	0.00	1.35	0.75	1.39	72.72
Scenedesmus quadracauda	0.00	0.73	1.34	0.81	1.38	74.10
Leptocylindricus minimum	0.61	0.29	1.34	0.76	1.38	75.48
Navicula sp. large	0.66	0.00	1.33	0.65	1.37	76.86
Eutreptia sp.	0.37	0.42	1.28	0.63	1.31	78.17
Akistrodesmus sp.	0.76	0.00	1.26	0.58	1.29	79.46
Thalassiosira decipiens	0.00	0.59	1.08	0.73	1.11	80.57
Gonyaulax polygramma	0.00	0.53	1.01	0.68	1.04	81.62
Nitzschia closterium	0.20	0.40	0.96	0.64	0.99	82.60

Prorocentrum sp.	0.45	0.00	0.84	0.38	0.86	83.47
Leptocylindricus danicus	0.27	0.20	0.82	0.50	0.85	84.31
Akistrodesmus falcatus	0.00	0.46	0.81	0.56	0.83	85.15
Scenedesmus bijinga	0.00	0.43	0.79	0.50	0.82	85.96
Nitzschia sp.	0.38	0.00	0.74	0.38	0.76	86.72
Euglena sp.	0.00	0.38	0.72	0.49	0.74	87.46
Thalassionema nitzschoides	0.35	0.09	0.71	0.54	0.73	88.19
Peridinium sp.	0.00	0.41	0.70	0.55	0.72	88.92
Prorocentrum minimum	0.16	0.29	0.70	0.56	0.72	89.63
Prorocentrum redfieldi	0.40	0.00	0.68	0.36	0.70	90.33

Groups ALA12 & LMR6

Average dissimilarity = 91.11

Species	Group ALA12 Av.Abund	Group LMR6 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.23	0.00	9.99	1.78	10.96	10.96
Unknown Cryptophyte sp.	6.15	0.00	8.73	2.70	9.59	20.55
Thalassiosira sp.	3.70	0.31	5.02	0.95	5.51	26.06
Unknown diatom sp.	3.44	0.00	4.79	1.79	5.25	31.32
Skeletonema costatum	4.12	4.06	4.73	1.24	5.20	36.51
Unknown Dinoflagellate sp.	3.25	0.00	4.59	1.23	5.04	41.55
Chaetoceros subtilis	0.00	2.80	4.02	1.55	4.41	45.96
Eutreptia sp.	1.93	0.42	2.88	0.73	3.16	49.11
Prorocentrum minimum	1.70	0.29	2.70	0.40	2.96	52.08
Pyramimonas sp.	1.87	0.06	2.43	1.06	2.67	54.75
Peridinium sp.	1.64	0.41	2.17	0.79	2.38	57.13
Chaetoceros sp.	1.55	0.00	2.07	0.74	2.28	59.40
Skeletonema menezelli	1.67	0.00	2.01	0.39	2.21	61.61
Cyclotella sp. (small)	0.00	1.40	2.00	0.67	2.20	63.81
Prorocentrum sp.	1.24	0.00	1.97	0.42	2.16	65.97
Schroederia setigera	0.00	1.25	1.77	1.41	1.94	67.91
Thalassiosira pseudonana	0.00	1.15	1.65	0.69	1.81	69.72
Peridinium aciculiferum	0.00	1.07	1.58	0.72	1.74	71.46
Gymnodinium sp.	0.00	1.06	1.49	0.82	1.63	73.09
Nitzschia longissima	0.00	0.91	1.34	1.21	1.48	74.57
Nitzschia closterium	0.77	0.40	1.26	0.83	1.39	75.95
Cyclotella sp.	0.00	0.79	1.08	0.52	1.19	77.14
Schizothrix sp.	0.00	0.71	1.06	0.47	1.17	78.31
Unknown pennate diatom sp.	0.00	0.72	1.05	0.72	1.15	79.46
Scenedesmus quadracauda	0.00	0.73	1.04	0.80	1.14	80.60
Prorocentrum micans	0.57	0.00	1.01	0.35	1.11	81.71

Leptocylindricus minimum	0.54	0.29	0.96	0.64	1.06	82.77
Coscinodiscus sp.	0.63	0.00	0.95	0.49	1.05	83.82
Nitzschia pungens	0.54	0.21	0.94	0.64	1.03	84.85
Unknown Katodinium sp.	0.46	0.00	0.87	0.27	0.95	85.80
Thalassiosira decipiens	0.00	0.59	0.84	0.72	0.92	86.72
Gonyaulax polygramma	0.00	0.53	0.77	0.69	0.85	87.57
Ceratium hircus	0.44	0.00	0.73	0.39	0.80	88.37
Akistrodesmus falcatus	0.00	0.46	0.63	0.56	0.69	89.07
Scenedesmus bijinga	0.00	0.43	0.61	0.50	0.67	89.74
Chaetoceros gracile	0.35	0.00	0.57	0.27	0.62	90.36

Groups ALA18 & LMR6

Average dissimilarity = 91.31

Species	Group ALA18 Av.Abund	Group LMR6 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.76	0.00	9.92	2.27	10.87	10.87
Unknown Cryptophyte sp.	5.78	0.00	8.25	2.36	9.04	19.90
Skeletonema costatum	4.35	4.06	5.66	1.43	6.20	26.10
Thalassiosira sp.	3.84	0.31	4.65	1.27	5.09	31.20
Unknown Dinoflagellate sp.	2.82	0.00	4.39	1.13	4.81	36.01
Unknown diatom sp.	3.26	0.00	4.23	1.70	4.63	40.63
Chaetoceros subtilis	0.47	2.80	4.11	1.50	4.50	45.13
Peridinium sp.	1.96	0.41	2.58	0.89	2.83	47.96
Prorocentrum minimum	1.51	0.29	2.48	0.50	2.72	50.68
Skeletonema menezelli	2.12	0.00	2.42	0.37	2.65	53.34
Nitzschia pungens	1.50	0.21	2.11	0.89	2.31	55.65
Nitzschia closterium	1.48	0.40	2.07	1.06	2.26	57.91
Chaetoceros sp.	1.79	0.00	2.00	0.71	2.19	60.10
Cyclotella sp. (small)	0.00	1.40	1.98	0.65	2.17	62.27
Pyramimonas sp.	1.42	0.06	1.78	0.87	1.95	64.22
Schroederia setigera	0.00	1.25	1.75	1.34	1.92	66.14
Thalassiosira pseudonana	0.00	1.15	1.64	0.67	1.79	67.93
Peridinium aciculiferum	0.00	1.07	1.57	0.70	1.72	69.65
Gymnodinium sp.	0.17	1.06	1.53	0.83	1.68	71.33
Leptocylindricus minimum	1.10	0.29	1.40	0.78	1.53	72.86
Leptocylindricus danicus	1.12	0.20	1.36	0.51	1.49	74.35
Nitzschia longissima	0.00	0.91	1.33	1.15	1.46	75.81
Schizothrix sp.	0.32	0.71	1.31	0.52	1.43	77.24
Navicula sp. large	0.89	0.00	1.18	0.65	1.30	78.54
Unknown diatom sp. A	0.89	0.00	1.09	0.45	1.19	79.73
Cyclotella sp.	0.00	0.79	1.07	0.51	1.18	80.90

Rhizosolenia setigera	0.91	0.06	1.05	0.70	1.15	82.06
Unknown pennate diatom sp.	0.00	0.72	1.04	0.70	1.14	83.19
Chaetoceros gracile	0.89	0.00	1.04	0.36	1.14	84.33
Scenedesmus quadracauda	0.00	0.73	1.03	0.78	1.13	85.46
Unknown Katodinium sp.	0.47	0.00	0.91	0.35	0.99	86.45
Eutreptiella sp.	0.49	0.00	0.87	0.35	0.95	87.40
Thalassiosira decipiens	0.00	0.59	0.83	0.70	0.91	88.31
Aphanocapsa sp.	0.71	0.00	0.79	0.47	0.86	89.17
Gonyaulax polygramma	0.00	0.53	0.77	0.66	0.84	90.02

Groups ALA6 & LMR6

Average dissimilarity = 94.11

Species	Group ALA6 Av.Abund	Group LMR6 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	6.93	0.00	10.23	2.21	10.87	10.87
Unknown diatom sp. D	5.41	0.00	8.17	1.13	8.68	19.55
Skeletonema costatum	1.59	4.06	4.95	1.92	5.26	24.81
Unknown diatom sp.	3.19	0.00	4.62	1.50	4.91	29.72
Thalassiosira sp.	2.99	0.31	4.34	1.05	4.61	34.33
Chaetoceros subtilis	0.00	2.80	4.23	1.49	4.49	38.82
Unknown Dinoflagellate sp.	2.98	0.00	4.22	1.47	4.48	43.30
Prorocentrum minimum	1.60	0.29	2.85	0.34	3.02	46.32
Eutreptia sp.	1.63	0.42	2.69	0.75	2.86	49.19
Peridinium sp.	1.80	0.41	2.65	0.94	2.82	52.01
Pyramimonas sp.	1.63	0.06	2.16	0.96	2.29	54.30
Cyclotella sp. (small)	0.00	1.40	2.10	0.66	2.23	56.53
Eutreptiella sp.	1.38	0.00	1.97	0.47	2.09	58.63
Schroederia setigera	0.00	1.25	1.86	1.36	1.98	60.60
Thalassiosira pseudonana	0.00	1.15	1.74	0.68	1.84	62.45
Gymnodinium sp.	0.26	1.06	1.72	0.85	1.83	64.28
Peridinium aciculiferum	0.00	1.07	1.67	0.71	1.77	66.05
Scenedesmus sp.	1.08	0.00	1.43	0.66	1.52	67.57
Nitzschia longissima	0.00	0.91	1.42	1.17	1.51	69.08
Unknown bluegreen sp.	0.81	0.00	1.23	0.53	1.31	70.39
Nitzschia closterium	0.51	0.40	1.14	0.73	1.21	71.60
Cyclotella sp.	0.00	0.79	1.14	0.52	1.21	72.81
Schizothrix sp.	0.00	0.71	1.13	0.46	1.20	74.01
Unknown pennate diatom sp.	0.00	0.72	1.10	0.71	1.17	75.18
Scenedesmus quadracauda	0.00	0.73	1.09	0.79	1.16	76.34
Glenodinium sp.	0.71	0.00	1.08	0.37	1.14	77.49
Prorocentrum redfieldi	0.74	0.00	1.05	0.26	1.11	78.60

Leptocylindricus danicus	0.52	0.20	0.95	0.46	1.01	79.61
Leptocylindricus minimum	0.50	0.29	0.90	0.62	0.96	80.56
Thalassiosira decipiens	0.00	0.59	0.88	0.71	0.94	81.50
Navicula sp. small	0.46	0.00	0.84	0.47	0.90	82.40
Unknown Katodinium sp.	0.69	0.00	0.82	0.26	0.87	83.27
Gonyaulax polygramma	0.00	0.53	0.82	0.67	0.87	84.14
Prorocentrum sp.	0.69	0.00	0.82	0.35	0.87	85.00
Skeletonema menezelli	0.59	0.00	0.80	0.26	0.85	85.85
Pseudopedinella sp.	0.61	0.00	0.71	0.26	0.76	86.61
Nitzschia pungens	0.40	0.21	0.71	0.56	0.75	87.36
Amphora sp.	0.40	0.00	0.67	0.36	0.71	88.08
Akistrodesmus falcatus	0.00	0.46	0.66	0.55	0.70	88.78
Scenedesmus bijinga	0.00	0.43	0.64	0.49	0.68	89.47
Chaetoceros sp.	0.51	0.00	0.61	0.37	0.65	90.11

Groups ALASFB & LMR6

Average dissimilarity = 88.03

Species	Group ALASFB Av.Abund	Group LMR6 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.21	0.00	9.55	2.29	10.85	10.85
Unknown Cryptophyte sp.	5.30	0.00	7.87	2.43	8.94	19.78
Skeletonema costatum	6.05	4.06	6.30	1.82	7.16	26.94
Unknown diatom sp.	3.86	0.00	5.15	2.33	5.84	32.79
Nitzschia closterium	3.80	0.40	4.69	2.83	5.33	38.11
Thalassiosira sp.	3.61	0.31	4.48	2.36	5.09	43.20
Chaetoceros subtilis	0.66	2.80	4.18	1.55	4.75	47.95
Unknown Dinoflagellate sp.	2.64	0.00	3.54	1.84	4.03	51.97
Nitzschia pungens	1.73	0.21	2.40	1.06	2.72	54.69
Chaetoceros sp.	1.62	0.00	2.11	0.78	2.40	57.09
Pyramimonas sp.	1.42	0.06	2.05	0.77	2.33	59.43
Cyclotella sp. (small)	0.00	1.40	2.02	0.66	2.29	61.72
Skeletonema menezelli	1.69	0.00	1.90	0.33	2.16	63.88
Schroederia setigera	0.00	1.25	1.79	1.37	2.03	65.91
Thalassiosira pseudonana	0.00	1.15	1.67	0.68	1.89	67.80
Gymnodinium sp.	0.30	1.06	1.62	0.86	1.84	69.64
Peridinium aciculiferum	0.00	1.07	1.60	0.71	1.82	71.45
Peridinium sp.	0.87	0.41	1.57	0.68	1.79	73.24
Leptocylindricus minimum	0.90	0.29	1.41	0.72	1.60	74.84
Nitzschia longissima	0.00	0.91	1.36	1.17	1.54	76.38
Cyclotella sp.	0.00	0.79	1.09	0.52	1.24	77.62
Schizothrix sp.	0.00	0.71	1.08	0.46	1.22	78.84

Unknown pennate diatom sp.	0.00	0.72	1.06	0.71	1.20	80.05
Scenedesmus quadricauda	0.00	0.73	1.05	0.79	1.19	81.24
Navicula sp. small	0.89	0.00	1.04	0.49	1.19	82.43
Leptocylindricus danicus	0.50	0.20	1.00	0.55	1.13	83.56
Thalassiosira decipiens	0.00	0.59	0.85	0.71	0.96	84.52
Eutreptia sp.	0.19	0.42	0.81	0.64	0.92	85.44
Gonyaulax polygramma	0.00	0.53	0.78	0.67	0.89	86.33
Navicula sp. large	0.39	0.00	0.68	0.48	0.77	87.11
Akistrodesmus falcatus	0.00	0.46	0.64	0.55	0.72	87.83
Akistrodesmus sp.	0.45	0.00	0.63	0.33	0.71	88.54
Scenedesmus bijinga	0.00	0.43	0.62	0.49	0.70	89.25
Gonyaulax sp.	0.48	0.00	0.58	0.33	0.66	89.91
Euglena sp.	0.00	0.38	0.56	0.48	0.63	90.54

Groups ALATB & LMR6

Average dissimilarity = 87.68

Species	Group ALATB Av.Abund	Group LMR6 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	8.40	4.06	6.68	1.64	7.62	7.62
Unknown diatom sp. D	5.42	0.00	6.67	1.98	7.61	15.22
Unknown Cryptophyte sp.	4.97	0.00	6.64	2.56	7.57	22.79
Thalassiosira sp.	4.50	0.31	5.09	2.44	5.80	28.60
Unknown diatom sp.	3.54	0.00	4.45	2.19	5.08	33.68
Nitzschia closterium	3.84	0.40	4.35	1.92	4.97	38.64
Nitzschia pungens	3.10	0.21	3.80	1.54	4.34	42.98
Chaetoceros subtilis	0.00	2.80	3.60	1.51	4.10	47.09
Chaetoceros sp.	2.89	0.00	3.49	1.43	3.98	51.06
Unknown Dinoflagellate sp.	2.17	0.00	2.54	1.08	2.90	53.96
Skeletonema menezelli	2.25	0.00	2.39	0.46	2.73	56.69
Leptocylindricus minimum	1.84	0.29	2.11	0.92	2.41	59.10
Pyramimonas sp.	1.37	0.06	1.80	0.87	2.06	61.15
Cyclotella sp. (small)	0.00	1.40	1.79	0.66	2.05	63.20
Schroederia setigera	0.00	1.25	1.59	1.38	1.81	65.01
Thalassionema nitzschoides	1.37	0.09	1.53	0.81	1.74	66.75
Thalassiosira pseudonana	0.00	1.15	1.48	0.68	1.69	68.44
Peridinium sp.	1.19	0.41	1.42	0.85	1.62	70.06
Peridinium aciculiferum	0.00	1.07	1.41	0.72	1.61	71.67
Ceratium hircus	1.27	0.00	1.39	0.57	1.58	73.25
Gymnodinium sp.	0.17	1.06	1.38	0.84	1.57	74.83
Rhizosolenia setigera	1.05	0.06	1.23	0.79	1.40	76.23
Nitzschia longissima	0.00	0.91	1.20	1.18	1.37	77.60

Unknown diatom sp. A	0.97	0.00	1.18	0.58	1.34	78.94
Leptocylindricus danicus	0.82	0.20	1.10	0.66	1.26	80.19
Navicula sp. large	0.96	0.00	1.07	0.68	1.23	81.42
Cyclotella sp.	0.00	0.79	0.97	0.52	1.11	82.53
Schizothrix sp.	0.00	0.71	0.95	0.46	1.08	83.62
Unknown pennate diatom sp.	0.00	0.72	0.94	0.71	1.07	84.69
Scenedesmus quadracauda	0.00	0.73	0.93	0.79	1.07	85.75
Prorocentrum sp.	0.79	0.00	0.80	0.47	0.92	86.67
Chaetoceros gracile	0.60	0.00	0.79	0.27	0.90	87.56
Thalassiosira decipiens	0.00	0.59	0.75	0.72	0.86	88.42
Prorocentrum minimum	0.27	0.29	0.71	0.46	0.81	89.24
Gonyaulax polygramma	0.00	0.53	0.69	0.68	0.79	90.03

Groups ALASFC & LMR6

Average dissimilarity = 87.00

Species	Group ALASFC Av.Abund	Group LMR6 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	11.92	1.78	13.70	13.70
Unknown diatom sp. D	8.36	0.00	8.92	3.63	10.25	23.95
Unknown Cryptophyte sp.	7.43	0.00	8.58	8.27	9.87	33.82
Unknown diatom sp.	4.70	0.00	5.30	13.88	6.09	39.91
Thalassiosira sp.	4.72	0.31	5.21	3.80	5.99	45.90
Nitzschia closterium	4.12	0.40	4.54	2.58	5.22	51.12
Pyramimonas sp.	3.83	0.06	4.42	5.31	5.08	56.20
Chaetoceros subtilis	0.00	2.80	3.29	1.49	3.78	59.98
Chaetoceros sp.	3.08	0.00	2.84	0.98	3.26	63.24
Gymnodinium sp.	2.63	1.06	2.69	1.36	3.09	66.33
Skeletonema costatum	5.96	4.06	2.45	1.69	2.82	69.15
Nitzschia pungens	2.29	0.21	2.17	1.10	2.49	71.64
Leptocylindricus minimum	1.88	0.29	1.80	1.08	2.07	73.71
Cyclotella sp. (small)	0.00	1.40	1.64	0.65	1.88	75.59
Peridinium sp.	1.50	0.41	1.47	1.15	1.69	77.29
Schroederia setigera	0.00	1.25	1.45	1.36	1.67	78.96
Prorocentrum sp.	1.50	0.00	1.38	0.98	1.58	80.54
Thalassiosira pseudonana	0.00	1.15	1.35	0.67	1.55	82.09
Peridinium aciculiferum	0.00	1.07	1.29	0.71	1.48	83.57
Leptocylindricus danicus	1.26	0.20	1.21	1.03	1.39	84.96
Rhizosolenia setigera	1.26	0.06	1.17	1.02	1.35	86.31
Navicula sp. large	1.26	0.00	1.16	0.98	1.33	87.64
Nitzschia longissima	0.00	0.91	1.10	1.17	1.26	88.90
Cyclotella sp.	0.00	0.79	0.89	0.51	1.03	89.92

Schizothrix sp.	0.00	0.71	0.86	0.46	0.99	90.92
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Groups LMR0 & LMR6

Average dissimilarity = 72.69

Species	Group LMR0 Av.Abund	Group LMR6 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	4.06	7.20	1.40	9.90	9.90
Chaetoceros subtilis	0.44	2.80	5.69	1.39	7.83	17.73
Cyclotella sp. (small)	1.79	1.40	4.97	0.97	6.84	24.57
Cyclotella sp.	1.76	0.79	4.24	0.91	5.83	30.40
Unknown pennate diatom sp.	2.07	0.72	3.61	1.35	4.97	35.37
Thalassiosira pseudonana	1.05	1.15	3.58	0.89	4.92	40.29
Cyclotella sp. (large)	1.45	0.11	3.00	0.63	4.13	44.42
Gymnodinium sp.	1.01	1.06	2.73	1.14	3.76	48.18
Thalassiosira decipiens	0.91	0.59	2.53	0.79	3.48	51.66
Peridinium aciculiferum	0.11	1.07	2.52	0.73	3.46	55.12
Scenedesmus quadracauda	1.15	0.73	2.38	1.14	3.27	58.39
Schroederia setigera	1.04	1.25	2.34	1.20	3.21	61.60
Scenedesmus bijinga	0.90	0.43	2.08	0.92	2.87	64.47
Eutreptia sp.	0.88	0.42	2.01	1.05	2.76	67.23
Nitzschia longissima	0.78	0.91	1.94	1.16	2.67	69.91
Akistrodesmus falcatus	0.64	0.46	1.72	0.85	2.37	72.27
Schizothrix sp.	0.00	0.71	1.69	0.46	2.32	74.60
Gonyaulax polygramma	0.00	0.53	1.22	0.66	1.67	76.27
Merismopedia punctata	0.29	0.23	1.10	0.50	1.51	77.78
Bluegreen filamentous sp.	0.41	0.15	1.09	0.69	1.49	79.28
Nitzschia closterium	0.08	0.40	0.99	0.64	1.37	80.64
Euglena sp.	0.09	0.38	0.96	0.54	1.33	81.97
Melosira sp.	0.36	0.15	0.94	0.59	1.30	83.27
Scenedesmus acutus	0.34	0.16	0.93	0.46	1.28	84.55
Pleurosigma sp.	0.24	0.16	0.87	0.57	1.19	85.74
Prorocentrum minimum	0.16	0.29	0.83	0.63	1.14	86.88
Peridinium sp.	0.00	0.41	0.82	0.55	1.12	88.00
Crucigenia sp.	0.22	0.10	0.77	0.57	1.06	89.06
Thalassiosira sp.	0.10	0.31	0.75	0.54	1.03	90.09

Groups LMR12 & LMR6

Average dissimilarity = 64.14

Group LMR12 Group LMR6

Species	Av.Abund	Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Chaetoceros subtilis	2.19	2.80	4.38	1.32	6.83	6.83
Skeletonema costatum	3.94	4.06	3.54	1.21	5.52	12.35
Cyclotella sp. (small)	0.35	1.40	3.48	0.75	5.43	17.78
Peridinium aciculiferum	1.12	1.07	3.33	1.04	5.19	22.98
Thalassiosira pseudonana	0.90	1.15	3.17	0.96	4.94	27.91
Schizothrix sp.	1.06	0.71	3.09	0.73	4.82	32.73
Schroederia setigera	0.53	1.25	2.53	1.29	3.95	36.68
Gymnodinium sp.	0.37	1.06	2.43	0.94	3.80	40.47
Cyclotella sp.	0.45	0.79	2.19	0.70	3.41	43.88
Unknown pennate diatom sp.	0.75	0.72	2.13	1.00	3.32	47.20
Thalassiosira sp.	0.84	0.31	2.03	0.83	3.17	50.37
Nitzschia longissima	0.75	0.91	1.96	1.12	3.05	53.43
Nitzschia closterium	0.79	0.40	1.83	1.00	2.86	56.28
Leptocylindricus minimum	0.80	0.29	1.75	0.80	2.73	59.01
Scenedesmus quadracauda	0.16	0.73	1.71	0.84	2.67	61.67
Eutreptia sp.	0.58	0.42	1.56	0.91	2.44	64.11
Chaetoceros socialis	0.70	0.00	1.45	0.77	2.26	66.37
Gonyaulax polygramma	0.21	0.53	1.43	0.76	2.23	68.60
Thalassiosira decipiens	0.06	0.59	1.35	0.75	2.10	70.70
Nitzschia pungens	0.45	0.21	1.20	0.70	1.87	72.57
Prorocentrum minimum	0.38	0.29	1.11	0.74	1.73	74.31
Peridinium sp.	0.20	0.41	1.08	0.67	1.68	75.99
Euglena sp.	0.14	0.38	1.05	0.57	1.63	77.62
Ceratulina bergonii	0.40	0.14	1.03	0.54	1.60	79.22
Akistrodesmus falcatus	0.00	0.46	0.98	0.56	1.52	80.74
Chaetoceros neogracile	0.39	0.17	0.96	0.64	1.50	82.25
Scenedesmus bijinga	0.00	0.43	0.96	0.49	1.50	83.74
Scrippsiella sp.	0.29	0.18	0.89	0.57	1.39	85.13
Thalassionema nitzschoides	0.32	0.09	0.73	0.53	1.14	86.27
Leptocylindricus danicus	0.18	0.20	0.69	0.46	1.07	87.34
Gonyaulax monilata	0.33	0.00	0.68	0.48	1.06	88.40
Rhizosolenia setigera	0.28	0.06	0.65	0.54	1.01	89.41
Nostoc sp.(trichomes)	0.05	0.21	0.62	0.45	0.96	90.37

Groups ALA0 & LMRRUSK

Average dissimilarity = 94.51

Species	Group ALA0 Av.Abund	Group LMRRUSK Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	0.16	5.90	10.18	1.64	10.78	10.78
Unknown Cryptophyte sp.	4.79	0.04	8.54	1.52	9.04	19.81

Unknown diatom sp.	3.09	0.00	5.47	2.26	5.79	25.60
Unknown diatom sp. D	2.34	0.00	4.05	1.52	4.29	29.89
Thalassiosira sp.	2.01	1.38	3.60	1.47	3.81	33.69
Unknown Dinoflagellate sp.	1.73	0.00	3.15	0.96	3.33	37.02
Prorocentrum micans	1.61	0.13	3.14	0.57	3.33	40.35
Prorocentrum minimum	0.16	1.59	2.65	0.98	2.81	43.16
Thalassiosira pseudonana	0.00	1.56	2.57	0.82	2.72	45.87
Eutreptia sp.	0.37	1.43	2.55	1.02	2.69	48.57
Scenedesmus sp.	1.47	0.05	2.45	1.13	2.59	51.16
Navicula sp. small	1.23	0.00	2.24	0.83	2.37	53.53
Leptocylindricus minimum	0.61	0.75	1.73	0.83	1.84	55.37
Pyramimonas sp.	0.84	0.33	1.66	0.88	1.75	57.12
Coscinodiscus sp.	0.83	0.05	1.55	0.60	1.64	58.75
Unknown bluegreen sp.	0.83	0.00	1.50	0.87	1.58	60.34
Schroederia setigera	0.00	0.82	1.47	0.88	1.56	61.90
Peridinium aciculiferum	0.00	0.84	1.43	0.82	1.51	63.41
Chaetoceros subtilis	0.00	0.83	1.42	0.70	1.51	64.91
Nitzschia pungens	0.80	0.12	1.42	0.81	1.50	66.41
Unknown pennate diatom sp.	0.00	0.81	1.35	0.69	1.43	67.84
Thalassiosira decipiens	0.00	0.84	1.34	0.78	1.42	69.26
Tetraedron sp.	0.82	0.07	1.33	0.76	1.41	70.68
Navicula sp. large	0.66	0.00	1.27	0.63	1.35	72.02
Nitzschia longissima	0.00	0.74	1.26	0.97	1.34	73.36
Cyclotella sp.	0.00	0.83	1.26	0.50	1.33	74.69
Akistrodesmus sp.	0.76	0.04	1.25	0.60	1.33	76.02
Nitzschia closterium	0.20	0.62	1.18	0.91	1.25	77.27
Euglena sp.	0.00	0.69	1.12	0.44	1.19	78.46
Scrippsiella sp.	0.00	0.59	1.06	0.65	1.12	79.58
Ceratulina bergonii	0.00	0.53	0.97	0.43	1.03	80.61
Gymnodinium sp.	0.09	0.53	0.91	0.74	0.97	81.58
Merismopedia punctata	0.00	0.54	0.90	0.45	0.96	82.54
Thalassionema nitzschoides	0.35	0.20	0.84	0.58	0.89	83.42
Crucigenia sp.	0.21	0.38	0.83	0.60	0.87	84.30
Prorocentrum sp.	0.45	0.00	0.80	0.38	0.85	85.14
Schizothrix sp.	0.00	0.49	0.78	0.43	0.83	85.97
Scenedesmus quadracauda	0.00	0.46	0.74	0.48	0.78	86.75
Akistrodesmus falcatus	0.00	0.43	0.71	0.54	0.75	87.50
Nitzschia sp.	0.38	0.00	0.71	0.38	0.75	88.25
Prorocentrum redfieldi	0.40	0.00	0.65	0.36	0.69	88.94
Leptocylindricus danicus	0.27	0.09	0.63	0.42	0.67	89.60
Oscillatoria sp.	0.32	0.10	0.62	0.48	0.66	90.26

Groups ALA12 & LMRRUSK

Average dissimilarity = 86.65

Species	Group ALA12 Av.Abund	Group LMRRUSK Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.23	0.00	9.60	1.72	11.08	11.08
Unknown Cryptophyte sp.	6.15	0.04	8.34	2.48	9.62	20.70
Skeletonema costatum	4.12	5.90	5.93	1.17	6.84	27.54
Thalassiosira sp.	3.70	1.38	4.73	0.96	5.46	32.99
Unknown diatom sp.	3.44	0.00	4.60	1.73	5.31	38.30
Unknown Dinoflagellate sp.	3.25	0.00	4.41	1.20	5.09	43.39
Prorocentrum minimum	1.70	1.59	3.65	0.61	4.22	47.61
Eutreptia sp.	1.93	1.43	3.26	0.97	3.76	51.37
Pyramimonas sp.	1.87	0.33	2.37	1.04	2.73	54.10
Thalassiosira pseudonana	0.00	1.56	2.03	0.81	2.34	56.45
Peridinium sp.	1.64	0.31	2.03	0.74	2.34	58.78
Chaetoceros sp.	1.55	0.00	1.99	0.73	2.30	61.08
Skeletonema menezelli	1.67	0.00	1.94	0.39	2.24	63.32
Prorocentrum sp.	1.24	0.00	1.89	0.42	2.18	65.50
Nitzschia closterium	0.77	0.62	1.35	1.02	1.55	67.05
Leptocylicus minimum	0.54	0.75	1.35	0.75	1.55	68.61
Schroederia setigera	0.00	0.82	1.14	0.88	1.31	69.92
Peridinium aciculiferum	0.00	0.84	1.12	0.81	1.29	71.21
Chaetoceros subtilis	0.00	0.83	1.11	0.71	1.29	72.49
Prorocentrum micans	0.57	0.13	1.08	0.39	1.25	73.74
Thalassiosira decipiens	0.00	0.84	1.07	0.78	1.24	74.98
Unknown pennate diatom sp.	0.00	0.81	1.06	0.69	1.23	76.20
Cyclotella sp.	0.00	0.83	1.01	0.49	1.17	77.37
Nitzschia longissima	0.00	0.74	0.99	0.97	1.14	78.51
Coscinodiscus sp.	0.63	0.05	0.97	0.52	1.12	79.63
Euglena sp.	0.00	0.69	0.89	0.44	1.03	80.66
Unknown Katodinium sp.	0.46	0.00	0.83	0.26	0.95	81.61
Scrippsiella sp.	0.00	0.59	0.82	0.66	0.94	82.55
Nitzschia pungens	0.54	0.12	0.81	0.56	0.94	83.49
Ceratium hircus	0.44	0.08	0.76	0.41	0.87	84.37
Ceratulina bergonii	0.00	0.53	0.75	0.43	0.86	85.23
Merismopedia punctata	0.00	0.54	0.71	0.45	0.82	86.05
Gymnodinium sp.	0.00	0.53	0.67	0.70	0.78	86.82
Schizothrix sp.	0.00	0.49	0.62	0.42	0.72	87.54
Scenedesmus quadricauda	0.00	0.46	0.59	0.47	0.68	88.22
Akistrodesmus falcatus	0.00	0.43	0.56	0.54	0.65	88.87
Rhizosolenia setigera	0.34	0.16	0.55	0.47	0.63	89.50
Chaetoceros gracile	0.35	0.00	0.54	0.26	0.62	90.12

Groups ALA18 & LMRRUSK

Average dissimilarity = 87.87

Species	Group ALA18 Av.Abund	Group LMRRUSK Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.76	0.00	9.55	2.16	10.87	10.87
Unknown Cryptophyte sp.	5.78	0.04	7.87	2.19	8.96	19.83
Skeletonema costatum	4.35	5.90	6.85	1.29	7.79	27.62
Thalassiosira sp.	3.84	1.38	4.35	1.23	4.95	32.58
Unknown Dinoflagellate sp.	2.82	0.00	4.21	1.10	4.79	37.37
Unknown diatom sp.	3.26	0.00	4.07	1.65	4.63	42.00
Prorocentrum minimum	1.51	1.59	3.27	0.76	3.72	45.71
Peridinium sp.	1.96	0.31	2.44	0.85	2.78	48.49
Skeletonema menezelli	2.12	0.00	2.34	0.37	2.66	51.16
Nitzschia pungens	1.50	0.12	2.02	0.83	2.30	53.46
Thalassiosira pseudonana	0.00	1.56	2.01	0.79	2.29	55.74
Nitzschia closterium	1.48	0.62	1.98	1.12	2.26	58.00
Chaetoceros sp.	1.79	0.00	1.93	0.70	2.20	60.20
Eutreptia sp.	0.10	1.43	1.85	0.98	2.11	62.31
Pyramimonas sp.	1.42	0.33	1.82	0.89	2.07	64.38
Leptocylindricus minimum	1.10	0.75	1.68	0.87	1.91	66.29
Chaetoceros subtilis	0.47	0.83	1.48	0.69	1.68	67.97
Leptocylindricus danicus	1.12	0.09	1.19	0.46	1.35	69.32
Navicula sp. large	0.89	0.00	1.14	0.65	1.30	70.62
Schroederia setigera	0.00	0.82	1.13	0.85	1.28	71.90
Peridinium aciculiferum	0.00	0.84	1.11	0.79	1.26	73.16
Rhizosolenia setigera	0.91	0.16	1.08	0.71	1.22	74.39
Thalassiosira decipiens	0.00	0.84	1.06	0.76	1.20	75.59
Unknown pennate diatom sp.	0.00	0.81	1.05	0.67	1.20	76.79
Unknown diatom sp. A	0.89	0.00	1.05	0.45	1.19	77.98
Chaetoceros gracile	0.89	0.00	1.00	0.36	1.14	79.12
Cyclotella sp.	0.00	0.83	1.00	0.49	1.14	80.26
Nitzschia longissima	0.00	0.74	0.98	0.94	1.12	81.37
Schizothrix sp.	0.32	0.49	0.89	0.49	1.01	82.38
Euglena sp.	0.00	0.69	0.88	0.43	1.00	83.39
Unknown Katodinium sp.	0.47	0.00	0.86	0.35	0.98	84.37
Eutreptiella sp.	0.49	0.00	0.83	0.34	0.95	85.32
Scrippsiella sp.	0.00	0.59	0.81	0.64	0.92	86.24
Gymnodinium sp.	0.17	0.53	0.78	0.73	0.89	87.13
Ceratium hircus	0.66	0.08	0.76	0.51	0.87	88.00
Aphanocapsa sp.	0.71	0.00	0.76	0.47	0.86	88.86

Ceratulina bergonii	0.00	0.53	0.74	0.42	0.84	89.70
Merismopedia punctata	0.00	0.54	0.70	0.44	0.80	90.51

Groups ALA6 & LMRRUSK

Average dissimilarity = 90.80

Species	Group ALA6 Av.Abund	Group LMRRUSK Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	6.93	0.04	9.76	2.07	10.75	10.75
Unknown diatom sp. D	5.41	0.00	7.84	1.11	8.63	19.39
Skeletonema costatum	1.59	5.90	6.97	1.38	7.67	27.06
Unknown diatom sp.	3.19	0.00	4.44	1.46	4.89	31.95
Thalassiosira sp.	2.99	1.38	4.24	1.10	4.67	36.62
Prorocentrum minimum	1.60	1.59	4.10	0.55	4.52	41.14
Unknown Dinoflagellate sp.	2.98	0.00	4.05	1.43	4.46	45.60
Eutreptia sp.	1.63	1.43	3.14	1.01	3.46	49.06
Peridinium sp.	1.80	0.31	2.51	0.89	2.77	51.82
Pyramimonas sp.	1.63	0.33	2.16	0.96	2.37	54.20
Thalassiosira pseudonana	0.00	1.56	2.12	0.80	2.34	56.54
Eutreptiella sp.	1.38	0.00	1.89	0.47	2.08	58.62
Scenedesmus sp.	1.08	0.05	1.41	0.68	1.55	60.17
Leptocylindricus minimum	0.50	0.75	1.33	0.73	1.46	61.63
Nitzschia closterium	0.51	0.62	1.26	0.92	1.39	63.02
Schroederia setigera	0.00	0.82	1.20	0.86	1.32	64.34
Unknown bluegreen sp.	0.81	0.00	1.18	0.52	1.30	65.64
Peridinium aciculiferum	0.00	0.84	1.17	0.80	1.29	66.93
Chaetoceros subtilis	0.00	0.83	1.17	0.69	1.29	68.22
Thalassiosira decipiens	0.00	0.84	1.12	0.77	1.23	69.45
Unknown pennate diatom sp.	0.00	0.81	1.11	0.68	1.23	70.67
Cyclotella sp.	0.00	0.83	1.05	0.49	1.16	71.83
Nitzschia longissima	0.00	0.74	1.04	0.95	1.14	72.97
Glenodinium sp.	0.71	0.00	1.03	0.37	1.14	74.11
Prorocentrum redfieldi	0.74	0.00	1.01	0.25	1.11	75.22
Gymnodinium sp.	0.26	0.53	0.93	0.69	1.03	76.25
Euglena sp.	0.00	0.69	0.93	0.44	1.02	77.27
Scrippsiella sp.	0.00	0.59	0.86	0.64	0.95	78.22
Navicula sp. small	0.46	0.00	0.81	0.46	0.89	79.10
Unknown Katodinium sp.	0.69	0.00	0.79	0.26	0.87	79.98
Prorocentrum sp.	0.69	0.00	0.79	0.34	0.87	80.84
Ceratulina bergonii	0.00	0.53	0.79	0.42	0.87	81.71
Leptocylindricus danicus	0.52	0.09	0.77	0.39	0.85	82.56
Skeletonema menezelli	0.59	0.00	0.77	0.26	0.85	83.41

Amphora sp.	0.40	0.13	0.76	0.44	0.84	84.25
Merismopedia punctata	0.00	0.54	0.74	0.44	0.82	85.07
Pseudopedinella sp.	0.61	0.00	0.69	0.26	0.76	85.83
Prorocentrum micans	0.46	0.13	0.66	0.34	0.73	86.56
Schizothrix sp.	0.00	0.49	0.65	0.42	0.72	87.28
Scenedesmus quadracauda	0.00	0.46	0.61	0.47	0.67	87.95
Chaetoceros sp.	0.51	0.00	0.59	0.37	0.65	88.60
Akistrodesmus falcatus	0.00	0.43	0.59	0.53	0.65	89.24
Nitzschia pungens	0.40	0.12	0.55	0.46	0.61	89.85
Akistrodesmus sp.	0.46	0.04	0.55	0.41	0.61	90.46

Groups ALASFB & LMRRUSK

Average dissimilarity = 84.12

Species	Group ALASFB Av.Abund	Group LMRRUSK Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.21	0.00	9.19	2.18	10.92	10.92
Unknown Cryptophyte sp.	5.30	0.04	7.50	2.24	8.91	19.83
Skeletonema costatum	6.05	5.90	6.44	1.43	7.65	27.49
Unknown diatom sp.	3.86	0.00	4.95	2.22	5.88	33.37
Nitzschia closterium	3.80	0.62	4.26	2.31	5.06	38.43
Thalassiosira sp.	3.61	1.38	4.05	1.83	4.82	43.25
Unknown Dinoflagellate sp.	2.64	0.00	3.41	1.78	4.05	47.30
Nitzschia pungens	1.73	0.12	2.30	0.99	2.73	50.03
Prorocentrum minimum	0.00	1.59	2.10	0.94	2.50	52.53
Pyramimonas sp.	1.42	0.33	2.09	0.81	2.48	55.01
Thalassiosira pseudonana	0.00	1.56	2.05	0.80	2.43	57.45
Chaetoceros sp.	1.62	0.00	2.03	0.77	2.42	59.86
Eutreptia sp.	0.19	1.43	1.89	1.00	2.25	62.11
Skeletonema menezelli	1.69	0.00	1.84	0.33	2.18	64.29
Leptocylindricus minimum	0.90	0.75	1.68	0.83	2.00	66.29
Chaetoceros subtilis	0.66	0.83	1.67	0.74	1.98	68.27
Peridinium sp.	0.87	0.31	1.41	0.63	1.68	69.95
Schroederia setigera	0.00	0.82	1.15	0.86	1.36	71.32
Peridinium aciculiferum	0.00	0.84	1.13	0.80	1.34	72.65
Thalassiosira decipiens	0.00	0.84	1.08	0.77	1.28	73.94
Unknown pennate diatom sp.	0.00	0.81	1.07	0.68	1.27	75.21
Cyclotella sp.	0.00	0.83	1.02	0.49	1.21	76.42
Navicula sp. small	0.89	0.00	1.01	0.49	1.20	77.61
Nitzschia longissima	0.00	0.74	1.00	0.95	1.19	78.80
Euglena sp.	0.00	0.69	0.90	0.44	1.06	79.87
Gymnodinium sp.	0.30	0.53	0.89	0.76	1.06	80.93

Leptocylindricus danicus	0.50	0.09	0.86	0.48	1.03	81.95
Scrippsiella sp.	0.00	0.59	0.83	0.65	0.98	82.93
Ceratulina bergonii	0.00	0.53	0.75	0.43	0.90	83.83
Merismopedia punctata	0.00	0.54	0.72	0.44	0.85	84.68
Akistrodesmus sp.	0.45	0.04	0.66	0.36	0.79	85.47
Navicula sp. large	0.39	0.00	0.65	0.47	0.78	86.25
Thalassionema nitzschoides	0.36	0.20	0.64	0.48	0.76	87.01
Schizothrix sp.	0.00	0.49	0.63	0.42	0.75	87.75
Scenedesmus quadricauda	0.00	0.46	0.59	0.47	0.70	88.46
Ceratium hircus	0.47	0.08	0.57	0.37	0.68	89.14
Scenedesmus sp.	0.38	0.05	0.57	0.37	0.67	89.81
Akistrodesmus falcatus	0.00	0.43	0.56	0.53	0.67	90.48

Groups ALATB & LMRRUSK

Average dissimilarity = 82.26

Species	Group ALATB Av.Abund	Group LMRRUSK Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	5.42	0.00	6.43	1.91	7.81	7.81
Unknown Cryptophyte sp.	4.97	0.04	6.33	2.38	7.70	15.51
Skeletonema costatum	8.40	5.90	5.80	1.30	7.05	22.57
Thalassiosira sp.	4.50	1.38	4.39	1.87	5.34	27.90
Unknown diatom sp.	3.54	0.00	4.29	2.10	5.22	33.12
Nitzschia closterium	3.84	0.62	4.04	1.83	4.91	38.03
Nitzschia pungens	3.10	0.12	3.72	1.47	4.53	42.56
Chaetoceros sp.	2.89	0.00	3.36	1.41	4.09	46.64
Unknown Dinoflagellate sp.	2.17	0.00	2.45	1.06	2.98	49.62
Skeletonema menezelli	2.25	0.00	2.31	0.45	2.81	52.43
Leptocylindricus minimum	1.84	0.75	2.20	0.99	2.67	55.10
Prorocentrum minimum	0.27	1.59	2.01	0.97	2.44	57.55
Thalassiosira pseudonana	0.00	1.56	1.84	0.80	2.23	59.78
Pyramimonas sp.	1.37	0.33	1.79	0.88	2.18	61.96
Eutreptia sp.	0.00	1.43	1.71	0.99	2.07	64.03
Thalassionema nitzschoides	1.37	0.20	1.53	0.85	1.85	65.89
Ceratium hircus	1.27	0.08	1.38	0.59	1.68	67.57
Peridinium sp.	1.19	0.31	1.30	0.81	1.58	69.15
Rhizosolenia setigera	1.05	0.16	1.22	0.80	1.49	70.64
Unknown diatom sp. A	0.97	0.00	1.13	0.58	1.38	72.02
Navicula sp. large	0.96	0.00	1.04	0.67	1.26	73.28
Schroederia setigera	0.00	0.82	1.02	0.87	1.24	74.52
Peridinium aciculiferum	0.00	0.84	1.01	0.80	1.22	75.74
Chaetoceros subtilis	0.00	0.83	1.00	0.70	1.22	76.96

Leptocylindricus danicus	0.82	0.09	0.98	0.60	1.20	78.16
Thalassiosira decipiens	0.00	0.84	0.97	0.77	1.18	79.34
Unknown pennate diatom sp.	0.00	0.81	0.96	0.69	1.17	80.50
Cyclotella sp.	0.00	0.83	0.92	0.49	1.12	81.62
Nitzschia longissima	0.00	0.74	0.89	0.96	1.09	82.70
Euglena sp.	0.00	0.69	0.80	0.44	0.98	83.68
Prorocentrum sp.	0.79	0.00	0.78	0.46	0.95	84.63
Chaetoceros gracile	0.60	0.00	0.76	0.26	0.92	85.55
Scrippsiella sp.	0.00	0.59	0.73	0.66	0.89	86.44
Gymnodinium sp.	0.17	0.53	0.70	0.75	0.85	87.29
Ceratulina bergonii	0.00	0.53	0.67	0.43	0.81	88.10
Merismopedia punctata	0.00	0.54	0.64	0.45	0.78	88.88
Prorocentrum micans	0.54	0.13	0.64	0.59	0.78	89.66
Nitzschia delicatissima	0.52	0.00	0.58	0.26	0.71	90.37

Groups ALASFC & LMRRUSK

Average dissimilarity = 83.34

Species	Group ALASFC Av.Abund	Group LMRRUSK Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	11.48	1.74	13.77	13.77
Unknown diatom sp. D	8.36	0.00	8.62	3.36	10.34	24.11
Unknown Cryptophyte sp.	7.43	0.04	8.24	5.87	9.88	34.00
Unknown diatom sp.	4.70	0.00	5.11	7.55	6.14	40.13
Thalassiosira sp.	4.72	1.38	4.26	2.13	5.12	45.25
Nitzschia closterium	4.12	0.62	4.16	2.27	5.00	50.25
Pyramimonas sp.	3.83	0.33	3.98	2.77	4.77	55.02
Skeletonema costatum	5.96	5.90	2.96	1.09	3.56	58.58
Chaetoceros sp.	3.08	0.00	2.75	0.98	3.30	61.88
Gymnodinium sp.	2.63	0.53	2.46	1.21	2.95	64.83
Nitzschia pungens	2.29	0.12	2.07	1.03	2.49	67.32
Leptocylindricus minimum	1.88	0.75	1.89	1.12	2.26	69.59
Prorocentrum minimum	0.00	1.59	1.73	0.93	2.08	71.66
Thalassiosira pseudonana	0.00	1.56	1.69	0.79	2.03	73.69
Eutreptia sp.	0.00	1.43	1.57	0.98	1.88	75.57
Peridinium sp.	1.50	0.31	1.40	1.14	1.68	77.25
Prorocentrum sp.	1.50	0.00	1.34	0.98	1.60	78.85
Rhizosolenia setigera	1.26	0.16	1.17	1.01	1.40	80.25
Leptocylindricus danicus	1.26	0.09	1.14	0.99	1.36	81.62
Navicula sp. large	1.26	0.00	1.12	0.98	1.35	82.97
Schroederia setigera	0.00	0.82	0.93	0.86	1.12	84.08
Peridinium aciculiferum	0.00	0.84	0.92	0.80	1.11	85.19

Chaetoceros subtilis	0.00	0.83	0.92	0.70	1.10	86.30
Thalassiosira decipiens	0.00	0.84	0.89	0.76	1.07	87.37
Unknown pennate diatom sp.	0.00	0.81	0.88	0.68	1.06	88.43
Cyclotella sp.	0.00	0.83	0.85	0.48	1.02	89.44
Nitzschia longissima	0.00	0.74	0.82	0.95	0.98	90.43

Groups LMR0 & LMRRUSK

Average dissimilarity = 76.80

Species	Group LMR0 Av.Abund	Group LMRRUSK Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	5.90	9.85	1.22	12.83	12.83
Cyclotella sp.	1.76	0.83	4.06	0.86	5.29	18.12
Thalassiosira pseudonana	1.05	1.56	3.76	0.96	4.90	23.01
Cyclotella sp. (small)	1.79	0.13	3.61	0.71	4.71	27.72
Unknown pennate diatom sp.	2.07	0.81	3.55	1.21	4.63	32.35
Prorocentrum minimum	0.16	1.59	3.04	0.99	3.96	36.31
Eutreptia sp.	0.88	1.43	2.78	1.10	3.62	39.93
Cyclotella sp. (large)	1.45	0.00	2.75	0.58	3.59	43.52
Thalassiosira sp.	0.10	1.38	2.75	0.67	3.58	47.10
Thalassiosira decipiens	0.91	0.84	2.63	0.83	3.43	50.53
Scenedesmus quadracauda	1.15	0.46	2.39	1.10	3.11	53.64
Schroederia setigera	1.04	0.82	2.16	1.11	2.81	56.45
Gymnodinium sp.	1.01	0.53	2.08	1.03	2.71	59.15
Chaetoceros subtilis	0.44	0.83	1.97	0.81	2.57	61.72
Scenedesmus bijinga	0.90	0.28	1.86	0.88	2.42	64.14
Nitzschia longissima	0.78	0.74	1.73	1.07	2.25	66.39
Peridinium aciculiferum	0.11	0.84	1.72	0.84	2.24	68.63
Akistrodesmus falcatus	0.64	0.43	1.60	0.81	2.08	70.71
Merismopedia punctata	0.29	0.54	1.46	0.57	1.91	72.61
Euglena sp.	0.09	0.69	1.39	0.48	1.81	74.43
Leptocylindricus minimum	0.00	0.75	1.33	0.56	1.73	76.16
Scrippsiella sp.	0.08	0.59	1.32	0.66	1.71	77.87
Nitzschia closterium	0.08	0.62	1.22	0.89	1.59	79.46
Ceratulina bergonii	0.00	0.53	1.17	0.41	1.53	80.99
Crucigenia sp.	0.22	0.38	1.13	0.69	1.47	82.46
Bluegreen filamentous sp.	0.41	0.21	1.06	0.70	1.38	83.83
Schizothrix sp.	0.00	0.49	0.90	0.42	1.17	85.01
Cyclotella meneghiniana	0.40	0.10	0.82	0.32	1.07	86.08
Melosira sp.	0.36	0.00	0.74	0.48	0.96	87.03
Nostoc sp.(trichomes)	0.09	0.27	0.71	0.49	0.93	87.96
Chaetoceros neogracile	0.00	0.31	0.68	0.50	0.88	88.84

Scenedesmus acutus	0.34	0.00	0.63	0.40	0.82	89.67
Pyramimonas sp.	0.00	0.33	0.63	0.34	0.81	90.48

Groups LMR12 & LMRRUSK

Average dissimilarity = 68.86

Species	Group LMR12 Av.Abund	Group LMRRUSK Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.94	5.90	6.77	1.10	9.83	9.83
Chaetoceros subtilis	2.19	0.83	4.41	1.03	6.40	16.24
Thalassiosira pseudonana	0.90	1.56	3.44	1.07	5.00	21.24
Thalassiosira sp.	0.84	1.38	3.40	0.88	4.93	26.17
Prorocentrum minimum	0.38	1.59	3.11	1.01	4.52	30.69
Eutreptia sp.	0.58	1.43	2.80	1.04	4.07	34.75
Peridinium aciculiferum	1.12	0.84	2.74	1.00	3.98	38.74
Schizothrix sp.	1.06	0.49	2.44	0.70	3.54	42.28
Leptocylindricus minimum	0.80	0.75	2.18	0.86	3.17	45.45
Unknown pennate diatom sp.	0.75	0.81	2.17	0.99	3.15	48.60
Schroederia setigera	0.53	0.82	2.01	0.98	2.92	51.52
Cyclotella sp.	0.45	0.83	2.01	0.68	2.91	54.44
Nitzschia longissima	0.75	0.74	1.74	1.04	2.53	56.97
Nitzschia closterium	0.79	0.62	1.74	1.03	2.53	59.49
Ceratulina bergonii	0.40	0.53	1.71	0.57	2.49	61.98
Thalassiosira decipiens	0.06	0.84	1.62	0.80	2.35	64.33
Chaetoceros socialis	0.70	0.28	1.61	0.81	2.33	66.66
Scrippsiella sp.	0.29	0.59	1.50	0.74	2.18	68.84
Euglena sp.	0.14	0.69	1.48	0.50	2.15	70.99
Gymnodinium sp.	0.37	0.53	1.34	0.81	1.95	72.94
Chaetoceros neogracile	0.39	0.31	1.12	0.72	1.63	74.57
Scenedesmus quadracauda	0.16	0.46	1.09	0.58	1.58	76.15
Merismopedia punctata	0.00	0.54	1.08	0.45	1.57	77.72
Cyclotella sp. (small)	0.35	0.13	1.00	0.37	1.45	79.18
Nitzschia pungens	0.45	0.12	0.99	0.61	1.44	80.61
Thalassionema nitzschoides	0.32	0.20	0.92	0.54	1.34	81.95
Akistrodesmus falcatus	0.00	0.43	0.85	0.54	1.23	83.18
Peridinium sp.	0.20	0.31	0.80	0.66	1.16	84.34
Gonyaulax monilata	0.33	0.07	0.79	0.49	1.15	85.48
Rhizosolenia setigera	0.28	0.16	0.75	0.54	1.09	86.57
Crucigenia sp.	0.00	0.38	0.75	0.47	1.09	87.65
Gonyaulax polygramma	0.21	0.15	0.71	0.51	1.03	88.68
Pyramimonas sp.	0.00	0.33	0.64	0.34	0.93	89.61
Nostoc sp.(trichomes)	0.05	0.27	0.63	0.46	0.91	90.52

Groups LMR6 & LMRRUSK

Average dissimilarity = 68.56

Species	Group LMR6 Av.Abund	Group LMRRUSK Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	4.06	5.90	6.30	1.19	9.19	9.19
Chaetoceros subtilis	2.80	0.83	4.75	1.30	6.93	16.12
Thalassiosira pseudonana	1.15	1.56	3.58	1.03	5.23	21.35
Prorocentrum minimum	0.29	1.59	2.91	1.02	4.24	25.59
Cyclotella sp. (small)	1.40	0.13	2.87	0.69	4.18	29.77
Thalassiosira sp.	0.31	1.38	2.75	0.74	4.01	33.78
Eutreptia sp.	0.42	1.43	2.62	1.04	3.83	37.61
Peridinium aciculiferum	1.07	0.84	2.60	0.94	3.79	41.40
Cyclotella sp.	0.79	0.83	2.42	0.74	3.52	44.92
Gymnodinium sp.	1.06	0.53	2.21	0.96	3.22	48.14
Unknown pennate diatom sp.	0.72	0.81	2.09	0.94	3.05	51.19
Schizothrix sp.	0.71	0.49	2.05	0.60	3.00	54.19
Schroederia setigera	1.25	0.82	2.05	1.19	2.99	57.18
Thalassiosira decipiens	0.59	0.84	1.86	1.00	2.71	59.89
Scenedesmus quadracauda	0.73	0.46	1.80	0.93	2.62	62.51
Euglena sp.	0.38	0.69	1.75	0.63	2.55	65.05
Nitzschia longissima	0.91	0.74	1.66	1.08	2.42	67.48
Leptocylindricus minimum	0.29	0.75	1.56	0.68	2.27	69.75
Nitzschia closterium	0.40	0.62	1.37	0.99	2.00	71.75
Merismopedia punctata	0.23	0.54	1.36	0.55	1.99	73.74
Scrippsiella sp.	0.18	0.59	1.35	0.72	1.97	75.71
Akistrodesmus falcatus	0.46	0.43	1.33	0.77	1.94	77.65
Ceratulina bergonii	0.14	0.53	1.29	0.50	1.88	79.52
Gonyaulax polygramma	0.53	0.15	1.19	0.72	1.73	81.25
Scenedesmus bijinga	0.43	0.28	1.14	0.63	1.67	82.92
Peridinium sp.	0.41	0.31	1.02	0.74	1.49	84.41
Nostoc sp.(trichomes)	0.21	0.27	0.87	0.59	1.26	85.67
Chaetoceros neogracile	0.17	0.31	0.85	0.61	1.24	86.91
Crucigenia sp.	0.10	0.38	0.81	0.53	1.19	88.10
Pyramimonas sp.	0.06	0.33	0.71	0.40	1.03	89.13
Bluegreen filamentous sp.	0.15	0.21	0.61	0.53	0.90	90.02

Groups ALA0 & LMRTB

Average dissimilarity = 93.48

Species	Group ALA0 Av.Abund	Group LMRTB Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	8.38	1.42	8.97	8.97
Skeletonema costatum	0.16	5.07	7.23	1.50	7.74	16.71
Unknown diatom sp.	3.09	0.00	5.33	1.96	5.70	22.40
Unknown diatom sp. D	2.34	0.00	3.94	1.41	4.22	26.62
Prorocentrum micans	1.61	0.97	3.55	0.71	3.79	30.42
Schizothrix sp.	0.00	2.14	3.24	0.68	3.46	33.88
Unknown Dinoflagellate sp.	1.73	0.00	3.07	0.91	3.28	37.16
Thalassiosira sp.	2.01	0.93	3.01	1.33	3.22	40.39
Thalassionema nitzschoides	0.35	1.63	2.74	0.73	2.93	43.31
Scenedesmus sp.	1.47	0.00	2.39	1.06	2.56	45.87
Ceratulina bergonii	0.00	1.39	2.32	0.80	2.48	48.36
Leptocylindricus minimum	0.61	1.63	2.27	1.14	2.43	50.78
Navicula sp. small	1.23	0.00	2.18	0.80	2.34	53.12
Nitzschia pungens	0.80	1.11	2.07	0.99	2.21	55.33
Nitzschia closterium	0.20	1.37	2.00	0.84	2.14	57.47
Chaetoceros socialis	0.00	1.47	1.94	0.81	2.07	59.55
Chaetoceros neogracile	0.00	1.24	1.83	0.88	1.95	61.50
Unknown pennate diatom sp.	0.00	1.09	1.75	0.87	1.87	63.37
Coscinodiscus sp.	0.83	0.10	1.55	0.59	1.65	65.03
Unknown bluegreen sp.	0.83	0.00	1.46	0.83	1.56	66.59
Rhizosolenia setigera	0.00	0.93	1.43	0.80	1.53	68.12
Pyramimonas sp.	0.84	0.06	1.38	0.80	1.47	69.59
Tetraedron sp.	0.82	0.00	1.26	0.71	1.35	70.94
Navicula sp. large	0.66	0.00	1.24	0.60	1.33	72.27
Akistrodesmus sp.	0.76	0.00	1.17	0.55	1.25	73.52
Chaetoceros compressum	0.00	0.87	1.12	0.67	1.19	74.71
Asterionella glacialis	0.00	0.87	1.11	0.67	1.18	75.90
Chaetoceros sp.	0.13	0.56	1.11	0.38	1.18	77.08
Ceratium hircus	0.00	0.73	1.08	0.85	1.16	78.24
Prorocentrum minimum	0.16	0.72	1.08	0.93	1.16	79.40
Thalassiosira decipiens	0.00	0.64	1.02	0.62	1.10	80.49
Leptocylindricus danicus	0.27	0.46	0.98	0.63	1.05	81.54
Eutreptia sp.	0.37	0.14	0.87	0.42	0.93	82.47
Melosira sp.	0.20	0.26	0.85	0.41	0.91	83.38
Nitzschia longissima	0.00	0.64	0.84	0.87	0.90	84.28
Prorocentrum sp.	0.45	0.00	0.78	0.37	0.83	85.12
Nitzschia sp.	0.38	0.05	0.75	0.40	0.80	85.92
Peridinium sp.	0.00	0.41	0.74	0.55	0.79	86.71
Chaetoceros subtilis	0.00	0.59	0.68	0.54	0.73	87.44
Prorocentrum redfieldi	0.40	0.00	0.63	0.35	0.68	88.12
Amphora sp.	0.00	0.41	0.59	0.44	0.63	88.75

Eutreptiella sp.	0.35	0.00	0.56	0.38	0.60	89.34
Pleurosigma sp.	0.09	0.27	0.52	0.54	0.55	89.90
Aphanocapsa sp.	0.36	0.00	0.51	0.38	0.55	90.45

Groups ALA12 & LMRTB

Average dissimilarity = 88.82

Species	Group ALA12 Av.Abund	Group LMRTB Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.23	0.00	9.32	1.62	10.50	10.50
Unknown Cryptophyte sp.	6.15	0.00	8.15	2.26	9.18	19.67
Skeletonema costatum	4.12	5.07	5.54	1.15	6.23	25.90
Unknown diatom sp.	3.44	0.00	4.47	1.63	5.03	30.93
Thalassiosira sp.	3.70	0.93	4.42	0.87	4.97	35.91
Unknown Dinoflagellate sp.	3.25	0.00	4.28	1.16	4.82	40.73
Prorocentrum minimum	1.70	0.72	2.76	0.44	3.10	43.83
Schizothrix sp.	0.00	2.14	2.59	0.68	2.92	46.75
Eutreptia sp.	1.93	0.14	2.56	0.63	2.88	49.63
Pyramimonas sp.	1.87	0.06	2.27	1.00	2.55	52.18
Chaetoceros sp.	1.55	0.56	2.25	0.78	2.53	54.71
Thalassionema nitzschoides	0.00	1.63	2.16	0.74	2.43	57.15
Peridinium sp.	1.64	0.41	2.06	0.79	2.32	59.46
Skeletonema menezelli	1.67	0.00	1.88	0.38	2.12	61.58
Leptocylindricus minimum	0.54	1.63	1.88	1.10	2.11	63.70
Nitzschia closterium	0.77	1.37	1.87	0.95	2.10	65.80
Prorocentrum sp.	1.24	0.00	1.83	0.41	2.07	67.87
Ceratulina bergonii	0.00	1.39	1.81	0.86	2.04	69.90
Prorocentrum micans	0.57	0.97	1.79	0.73	2.02	71.92
Chaetoceros socialis	0.00	1.47	1.60	0.81	1.80	73.72
Nitzschia pungens	0.54	1.11	1.54	0.84	1.73	75.45
Chaetoceros neogracile	0.00	1.24	1.47	0.88	1.65	77.10
Unknown pennate diatom sp.	0.00	1.09	1.37	0.89	1.54	78.64
Ceratium hircus	0.44	0.73	1.29	0.78	1.45	80.09
Rhizosolenia setigera	0.34	0.93	1.27	0.89	1.42	81.52
Coscinodiscus sp.	0.63	0.10	0.99	0.54	1.11	82.63
Chaetoceros compressum	0.00	0.87	0.92	0.67	1.04	83.66
Asterionella glacialis	0.00	0.87	0.92	0.66	1.03	84.70
Unknown Katodinium sp.	0.46	0.00	0.80	0.25	0.91	85.60
Thalassiosira decipiens	0.00	0.64	0.80	0.66	0.90	86.50
Leptocylindricus danicus	0.30	0.46	0.72	0.62	0.81	87.31
Amphora sp.	0.20	0.41	0.71	0.50	0.80	88.11
Nitzschia longissima	0.00	0.64	0.69	0.87	0.78	88.89

Chaetoceros subtilis	0.00	0.59	0.58	0.54	0.65	89.54
Chaetoceros gracile	0.35	0.05	0.56	0.28	0.63	90.17

Groups ALA18 & LMRTB

Average dissimilarity = 87.99

Species	Group ALA18 Av.Abund	Group LMRTB Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.76	0.00	9.29	2.01	10.55	10.55
Unknown Cryptophyte sp.	5.78	0.00	7.70	1.99	8.76	19.31
Skeletonema costatum	4.35	5.07	6.11	1.24	6.94	26.26
Unknown Dinoflagellate sp.	2.82	0.00	4.10	1.04	4.66	30.91
Thalassiosira sp.	3.84	0.93	4.07	1.12	4.62	35.53
Unknown diatom sp.	3.26	0.00	3.95	1.57	4.49	40.02
Schizothrix sp.	0.32	2.14	2.69	0.70	3.06	43.08
Prorocentrum minimum	1.51	0.72	2.52	0.54	2.87	45.95
Peridinium sp.	1.96	0.41	2.44	0.88	2.77	48.72
Skeletonema menezelli	2.12	0.00	2.27	0.37	2.58	51.30
Nitzschia closterium	1.48	1.37	2.27	1.08	2.58	53.89
Nitzschia pungens	1.50	1.11	2.26	0.98	2.57	56.46
Chaetoceros sp.	1.79	0.56	2.26	0.76	2.56	59.02
Thalassionema nitzschoides	0.26	1.63	2.21	0.74	2.52	61.53
Leptocylicus minimum	1.10	1.63	2.07	1.17	2.36	63.89
Ceratulina bergonii	0.00	1.39	1.79	0.82	2.04	65.93
Pyramimonas sp.	1.42	0.06	1.66	0.83	1.89	67.82
Chaetoceros socialis	0.00	1.47	1.57	0.79	1.79	69.60
Rhizosolenia setigera	0.91	0.93	1.53	1.01	1.73	71.34
Chaetoceros neogracile	0.00	1.24	1.45	0.86	1.65	72.99
Leptocylicus danicus	1.12	0.46	1.45	0.59	1.65	74.64
Unknown pennate diatom sp.	0.00	1.09	1.36	0.85	1.54	76.18
Ceratium hircus	0.66	0.73	1.28	0.92	1.46	77.64
Prorocentrum micans	0.00	0.97	1.21	0.96	1.37	79.01
Navicula sp. large	0.89	0.00	1.11	0.63	1.26	80.27
Unknown diatom sp. A	0.89	0.00	1.02	0.44	1.16	81.42
Chaetoceros gracile	0.89	0.05	1.00	0.37	1.14	82.56
Chaetoceros subtilis	0.47	0.59	0.98	0.50	1.11	83.67
Chaetoceros compressum	0.00	0.87	0.91	0.66	1.03	84.70
Asterionella glacialis	0.00	0.87	0.90	0.65	1.03	85.73
Unknown Katodinium sp.	0.47	0.00	0.84	0.34	0.96	86.69
Eutreptiella sp.	0.49	0.00	0.81	0.33	0.92	87.61
Thalassiosira decipiens	0.00	0.64	0.79	0.63	0.90	88.51
Aphanocapsa sp.	0.71	0.00	0.74	0.46	0.84	89.35

Nitzschia longissima	0.00	0.64	0.68	0.85	0.78	90.13
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Groups ALA6 & LMRTB

Average dissimilarity = 92.75

Species	Group ALA6 Av.Abund	Group LMRTB Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	6.93	0.00	9.55	1.91	10.29	10.29
Unknown diatom sp. D	5.41	0.00	7.62	1.06	8.21	18.50
Skeletonema costatum	1.59	5.07	5.68	1.33	6.12	24.62
Unknown diatom sp.	3.19	0.00	4.31	1.39	4.64	29.27
Unknown Dinoflagellate sp.	2.98	0.00	3.93	1.37	4.24	33.51
Thalassiosira sp.	2.99	0.93	3.90	0.97	4.20	37.71
Prorocentrum minimum	1.60	0.72	2.98	0.38	3.21	40.92
Schizothrix sp.	0.00	2.14	2.70	0.67	2.91	43.84
Peridinium sp.	1.80	0.41	2.49	0.93	2.69	46.52
Eutreptia sp.	1.63	0.14	2.37	0.64	2.55	49.08
Thalassionema nitzschoides	0.16	1.63	2.28	0.72	2.46	51.53
Pyramimonas sp.	1.63	0.06	2.01	0.91	2.17	53.70
Leptocylindricus minimum	0.50	1.63	1.93	1.09	2.08	55.78
Ceratulina bergonii	0.00	1.39	1.90	0.82	2.05	57.83
Nitzschia closterium	0.51	1.37	1.86	0.89	2.00	59.83
Eutreptiella sp.	1.38	0.00	1.85	0.46	1.99	61.82
Chaetoceros socialis	0.00	1.47	1.65	0.80	1.78	63.60
Prorocentrum micans	0.46	0.97	1.64	0.85	1.77	65.37
Chaetoceros neogracile	0.00	1.24	1.53	0.87	1.65	67.02
Nitzschia pungens	0.40	1.11	1.47	0.79	1.59	68.61
Unknown pennate diatom sp.	0.00	1.09	1.44	0.86	1.55	70.16
Scenedesmus sp.	1.08	0.00	1.34	0.64	1.44	71.60
Rhizosolenia setigera	0.29	0.93	1.30	0.87	1.40	73.00
Chaetoceros sp.	0.51	0.56	1.24	0.48	1.34	74.33
Unknown bluegreen sp.	0.81	0.00	1.15	0.50	1.24	75.58
Leptocylindricus danicus	0.52	0.46	1.08	0.57	1.17	76.74
Glenodinium sp.	0.71	0.00	1.00	0.36	1.08	77.82
Amphora sp.	0.40	0.41	0.99	0.53	1.07	78.89
Prorocentrum redfieldi	0.74	0.00	0.98	0.25	1.05	79.94
Chaetoceros compressum	0.00	0.87	0.95	0.66	1.03	80.97
Asterionella glacialis	0.00	0.87	0.95	0.66	1.02	81.99
Ceratium hircus	0.00	0.73	0.91	0.84	0.98	82.97
Thalassiosira decipiens	0.00	0.64	0.84	0.63	0.91	83.87
Navicula sp. small	0.46	0.00	0.78	0.45	0.84	84.72
Unknown Katodinium sp.	0.69	0.00	0.77	0.25	0.83	85.54

Prorocentrum sp.	0.69	0.00	0.76	0.34	0.82	86.37
Skeletonema menezelli	0.59	0.00	0.75	0.25	0.81	87.18
Nitzschia longissima	0.00	0.64	0.72	0.86	0.77	87.95
Pseudopedinella sp.	0.61	0.00	0.67	0.25	0.72	88.67
Chaetoceros subtilis	0.00	0.59	0.59	0.54	0.64	89.31
Gymnodinium sp.	0.26	0.25	0.56	0.47	0.61	89.92
Coscinodiscus sp.	0.23	0.10	0.53	0.34	0.57	90.49

Groups ALASFB & LMRTB

Average dissimilarity = 84.49

Species	Group ALASFB Av.Abund	Group LMRTB Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.21	0.00	8.93	2.03	10.57	10.57
Unknown Cryptophyte sp.	5.30	0.00	7.34	2.03	8.69	19.25
Skeletonema costatum	6.05	5.07	6.61	1.28	7.83	27.08
Unknown diatom sp.	3.86	0.00	4.81	2.05	5.69	32.77
Nitzschia closterium	3.80	1.37	3.85	1.62	4.56	37.33
Thalassiosira sp.	3.61	0.93	3.78	1.66	4.47	41.80
Unknown Dinoflagellate sp.	2.64	0.00	3.31	1.68	3.92	45.72
Schizothrix sp.	0.00	2.14	2.61	0.67	3.08	48.81
Nitzschia pungens	1.73	1.11	2.40	1.07	2.84	51.64
Chaetoceros sp.	1.62	0.56	2.30	0.80	2.72	54.36
Thalassionema nitzschoides	0.36	1.63	2.27	0.76	2.69	57.05
Leptocylindricus minimum	0.90	1.63	2.04	1.09	2.42	59.47
Pyramimonas sp.	1.42	0.06	1.92	0.73	2.27	61.74
Ceratulina bergonii	0.00	1.39	1.82	0.83	2.16	63.90
Skeletonema menezelli	1.69	0.00	1.79	0.33	2.11	66.01
Chaetoceros socialis	0.00	1.47	1.60	0.80	1.90	67.91
Peridinium sp.	0.87	0.41	1.50	0.68	1.78	69.69
Chaetoceros neogracile	0.00	1.24	1.48	0.87	1.75	71.43
Unknown pennate diatom sp.	0.00	1.09	1.38	0.87	1.64	73.07
Rhizosolenia setigera	0.36	0.93	1.34	0.88	1.58	74.65
Ceratium hircus	0.47	0.73	1.23	0.82	1.45	76.11
Prorocentrum micans	0.00	0.97	1.23	0.97	1.45	77.56
Chaetoceros subtilis	0.66	0.59	1.18	0.55	1.39	78.95
Leptocylindricus danicus	0.50	0.46	1.08	0.62	1.27	80.23
Navicula sp. small	0.89	0.00	0.98	0.48	1.16	81.39
Chaetoceros compressum	0.00	0.87	0.92	0.66	1.09	82.48
Asterionella glacialis	0.00	0.87	0.92	0.66	1.09	83.57
Thalassiosira decipiens	0.00	0.64	0.81	0.64	0.95	84.52
Prorocentrum minimum	0.00	0.72	0.79	0.93	0.94	85.46

Nitzschia longissima	0.00	0.64	0.70	0.86	0.82	86.29
Navicula sp. large	0.39	0.00	0.63	0.46	0.75	87.04
Akistrodesmus sp.	0.45	0.00	0.59	0.32	0.69	87.73
Gymnodinium sp.	0.30	0.25	0.56	0.56	0.66	88.39
Gonyaulax sp.	0.48	0.00	0.55	0.33	0.65	89.04
Prorocentrum gracile	0.33	0.11	0.53	0.39	0.63	89.66
Eutreptia sp.	0.19	0.14	0.50	0.41	0.59	90.26

Groups ALATB & LMRTB

Average dissimilarity = 80.39

Species	Group ALATB Av.Abund	Group LMRTB Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	8.40	5.07	6.59	1.17	8.20	8.20
Unknown diatom sp. D	5.42	0.00	6.24	1.80	7.77	15.97
Unknown Cryptophyte sp.	4.97	0.00	6.20	2.17	7.71	23.68
Thalassiosira sp.	4.50	0.93	4.28	1.72	5.32	29.00
Unknown diatom sp.	3.54	0.00	4.17	1.96	5.19	34.19
Nitzschia closterium	3.84	1.37	3.67	1.45	4.57	38.75
Nitzschia pungens	3.10	1.11	3.27	1.30	4.07	42.83
Chaetoceros sp.	2.89	0.56	3.19	1.30	3.97	46.80
Unknown Dinoflagellate sp.	2.17	0.00	2.38	1.04	2.96	49.76
Schizothrix sp.	0.00	2.14	2.35	0.67	2.92	52.68
Leptocylindricus minimum	1.84	1.63	2.32	1.17	2.89	55.57
Thalassionema nitzschoides	1.37	1.63	2.27	0.91	2.82	58.39
Skeletonema menezelli	2.25	0.00	2.25	0.45	2.80	61.19
Ceratium hircus	1.27	0.73	1.73	0.88	2.15	63.34
Pyramimonas sp.	1.37	0.06	1.69	0.82	2.10	65.43
Ceratulina bergonii	0.00	1.39	1.63	0.87	2.03	67.46
Rhizosolenia setigera	1.05	0.93	1.47	1.04	1.83	69.29
Chaetoceros socialis	0.00	1.47	1.46	0.80	1.82	71.11
Peridinium sp.	1.19	0.41	1.36	0.85	1.69	72.80
Chaetoceros neogracile	0.00	1.24	1.34	0.88	1.66	74.46
Prorocentrum micans	0.54	0.97	1.27	1.09	1.58	76.03
Unknown pennate diatom sp.	0.00	1.09	1.24	0.88	1.54	77.57
Leptocylindricus danicus	0.82	0.46	1.14	0.75	1.42	78.99
Unknown diatom sp. A	0.97	0.00	1.10	0.57	1.37	80.37
Navicula sp. large	0.96	0.00	1.01	0.66	1.25	81.62
Prorocentrum minimum	0.27	0.72	1.00	0.71	1.24	82.86
Chaetoceros compressum	0.00	0.87	0.84	0.66	1.05	83.91
Asterionella glacialis	0.00	0.87	0.84	0.66	1.05	84.96
Chaetoceros gracile	0.60	0.05	0.77	0.27	0.95	85.91

Prorocentrum sp.	0.79	0.00	0.76	0.46	0.94	86.86
Thalassiosira decipiens	0.00	0.64	0.72	0.66	0.90	87.75
Nitzschia longissima	0.00	0.64	0.64	0.86	0.79	88.54
Amphora sp.	0.14	0.41	0.58	0.52	0.73	89.27
Nitzschia delicatissima	0.52	0.00	0.57	0.26	0.70	89.97
Chaetoceros subtilis	0.00	0.59	0.53	0.54	0.66	90.64

Groups ALASFC & LMRTB

Average dissimilarity = 83.81

Species	Group ALASFC Av.Abund	Group LMRTB Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	11.14	1.64	13.30	13.30
Unknown diatom sp. D	8.36	0.00	8.38	3.02	10.00	23.30
Unknown Cryptophyte sp.	7.43	0.00	8.05	4.38	9.60	32.90
Unknown diatom sp.	4.70	0.00	4.97	4.95	5.93	38.83
Thalassiosira sp.	4.72	0.93	4.28	2.01	5.11	43.94
Pyramimonas sp.	3.83	0.06	4.16	3.48	4.96	48.90
Skeletonema costatum	5.96	5.07	3.78	1.35	4.51	53.41
Nitzschia closterium	4.12	1.37	3.60	1.50	4.29	57.70
Chaetoceros sp.	3.08	0.56	2.82	1.02	3.36	61.06
Gymnodinium sp.	2.63	0.25	2.33	1.06	2.78	63.85
Nitzschia pungens	2.29	1.11	2.21	1.17	2.64	66.48
Schizothrix sp.	0.00	2.14	2.17	0.66	2.59	69.07
Leptocylindricus minimum	1.88	1.63	2.01	1.33	2.39	71.47
Thalassionema nitzschoides	0.00	1.63	1.78	0.74	2.12	73.59
Ceratulina bergonii	0.00	1.39	1.49	0.88	1.78	75.37
Peridinium sp.	1.50	0.41	1.41	1.17	1.68	77.05
Chaetoceros socialis	0.00	1.47	1.36	0.79	1.62	78.68
Rhizosolenia setigera	1.26	0.93	1.31	1.12	1.56	80.24
Prorocentrum sp.	1.50	0.00	1.30	0.97	1.55	81.79
Chaetoceros neogracile	0.00	1.24	1.24	0.87	1.47	83.26
Leptocylindricus danicus	1.26	0.46	1.17	1.11	1.40	84.66
Unknown pennate diatom sp.	0.00	1.09	1.14	0.87	1.36	86.02
Navicula sp. large	1.26	0.00	1.09	0.97	1.31	87.33
Prorocentrum micans	0.00	0.97	1.02	0.97	1.21	88.54
Chaetoceros compressum	0.00	0.87	0.79	0.66	0.94	89.48
Asterionella glacialis	0.00	0.87	0.79	0.65	0.94	90.42

Groups LMR0 & LMRTB

Average dissimilarity = 86.73

Species	Group LMR0 Av.Abund	Group LMRTB Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	5.07	8.12	1.31	9.36	9.36
Schizothrix sp.	0.00	2.14	3.73	0.68	4.30	13.66
Cyclotella sp.	1.76	0.00	3.47	0.68	4.00	17.67
Cyclotella sp. (small)	1.79	0.00	3.46	0.66	3.99	21.66
Thalassionema nitzschoides	0.00	1.63	3.35	0.68	3.87	25.52
Unknown pennate diatom sp.	2.07	1.09	3.28	1.11	3.78	29.30
Ceratulina bergonii	0.00	1.39	2.75	0.73	3.17	32.48
Cyclotella sp. (large)	1.45	0.00	2.69	0.56	3.10	35.58
Leptocylindricus minimum	0.00	1.63	2.49	1.10	2.87	38.44
Thalassiosira decipiens	0.91	0.64	2.38	0.70	2.75	41.19
Nitzschia closterium	0.08	1.37	2.21	0.83	2.55	43.74
Thalassiosira pseudonana	1.05	0.37	2.20	0.62	2.53	46.27
Scenedesmus quadricauda	1.15	0.06	2.18	0.98	2.52	48.79
Chaetoceros socialis	0.00	1.47	2.17	0.80	2.51	51.29
Chaetoceros neogracile	0.00	1.24	2.10	0.85	2.42	53.71
Gymnodinium sp.	1.01	0.25	1.99	0.91	2.30	56.01
Schroederia setigera	1.04	0.09	1.95	0.97	2.24	58.26
Eutreptia sp.	0.88	0.14	1.87	0.88	2.15	60.41
Prorocentrum micans	0.00	0.97	1.79	0.95	2.07	62.47
Scenedesmus bijinga	0.90	0.06	1.74	0.79	2.01	64.48
Nitzschia pungens	0.00	1.11	1.70	0.70	1.96	66.44
Rhizosolenia setigera	0.00	0.93	1.68	0.75	1.94	68.38
Thalassiosira sp.	0.10	0.93	1.67	0.66	1.92	70.30
Nitzschia longissima	0.78	0.64	1.58	0.98	1.82	72.12
Melosira sp.	0.36	0.26	1.33	0.49	1.53	73.65
Chaetoceros subtilis	0.44	0.59	1.33	0.70	1.53	75.18
Akistrodesmus falcatus	0.64	0.05	1.27	0.65	1.47	76.65
Chaetoceros compressum	0.00	0.87	1.25	0.66	1.44	78.09
Ceratium hircus	0.00	0.73	1.24	0.83	1.43	79.53
Asterionella glacialis	0.00	0.87	1.24	0.66	1.43	80.95
Prorocentrum minimum	0.16	0.72	1.19	0.92	1.38	82.33
Chaetoceros sp.	0.00	0.56	1.18	0.32	1.36	83.69
Bluegreen filamentous sp.	0.41	0.06	0.92	0.59	1.06	84.75
Peridinium sp.	0.00	0.41	0.89	0.52	1.02	85.77
Pleurosigma sp.	0.24	0.27	0.87	0.62	1.01	86.78
Merismopedia punctata	0.29	0.09	0.77	0.41	0.89	87.67
Leptocylindricus danicus	0.00	0.46	0.69	0.58	0.80	88.47
Amphora sp.	0.00	0.41	0.67	0.43	0.77	89.24
Cyclotella meneghiniana	0.40	0.00	0.65	0.27	0.75	89.99
Scenedesmus acutus	0.34	0.00	0.62	0.38	0.71	90.71

Groups LMR12 & LMRTB

Average dissimilarity = 75.47

Species	Group LMR12 Av.Abund	Group LMRTB Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.94	5.07	6.61	1.23	8.75	8.75
Chaetoceros subtilis	2.19	0.59	4.86	0.94	6.44	15.19
Schizothrix sp.	1.06	2.14	4.61	0.85	6.11	21.30
Thalassionema nitzschoides	0.32	1.63	3.39	0.69	4.49	25.79
Ceratulina bergonii	0.40	1.39	2.85	0.74	3.77	29.56
Leptocylindricus minimum	0.80	1.63	2.72	1.13	3.60	33.16
Chaetoceros socialis	0.70	1.47	2.67	1.04	3.54	36.70
Nitzschia closterium	0.79	1.37	2.62	1.04	3.48	40.18
Peridinium aciculiferum	1.12	0.06	2.57	0.77	3.41	43.59
Thalassiosira sp.	0.84	0.93	2.46	0.85	3.26	46.85
Unknown pennate diatom sp.	0.75	1.09	2.29	0.94	3.04	49.89
Chaetoceros neogracile	0.39	1.24	2.21	0.91	2.92	52.82
Nitzschia pungens	0.45	1.11	2.08	0.85	2.76	55.58
Thalassiosira pseudonana	0.90	0.37	1.98	0.84	2.62	58.19
Prorocentrum micans	0.24	0.97	1.86	0.98	2.47	60.66
Rhizosolenia setigera	0.28	0.93	1.82	0.83	2.41	63.08
Nitzschia longissima	0.75	0.64	1.60	0.96	2.12	65.20
Ceratium hircus	0.22	0.73	1.46	0.86	1.94	67.13
Prorocentrum minimum	0.38	0.72	1.36	0.96	1.80	68.93
Chaetoceros sp.	0.12	0.56	1.35	0.37	1.79	70.72
Thalassiosira decipiens	0.06	0.64	1.30	0.59	1.72	72.44
Chaetoceros compressum	0.00	0.87	1.28	0.67	1.69	74.14
Eutreptia sp.	0.58	0.14	1.26	0.72	1.68	75.81
Asterionella glacialis	0.00	0.87	1.26	0.67	1.67	77.48
Schroederia setigera	0.53	0.09	1.23	0.61	1.63	79.11
Peridinium sp.	0.20	0.41	1.10	0.61	1.46	80.57
Gymnodinium sp.	0.37	0.25	0.98	0.60	1.30	81.87
Gonyaulax monilata	0.33	0.19	0.93	0.55	1.23	83.10
Leptocylindricus danicus	0.18	0.46	0.90	0.65	1.20	84.29
Gonyaulax polygramma	0.21	0.22	0.89	0.49	1.18	85.48
Melosira sp.	0.00	0.26	0.86	0.31	1.14	86.62
Cyclotella sp.	0.45	0.00	0.81	0.47	1.07	87.69
Scrippsiella sp.	0.29	0.24	0.81	0.61	1.07	88.77
Cyclotella sp. (small)	0.35	0.00	0.80	0.30	1.06	89.83
Amphora sp.	0.06	0.41	0.77	0.47	1.02	90.85

Groups LMR6 & LMRTB

Average dissimilarity = 79.79

Species	Group LMR6 Av.Abund	Group LMRTB Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	4.06	5.07	6.23	1.37	7.80	7.80
Chaetoceros subtilis	2.80	0.59	5.12	1.23	6.41	14.22
Schizothrix sp.	0.71	2.14	4.22	0.82	5.28	19.50
Thalassionema nitzschoides	0.09	1.63	3.15	0.71	3.94	23.44
Cyclotella sp. (small)	1.40	0.00	2.72	0.64	3.41	26.85
Ceratulina bergonii	0.14	1.39	2.57	0.78	3.22	30.06
Leptocylindricus minimum	0.29	1.63	2.44	1.13	3.06	33.13
Thalassiosira pseudonana	1.15	0.37	2.43	0.72	3.04	36.17
Schroederia setigera	1.25	0.09	2.34	1.24	2.93	39.10
Nitzschia closterium	0.40	1.37	2.27	0.92	2.85	41.95
Unknown pennate diatom sp.	0.72	1.09	2.23	1.01	2.79	44.74
Peridinium aciculiferum	1.07	0.06	2.21	0.68	2.77	47.51
Chaetoceros socialis	0.00	1.47	2.12	0.82	2.65	50.16
Chaetoceros neogracile	0.17	1.24	2.06	0.90	2.58	52.74
Gymnodinium sp.	1.06	0.25	2.05	0.83	2.57	55.31
Nitzschia pungens	0.21	1.11	1.82	0.81	2.28	57.59
Thalassiosira sp.	0.31	0.93	1.76	0.76	2.20	59.79
Prorocentrum micans	0.00	0.97	1.72	0.99	2.15	61.94
Nitzschia longissima	0.91	0.64	1.71	0.99	2.14	64.08
Rhizosolenia setigera	0.06	0.93	1.62	0.82	2.03	66.11
Thalassiosira decipiens	0.59	0.64	1.61	0.83	2.02	68.13
Cyclotella sp.	0.79	0.00	1.46	0.51	1.83	69.96
Scenedesmus quadracauda	0.73	0.06	1.44	0.77	1.81	71.77
Gonyaulax polygramma	0.53	0.22	1.29	0.70	1.62	73.39
Peridinium sp.	0.41	0.41	1.22	0.73	1.53	74.92
Prorocentrum minimum	0.29	0.72	1.22	0.99	1.53	76.45
Chaetoceros compressum	0.00	0.87	1.22	0.67	1.53	77.98
Asterionella glacialis	0.00	0.87	1.21	0.67	1.51	79.49
Ceratium hircus	0.00	0.73	1.20	0.85	1.50	80.99
Chaetoceros sp.	0.00	0.56	1.12	0.34	1.40	82.39
Eutreptia sp.	0.42	0.14	0.99	0.60	1.24	83.63
Melosira sp.	0.15	0.26	0.93	0.40	1.17	84.80
Scenedesmus bijinga	0.43	0.06	0.92	0.51	1.15	85.94
Leptocylindricus danicus	0.20	0.46	0.91	0.64	1.14	87.08
Akistrodesmus falcatus	0.46	0.05	0.90	0.57	1.12	88.21
Euglena sp.	0.38	0.00	0.77	0.47	0.96	89.17
Pleurosigma sp.	0.16	0.27	0.74	0.51	0.93	90.09

Groups LMRRUSK & LMRTB

Average dissimilarity = 76.92

Species	Group LMRRUSK Av.Abund	Group LMRTB Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.90	5.07	7.94	1.06	10.32	10.32
Schizothrix sp.	0.49	2.14	3.74	0.76	4.86	15.18
Thalassionema nitzschoides	0.20	1.63	3.00	0.70	3.90	19.09
Thalassiosira sp.	1.38	0.93	2.99	0.82	3.88	22.97
Thalassiosira pseudonana	1.56	0.37	2.77	0.83	3.60	26.57
Ceratulina bergonii	0.53	1.39	2.73	0.78	3.55	30.12
Prorocentrum minimum	1.59	0.72	2.65	0.95	3.45	33.56
Leptocylicus minimum	0.75	1.63	2.59	1.11	3.37	36.93
Eutreptia sp.	1.43	0.14	2.50	0.92	3.24	40.18
Unknown pennate diatom sp.	0.81	1.09	2.24	0.96	2.91	43.08
Nitzschia closterium	0.62	1.37	2.21	0.99	2.87	45.96
Chaetoceros socialis	0.28	1.47	2.17	0.86	2.83	48.79
Chaetoceros neogracile	0.31	1.24	1.98	0.90	2.58	51.36
Chaetoceros subtilis	0.83	0.59	1.78	0.79	2.31	53.67
Thalassiosira decipiens	0.84	0.64	1.77	0.84	2.30	55.97
Nitzschia pungens	0.12	1.11	1.66	0.74	2.15	58.13
Prorocentrum micans	0.13	0.97	1.63	0.97	2.12	60.24
Rhizosolenia setigera	0.16	0.93	1.62	0.80	2.10	62.35
Schroederia setigera	0.82	0.09	1.56	0.80	2.03	64.38
Peridinium aciculiferum	0.84	0.06	1.52	0.78	1.97	66.35
Nitzschia longissima	0.74	0.64	1.40	0.96	1.82	68.17
Cyclotella sp.	0.83	0.00	1.30	0.48	1.69	69.86
Scrippsiella sp.	0.59	0.24	1.25	0.67	1.63	71.48
Ceratium hircus	0.08	0.73	1.18	0.85	1.54	73.02
Chaetoceros compressum	0.00	0.87	1.17	0.66	1.52	74.54
Euglena sp.	0.69	0.00	1.16	0.43	1.51	76.05
Asterionella glacialis	0.00	0.87	1.16	0.66	1.51	77.56
Chaetoceros sp.	0.00	0.56	1.07	0.33	1.39	78.95
Merismopedia punctata	0.54	0.09	1.07	0.47	1.39	80.33
Gymnodinium sp.	0.53	0.25	1.01	0.79	1.32	81.65
Peridinium sp.	0.31	0.41	1.01	0.67	1.31	82.97
Scenedesmus quadricauda	0.46	0.06	0.85	0.50	1.10	84.07
Akistrodesmus falcatus	0.43	0.05	0.79	0.55	1.03	85.10
Amphora sp.	0.13	0.41	0.75	0.52	0.98	86.08
Melosira sp.	0.00	0.26	0.73	0.31	0.94	87.02
Leptocylicus danicus	0.09	0.46	0.72	0.62	0.93	87.95

Nostoc sp.(trichomes)	0.27	0.17	0.68	0.52	0.88	88.83
Crucigenia sp.	0.38	0.00	0.65	0.45	0.85	89.68
Gonyaulax polygramma	0.15	0.22	0.65	0.46	0.85	90.53

Groups ALA0 & LMR18

Average dissimilarity = 95.46

Species	Group ALA0 Av.Abund	Group LMR18 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	9.95	1.57	10.42	10.42
Skeletonema costatum	0.16	4.09	8.04	2.24	8.42	18.84
Unknown diatom sp.	3.09	0.00	6.31	2.35	6.61	25.45
Unknown diatom sp. D	2.34	0.00	4.66	1.55	4.88	30.33
Thalassiosira sp.	2.01	0.36	3.78	1.66	3.96	34.29
Prorocentrum micans	1.61	0.25	3.75	0.59	3.93	38.22
Unknown Dinoflagellate sp.	1.73	0.00	3.64	0.97	3.82	42.04
Nitzschia closterium	0.20	1.55	3.04	1.52	3.18	45.22
Scenedesmus sp.	1.47	0.07	2.80	1.14	2.93	48.15
Navicula sp. small	1.23	0.00	2.60	0.84	2.72	50.87
Leptocylicus minimum	0.61	0.93	2.07	1.02	2.17	53.04
Chaetoceros subtilis	0.00	0.83	1.87	0.64	1.96	54.99
Chaetoceros socialis	0.00	0.99	1.84	0.87	1.92	56.92
Nitzschia pungens	0.80	0.30	1.76	0.87	1.85	58.76
Peridinium aciculiferum	0.00	0.79	1.75	0.79	1.83	60.59
Unknown bluegreen sp.	0.83	0.00	1.73	0.88	1.81	62.41
Coscinodiscus sp.	0.83	0.00	1.73	0.57	1.81	64.22
Pyramimonas sp.	0.84	0.15	1.71	0.86	1.79	66.01
Unknown pennate diatom sp.	0.00	0.84	1.55	0.80	1.63	67.64
Navicula sp. large	0.66	0.00	1.48	0.64	1.55	69.19
Tetraedron sp.	0.82	0.00	1.47	0.75	1.54	70.73
Akistrodesmus sp.	0.76	0.05	1.42	0.60	1.48	72.22
Schizothrix sp.	0.00	0.67	1.33	0.43	1.39	73.61
Thalassionema nitzschoides	0.35	0.48	1.30	0.74	1.36	74.96
Ceratulina bergonii	0.00	0.59	1.28	0.43	1.34	76.30
Eutreptia sp.	0.37	0.31	1.21	0.54	1.27	77.57
Chaetoceros neogracile	0.00	0.63	1.21	0.63	1.26	78.84
Rhizosolenia setigera	0.00	0.54	1.10	0.67	1.16	79.99
Nitzschia longissima	0.00	0.53	1.05	0.81	1.11	81.10
Prorocentrum sp.	0.45	0.00	0.92	0.38	0.97	82.06
Thalassiosira pseudonana	0.00	0.51	0.90	0.65	0.94	83.00
Leptocylicus danicus	0.27	0.15	0.84	0.49	0.88	83.88
Prorocentrum minimum	0.16	0.35	0.82	0.61	0.86	84.74

Nitzschia sp.	0.38	0.00	0.82	0.38	0.86	85.60
Prorocentrum redfieldi	0.40	0.00	0.74	0.36	0.77	86.37
Gymnodinium sp.	0.09	0.30	0.70	0.54	0.74	87.11
Eutreptiella sp.	0.35	0.00	0.66	0.39	0.69	87.79
Peridinium sp.	0.00	0.32	0.65	0.41	0.68	88.47
Chaetoceros compressum	0.00	0.31	0.63	0.41	0.66	89.14
Asterionella glacialis	0.00	0.35	0.62	0.42	0.65	89.79
Aphanocapsa sp.	0.36	0.00	0.60	0.39	0.62	90.41

Groups ALA12 & LMR18

Average dissimilarity = 88.84

Species	Group ALA12 Av.Abund	Group LMR18 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.23	0.00	10.71	1.76	12.06	12.06
Unknown Cryptophyte sp.	6.15	0.00	9.39	2.59	10.57	22.63
Thalassiosira sp.	3.70	0.36	5.35	0.94	6.02	28.65
Unknown diatom sp.	3.44	0.00	5.14	1.75	5.78	34.44
Skeletonema costatum	4.12	4.09	5.13	1.14	5.77	40.21
Unknown Dinoflagellate sp.	3.25	0.00	4.93	1.21	5.55	45.76
Eutreptia sp.	1.93	0.31	3.01	0.69	3.39	49.16
Prorocentrum minimum	1.70	0.35	2.94	0.41	3.31	52.46
Pyramimonas sp.	1.87	0.15	2.59	1.03	2.92	55.38
Nitzschia closterium	0.77	1.55	2.36	1.50	2.66	58.04
Peridinium sp.	1.64	0.32	2.27	0.75	2.56	60.60
Chaetoceros sp.	1.55	0.11	2.27	0.76	2.55	63.15
Prorocentrum sp.	1.24	0.00	2.14	0.42	2.41	65.56
Skeletonema menezelli	1.67	0.00	2.13	0.39	2.40	67.95
Leptocylicus minimum	0.54	0.93	1.63	0.97	1.84	69.79
Chaetoceros socialis	0.00	0.99	1.42	0.87	1.59	71.38
Chaetoceros subtilis	0.00	0.83	1.37	0.64	1.55	72.93
Prorocentrum micans	0.57	0.25	1.36	0.43	1.53	74.46
Peridinium aciculiferum	0.00	0.79	1.28	0.79	1.45	75.90
Unknown pennate diatom sp.	0.00	0.84	1.20	0.79	1.35	77.26
Rhizosolenia setigera	0.34	0.54	1.08	0.79	1.22	78.47
Nitzschia pungens	0.54	0.30	1.07	0.63	1.20	79.68
Coscinodiscus sp.	0.63	0.00	1.03	0.49	1.16	80.83
Schizothrix sp.	0.00	0.67	1.01	0.43	1.14	81.97
Unknown Katodinium sp.	0.46	0.00	0.95	0.26	1.07	83.04
Ceratulina bergonii	0.00	0.59	0.95	0.42	1.07	84.11
Ceratium hircus	0.44	0.14	0.94	0.46	1.06	85.17
Chaetoceros neogracile	0.00	0.63	0.92	0.63	1.04	86.21

Nitzschia longissima	0.00	0.53	0.80	0.81	0.90	87.11
Thalassionema nitzschoides	0.00	0.48	0.71	0.57	0.80	87.91
Thalassiosira pseudonana	0.00	0.51	0.70	0.65	0.79	88.70
Chaetoceros gracile	0.35	0.00	0.61	0.26	0.69	89.39
Amphora sp.	0.20	0.21	0.59	0.43	0.66	90.05

Groups ALA18 & LMR18

Average dissimilarity = 88.39

Species	Group ALA18 Av.Abund	Group LMR18 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.76	0.00	10.62	2.27	12.01	12.01
Unknown Cryptophyte sp.	5.78	0.00	8.91	2.19	10.08	22.10
Skeletonema costatum	4.35	4.09	6.10	1.34	6.91	29.00
Thalassiosira sp.	3.84	0.36	4.93	1.25	5.58	34.58
Unknown Dinoflagellate sp.	2.82	0.00	4.78	1.09	5.41	39.99
Unknown diatom sp.	3.26	0.00	4.52	1.68	5.11	45.11
Peridinium sp.	1.96	0.32	2.74	0.84	3.09	48.20
Prorocentrum minimum	1.51	0.35	2.73	0.50	3.09	51.29
Skeletonema menezelli	2.12	0.00	2.56	0.37	2.89	54.18
Nitzschia closterium	1.48	1.55	2.44	1.48	2.76	56.95
Nitzschia pungens	1.50	0.30	2.30	0.88	2.60	59.55
Chaetoceros sp.	1.79	0.11	2.19	0.75	2.47	62.02
Leptocyndricus minimum	1.10	0.93	1.96	1.08	2.22	64.25
Pyramimonas sp.	1.42	0.15	1.93	0.86	2.18	66.43
Chaetoceros subtilis	0.47	0.83	1.77	0.67	2.00	68.43
Rhizosolenia setigera	0.91	0.54	1.49	0.95	1.68	70.12
Chaetoceros socialis	0.00	0.99	1.40	0.84	1.59	71.71
Leptocyndricus danicus	1.12	0.15	1.37	0.49	1.55	73.26
Peridinium aciculiferum	0.00	0.79	1.28	0.76	1.45	74.71
Schizothrix sp.	0.32	0.67	1.28	0.49	1.44	76.15
Navicula sp. large	0.89	0.00	1.27	0.65	1.43	77.58
Unknown pennate diatom sp.	0.00	0.84	1.19	0.76	1.35	78.93
Unknown diatom sp. A	0.89	0.00	1.15	0.45	1.30	80.23
Chaetoceros gracile	0.89	0.00	1.10	0.36	1.25	81.48
Unknown Katodinium sp.	0.47	0.00	1.00	0.35	1.13	82.61
Eutreptiella sp.	0.49	0.00	0.95	0.34	1.08	83.69
Ceratulina bergonii	0.00	0.59	0.94	0.41	1.07	84.76
Ceratium hircus	0.66	0.14	0.92	0.56	1.04	85.80
Chaetoceros neogracile	0.00	0.63	0.92	0.61	1.04	86.84
Thalassionema nitzschoides	0.26	0.48	0.89	0.62	1.01	87.84
Aphanocapsa sp.	0.71	0.00	0.83	0.47	0.94	88.78

Nitzschia longissima	0.00	0.53	0.80	0.78	0.90	89.68
Thalassiosira pseudonana	0.00	0.51	0.69	0.63	0.78	90.47

Groups ALA6 & LMR18

Average dissimilarity = 92.43

Species	Group ALA6 Av.Abund	Group LMR18 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	6.93	0.00	11.05	2.14	11.96	11.96
Unknown diatom sp. D	5.41	0.00	8.83	1.10	9.56	21.51
Skeletonema costatum	1.59	4.09	5.40	1.66	5.84	27.35
Unknown diatom sp.	3.19	0.00	4.97	1.47	5.38	32.73
Thalassiosira sp.	2.99	0.36	4.67	1.02	5.05	37.78
Unknown Dinoflagellate sp.	2.98	0.00	4.52	1.44	4.89	42.67
Prorocentrum minimum	1.60	0.35	3.13	0.35	3.39	46.06
Peridinium sp.	1.80	0.32	2.83	0.89	3.07	49.13
Eutreptia sp.	1.63	0.31	2.82	0.70	3.05	52.18
Nitzschia closterium	0.51	1.55	2.45	1.44	2.65	54.83
Pyramimonas sp.	1.63	0.15	2.32	0.94	2.51	57.34
Eutreptiella sp.	1.38	0.00	2.13	0.47	2.31	59.65
Leptocylindricus minimum	0.50	0.93	1.67	0.94	1.81	61.46
Scenedesmus sp.	1.08	0.07	1.58	0.68	1.71	63.16
Chaetoceros socialis	0.00	0.99	1.49	0.85	1.61	64.78
Chaetoceros subtilis	0.00	0.83	1.47	0.62	1.59	66.36
Peridinium aciculiferum	0.00	0.79	1.37	0.76	1.48	67.85
Unknown bluegreen sp.	0.81	0.00	1.34	0.52	1.45	69.30
Unknown pennate diatom sp.	0.00	0.84	1.26	0.77	1.37	70.66
Glenodinium sp.	0.71	0.00	1.16	0.37	1.26	71.92
Prorocentrum redfieldi	0.74	0.00	1.12	0.26	1.21	73.13
Rhizosolenia setigera	0.29	0.54	1.08	0.76	1.17	74.30
Schizothrix sp.	0.00	0.67	1.07	0.42	1.15	75.46
Ceratulina bergonii	0.00	0.59	1.01	0.41	1.09	76.55
Chaetoceros neogracile	0.00	0.63	0.97	0.62	1.05	77.60
Leptocylindricus danicus	0.52	0.15	0.95	0.44	1.03	78.63
Amphora sp.	0.40	0.21	0.94	0.47	1.02	79.65
Navicula sp. small	0.46	0.00	0.93	0.47	1.00	80.65
Prorocentrum micans	0.46	0.25	0.89	0.40	0.97	81.61
Unknown Katodinium sp.	0.69	0.00	0.87	0.26	0.94	82.55
Prorocentrum sp.	0.69	0.00	0.86	0.34	0.93	83.49
Thalassionema nitzschoides	0.16	0.48	0.86	0.61	0.93	84.42
Skeletonema menezelli	0.59	0.00	0.86	0.26	0.93	85.34
Nitzschia longissima	0.00	0.53	0.85	0.79	0.92	86.26

Nitzschia pungens	0.40	0.30	0.84	0.56	0.91	87.16
Chaetoceros sp.	0.51	0.11	0.80	0.43	0.86	88.02
Pseudopedinella sp.	0.61	0.00	0.75	0.26	0.82	88.84
Gymnodinium sp.	0.26	0.30	0.75	0.51	0.81	89.65
Thalassiosira pseudonana	0.00	0.51	0.73	0.63	0.79	90.44

Groups ALASFB & LMR18

Average dissimilarity = 83.57

Species	Group ALASFB Av.Abund	Group LMR18 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.21	0.00	10.22	2.31	12.23	12.23
Unknown Cryptophyte sp.	5.30	0.00	8.51	2.28	10.18	22.41
Skeletonema costatum	6.05	4.09	6.79	1.65	8.13	30.54
Unknown diatom sp.	3.86	0.00	5.50	2.29	6.58	37.12
Thalassiosira sp.	3.61	0.36	4.75	2.23	5.68	42.81
Unknown Dinoflagellate sp.	2.64	0.00	3.79	1.81	4.54	47.35
Nitzschia closterium	3.80	1.55	3.67	1.81	4.39	51.73
Nitzschia pungens	1.73	0.30	2.57	1.03	3.07	54.81
Chaetoceros sp.	1.62	0.11	2.30	0.81	2.76	57.57
Pyramimonas sp.	1.42	0.15	2.27	0.77	2.71	60.28
Skeletonema menezelli	1.69	0.00	2.00	0.33	2.40	62.68
Chaetoceros subtilis	0.66	0.83	1.97	0.72	2.36	65.04
Leptocylindricus minimum	0.90	0.93	1.93	0.99	2.31	67.35
Peridinium sp.	0.87	0.32	1.63	0.62	1.95	69.31
Chaetoceros socialis	0.00	0.99	1.43	0.85	1.71	71.02
Peridinium aciculiferum	0.00	0.79	1.30	0.77	1.56	72.58
Unknown pennate diatom sp.	0.00	0.84	1.21	0.77	1.45	74.03
Rhizosolenia setigera	0.36	0.54	1.13	0.75	1.36	75.38
Navicula sp. small	0.89	0.00	1.10	0.49	1.32	76.70
Leptocylindricus danicus	0.50	0.15	1.05	0.52	1.25	77.96
Thalassionema nitzschoides	0.36	0.48	1.03	0.66	1.24	79.19
Schizothrix sp.	0.00	0.67	1.02	0.42	1.22	80.41
Ceratulina bergonii	0.00	0.59	0.96	0.42	1.15	81.56
Chaetoceros neogracile	0.00	0.63	0.93	0.62	1.12	82.68
Nitzschia longissima	0.00	0.53	0.81	0.79	0.97	83.65
Navicula sp. large	0.39	0.00	0.75	0.48	0.89	84.54
Eutreptia sp.	0.19	0.31	0.74	0.55	0.88	85.43
Ceratium hircus	0.47	0.14	0.73	0.43	0.88	86.30
Akistrodesmus sp.	0.45	0.05	0.73	0.36	0.87	87.18
Gymnodinium sp.	0.30	0.30	0.73	0.58	0.87	88.05
Thalassiosira pseudonana	0.00	0.51	0.71	0.64	0.84	88.89

Scenedesmus sp.	0.38	0.07	0.65	0.38	0.78	89.67
Gonyaulax sp.	0.48	0.00	0.62	0.33	0.74	90.41

Groups ALATB & LMR18

Average dissimilarity = 82.36

Species	Group ALATB Av.Abund	Group LMR18 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	8.40	4.09	7.16	1.51	8.70	8.70
Unknown Cryptophyte sp.	4.97	0.00	7.11	2.37	8.63	17.33
Unknown diatom sp. D	5.42	0.00	7.10	1.92	8.62	25.95
Thalassiosira sp.	4.50	0.36	5.34	2.27	6.48	32.43
Unknown diatom sp.	3.54	0.00	4.75	2.14	5.77	38.20
Nitzschia pungens	3.10	0.30	4.01	1.47	4.87	43.07
Nitzschia closterium	3.84	1.55	3.75	1.74	4.55	47.63
Chaetoceros sp.	2.89	0.11	3.64	1.41	4.43	52.05
Unknown Dinoflagellate sp.	2.17	0.00	2.70	1.08	3.28	55.33
Skeletonema menezelli	2.25	0.00	2.52	0.45	3.06	58.38
Leptocylindricus minimum	1.84	0.93	2.41	1.13	2.93	61.31
Pyramimonas sp.	1.37	0.15	1.95	0.85	2.36	63.68
Thalassionema nitzschoides	1.37	0.48	1.78	0.96	2.16	65.84
Ceratium hircus	1.27	0.14	1.57	0.63	1.90	67.74
Rhizosolenia setigera	1.05	0.54	1.51	1.00	1.83	69.57
Peridinium sp.	1.19	0.32	1.46	0.78	1.77	71.34
Chaetoceros socialis	0.00	0.99	1.27	0.85	1.54	72.88
Unknown diatom sp. A	0.97	0.00	1.26	0.58	1.53	74.41
Chaetoceros subtilis	0.00	0.83	1.22	0.64	1.48	75.88
Peridinium aciculiferum	0.00	0.79	1.14	0.78	1.38	77.26
Navicula sp. large	0.96	0.00	1.14	0.67	1.38	78.64
Leptocylindricus danicus	0.82	0.15	1.12	0.64	1.36	80.01
Unknown pennate diatom sp.	0.00	0.84	1.08	0.78	1.31	81.32
Schizothrix sp.	0.00	0.67	0.90	0.42	1.09	82.41
Prorocentrum sp.	0.79	0.00	0.84	0.46	1.02	83.43
Ceratulina bergonii	0.00	0.59	0.84	0.42	1.02	84.45
Chaetoceros gracile	0.60	0.00	0.84	0.27	1.02	85.47
Chaetoceros neogracile	0.00	0.63	0.83	0.63	1.00	86.47
Prorocentrum minimum	0.27	0.35	0.82	0.49	0.99	87.46
Prorocentrum micans	0.54	0.25	0.81	0.63	0.98	88.44
Nitzschia longissima	0.00	0.53	0.71	0.80	0.87	89.31
Nitzschia delicatissima	0.52	0.00	0.64	0.27	0.77	90.08

Groups ALASFC & LMR18

Average dissimilarity = 82.94

Species	Group ALASFC Av.Abund	Group LMR18 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	12.72	1.72	15.34	15.34
Unknown diatom sp. D	8.36	0.00	9.40	3.69	11.34	26.68
Unknown Cryptophyte sp.	7.43	0.00	9.10	6.44	10.97	37.65
Unknown diatom sp.	4.70	0.00	5.61	9.63	6.76	44.41
Thalassiosira sp.	4.72	0.36	5.44	3.21	6.56	50.97
Pyramimonas sp.	3.83	0.15	4.61	3.55	5.56	56.53
Nitzschia closterium	4.12	1.55	3.51	1.64	4.23	60.76
Chaetoceros sp.	3.08	0.11	2.99	1.02	3.61	64.37
Skeletonema costatum	5.96	4.09	2.71	1.43	3.27	67.64
Gymnodinium sp.	2.63	0.30	2.60	1.11	3.14	70.78
Nitzschia pungens	2.29	0.30	2.28	1.09	2.75	73.53
Leptocylicus minimum	1.88	0.93	2.06	1.37	2.49	76.02
Peridinium sp.	1.50	0.32	1.53	1.06	1.85	77.86
Prorocentrum sp.	1.50	0.00	1.44	0.98	1.73	79.59
Rhizosolenia setigera	1.26	0.54	1.37	1.19	1.65	81.25
Leptocylicus danicus	1.26	0.15	1.25	1.05	1.50	82.75
Navicula sp. large	1.26	0.00	1.21	0.98	1.46	84.20
Chaetoceros socialis	0.00	0.99	1.16	0.84	1.40	85.60
Chaetoceros subtilis	0.00	0.83	1.10	0.63	1.32	86.92
Peridinium aciculiferum	0.00	0.79	1.03	0.77	1.24	88.16
Unknown pennate diatom sp.	0.00	0.84	0.98	0.77	1.19	89.35
Schizothrix sp.	0.00	0.67	0.82	0.42	0.99	90.33

Groups LMR0 & LMR18

Average dissimilarity = 82.99

Species	Group LMR0 Av.Abund	Group LMR18 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	4.09	8.39	1.35	10.11	10.11
Cyclotella sp. (small)	1.79	0.15	4.29	0.73	5.17	15.28
Cyclotella sp.	1.76	0.17	4.26	0.77	5.13	20.41
Unknown pennate diatom sp.	2.07	0.84	4.18	1.19	5.04	25.45
Nitzschia closterium	0.08	1.55	3.45	1.41	4.16	29.62
Cyclotella sp. (large)	1.45	0.00	3.21	0.59	3.87	33.48
Thalassiosira pseudonana	1.05	0.51	2.82	0.74	3.40	36.89
Chaetoceros subtilis	0.44	0.83	2.66	0.72	3.21	40.09
Scenedesmus quadracauda	1.15	0.09	2.62	1.07	3.16	43.25

Gymnodinium sp.	1.01	0.30	2.46	1.01	2.96	46.21
Schroederia setigera	1.04	0.00	2.34	1.03	2.82	49.03
Eutreptia sp.	0.88	0.31	2.24	1.01	2.70	51.73
Peridinium aciculiferum	0.11	0.79	2.22	0.78	2.68	54.40
Chaetoceros socialis	0.00	0.99	2.18	0.86	2.63	57.03
Leptocylicus minimum	0.00	0.93	2.16	0.83	2.61	59.64
Thalassiosira decipiens	0.91	0.12	2.14	0.56	2.57	62.22
Scenedesmus bijinga	0.90	0.00	2.05	0.82	2.47	64.68
Nitzschia longissima	0.78	0.53	1.91	1.06	2.30	66.99
Ceratulina bergonii	0.00	0.59	1.59	0.42	1.92	68.91
Schizothrix sp.	0.00	0.67	1.59	0.42	1.92	70.83
Akistrodesmus falcatus	0.64	0.00	1.48	0.66	1.78	72.61
Chaetoceros neogracile	0.00	0.63	1.44	0.62	1.74	74.35
Rhizosolenia setigera	0.00	0.54	1.36	0.63	1.63	75.99
Thalassionema nitzschoides	0.00	0.48	1.13	0.56	1.36	77.35
Thalassiosira sp.	0.10	0.36	1.08	0.43	1.30	78.65
Bluegreen filamentous sp.	0.41	0.00	1.05	0.60	1.27	79.92
Prorocentrum minimum	0.16	0.35	1.00	0.65	1.20	81.12
Melosira sp.	0.36	0.00	0.87	0.49	1.05	82.17
Pleurosigma sp.	0.24	0.11	0.84	0.57	1.01	83.18
Peridinium sp.	0.00	0.32	0.79	0.41	0.95	84.13
Chaetoceros compressum	0.00	0.31	0.77	0.40	0.93	85.06
Cyclotella meneghiniana	0.40	0.00	0.77	0.27	0.92	85.99
Crucigenia sp.	0.22	0.00	0.76	0.49	0.92	86.90
Merismopedia punctata	0.29	0.00	0.75	0.38	0.90	87.81
Scenedesmus acutus	0.34	0.00	0.74	0.40	0.89	88.69
Asterionella glacialis	0.00	0.35	0.73	0.42	0.87	89.57
Gonyaulax polygramma	0.00	0.27	0.71	0.41	0.85	90.42

Groups LMR12 & LMR18

Average dissimilarity = 65.20

Species	Group LMR12 Av.Abund	Group LMR18 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Chaetoceros subtilis	2.19	0.83	5.33	1.11	8.17	8.17
Skeletonema costatum	3.94	4.09	4.25	0.93	6.52	14.69
Peridinium aciculiferum	1.12	0.79	3.26	1.07	5.00	19.69
Schizothrix sp.	1.06	0.67	3.26	0.70	5.00	24.68
Nitzschia closterium	0.79	1.55	3.10	1.20	4.75	29.44
Leptocylicus minimum	0.80	0.93	2.72	1.00	4.17	33.61
Chaetoceros socialis	0.70	0.99	2.59	1.02	3.97	37.58
Thalassiosira sp.	0.84	0.36	2.49	0.77	3.81	41.39

Unknown pennate diatom sp.	0.75	0.84	2.41	1.03	3.69	45.09
Thalassiosira pseudonana	0.90	0.51	2.39	0.95	3.66	48.75
Ceratulina bergonii	0.40	0.59	2.18	0.55	3.34	52.09
Nitzschia longissima	0.75	0.53	1.95	1.04	2.99	55.08
Chaetoceros neogracile	0.39	0.63	1.82	0.77	2.80	57.87
Rhizosolenia setigera	0.28	0.54	1.63	0.75	2.50	60.37
Eutreptia sp.	0.58	0.31	1.59	0.87	2.44	62.82
Thalassionema nitzschoides	0.32	0.48	1.52	0.71	2.32	65.14
Nitzschia pungens	0.45	0.30	1.43	0.67	2.20	67.34
Schroederia setigera	0.53	0.00	1.42	0.61	2.17	69.51
Gymnodinium sp.	0.37	0.30	1.34	0.67	2.06	71.57
Cyclotella sp. (small)	0.35	0.15	1.32	0.39	2.02	73.59
Prorocentrum minimum	0.38	0.35	1.28	0.76	1.97	75.56
Cyclotella sp.	0.45	0.17	1.26	0.59	1.94	77.50
Gonyaulax polygramma	0.21	0.27	1.14	0.56	1.75	79.25
Peridinium sp.	0.20	0.32	1.13	0.55	1.74	80.99
Prorocentrum micans	0.24	0.25	0.94	0.55	1.44	82.43
Scrippsiella sp.	0.29	0.19	0.89	0.62	1.36	83.79
Chaetoceros compressum	0.00	0.31	0.79	0.40	1.22	85.01
Euglena sp.	0.14	0.26	0.77	0.45	1.18	86.18
Gonyaulax monilata	0.33	0.00	0.76	0.47	1.16	87.35
Asterionella glacialis	0.00	0.35	0.74	0.42	1.14	88.49
Ceratium hircus	0.22	0.14	0.73	0.43	1.12	89.61
Leptocylindricus danicus	0.18	0.15	0.64	0.46	0.98	90.59

Groups LMR6 & LMR18

Average dissimilarity = 70.96

Species	Group LMR6 Av.Abund	Group LMR18 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Chaetoceros subtilis	2.80	0.83	5.59	1.42	7.87	7.87
Skeletonema costatum	4.06	4.09	4.11	1.15	5.79	13.66
Cyclotella sp. (small)	1.40	0.15	3.40	0.71	4.79	18.45
Peridinium aciculiferum	1.07	0.79	3.08	0.99	4.34	22.79
Nitzschia closterium	0.40	1.55	3.04	1.36	4.28	27.07
Thalassiosira pseudonana	1.15	0.51	2.97	0.84	4.19	31.26
Schroederia setigera	1.25	0.00	2.89	1.42	4.07	35.33
Schizothrix sp.	0.71	0.67	2.81	0.63	3.96	39.29
Gymnodinium sp.	1.06	0.30	2.51	0.91	3.54	42.82
Unknown pennate diatom sp.	0.72	0.84	2.38	1.01	3.35	46.17
Leptocylindricus minimum	0.29	0.93	2.17	0.93	3.06	49.23
Chaetoceros socialis	0.00	0.99	2.08	0.88	2.93	52.16

Cyclotella sp.	0.79	0.17	1.96	0.61	2.76	54.92
Nitzschia longissima	0.91	0.53	1.95	1.11	2.75	57.67
Scenedesmus quadricauda	0.73	0.09	1.75	0.83	2.47	60.14
Ceratulina bergonii	0.14	0.59	1.66	0.49	2.34	62.47
Gonyaulax polygramma	0.53	0.27	1.57	0.77	2.22	64.69
Chaetoceros neogracile	0.17	0.63	1.54	0.71	2.17	66.86
Thalassiosira decipiens	0.59	0.12	1.46	0.79	2.05	68.91
Peridinium sp.	0.41	0.32	1.36	0.68	1.92	70.83
Thalassiosira sp.	0.31	0.36	1.34	0.58	1.89	72.71
Eutreptia sp.	0.42	0.31	1.31	0.75	1.84	74.56
Rhizosolenia setigera	0.06	0.54	1.31	0.70	1.84	76.40
Euglena sp.	0.38	0.26	1.27	0.61	1.79	78.19
Thalassionema nitzschoides	0.09	0.48	1.18	0.62	1.66	79.85
Prorocentrum minimum	0.29	0.35	1.09	0.74	1.53	81.38
Nitzschia pungens	0.21	0.30	1.03	0.59	1.46	82.84
Akistrodesmus falcatus	0.46	0.00	1.01	0.56	1.42	84.26
Scenedesmus bijinga	0.43	0.00	1.00	0.50	1.40	85.67
Chaetoceros compressum	0.00	0.31	0.73	0.41	1.02	86.69
Scrippsiella sp.	0.18	0.19	0.72	0.50	1.01	87.70
Asterionella glacialis	0.00	0.35	0.69	0.42	0.98	88.68
Leptocylindricus danicus	0.20	0.15	0.67	0.46	0.95	89.63
Merismopedia punctata	0.23	0.00	0.64	0.32	0.91	90.53

Groups LMRRUSK & LMR18

Average dissimilarity = 71.57

Species	Group LMRRUSK Av.Abund	Group LMR18 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.90	4.09	7.24	1.09	10.11	10.11
Thalassiosira pseudonana	1.56	0.51	3.34	0.96	4.66	14.78
Prorocentrum minimum	1.59	0.35	3.21	1.00	4.48	19.25
Thalassiosira sp.	1.38	0.36	3.17	0.74	4.43	23.69
Eutreptia sp.	1.43	0.31	2.92	1.00	4.09	27.77
Chaetoceros subtilis	0.83	0.83	2.73	0.85	3.81	31.58
Nitzschia closterium	0.62	1.55	2.63	1.12	3.67	35.25
Leptocylindricus minimum	0.75	0.93	2.50	0.96	3.49	38.74
Unknown pennate diatom sp.	0.81	0.84	2.37	0.97	3.31	42.05
Peridinium aciculiferum	0.84	0.79	2.35	1.00	3.28	45.33
Ceratulina bergonii	0.53	0.59	2.26	0.58	3.16	48.49
Chaetoceros socialis	0.28	0.99	2.13	0.91	2.98	51.47
Schizothrix sp.	0.49	0.67	2.09	0.58	2.92	54.39
Schroederia setigera	0.82	0.00	1.88	0.86	2.62	57.01

Cyclotella sp.	0.83	0.17	1.76	0.59	2.46	59.47
Thalassiosira decipiens	0.84	0.12	1.72	0.82	2.40	61.87
Euglena sp.	0.69	0.26	1.69	0.54	2.36	64.23
Nitzschia longissima	0.74	0.53	1.65	1.02	2.31	66.54
Chaetoceros neogracile	0.31	0.63	1.59	0.75	2.22	68.76
Scrippsiella sp.	0.59	0.19	1.45	0.69	2.03	70.78
Rhizosolenia setigera	0.16	0.54	1.36	0.69	1.90	72.69
Gymnodinium sp.	0.53	0.30	1.32	0.82	1.84	74.53
Thalassionema nitzschoides	0.20	0.48	1.31	0.63	1.83	76.36
Merismopedia punctata	0.54	0.00	1.12	0.45	1.56	77.92
Peridinium sp.	0.31	0.32	1.09	0.62	1.52	79.44
Scenedesmus quadracauda	0.46	0.09	1.04	0.53	1.46	80.90
Akistrodesmus falcatus	0.43	0.00	0.88	0.54	1.22	82.12
Pyramimonas sp.	0.33	0.15	0.86	0.41	1.20	83.32
Gonyaulax polygramma	0.15	0.27	0.84	0.52	1.17	84.49
Nitzschia pungens	0.12	0.30	0.78	0.49	1.10	85.59
Crucigenia sp.	0.38	0.00	0.77	0.47	1.08	86.67
Chaetoceros compressum	0.00	0.31	0.69	0.40	0.97	87.63
Prorocentrum micans	0.13	0.25	0.68	0.50	0.94	88.58
Asterionella glacialis	0.00	0.35	0.66	0.42	0.93	89.50
Cyclotella sp. (small)	0.13	0.15	0.59	0.30	0.82	90.32

Groups LMRTB & LMR18

Average dissimilarity = 72.77

Species	Group LMRTB Av.Abund	Group LMR18 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.07	4.09	7.06	1.20	9.70	9.70
Schizothrix sp.	2.14	0.67	4.55	0.79	6.25	15.95
Thalassionema nitzschoides	1.63	0.48	3.52	0.70	4.83	20.78
Nitzschia closterium	1.37	1.55	3.38	1.25	4.64	25.42
Ceratulina bergonii	1.39	0.59	3.26	0.74	4.48	29.90
Chaetoceros socialis	1.47	0.99	3.00	1.09	4.12	34.02
Leptocylindricus minimum	1.63	0.93	2.82	1.07	3.87	37.89
Unknown pennate diatom sp.	1.09	0.84	2.53	0.95	3.48	41.38
Chaetoceros neogracile	1.24	0.63	2.48	0.92	3.41	44.78
Chaetoceros subtilis	0.59	0.83	2.37	0.67	3.25	48.03
Thalassiosira sp.	0.93	0.36	2.11	0.70	2.90	50.93
Rhizosolenia setigera	0.93	0.54	2.09	0.88	2.88	53.81
Nitzschia pungens	1.11	0.30	2.04	0.79	2.81	56.62
Prorocentrum micans	0.97	0.25	1.97	0.97	2.70	59.32
Peridinium aciculiferum	0.06	0.79	1.95	0.70	2.67	61.99

Chaetoceros compressum	0.87	0.31	1.69	0.75	2.33	64.32
Asterionella glacialis	0.87	0.35	1.65	0.77	2.27	66.59
Chaetoceros sp.	0.56	0.11	1.43	0.37	1.97	68.56
Nitzschia longissima	0.64	0.53	1.43	0.93	1.96	70.52
Thalassiosira decipiens	0.64	0.12	1.42	0.62	1.94	72.46
Ceratium hircus	0.73	0.14	1.40	0.86	1.92	74.38
Peridinium sp.	0.41	0.32	1.37	0.64	1.88	76.26
Prorocentrum minimum	0.72	0.35	1.34	0.97	1.84	78.11
Thalassiosira pseudonana	0.37	0.51	1.28	0.72	1.75	79.86
Gonyaulax polygramma	0.22	0.27	1.02	0.51	1.40	81.26
Amphora sp.	0.41	0.21	0.94	0.55	1.30	82.55
Melosira sp.	0.26	0.00	0.91	0.31	1.25	83.80
Leptocylindricus danicus	0.46	0.15	0.89	0.65	1.22	85.02
Gymnodinium sp.	0.25	0.30	0.88	0.62	1.21	86.23
Eutreptia sp.	0.14	0.31	0.86	0.51	1.19	87.42
Chaetoceros curvisetus	0.43	0.11	0.71	0.40	0.98	88.39
Pleurosigma sp.	0.27	0.11	0.68	0.56	0.94	89.33
Chaetoceros lorenzianum	0.32	0.13	0.66	0.48	0.91	90.24

Groups ALA0 & PR1

Average dissimilarity = 99.17

Species	Group ALA0 Av.Abund	Group PR1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	8.61	1.60	8.68	8.68
Synechocystis aquaticus Sauvageau	0.00	3.49	6.61	1.63	6.67	15.35
Cryptomonas sp.1	0.00	3.26	5.92	3.21	5.97	21.31
Unknown diatom sp.	3.09	0.00	5.47	2.44	5.51	26.83
Unknown diatom sp. D	2.34	0.00	4.05	1.58	4.09	30.91
Scenedesmus quadricauda v. Westii	0.00	2.19	3.89	1.35	3.92	34.84
Thalassiosira sp.	2.01	0.00	3.54	1.93	3.57	38.41
Spermatozoopsis exultans	0.00	1.79	3.22	1.30	3.25	41.66
Gonyaulax palustre	0.00	1.82	3.22	1.53	3.25	44.90
Unknown Dinoflagellate sp.	1.73	0.00	3.14	0.99	3.17	48.07
Prorocentrum micans	1.61	0.00	3.07	0.56	3.10	51.17
Cryptomonas erosa	0.00	1.46	2.50	1.18	2.52	53.69
Scenedesmus sp.	1.47	0.00	2.46	1.14	2.48	56.18
Navicula sp. small	1.23	0.00	2.24	0.85	2.26	58.43
Skeletonema costatum	0.16	1.15	2.17	0.77	2.19	60.62
Chlymentomonas sp.	0.00	1.14	1.96	0.96	1.98	62.60
Cryptomonas ovata	0.00	1.01	1.83	0.87	1.85	64.44
Eutreptiella sp.	0.35	0.80	1.60	0.93	1.62	66.06

Coelosphaerium sp.	0.00	0.90	1.53	0.59	1.55	67.61
Coscinodiscus sp.	0.83	0.00	1.50	0.58	1.51	69.12
Unknown bluegreen sp.	0.83	0.00	1.49	0.89	1.51	70.62
Pyramimonas sp.	0.84	0.00	1.41	0.84	1.42	72.04
Nitzschia pungens	0.80	0.12	1.41	0.83	1.42	73.46
Tetraedron sp.	0.82	0.05	1.32	0.76	1.33	74.79
Navicula sp. large	0.66	0.00	1.27	0.64	1.28	76.07
Akistrodesmus sp.	0.76	0.00	1.21	0.57	1.22	77.29
Cyclotella sp.	0.00	0.73	1.17	0.66	1.18	78.47
Nitzschia palea	0.00	0.70	1.17	0.83	1.18	79.65
Leptocylindricus minimum	0.61	0.00	1.07	0.66	1.08	80.73
Unknown flagellate sp. 1	0.00	0.56	0.99	0.60	1.00	81.73
Chroococcus minutus	0.00	0.56	0.87	0.43	0.88	82.62
Nitzschia sp.	0.38	0.10	0.84	0.46	0.85	83.47
Prorocentrum sp.	0.45	0.00	0.80	0.38	0.81	84.27
Eutreptia sp.	0.37	0.00	0.68	0.35	0.69	84.96
Cyclotella undulata	0.00	0.37	0.67	0.29	0.68	85.64
Prorocentrum redfieldi	0.40	0.00	0.65	0.36	0.66	86.29
Aphanocapsa sp.	0.36	0.08	0.63	0.44	0.63	86.92
Euglena acus	0.00	0.35	0.58	0.34	0.58	87.51
Thalassionema nitzschoides	0.35	0.00	0.58	0.49	0.58	88.09
Leptocylindricus danicus	0.27	0.00	0.55	0.39	0.56	88.65
Scenedesmus abundans v. brevicauda	0.00	0.35	0.54	0.37	0.54	89.19
Merismopedia sp.	0.18	0.20	0.50	0.40	0.50	89.69
Merismopedia glauca	0.00	0.32	0.50	0.36	0.50	90.19

Groups ALA12 & PR1

Average dissimilarity = 97.77

Species	Group ALA12 Av.Abund	Group PR1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.23	0.00	9.63	1.76	9.85	9.85
Unknown Cryptophyte sp.	6.15	0.00	8.42	2.64	8.61	18.46
Skeletonema costatum	4.12	1.15	5.10	1.08	5.22	23.68
Synechocystis aquaticus Sauvageau	0.00	3.49	5.07	1.64	5.19	28.87
Thalassiosira sp.	3.70	0.00	5.01	0.96	5.13	34.00
Unknown diatom sp.	3.44	0.00	4.62	1.78	4.72	38.72
Cryptomonas sp.1	0.00	3.26	4.58	3.15	4.68	43.40
Unknown Dinoflagellate sp.	3.25	0.00	4.42	1.23	4.52	47.92
Scenedesmus quadricauda v. Westii	0.00	2.19	3.03	1.36	3.10	51.02
Eutreptia sp.	1.93	0.00	2.56	0.62	2.62	53.64
Gonyaulax palustre	0.00	1.82	2.51	1.52	2.57	56.20

Spermatozoopsis exultans	0.00	1.79	2.50	1.32	2.55	58.76
Prorocentrum minimum	1.70	0.00	2.39	0.36	2.45	61.21
Pyramimonas sp.	1.87	0.00	2.35	1.03	2.40	63.60
Chaetoceros sp.	1.55	0.00	2.00	0.74	2.05	65.65
Cryptomonas erosa	0.00	1.46	1.96	1.17	2.01	67.66
Skeletonema menezelli	1.67	0.00	1.95	0.39	1.99	69.65
Prorocentrum sp.	1.24	0.00	1.89	0.42	1.93	71.59
Peridinium sp.	1.64	0.00	1.89	0.65	1.93	73.52
Chlymentomonas sp.	0.00	1.14	1.54	0.97	1.57	75.09
Cryptomonas ovata	0.00	1.01	1.42	0.87	1.45	76.54
Coelosphaerium sp.	0.00	0.90	1.20	0.59	1.23	77.77
Eutreptiella sp.	0.17	0.80	1.14	0.89	1.17	78.94
Prorocentrum micans	0.57	0.00	0.97	0.35	0.99	79.93
Cyclotella sp.	0.00	0.73	0.93	0.66	0.95	80.88
Nitzschia closterium	0.77	0.00	0.92	0.59	0.94	81.83
Nitzschia palea	0.00	0.70	0.92	0.84	0.94	82.77
Coscinodiscus sp.	0.63	0.00	0.92	0.49	0.94	83.70
Unknown Katodinium sp.	0.46	0.07	0.89	0.29	0.91	84.61
Nitzschia pungens	0.54	0.12	0.81	0.56	0.83	85.44
Unknown flagellate sp. 1	0.00	0.56	0.77	0.59	0.79	86.23
Ceratium hircus	0.44	0.00	0.70	0.39	0.72	86.95
Leptocylindricus minimum	0.54	0.00	0.70	0.50	0.72	87.67
Chroococcus minutus	0.00	0.56	0.70	0.43	0.72	88.38
Chaetoceros gracile	0.35	0.00	0.54	0.26	0.56	88.94
Cyclotella undulata	0.00	0.37	0.52	0.29	0.53	89.47
Glenodinium sp.	0.39	0.00	0.46	0.27	0.47	89.95
Euglena acus	0.00	0.35	0.46	0.34	0.47	90.41

Groups ALA18 & PR1

Average dissimilarity = 97.85

Species	Group ALA18 Av.Abund	Group PR1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.76	0.00	9.58	2.22	9.79	9.79
Unknown Cryptophyte sp.	5.78	0.00	7.94	2.35	8.12	17.91
Skeletonema costatum	4.35	1.15	5.19	1.02	5.30	23.21
Synechocystis aquaticus Sauvageau	0.00	3.49	5.03	1.52	5.14	28.36
Thalassiosira sp.	3.84	0.00	4.72	1.31	4.83	33.18
Cryptomonas sp.1	0.00	3.26	4.54	2.63	4.64	37.82
Unknown Dinoflagellate sp.	2.82	0.00	4.22	1.12	4.31	42.13
Unknown diatom sp.	3.26	0.00	4.08	1.69	4.17	46.30
Scenedesmus quadricauda v. Westii	0.00	2.19	3.00	1.29	3.06	49.36

Gonyaulax palustre	0.00	1.82	2.48	1.44	2.54	51.90
Spermatozoopsis exultans	0.00	1.79	2.48	1.25	2.53	54.43
Peridinium sp.	1.96	0.00	2.36	0.77	2.42	56.85
Skeletonema menezelli	2.12	0.00	2.35	0.37	2.40	59.25
Prorocentrum minimum	1.51	0.00	2.20	0.45	2.25	61.50
Nitzschia pungens	1.50	0.12	2.02	0.84	2.07	63.57
Nitzschia closterium	1.48	0.00	2.00	0.94	2.04	65.61
Cryptomonas erosa	0.00	1.46	1.94	1.12	1.98	67.60
Chaetoceros sp.	1.79	0.00	1.94	0.71	1.98	69.58
Pyramimonas sp.	1.42	0.00	1.70	0.84	1.74	71.32
Eutreptiella sp.	0.49	0.80	1.58	0.73	1.62	72.94
Chlymentomonas sp.	0.00	1.14	1.52	0.93	1.55	74.49
Cryptomonas ovata	0.00	1.01	1.41	0.84	1.44	75.93
Coelosphaerium sp.	0.00	0.90	1.19	0.58	1.22	77.15
Leptocylicus minimum	1.10	0.00	1.18	0.66	1.20	78.35
Navicula sp. large	0.89	0.00	1.14	0.65	1.17	79.52
Leptocylicus danicus	1.12	0.00	1.13	0.43	1.15	80.68
Unknown diatom sp. A	0.89	0.00	1.05	0.45	1.08	81.75
Chaetoceros gracile	0.89	0.00	1.01	0.36	1.03	82.78
Rhizosolenia setigera	0.91	0.00	0.98	0.66	1.00	83.78
Cyclotella sp.	0.00	0.73	0.92	0.65	0.94	84.72
Unknown Katodinium sp.	0.47	0.07	0.92	0.37	0.94	85.66
Nitzschia palea	0.00	0.70	0.91	0.81	0.93	86.59
Aphanocapsa sp.	0.71	0.08	0.83	0.51	0.85	87.44
Unknown flagellate sp. 1	0.00	0.56	0.76	0.58	0.78	88.22
Ceratium hircus	0.66	0.00	0.71	0.47	0.73	88.95
Chroococcus minutus	0.00	0.56	0.69	0.43	0.71	89.65
Chaetoceros subtilis	0.47	0.16	0.66	0.32	0.68	90.33

Groups ALA6 & PR1

Average dissimilarity = 98.21

Species	Group ALA6 Av.Abund	Group PR1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	6.93	0.00	9.85	2.18	10.02	10.02
Unknown diatom sp. D	5.41	0.00	7.86	1.13	8.00	18.03
Synechocystis aquaticus Sauvageau	0.00	3.49	5.35	1.55	5.44	23.47
Cryptomonas sp.1	0.00	3.26	4.81	2.77	4.90	28.37
Unknown diatom sp.	3.19	0.00	4.45	1.49	4.53	32.91
Thalassiosira sp.	2.99	0.00	4.28	1.03	4.36	37.27
Unknown Dinoflagellate sp.	2.98	0.00	4.07	1.46	4.14	41.41
Scenedesmus quadricauda v. Westii	0.00	2.19	3.18	1.31	3.24	44.64

Skeletonema costatum	1.59	1.15	3.02	0.92	3.07	47.72
Gonyaulax palustre	0.00	1.82	2.63	1.47	2.68	50.40
Spermatozoopsis exultans	0.00	1.79	2.62	1.26	2.67	53.07
Peridinium sp.	1.80	0.00	2.45	0.81	2.49	55.56
Prorocentrum minimum	1.60	0.00	2.43	0.30	2.48	58.04
Eutreptiella sp.	1.38	0.80	2.41	0.67	2.46	60.49
Eutreptia sp.	1.63	0.00	2.36	0.62	2.40	62.90
Pyramimonas sp.	1.63	0.00	2.07	0.92	2.11	65.01
Cryptomonas erosa	0.00	1.46	2.05	1.14	2.09	67.10
Chlymentomonas sp.	0.00	1.14	1.61	0.94	1.64	68.74
Cryptomonas ovata	0.00	1.01	1.49	0.85	1.52	70.26
Scenedesmus sp.	1.08	0.00	1.38	0.66	1.41	71.67
Coelosphaerium sp.	0.00	0.90	1.26	0.58	1.28	72.95
Unknown bluegreen sp.	0.81	0.00	1.19	0.53	1.21	74.16
Glenodinium sp.	0.71	0.00	1.04	0.37	1.05	75.21
Prorocentrum redfieldi	0.74	0.00	1.01	0.26	1.03	76.24
Cyclotella sp.	0.00	0.73	0.97	0.65	0.99	77.23
Nitzschia palea	0.00	0.70	0.96	0.82	0.98	78.21
Unknown Katodinium sp.	0.69	0.07	0.87	0.28	0.88	79.09
Unknown flagellate sp. 1	0.00	0.56	0.81	0.58	0.82	79.92
Navicula sp. small	0.46	0.00	0.81	0.47	0.82	80.74
Prorocentrum sp.	0.69	0.00	0.79	0.34	0.81	81.54
Skeletonema menezelli	0.59	0.00	0.77	0.26	0.79	82.33
Nitzschia closterium	0.51	0.00	0.73	0.47	0.74	83.08
Chroococcus minutus	0.00	0.56	0.73	0.43	0.74	83.82
Leptocylindricus danicus	0.52	0.00	0.70	0.36	0.72	84.54
Pseudopedinella sp.	0.61	0.00	0.69	0.26	0.70	85.24
Amphora sp.	0.40	0.00	0.64	0.36	0.66	85.90
Leptocylindricus minimum	0.50	0.00	0.61	0.47	0.62	86.51
Chaetoceros sp.	0.51	0.00	0.59	0.37	0.60	87.11
Cyclotella undulata	0.00	0.37	0.55	0.29	0.56	87.67
Nitzschia pungens	0.40	0.12	0.54	0.46	0.55	88.23
Tetraedron sp.	0.44	0.05	0.52	0.41	0.53	88.76
Aphanocapsa sp.	0.36	0.08	0.51	0.43	0.52	89.28
Prorocentrum micans	0.46	0.00	0.51	0.26	0.52	89.80
Akistrodesmus sp.	0.46	0.00	0.49	0.36	0.50	90.30

Groups ALASFB & PR1

Average dissimilarity = 97.40

Species	Group ALASFB Av.Abund	Group PR1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
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Unknown diatom sp. D	7.21	0.00	9.22	2.24	9.47	9.47
Unknown Cryptophyte sp.	5.30	0.00	7.57	2.40	7.77	17.24
Skeletonema costatum	6.05	1.15	7.56	1.43	7.76	24.99
Synechocystis aquaticus Sauvageau	0.00	3.49	5.13	1.57	5.26	30.26
Nitzschia closterium	3.80	0.00	5.08	4.02	5.21	35.47
Unknown diatom sp.	3.86	0.00	4.97	2.29	5.10	40.57
Cryptomonas sp.1	0.00	3.26	4.62	2.84	4.74	45.31
Thalassiosira sp.	3.61	0.00	4.61	2.53	4.73	50.04
Unknown Dinoflagellate sp.	2.64	0.00	3.42	1.83	3.51	53.55
Scenedesmus quadricauda v. Westii	0.00	2.19	3.05	1.32	3.13	56.69
Gonyaulax palustre	0.00	1.82	2.53	1.47	2.60	59.29
Spermatozoopsis exultans	0.00	1.79	2.52	1.27	2.59	61.87
Nitzschia pungens	1.73	0.12	2.30	1.00	2.37	64.24
Chaetoceros sp.	1.62	0.00	2.04	0.78	2.10	66.34
Cryptomonas erosa	0.00	1.46	1.98	1.14	2.03	68.37
Pyramimonas sp.	1.42	0.00	1.96	0.75	2.02	70.38
Skeletonema menezelli	1.69	0.00	1.85	0.33	1.90	72.28
Chlymentomonas sp.	0.00	1.14	1.55	0.95	1.59	73.87
Cryptomonas ovata	0.00	1.01	1.43	0.86	1.47	75.34
Coelosphaerium sp.	0.00	0.90	1.21	0.58	1.25	76.59
Leptocylindricus minimum	0.90	0.00	1.20	0.62	1.23	77.82
Peridinium sp.	0.87	0.00	1.19	0.50	1.22	79.04
Eutreptiella sp.	0.00	0.80	1.07	0.84	1.10	80.14
Navicula sp. small	0.89	0.00	1.01	0.49	1.04	81.19
Cyclotella sp.	0.00	0.73	0.94	0.65	0.96	82.15
Nitzschia palea	0.00	0.70	0.93	0.82	0.95	83.10
Chaetoceros subtilis	0.66	0.16	0.89	0.39	0.92	84.01
Leptocylindricus danicus	0.50	0.00	0.81	0.46	0.83	84.85
Unknown flagellate sp. 1	0.00	0.56	0.78	0.59	0.80	85.64
Chroococcus minutus	0.00	0.56	0.70	0.43	0.72	86.37
Navicula sp. large	0.39	0.00	0.65	0.48	0.67	87.04
Akistrodesmus sp.	0.45	0.00	0.61	0.33	0.62	87.66
Gonyaulax sp.	0.48	0.00	0.56	0.33	0.58	88.24
Cyclotella undulata	0.00	0.37	0.53	0.29	0.54	88.78
Ceratium hircus	0.47	0.00	0.51	0.33	0.52	89.31
Scenedesmus sp.	0.38	0.00	0.51	0.33	0.52	89.83
Prorocentrum sp.	0.27	0.00	0.50	0.33	0.52	90.34

Groups ALATB & PR1

Average dissimilarity = 97.00

Group ALATB Group PR1

Species	Av.Abund	Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	8.40	1.15	9.23	1.89	9.52	9.52
Unknown diatom sp. D	5.42	0.00	6.45	1.96	6.65	16.17
Unknown Cryptophyte sp.	4.97	0.00	6.41	2.55	6.60	22.77
Thalassiosira sp.	4.50	0.00	5.22	2.64	5.39	28.16
Nitzschia closterium	3.84	0.00	4.55	1.98	4.70	32.86
Synechocystis aquaticus Sauvageau	0.00	3.49	4.54	1.60	4.68	37.54
Unknown diatom sp.	3.54	0.00	4.31	2.17	4.44	41.98
Cryptomonas sp.1	0.00	3.26	4.11	2.93	4.24	46.22
Nitzschia pungens	3.10	0.12	3.75	1.49	3.86	50.08
Chaetoceros sp.	2.89	0.00	3.38	1.43	3.48	53.56
Scenedesmus quadricauda v. Westii	0.00	2.19	2.72	1.34	2.81	56.37
Unknown Dinoflagellate sp.	2.17	0.00	2.46	1.07	2.53	58.90
Skeletonema menezelli	2.25	0.00	2.32	0.46	2.40	61.30
Gonyaulax palustre	0.00	1.82	2.26	1.49	2.33	63.62
Spermatozoopsis exultans	0.00	1.79	2.24	1.30	2.31	65.93
Leptocylicus minimum	1.84	0.00	1.99	0.84	2.05	67.98
Cryptomonas erosa	0.00	1.46	1.77	1.15	1.82	69.81
Pyramimonas sp.	1.37	0.00	1.73	0.85	1.79	71.59
Thalassionema nitzschoides	1.37	0.00	1.45	0.78	1.49	73.09
Chlymentomonas sp.	0.00	1.14	1.38	0.96	1.43	74.52
Ceratium hircus	1.27	0.00	1.35	0.57	1.39	75.91
Cryptomonas ovata	0.00	1.01	1.28	0.86	1.32	77.22
Rhizosolenia setigera	1.05	0.00	1.17	0.76	1.21	78.43
Peridinium sp.	1.19	0.00	1.16	0.66	1.19	79.62
Unknown diatom sp. A	0.97	0.00	1.14	0.58	1.17	80.79
Eutreptiella sp.	0.20	0.80	1.09	0.87	1.12	81.91
Coelosphaerium sp.	0.00	0.90	1.09	0.59	1.12	83.03
Navicula sp. large	0.96	0.00	1.04	0.68	1.07	84.11
Leptocylicus danicus	0.82	0.00	0.94	0.57	0.97	85.08
Cyclotella sp.	0.00	0.73	0.84	0.66	0.87	85.95
Nitzschia palea	0.00	0.70	0.83	0.83	0.85	86.80
Prorocentrum sp.	0.79	0.00	0.78	0.47	0.81	87.61
Chaetoceros gracile	0.60	0.00	0.76	0.27	0.78	88.39
Unknown flagellate sp. 1	0.00	0.56	0.69	0.59	0.71	89.11
Chroococcus minutus	0.00	0.56	0.64	0.43	0.65	89.76
Nitzschia delicatissima	0.52	0.00	0.59	0.27	0.60	90.37

Groups ALASFC & PR1

Average dissimilarity = 97.22

Group ALASFC Group PR1

Species	Av.Abund	Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	11.52	1.78	11.85	11.85
Unknown diatom sp. D	8.36	0.00	8.66	3.50	8.91	20.76
Unknown Cryptophyte sp.	7.43	0.00	8.32	7.57	8.56	29.32
Thalassiosira sp.	4.72	0.00	5.39	4.92	5.54	34.86
Skeletonema costatum	5.96	1.15	5.38	2.81	5.53	40.39
Unknown diatom sp.	4.70	0.00	5.14	10.49	5.28	45.67
Nitzschia closterium	4.12	0.00	4.85	3.07	4.99	50.66
Pyramimonas sp.	3.83	0.00	4.35	5.36	4.48	55.14
Synechocystis aquaticus Sauvageau	0.00	3.49	4.14	1.59	4.26	59.40
Cryptomonas sp.1	0.00	3.26	3.76	2.93	3.87	63.27
Chaetoceros sp.	3.08	0.00	2.77	0.98	2.85	66.12
Scenedesmus quadricauda v. Westii	0.00	2.19	2.49	1.33	2.56	68.68
Gymnodinium sp.	2.63	0.00	2.36	0.98	2.43	71.11
Nitzschia pungens	2.29	0.12	2.08	1.03	2.14	73.25
Gonyaulax palustre	0.00	1.82	2.07	1.48	2.13	75.37
Spermatozoopsis exultans	0.00	1.79	2.05	1.30	2.11	77.48
Leptocylicus minimum	1.88	0.00	1.69	0.98	1.74	79.22
Cryptomonas erosa	0.00	1.46	1.62	1.14	1.67	80.89
Prorocentrum sp.	1.50	0.00	1.34	0.98	1.38	82.27
Peridinium sp.	1.50	0.00	1.34	0.98	1.38	83.66
Chlymentomonas sp.	0.00	1.14	1.27	0.95	1.31	84.96
Cryptomonas ovata	0.00	1.01	1.17	0.86	1.20	86.16
Rhizosolenia setigera	1.26	0.00	1.13	0.98	1.16	87.32
Navicula sp. large	1.26	0.00	1.13	0.98	1.16	88.49
Leptocylicus danicus	1.26	0.00	1.13	0.98	1.16	89.65
Coelosphaerium sp.	0.00	0.90	1.00	0.58	1.03	90.67

Groups LMR0 & PR1

Average dissimilarity = 96.08

Species	Group LMR0 Av.Abund	Group PR1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	3.49	7.90	1.52	8.22	8.22
Cryptomonas sp.1	0.00	3.26	7.01	2.77	7.29	15.51
Skeletonema costatum	3.27	1.15	5.87	1.04	6.11	21.62
Scenedesmus quadricauda v. Westii	0.00	2.19	4.58	1.29	4.77	26.39
Unknown pennate diatom sp.	2.07	0.00	4.30	1.73	4.48	30.87
Cyclotella sp.	1.76	0.73	3.84	0.90	3.99	34.86
Spermatozoopsis exultans	0.00	1.79	3.81	1.22	3.97	38.83
Gonyaulax palustre	0.00	1.82	3.78	1.48	3.94	42.77
Cyclotella sp. (small)	1.79	0.00	3.52	0.70	3.67	46.43

Cryptomonas erosa	0.00	1.46	2.92	1.15	3.04	49.48
Cyclotella sp. (large)	1.45	0.00	2.75	0.59	2.86	52.34
Chlymentomonas sp.	0.00	1.14	2.30	0.94	2.39	54.73
Scenedesmus quadricauda	1.15	0.00	2.23	1.08	2.32	57.05
Cryptomonas ovata	0.00	1.01	2.16	0.85	2.25	59.30
Gymnodinium sp.	1.01	0.00	2.06	0.99	2.14	61.44
Schroederia setigera	1.04	0.00	1.99	1.05	2.07	63.52
Thalassiosira pseudonana	1.05	0.00	1.97	0.55	2.05	65.56
Eutreptia sp.	0.88	0.00	1.83	0.96	1.90	67.47
Scenedesmus bijinga	0.90	0.17	1.80	0.86	1.87	69.34
Coelosphaerium sp.	0.00	0.90	1.79	0.58	1.87	71.20
Thalassiosira decipiens	0.91	0.00	1.66	0.49	1.73	72.93
Eutreptiella sp.	0.00	0.80	1.58	0.84	1.64	74.57
Nitzschia longissima	0.78	0.00	1.47	0.94	1.53	76.11
Nitzschia palea	0.00	0.70	1.36	0.81	1.42	77.53
Akistrodesmus falcatus	0.64	0.00	1.25	0.68	1.30	78.83
Unknown flagellate sp. 1	0.00	0.56	1.17	0.58	1.22	80.05
Chaetoceros subtilis	0.44	0.16	1.06	0.53	1.10	81.15
Chroococcus minutus	0.00	0.56	1.01	0.43	1.05	82.19
Bluegreen filamentous sp.	0.41	0.00	0.88	0.61	0.91	83.11
Cyclotella undulata	0.00	0.37	0.79	0.29	0.82	83.93
Melosira sp.	0.36	0.00	0.73	0.49	0.76	84.69
Euglena acus	0.00	0.35	0.68	0.34	0.70	85.39
Cyclotella meneghiniana	0.40	0.00	0.67	0.27	0.70	86.09
Scenedesmus acutus	0.34	0.00	0.63	0.40	0.66	86.75
Euglena sp.	0.09	0.21	0.63	0.26	0.66	87.41
Merismopedia punctata	0.29	0.00	0.62	0.39	0.65	88.06
Scenedesmus abundans v. brevicauda	0.00	0.35	0.61	0.37	0.64	88.69
Crucigenia sp.	0.22	0.00	0.60	0.50	0.62	89.31
Merismopedia glauca	0.00	0.32	0.57	0.36	0.59	89.91
Nitzschia fruticosa	0.00	0.30	0.57	0.35	0.59	90.49

Groups LMR12 & PR1

Average dissimilarity = 94.44

Species	Group LMR12 Av. Abund	Group PR1 Av. Abund	Av. Diss	Diss/SD	Contrib%	Cum. %
Synechocystis aquaticus Sauvageau	0.00	3.49	8.11	1.55	8.59	8.59
Cryptomonas sp.1	0.00	3.26	7.19	2.90	7.61	16.20
Skeletonema costatum	3.94	1.15	6.34	1.73	6.72	22.92
Chaetoceros subtilis	2.19	0.16	5.10	1.23	5.40	28.31
Scenedesmus quadricauda v. Westii	0.00	2.19	4.70	1.30	4.98	33.29

Spermatozoopsis exultans	0.00	1.79	3.91	1.23	4.14	37.44
Gonyaulax palustre	0.00	1.82	3.88	1.50	4.11	41.54
Cryptomonas erosa	0.00	1.46	3.00	1.16	3.17	44.72
Peridinium aciculiferum	1.12	0.00	2.58	0.85	2.73	47.44
Chlymentomonas sp.	0.00	1.14	2.36	0.94	2.50	49.94
Cryptomonas ovata	0.00	1.01	2.22	0.85	2.35	52.29
Schizothrix sp.	1.06	0.00	1.90	0.56	2.01	54.30
Coelosphaerium sp.	0.00	0.90	1.84	0.58	1.95	56.25
Thalassiosira pseudonana	0.90	0.00	1.82	0.83	1.93	58.18
Cyclotella sp.	0.45	0.73	1.79	0.81	1.89	60.07
Thalassiosira sp.	0.84	0.00	1.75	0.71	1.85	61.93
Eutreptiella sp.	0.00	0.80	1.62	0.84	1.72	63.64
Nitzschia closterium	0.79	0.00	1.55	0.88	1.65	65.29
Nitzschia longissima	0.75	0.00	1.51	0.93	1.60	66.88
Unknown pennate diatom sp.	0.75	0.00	1.49	0.86	1.57	68.46
Leptocylindricus minimum	0.80	0.00	1.42	0.69	1.50	69.96
Nitzschia palea	0.00	0.70	1.39	0.82	1.48	71.43
Chaetoceros socialis	0.70	0.00	1.38	0.76	1.46	72.89
Unknown flagellate sp. 1	0.00	0.56	1.20	0.59	1.27	74.16
Schroederia setigera	0.53	0.00	1.17	0.62	1.24	75.40
Eutreptia sp.	0.58	0.00	1.12	0.76	1.19	76.59
Chroococcus minutus	0.00	0.56	1.03	0.43	1.09	77.68
Nitzschia pungens	0.45	0.12	0.97	0.62	1.03	78.71
Cyclotella undulata	0.00	0.37	0.81	0.29	0.86	79.57
Cyclotella sp. (small)	0.35	0.00	0.81	0.32	0.86	80.43
Gymnodinium sp.	0.37	0.00	0.79	0.55	0.83	81.26
Ceratulina bergonii	0.40	0.00	0.78	0.44	0.82	82.08
Euglena sp.	0.14	0.21	0.73	0.29	0.77	82.85
Prorocentrum minimum	0.38	0.00	0.71	0.55	0.75	83.61
Euglena acus	0.00	0.35	0.69	0.34	0.73	84.34
Chaetoceros neogracile	0.39	0.00	0.69	0.55	0.73	85.07
Gonyaulax monilata	0.33	0.00	0.65	0.47	0.68	85.76
Scenedesmus abundans v. brevicauda	0.00	0.35	0.63	0.37	0.66	86.42
Merismopedia glauca	0.00	0.32	0.58	0.36	0.62	87.04
Nitzschia fruticosa	0.00	0.30	0.58	0.35	0.61	87.65
Thalassionema nitzschoides	0.32	0.00	0.56	0.47	0.60	88.25
Scrippsiella sp.	0.29	0.00	0.55	0.47	0.58	88.83
Rhizosolenia setigera	0.28	0.00	0.53	0.48	0.56	89.39
Stephanodiscus sp.	0.00	0.26	0.53	0.34	0.56	89.95
Gonyaulax polygramma	0.21	0.00	0.50	0.40	0.53	90.48

Groups LMR6 & PR1

Average dissimilarity = 94.43

Species	Group LMR6 Av.Abund	Group PR1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	3.49	7.49	1.65	7.94	7.94
Cryptomonas sp.1	0.00	3.26	6.67	3.37	7.07	15.00
Skeletonema costatum	4.06	1.15	6.06	1.73	6.42	21.42
Chaetoceros subtilis	2.80	0.16	5.52	1.56	5.85	27.27
Scenedesmus quadricauda v. Westii	0.00	2.19	4.38	1.36	4.63	31.90
Spermatozoopsis exultans	0.00	1.79	3.63	1.30	3.85	35.75
Gonyaulax palustre	0.00	1.82	3.62	1.56	3.83	39.58
Cryptomonas erosa	0.00	1.46	2.80	1.19	2.97	42.55
Cyclotella sp. (small)	1.40	0.00	2.78	0.68	2.94	45.49
Schroederia setigera	1.25	0.00	2.46	1.44	2.60	48.09
Thalassiosira pseudonana	1.15	0.00	2.30	0.70	2.44	50.53
Cyclotella sp.	0.79	0.73	2.24	0.83	2.37	52.90
Peridinium aciculiferum	1.07	0.00	2.23	0.72	2.36	55.26
Chlymentomonas sp.	0.00	1.14	2.20	0.97	2.33	57.59
Cryptomonas ovata	0.00	1.01	2.06	0.88	2.18	59.78
Gymnodinium sp.	1.06	0.00	2.05	0.83	2.18	61.95
Nitzschia longissima	0.91	0.00	1.89	1.22	2.00	63.96
Coelosphaerium sp.	0.00	0.90	1.72	0.59	1.82	65.78
Eutreptiella sp.	0.00	0.80	1.52	0.86	1.61	67.38
Schizothrix sp.	0.71	0.00	1.51	0.47	1.60	68.99
Unknown pennate diatom sp.	0.72	0.00	1.46	0.73	1.55	70.53
Scenedesmus quadracauda	0.73	0.00	1.44	0.81	1.53	72.06
Nitzschia palea	0.00	0.70	1.31	0.84	1.38	73.45
Euglena sp.	0.38	0.21	1.17	0.47	1.24	74.68
Thalassiosira decipiens	0.59	0.00	1.16	0.73	1.23	75.91
Unknown flagellate sp. 1	0.00	0.56	1.12	0.60	1.18	77.09
Gonyaulax polygramma	0.53	0.00	1.09	0.68	1.16	78.25
Scenedesmus bijinga	0.43	0.17	1.00	0.57	1.06	79.30
Chroococcus minutus	0.00	0.56	0.97	0.44	1.03	80.33
Akistrodesmus falcatus	0.46	0.00	0.87	0.56	0.92	81.25
Eutreptia sp.	0.42	0.00	0.82	0.58	0.87	82.12
Nitzschia closterium	0.40	0.00	0.80	0.59	0.84	82.97
Cyclotella undulata	0.00	0.37	0.76	0.30	0.80	83.77
Peridinium sp.	0.41	0.00	0.75	0.55	0.79	84.56
Euglena acus	0.00	0.35	0.65	0.34	0.69	85.24
Scenedesmus abundans v. brevicauda	0.00	0.35	0.59	0.37	0.63	85.87
Nitzschia pungens	0.21	0.12	0.58	0.51	0.62	86.49
Thalassiosira sp.	0.31	0.00	0.57	0.48	0.60	87.09
Merismopedia glauca	0.00	0.32	0.55	0.37	0.58	87.67

Nitzschia fruticosa	0.00	0.30	0.54	0.36	0.58	88.25
Prorocentrum minimum	0.29	0.00	0.54	0.50	0.57	88.82
Merismopedia punctata	0.23	0.00	0.53	0.33	0.56	89.38
Leptocylindricus minimum	0.29	0.00	0.51	0.40	0.54	89.92
Stephanodiscus sp.	0.00	0.26	0.50	0.34	0.52	90.44

Groups LMRRUSK & PR1

Average dissimilarity = 95.19

Species	Group LMRRUSK Av.Abund	Group PR1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.90	1.15	9.37	1.45	9.85	9.85
Synechocystis aquaticus Sauvageau	0.00	3.49	7.15	1.52	7.51	17.36
Cryptomonas sp.1	0.00	3.26	6.37	2.77	6.69	24.05
Scenedesmus quadricauda v. Westii	0.00	2.19	4.18	1.29	4.39	28.44
Spermatozoopsis exultans	0.00	1.79	3.47	1.23	3.64	32.08
Gonyaulax palustre	0.00	1.82	3.45	1.47	3.63	35.71
Prorocentrum minimum	1.59	0.00	2.82	0.97	2.97	38.68
Thalassiosira pseudonana	1.56	0.00	2.74	0.82	2.88	41.55
Cryptomonas erosa	0.00	1.46	2.68	1.15	2.81	44.36
Eutreptia sp.	1.43	0.00	2.56	0.99	2.69	47.05
Thalassiosira sp.	1.38	0.00	2.47	0.65	2.59	49.65
Cyclotella sp.	0.83	0.73	2.12	0.80	2.23	51.88
Chlymentomonas sp.	0.00	1.14	2.10	0.94	2.21	54.09
Cryptomonas ovata	0.00	1.01	1.97	0.85	2.07	56.15
Chaetoceros subtilis	0.83	0.16	1.68	0.73	1.77	57.92
Coelosphaerium sp.	0.00	0.90	1.64	0.58	1.72	59.65
Schroederia setigera	0.82	0.00	1.58	0.88	1.66	61.31
Euglena sp.	0.69	0.21	1.53	0.48	1.61	62.92
Peridinium aciculiferum	0.84	0.00	1.53	0.82	1.60	64.52
Eutreptiella sp.	0.00	0.80	1.45	0.84	1.52	66.04
Unknown pennate diatom sp.	0.81	0.00	1.44	0.69	1.52	67.56
Thalassiosira decipiens	0.84	0.00	1.43	0.78	1.50	69.06
Nitzschia longissima	0.74	0.00	1.35	0.97	1.42	70.48
Nitzschia palea	0.00	0.70	1.25	0.82	1.31	71.79
Leptocylindricus minimum	0.75	0.00	1.23	0.57	1.29	73.08
Scrippsiella sp.	0.59	0.00	1.14	0.65	1.20	74.28
Nitzschia closterium	0.62	0.00	1.08	0.90	1.13	75.41
Unknown flagellate sp. 1	0.00	0.56	1.07	0.58	1.12	76.53
Ceratulina bergonii	0.53	0.00	1.05	0.42	1.10	77.63
Merismopedia punctata	0.54	0.00	0.97	0.45	1.01	78.65
Chroococcus minutus	0.00	0.56	0.93	0.43	0.97	79.62

Gymnodinium sp.	0.53	0.00	0.90	0.70	0.94	80.56
Schizothrix sp.	0.49	0.00	0.83	0.43	0.87	81.44
Scenedesmus quadricauda	0.46	0.00	0.78	0.48	0.82	82.26
Akistrodesmus falcatus	0.43	0.00	0.76	0.54	0.80	83.06
Cyclotella undulata	0.00	0.37	0.72	0.29	0.76	83.81
Crucigenia sp.	0.38	0.00	0.67	0.47	0.70	84.52
Scenedesmus bijinga	0.28	0.17	0.64	0.52	0.67	85.18
Euglena acus	0.00	0.35	0.62	0.34	0.65	85.83
Chaetoceros neogracile	0.31	0.00	0.61	0.52	0.64	86.48
Pyramimonas sp.	0.33	0.00	0.58	0.35	0.61	87.08
Scenedesmus abundans v. brevicauda	0.00	0.35	0.57	0.37	0.60	87.68
Merismopedia glauca	0.00	0.32	0.53	0.36	0.55	88.23
Nitzschia fruticosa	0.00	0.30	0.52	0.35	0.55	88.77
Nostoc sp.(trichomes)	0.27	0.00	0.50	0.42	0.53	89.30
Peridinium sp.	0.31	0.00	0.49	0.55	0.51	89.81
Stephanodiscus sp.	0.00	0.26	0.47	0.34	0.50	90.31

Groups LMRTB & PR1

Average dissimilarity = 96.78

Species	Group LMRTB Av.Abund	Group PR1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.07	1.15	7.00	1.48	7.24	7.24
Synechocystis aquaticus Sauvageau	0.00	3.49	7.00	1.36	7.23	14.47
Cryptomonas sp.1	0.00	3.26	6.22	2.20	6.43	20.90
Scenedesmus quadricauda v. Westii	0.00	2.19	4.08	1.19	4.21	25.11
Schizothrix sp.	2.14	0.00	3.44	0.68	3.56	28.67
Spermatozoopsis exultans	0.00	1.79	3.39	1.12	3.50	32.17
Gonyaulax palustre	0.00	1.82	3.37	1.35	3.48	35.65
Thalassionema nitzschoides	1.63	0.00	3.01	0.71	3.11	38.76
Cryptomonas erosa	0.00	1.46	2.61	1.08	2.69	41.45
Ceratulina bergonii	1.39	0.00	2.49	0.79	2.57	44.02
Leptocylindricus minimum	1.63	0.00	2.32	1.11	2.40	46.42
Chlymentomonas sp.	0.00	1.14	2.05	0.89	2.12	48.54
Chaetoceros socialis	1.47	0.00	2.04	0.81	2.11	50.65
Nitzschia closterium	1.37	0.00	2.00	0.80	2.07	52.71
Chaetoceros neogracile	1.24	0.00	1.94	0.87	2.00	54.72
Cryptomonas ovata	0.00	1.01	1.92	0.80	1.99	56.70
Unknown pennate diatom sp.	1.09	0.00	1.88	0.86	1.94	58.64
Nitzschia pungens	1.11	0.12	1.65	0.75	1.70	60.35
Prorocentrum micans	0.97	0.00	1.64	0.98	1.70	62.04
Coelosphaerium sp.	0.00	0.90	1.60	0.56	1.65	63.69

Rhizosolenia setigera	0.93	0.00	1.53	0.80	1.58	65.27
Thalassiosira sp.	0.93	0.00	1.48	0.65	1.53	66.80
Eutreptiella sp.	0.00	0.80	1.41	0.80	1.46	68.26
Cyclotella sp.	0.00	0.73	1.22	0.63	1.26	69.52
Nitzschia palea	0.00	0.70	1.22	0.78	1.26	70.77
Chaetoceros compressum	0.87	0.00	1.17	0.67	1.21	71.98
Asterionella glacialis	0.87	0.00	1.16	0.67	1.20	73.19
Ceratium hircus	0.73	0.00	1.15	0.85	1.19	74.37
Thalassiosira decipiens	0.64	0.00	1.10	0.61	1.14	75.51
Chaetoceros sp.	0.56	0.00	1.06	0.34	1.10	76.61
Unknown flagellate sp. 1	0.00	0.56	1.04	0.56	1.08	77.68
Prorocentrum minimum	0.72	0.00	1.01	0.94	1.05	78.73
Chaetoceros subtilis	0.59	0.16	0.92	0.54	0.95	79.68
Chroococcus minutus	0.00	0.56	0.90	0.42	0.93	80.62
Nitzschia longissima	0.64	0.00	0.89	0.86	0.92	81.53
Peridinium sp.	0.41	0.00	0.80	0.54	0.82	82.36
Melosira sp.	0.26	0.00	0.71	0.33	0.73	83.09
Cyclotella undulata	0.00	0.37	0.70	0.28	0.73	83.81
Leptocylindricus danicus	0.46	0.00	0.65	0.59	0.67	84.48
Amphora sp.	0.41	0.00	0.62	0.44	0.64	85.13
Euglena acus	0.00	0.35	0.60	0.33	0.62	85.75
Scenedesmus abundans v. brevicauda	0.00	0.35	0.55	0.36	0.57	86.32
Merismopedia glauca	0.00	0.32	0.51	0.35	0.53	86.85
Nitzschia fruticosa	0.00	0.30	0.51	0.34	0.52	87.37
Chaetoceros curvisetus	0.43	0.00	0.49	0.33	0.51	87.88
Thalassiosira pseudonana	0.37	0.00	0.48	0.39	0.50	88.38
Stephanodiscus sp.	0.00	0.26	0.46	0.33	0.48	88.85
Gonyaulax polygramma	0.22	0.00	0.46	0.35	0.47	89.33
Pleurosigma sp.	0.27	0.00	0.46	0.47	0.47	89.80
Chaetoceros lorenzianum	0.32	0.00	0.45	0.43	0.46	90.26

Groups LMR18 & PR1

Average dissimilarity = 94.82

Species	Group LMR18 Av.Abund	Group PR1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	3.49	8.42	1.55	8.88	8.88
Cryptomonas sp.1	0.00	3.26	7.46	2.93	7.86	16.75
Skeletonema costatum	4.09	1.15	6.90	1.63	7.28	24.03
Scenedesmus quadricauda v. Westii	0.00	2.19	4.87	1.31	5.14	29.16
Spermatozoopsis exultans	0.00	1.79	4.06	1.23	4.28	33.44
Gonyaulax palustre	0.00	1.82	4.02	1.51	4.24	37.68

Nitzschia closterium	1.55	0.00	3.24	1.51	3.42	41.10
Cryptomonas erosa	0.00	1.46	3.10	1.16	3.27	44.37
Chlymentomonas sp.	0.00	1.14	2.44	0.94	2.57	46.94
Cryptomonas ovata	0.00	1.01	2.30	0.86	2.42	49.36
Chaetoceros subtilis	0.83	0.16	2.21	0.67	2.33	51.69
Chaetoceros socialis	0.99	0.00	1.97	0.88	2.08	53.77
Leptocylindricus minimum	0.93	0.00	1.93	0.87	2.04	55.81
Peridinium aciculiferum	0.79	0.00	1.91	0.79	2.01	57.82
Coelosphaerium sp.	0.00	0.90	1.90	0.58	2.01	59.83
Eutreptiella sp.	0.00	0.80	1.67	0.84	1.77	61.59
Unknown pennate diatom sp.	0.84	0.00	1.67	0.80	1.76	63.35
Cyclotella sp.	0.17	0.73	1.60	0.74	1.69	65.05
Nitzschia palea	0.00	0.70	1.44	0.82	1.52	66.57
Schizothrix sp.	0.67	0.00	1.43	0.43	1.51	68.08
Ceratulina bergonii	0.59	0.00	1.39	0.43	1.47	69.55
Chaetoceros neogracile	0.63	0.00	1.30	0.63	1.37	70.92
Unknown flagellate sp. 1	0.00	0.56	1.24	0.59	1.31	72.23
Rhizosolenia setigera	0.54	0.00	1.20	0.66	1.26	73.49
Nitzschia longissima	0.53	0.00	1.14	0.81	1.20	74.69
Chroococcus minutus	0.00	0.56	1.06	0.43	1.12	75.81
Thalassionema nitzschoides	0.48	0.00	1.01	0.57	1.07	76.88
Thalassiosira pseudonana	0.51	0.00	0.96	0.65	1.01	77.89
Euglena sp.	0.26	0.21	0.94	0.35	0.99	78.88
Cyclotella undulata	0.00	0.37	0.84	0.29	0.89	79.77
Thalassiosira sp.	0.36	0.00	0.83	0.39	0.87	80.64
Nitzschia pungens	0.30	0.12	0.76	0.50	0.81	81.45
Euglena acus	0.00	0.35	0.72	0.34	0.76	82.20
Peridinium sp.	0.32	0.00	0.70	0.41	0.74	82.95
Chaetoceros compressum	0.31	0.00	0.69	0.41	0.72	83.67
Asterionella glacialis	0.35	0.00	0.66	0.42	0.70	84.37
Prorocentrum minimum	0.35	0.00	0.66	0.55	0.70	85.07
Scenedesmus abundans v. brevicauda	0.00	0.35	0.64	0.37	0.68	85.75
Gonyaulax polygramma	0.27	0.00	0.63	0.41	0.66	86.41
Eutreptia sp.	0.31	0.00	0.62	0.49	0.65	87.06
Gymnodinium sp.	0.30	0.00	0.62	0.48	0.65	87.71
Merismopedia glauca	0.00	0.32	0.60	0.36	0.63	88.34
Nitzschia fruticosa	0.00	0.30	0.60	0.35	0.63	88.97
Stephanodiscus sp.	0.00	0.26	0.55	0.34	0.58	89.55
Prorocentrum micans	0.25	0.00	0.49	0.39	0.52	90.07

Groups ALA0 & PR2

Average dissimilarity = 99.00

Species	Group ALA0 Av.Abund	Group PR2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	9.14	1.61	9.23	9.23
Skeletonema costatum	0.16	3.82	7.20	1.96	7.27	16.50
Cryptomonas sp.1	0.00	3.26	6.26	2.50	6.33	22.83
Unknown diatom sp.	3.09	0.00	5.80	2.46	5.86	28.69
Synechocystis aquaticus Sauvageau	0.00	2.70	5.12	1.49	5.17	33.86
Unknown diatom sp. D	2.34	0.00	4.29	1.58	4.34	38.19
Thalassiosira sp.	2.01	0.00	3.76	1.94	3.80	41.99
Unknown Dinoflagellate sp.	1.73	0.00	3.34	0.99	3.37	45.37
Prorocentrum micans	1.61	0.05	3.30	0.57	3.34	48.70
Scenedesmus sp.	1.47	0.00	2.61	1.15	2.63	51.33
Navicula sp. small	1.23	0.00	2.38	0.85	2.40	53.73
Cryptomonas ovata	0.00	1.21	2.20	1.14	2.23	55.96
Gymnodinium splendens	0.00	1.01	2.01	0.62	2.04	58.00
Eutreptiella sp.	0.35	0.86	1.84	0.82	1.86	59.86
Spermatozoopsis exultans	0.00	1.02	1.82	1.01	1.84	61.70
Chlymentomonas sp.	0.00	0.90	1.64	0.84	1.66	63.35
Gonyaulax palustre	0.00	0.89	1.64	0.87	1.66	65.01
Coscinodiscus sp.	0.83	0.00	1.59	0.58	1.60	66.61
Unknown bluegreen sp.	0.83	0.00	1.59	0.89	1.60	68.22
Pyramimonas sp.	0.84	0.00	1.49	0.84	1.50	69.72
Nitzschia pungens	0.80	0.00	1.45	0.79	1.46	71.18
Tetraedron sp.	0.82	0.00	1.37	0.75	1.38	72.57
Navicula sp. large	0.66	0.00	1.35	0.64	1.37	73.93
Chroococcus minutus	0.00	0.72	1.29	0.43	1.30	75.23
Akistrodesmus sp.	0.76	0.00	1.27	0.57	1.28	76.52
Leptocylicus minimum	0.61	0.00	1.14	0.66	1.15	77.67
Scenedesmus quadricauda v. Westii	0.00	0.63	1.11	0.68	1.12	78.79
Nitzschia sp.	0.38	0.20	1.07	0.50	1.08	79.86
Gymnodinium simplex	0.00	0.52	1.00	0.62	1.01	80.88
Cyclotella sp.	0.00	0.54	1.00	0.55	1.01	81.88
Cryptomonas erosa	0.00	0.54	0.94	0.67	0.95	82.83
Peridinium cerasus	0.00	0.53	0.93	0.54	0.94	83.78
Prorocentrum sp.	0.45	0.00	0.85	0.38	0.86	84.63
Eutreptia sp.	0.37	0.00	0.72	0.35	0.73	85.36
Prorocentrum redfieldi	0.40	0.00	0.69	0.36	0.69	86.06
Calycomonas ovalis	0.00	0.37	0.68	0.38	0.69	86.74
Ceratium hircus	0.00	0.36	0.67	0.48	0.67	87.42
Thalassionema nitzschoides	0.35	0.00	0.61	0.49	0.62	88.03
Leptocylicus danicus	0.27	0.00	0.59	0.39	0.60	88.63
Unknown flagellate sp. 1	0.00	0.34	0.59	0.49	0.59	89.22

Chaetoceros subtilis	0.00	0.31	0.59	0.42	0.59	89.81
Aphanocapsa sp.	0.36	0.00	0.56	0.39	0.56	90.37

Groups ALA12 & PR2

Average dissimilarity = 92.96

Species	Group ALA12 Av.Abund	Group PR2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.23	0.00	10.08	1.77	10.85	10.85
Unknown Cryptophyte sp.	6.15	0.00	8.82	2.67	9.49	20.33
Thalassiosira sp.	3.70	0.00	5.25	0.96	5.65	25.98
Unknown diatom sp.	3.44	0.00	4.83	1.78	5.20	31.18
Cryptomonas sp.1	0.00	3.26	4.79	2.49	5.15	36.33
Skeletonema costatum	4.12	3.82	4.73	1.16	5.09	41.42
Unknown Dinoflagellate sp.	3.25	0.00	4.63	1.23	4.98	46.40
Synechocystis aquaticus Sauvageau	0.00	2.70	3.93	1.47	4.23	50.63
Eutreptia sp.	1.93	0.00	2.68	0.62	2.88	53.52
Prorocentrum minimum	1.70	0.00	2.51	0.36	2.70	56.21
Pyramimonas sp.	1.87	0.00	2.45	1.03	2.63	58.85
Chaetoceros sp.	1.55	0.00	2.09	0.74	2.25	61.10
Skeletonema menezelli	1.67	0.00	2.03	0.39	2.18	63.28
Prorocentrum sp.	1.24	0.00	1.99	0.42	2.14	65.42
Peridinium sp.	1.64	0.00	1.96	0.65	2.11	67.53
Cryptomonas ovata	0.00	1.21	1.71	1.13	1.84	69.37
Gymnodinium splendens	0.00	1.01	1.53	0.63	1.64	71.01
Spermatozoopsis exultans	0.00	1.02	1.42	1.01	1.52	72.54
Eutreptiella sp.	0.17	0.86	1.30	0.76	1.40	73.94
Chlymentomonas sp.	0.00	0.90	1.27	0.84	1.37	75.30
Gonyaulax palustre	0.00	0.89	1.27	0.87	1.36	76.67
Ceratium hircus	0.44	0.36	1.10	0.58	1.18	77.85
Prorocentrum micans	0.57	0.05	1.07	0.37	1.15	79.00
Nitzschia closterium	0.77	0.06	1.00	0.62	1.08	80.08
Chroococcus minutus	0.00	0.72	1.00	0.43	1.08	81.16
Coscinodiscus sp.	0.63	0.00	0.96	0.49	1.04	82.19
Unknown Katodinium sp.	0.46	0.00	0.88	0.26	0.94	83.14
Scenedesmus quadricauda v. Westii	0.00	0.63	0.86	0.68	0.93	84.06
Cyclotella sp.	0.00	0.54	0.77	0.55	0.83	84.89
Gymnodinium simplex	0.00	0.52	0.77	0.62	0.82	85.72
Nitzschia pungens	0.54	0.00	0.75	0.49	0.81	86.53
Leptocylindricus minimum	0.54	0.00	0.73	0.50	0.79	87.32
Cryptomonas erosa	0.00	0.54	0.73	0.67	0.79	88.11
Peridinium cerasus	0.00	0.53	0.73	0.54	0.78	88.89

Chaetoceros gracile	0.35	0.00	0.57	0.27	0.61	89.50
Calycomonas ovalis	0.00	0.37	0.53	0.38	0.57	90.07

Groups ALA18 & PR2

Average dissimilarity = 93.95

Species	Group ALA18 Av.Abund	Group PR2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.76	0.00	10.01	2.27	10.66	10.66
Unknown Cryptophyte sp.	5.78	0.00	8.34	2.33	8.87	19.53
Skeletonema costatum	4.35	3.82	5.65	1.32	6.02	25.55
Thalassiosira sp.	3.84	0.00	4.93	1.32	5.25	30.80
Cryptomonas sp.1	0.00	3.26	4.75	2.18	5.06	35.86
Unknown Dinoflagellate sp.	2.82	0.00	4.44	1.12	4.73	40.59
Unknown diatom sp.	3.26	0.00	4.26	1.70	4.54	45.13
Synechocystis aquaticus Sauvageau	0.00	2.70	3.90	1.39	4.15	49.28
Peridinium sp.	1.96	0.00	2.46	0.77	2.62	51.90
Skeletonema menezelli	2.12	0.00	2.44	0.37	2.60	54.50
Prorocentrum minimum	1.51	0.00	2.32	0.44	2.47	56.97
Nitzschia pungens	1.50	0.00	2.11	0.82	2.24	59.21
Nitzschia closterium	1.48	0.06	2.09	0.95	2.23	61.44
Chaetoceros sp.	1.79	0.00	2.01	0.71	2.14	63.58
Pyramimonas sp.	1.42	0.00	1.78	0.84	1.89	65.48
Eutreptiella sp.	0.49	0.86	1.74	0.71	1.86	67.33
Cryptomonas ovata	0.00	1.21	1.69	1.08	1.80	69.14
Gymnodinium splendens	0.00	1.01	1.52	0.61	1.61	70.75
Spermatozoopsis exultans	0.00	1.02	1.40	0.97	1.49	72.24
Chlymentomonas sp.	0.00	0.90	1.26	0.81	1.34	73.58
Gonyaulax palustre	0.00	0.89	1.26	0.84	1.34	74.92
Leptocylicus minimum	1.10	0.00	1.22	0.66	1.30	76.22
Navicula sp. large	0.89	0.00	1.19	0.65	1.27	77.50
Leptocylicus danicus	1.12	0.00	1.17	0.43	1.24	78.74
Ceratium hircus	0.66	0.36	1.10	0.67	1.17	79.91
Unknown diatom sp. A	0.89	0.00	1.10	0.45	1.17	81.08
Rhizosolenia setigera	0.91	0.05	1.05	0.69	1.12	82.20
Chaetoceros gracile	0.89	0.00	1.05	0.36	1.11	83.31
Chroococcus minutus	0.00	0.72	0.99	0.42	1.06	84.37
Unknown Katodinium sp.	0.47	0.00	0.92	0.35	0.98	85.34
Chaetoceros subtilis	0.47	0.31	0.90	0.44	0.96	86.31
Scenedesmus quadricauda v. Westii	0.00	0.63	0.85	0.66	0.91	87.21
Aphanocapsa sp.	0.71	0.00	0.79	0.47	0.84	88.05
Cyclotella sp.	0.00	0.54	0.76	0.53	0.81	88.87

Gymnodinium simplex	0.00	0.52	0.76	0.60	0.81	89.68
Cryptomonas erosa	0.00	0.54	0.73	0.65	0.77	90.45

Groups ALA6 & PR2

Average dissimilarity = 95.60

Species	Group ALA6 Av.Abund	Group PR2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	6.93	0.00	10.34	2.19	10.81	10.81
Unknown diatom sp. D	5.41	0.00	8.26	1.13	8.64	19.45
Cryptomonas sp.1	0.00	3.26	5.05	2.25	5.28	24.74
Skeletonema costatum	1.59	3.82	4.80	1.55	5.02	29.76
Unknown diatom sp.	3.19	0.00	4.67	1.50	4.88	34.64
Thalassiosira sp.	2.99	0.00	4.51	1.03	4.71	39.36
Unknown Dinoflagellate sp.	2.98	0.00	4.26	1.46	4.45	43.81
Synechocystis aquaticus Sauvageau	0.00	2.70	4.14	1.42	4.33	48.14
Eutreptiella sp.	1.38	0.86	2.63	0.68	2.75	50.89
Peridinium sp.	1.80	0.00	2.56	0.81	2.68	53.57
Prorocentrum minimum	1.60	0.00	2.56	0.30	2.68	56.24
Eutreptia sp.	1.63	0.00	2.48	0.62	2.59	58.83
Pyramimonas sp.	1.63	0.00	2.16	0.93	2.26	61.10
Cryptomonas ovata	0.00	1.21	1.80	1.10	1.88	62.98
Gymnodinium splendens	0.00	1.01	1.61	0.61	1.69	64.66
Spermatozoopsis exultans	0.00	1.02	1.49	0.98	1.56	66.22
Scenedesmus sp.	1.08	0.00	1.44	0.66	1.51	67.73
Chlymentomonas sp.	0.00	0.90	1.34	0.82	1.40	69.13
Gonyaulax palustre	0.00	0.89	1.33	0.85	1.39	70.52
Unknown bluegreen sp.	0.81	0.00	1.25	0.52	1.31	71.83
Glenodinium sp.	0.71	0.00	1.09	0.37	1.14	72.97
Prorocentrum redfieldi	0.74	0.00	1.06	0.26	1.11	74.07
Chroococcus minutus	0.00	0.72	1.05	0.42	1.10	75.17
Scenedesmus quadricauda v. Westii	0.00	0.63	0.90	0.67	0.95	76.11
Navicula sp. small	0.46	0.00	0.85	0.47	0.89	77.01
Unknown Katodinium sp.	0.69	0.00	0.83	0.26	0.87	77.87
Prorocentrum sp.	0.69	0.00	0.82	0.35	0.86	78.73
Nitzschia closterium	0.51	0.06	0.82	0.51	0.86	79.59
Cyclotella sp.	0.00	0.54	0.81	0.54	0.85	80.44
Gymnodinium simplex	0.00	0.52	0.81	0.61	0.85	81.29
Skeletonema menezelli	0.59	0.00	0.81	0.26	0.85	82.13
Cryptomonas erosa	0.00	0.54	0.77	0.66	0.81	82.94
Peridinium cerasus	0.00	0.53	0.76	0.53	0.80	83.73
Leptocylindricus danicus	0.52	0.00	0.74	0.36	0.77	84.51

Pseudopedinella sp.	0.61	0.00	0.72	0.26	0.75	85.26
Amphora sp.	0.40	0.00	0.68	0.36	0.71	85.97
Leptocylicus minimum	0.50	0.00	0.63	0.47	0.66	86.63
Chaetoceros sp.	0.51	0.00	0.61	0.37	0.64	87.27
Prorocentrum micans	0.46	0.05	0.60	0.29	0.62	87.89
Calycomonas ovalis	0.00	0.37	0.55	0.37	0.58	88.47
Ceratium hircus	0.00	0.36	0.54	0.47	0.57	89.04
Akistrodesmus sp.	0.46	0.00	0.51	0.36	0.53	89.57
Navicula sp. large	0.33	0.00	0.49	0.38	0.51	90.08

Groups ALASFB & PR2

Average dissimilarity = 91.56

Species	Group ALASFB Av.Abund	Group PR2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.21	0.00	9.64	2.29	10.52	10.52
Unknown Cryptophyte sp.	5.30	0.00	7.95	2.39	8.68	19.21
Skeletonema costatum	6.05	3.82	6.32	1.67	6.90	26.11
Nitzschia closterium	3.80	0.06	5.23	3.81	5.72	31.82
Unknown diatom sp.	3.86	0.00	5.19	2.32	5.67	37.50
Cryptomonas sp.1	0.00	3.26	4.84	2.30	5.29	42.78
Thalassiosira sp.	3.61	0.00	4.81	2.56	5.25	48.03
Synechocystis aquaticus Sauvageau	0.00	2.70	3.97	1.42	4.34	52.37
Unknown Dinoflagellate sp.	2.64	0.00	3.58	1.84	3.91	56.28
Nitzschia pungens	1.73	0.00	2.41	0.97	2.63	58.90
Chaetoceros sp.	1.62	0.00	2.13	0.78	2.33	61.23
Pyramimonas sp.	1.42	0.00	2.07	0.75	2.26	63.49
Skeletonema menezelli	1.69	0.00	1.92	0.33	2.09	65.58
Cryptomonas ovata	0.00	1.21	1.72	1.10	1.88	67.46
Gymnodinium splendens	0.00	1.01	1.54	0.61	1.69	69.15
Spermatozoopsis exultans	0.00	1.02	1.43	0.99	1.56	70.71
Chlymentomonas sp.	0.00	0.90	1.28	0.82	1.40	72.11
Gonyaulax palustre	0.00	0.89	1.28	0.85	1.40	73.51
Leptocylicus minimum	0.90	0.00	1.25	0.62	1.37	74.88
Peridinium sp.	0.87	0.00	1.25	0.50	1.36	76.24
Eutreptiella sp.	0.00	0.86	1.23	0.70	1.34	77.58
Chaetoceros subtilis	0.66	0.31	1.13	0.49	1.24	78.82
Navicula sp. small	0.89	0.00	1.05	0.49	1.15	79.97
Chroococcus minutus	0.00	0.72	1.01	0.42	1.10	81.07
Ceratium hircus	0.47	0.36	0.97	0.56	1.06	82.13
Scenedesmus quadricauda v. Westii	0.00	0.63	0.87	0.67	0.95	83.08
Leptocylicus danicus	0.50	0.00	0.86	0.46	0.94	84.02

Cyclotella sp.	0.00	0.54	0.78	0.54	0.85	84.87
Gymnodinium simplex	0.00	0.52	0.77	0.61	0.85	85.71
Cryptomonas erosa	0.00	0.54	0.74	0.66	0.81	86.52
Peridinium cerasus	0.00	0.53	0.73	0.53	0.80	87.32
Navicula sp. large	0.39	0.00	0.69	0.48	0.75	88.07
Akistrodesmus sp.	0.45	0.00	0.63	0.33	0.69	88.77
Gonyaulax sp.	0.48	0.00	0.59	0.33	0.64	89.41
Nitzschia sp.	0.25	0.20	0.58	0.46	0.64	90.04

Groups ALATB & PR2

Average dissimilarity = 90.36

Species	Group ALATB Av.Abund	Group PR2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	8.40	3.82	6.83	1.64	7.56	7.56
Unknown diatom sp. D	5.42	0.00	6.73	1.96	7.44	15.01
Unknown Cryptophyte sp.	4.97	0.00	6.70	2.52	7.41	22.42
Thalassiosira sp.	4.50	0.00	5.44	2.66	6.02	28.44
Nitzschia closterium	3.84	0.06	4.70	1.98	5.20	33.64
Unknown diatom sp.	3.54	0.00	4.49	2.18	4.97	38.61
Cryptomonas sp.1	0.00	3.26	4.28	2.37	4.74	43.35
Nitzschia pungens	3.10	0.00	3.97	1.50	4.40	47.75
Synechocystis aquaticus Sauvageau	0.00	2.70	3.52	1.44	3.89	51.64
Chaetoceros sp.	2.89	0.00	3.52	1.43	3.89	55.53
Unknown Dinoflagellate sp.	2.17	0.00	2.56	1.08	2.83	58.37
Skeletonema menezelli	2.25	0.00	2.41	0.45	2.66	61.03
Leptocylindricus minimum	1.84	0.00	2.06	0.84	2.28	63.31
Pyramimonas sp.	1.37	0.00	1.82	0.85	2.01	65.32
Ceratium hircus	1.27	0.36	1.65	0.72	1.83	67.15
Cryptomonas ovata	0.00	1.21	1.53	1.11	1.70	68.85
Thalassionema nitzschoides	1.37	0.00	1.50	0.78	1.66	70.51
Gymnodinium splendens	0.00	1.01	1.36	0.62	1.51	72.02
Spermatozoopsis exultans	0.00	1.02	1.27	0.99	1.41	73.43
Rhizosolenia setigera	1.05	0.05	1.23	0.79	1.36	74.79
Eutreptiella sp.	0.20	0.86	1.22	0.76	1.35	76.14
Peridinium sp.	1.19	0.00	1.20	0.66	1.32	77.46
Unknown diatom sp. A	0.97	0.00	1.19	0.58	1.31	78.78
Chlymentomonas sp.	0.00	0.90	1.14	0.83	1.26	80.04
Gonyaulax palustre	0.00	0.89	1.14	0.86	1.26	81.30
Navicula sp. large	0.96	0.00	1.08	0.68	1.20	82.50
Leptocylindricus danicus	0.82	0.00	0.98	0.57	1.09	83.59
Chroococcus minutus	0.00	0.72	0.90	0.43	1.00	84.58

Prorocentrum sp.	0.79	0.00	0.81	0.47	0.90	85.48
Chaetoceros gracile	0.60	0.00	0.79	0.27	0.88	86.35
Scenedesmus quadricauda v. Westii	0.00	0.63	0.77	0.67	0.86	87.21
Cyclotella sp.	0.00	0.54	0.69	0.54	0.77	87.98
Gymnodinium simplex	0.00	0.52	0.69	0.61	0.76	88.74
Cryptomonas erosa	0.00	0.54	0.66	0.66	0.73	89.47
Peridinium cerasus	0.00	0.53	0.65	0.53	0.72	90.19

Groups ALASFC & PR2

Average dissimilarity = 90.64

Species	Group ALASFC Av.Abund	Group PR2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	12.03	1.77	13.27	13.27
Unknown diatom sp. D	8.36	0.00	8.98	3.63	9.91	23.18
Unknown Cryptophyte sp.	7.43	0.00	8.65	7.69	9.55	32.72
Thalassiosira sp.	4.72	0.00	5.60	4.88	6.18	38.91
Unknown diatom sp.	4.70	0.00	5.34	12.07	5.89	44.80
Nitzschia closterium	4.12	0.06	4.99	2.95	5.50	50.30
Pyramimonas sp.	3.83	0.00	4.53	5.33	5.00	55.29
Cryptomonas sp.1	0.00	3.26	3.90	2.37	4.31	59.60
Synechocystis aquaticus Sauvageau	0.00	2.70	3.21	1.43	3.54	63.14
Chaetoceros sp.	3.08	0.00	2.85	0.99	3.15	66.29
Gymnodinium sp.	2.63	0.00	2.43	0.99	2.68	68.97
Skeletonema costatum	5.96	3.82	2.41	1.31	2.66	71.63
Nitzschia pungens	2.29	0.00	2.12	0.99	2.34	73.97
Leptocylindricus minimum	1.88	0.00	1.74	0.99	1.92	75.89
Cryptomonas ovata	0.00	1.21	1.40	1.10	1.55	77.44
Prorocentrum sp.	1.50	0.00	1.38	0.99	1.53	78.97
Peridinium sp.	1.50	0.00	1.38	0.99	1.53	80.50
Gymnodinium splendens	0.00	1.01	1.24	0.62	1.37	81.86
Rhizosolenia setigera	1.26	0.05	1.18	1.02	1.30	83.16
Spermatozoopsis exultans	0.00	1.02	1.17	0.98	1.29	84.45
Navicula sp. large	1.26	0.00	1.16	0.99	1.28	85.73
Leptocylindricus danicus	1.26	0.00	1.16	0.99	1.28	87.02
Chlymentomonas sp.	0.00	0.90	1.04	0.82	1.15	88.17
Gonyaulax palustre	0.00	0.89	1.04	0.85	1.15	89.31
Eutreptiella sp.	0.00	0.86	1.00	0.70	1.10	90.41

Groups LMR0 & PR2

Average dissimilarity = 91.00

Species	Group LMR0 Av.Abund	Group PR2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Cryptomonas sp.1	0.00	3.26	7.50	2.22	8.24	8.24
Skeletonema costatum	3.27	3.82	7.42	1.27	8.15	16.40
Synechocystis aquaticus Sauvageau	0.00	2.70	6.10	1.43	6.70	23.10
Unknown pennate diatom sp.	2.07	0.00	4.62	1.71	5.08	28.18
Cyclotella sp.	1.76	0.54	4.04	0.87	4.44	32.62
Cyclotella sp. (small)	1.79	0.00	3.77	0.70	4.14	36.76
Cyclotella sp. (large)	1.45	0.00	2.93	0.59	3.22	39.98
Cryptomonas ovata	0.00	1.21	2.60	1.11	2.86	42.84
Gymnodinium splendens	0.00	1.01	2.44	0.59	2.68	45.52
Scenedesmus quadricauda	1.15	0.00	2.38	1.08	2.61	48.13
Gymnodinium sp.	1.01	0.00	2.20	0.99	2.42	50.55
Spermatozoopsis exultans	0.00	1.02	2.15	0.99	2.36	52.91
Schroederia setigera	1.04	0.00	2.13	1.06	2.34	55.25
Thalassiosira pseudonana	1.05	0.00	2.09	0.56	2.30	57.55
Eutreptia sp.	0.88	0.00	1.96	0.96	2.16	59.70
Gonyaulax palustre	0.00	0.89	1.94	0.85	2.13	61.84
Chlymentomonas sp.	0.00	0.90	1.94	0.83	2.13	63.97
Eutreptiella sp.	0.00	0.86	1.87	0.70	2.05	66.02
Scenedesmus bijinga	0.90	0.00	1.86	0.84	2.04	68.06
Thalassiosira decipiens	0.91	0.00	1.76	0.49	1.94	70.00
Nitzschia longissima	0.78	0.00	1.57	0.95	1.73	71.73
Chroococcus minutus	0.00	0.72	1.51	0.42	1.66	73.39
Chaetoceros subtilis	0.44	0.31	1.35	0.64	1.48	74.87
Akistrodesmus falcatus	0.64	0.00	1.34	0.68	1.47	76.34
Scenedesmus quadricauda v. Westii	0.00	0.63	1.30	0.66	1.43	77.77
Gymnodinium simplex	0.00	0.52	1.20	0.61	1.32	79.09
Cryptomonas erosa	0.00	0.54	1.10	0.66	1.21	80.31
Peridinium cerasus	0.00	0.53	1.09	0.53	1.20	81.51
Bluegreen filamentous sp.	0.41	0.00	0.94	0.61	1.04	82.55
Calycomonas ovalis	0.00	0.37	0.80	0.37	0.88	83.43
Ceratium hircus	0.00	0.36	0.79	0.47	0.87	84.29
Melosira sp.	0.36	0.00	0.78	0.50	0.86	85.15
Nitzschia sp.	0.09	0.20	0.77	0.41	0.84	86.00
Cyclotella meneghiniana	0.40	0.00	0.71	0.27	0.78	86.78
Unknown flagellate sp. 1	0.00	0.34	0.68	0.48	0.75	87.53
Scenedesmus acutus	0.34	0.00	0.67	0.40	0.74	88.27
Merismopedia punctata	0.29	0.00	0.67	0.38	0.74	89.00
Cyclotella undulata	0.00	0.30	0.66	0.36	0.73	89.73
Crucigenia sp.	0.22	0.00	0.65	0.50	0.72	90.45

Groups LMR12 & PR2

Average dissimilarity = 83.65

Species	Group LMR12 Av.Abund	Group PR2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Cryptomonas sp.1	0.00	3.26	7.71	2.29	9.21	9.21
Synechocystis aquaticus Sauvageau	0.00	2.70	6.26	1.46	7.48	16.70
Chaetoceros subtilis	2.19	0.31	5.16	1.19	6.17	22.87
Skeletonema costatum	3.94	3.82	3.71	1.01	4.43	27.30
Peridinium aciculiferum	1.12	0.00	2.78	0.85	3.33	30.63
Cryptomonas ovata	0.00	1.21	2.67	1.12	3.19	33.82
Gymnodinium splendens	0.00	1.01	2.51	0.59	3.00	36.82
Spermatozoopsis exultans	0.00	1.02	2.20	1.00	2.63	39.45
Schizothrix sp.	1.06	0.00	2.02	0.57	2.41	41.86
Gonyaulax palustre	0.00	0.89	1.99	0.86	2.38	44.24
Chlymentomonas sp.	0.00	0.90	1.99	0.84	2.38	46.61
Thalassiosira pseudonana	0.90	0.00	1.95	0.83	2.33	48.94
Eutreptiella sp.	0.00	0.86	1.92	0.71	2.29	51.24
Thalassiosira sp.	0.84	0.00	1.88	0.71	2.24	53.48
Cyclotella sp.	0.45	0.54	1.73	0.72	2.07	55.55
Nitzschia closterium	0.79	0.06	1.68	0.90	2.01	57.56
Nitzschia longissima	0.75	0.00	1.61	0.93	1.93	59.48
Unknown pennate diatom sp.	0.75	0.00	1.59	0.87	1.90	61.38
Chroococcus minutus	0.00	0.72	1.55	0.43	1.85	63.23
Leptocylindricus minimum	0.80	0.00	1.50	0.69	1.80	65.03
Chaetoceros socialis	0.70	0.00	1.47	0.76	1.76	66.79
Scenedesmus quadricauda v. Westii	0.00	0.63	1.33	0.67	1.59	68.38
Schroederia setigera	0.53	0.00	1.26	0.62	1.51	69.89
Gymnodinium simplex	0.00	0.52	1.24	0.62	1.48	71.37
Eutreptia sp.	0.58	0.00	1.20	0.76	1.43	72.80
Cryptomonas erosa	0.00	0.54	1.13	0.66	1.35	74.15
Peridinium cerasus	0.00	0.53	1.12	0.53	1.34	75.49
Ceratium hircus	0.22	0.36	1.11	0.56	1.33	76.82
Nitzschia pungens	0.45	0.00	0.91	0.56	1.09	77.91
Cyclotella sp. (small)	0.35	0.00	0.87	0.32	1.04	78.96
Gymnodinium sp.	0.37	0.00	0.85	0.54	1.01	79.97
Ceratulina bergonii	0.40	0.00	0.83	0.44	0.99	80.96
Calycomonas ovalis	0.00	0.37	0.82	0.37	0.99	81.95
Prorocentrum minimum	0.38	0.00	0.76	0.55	0.91	82.85
Nitzschia sp.	0.11	0.20	0.75	0.41	0.90	83.75
Chaetoceros neogracile	0.39	0.00	0.73	0.55	0.88	84.63
Unknown flagellate sp. 1	0.00	0.34	0.70	0.49	0.84	85.47

Gonyaulax monilata	0.33	0.00	0.69	0.48	0.82	86.29
Cyclotella undulata	0.00	0.30	0.68	0.36	0.81	87.11
Rhizosolenia setigera	0.28	0.05	0.64	0.52	0.77	87.87
Coelosphaerium sp.	0.00	0.31	0.62	0.36	0.74	88.61
Thalassionema nitzschoides	0.32	0.00	0.60	0.47	0.71	89.33
Chaetoceros decipiens	0.09	0.19	0.59	0.35	0.71	90.04

Groups LMR6 & PR2

Average dissimilarity = 84.96

Species	Group LMR6 Av.Abund	Group PR2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Cryptomonas sp.1	0.00	3.26	7.11	2.58	8.37	8.37
Synechocystis aquaticus Sauvageau	0.00	2.70	5.79	1.52	6.82	15.19
Chaetoceros subtilis	2.80	0.31	5.59	1.52	6.58	21.76
Skeletonema costatum	4.06	3.82	3.64	1.26	4.29	26.05
Cyclotella sp. (small)	1.40	0.00	2.96	0.68	3.49	29.54
Schroederia setigera	1.25	0.00	2.62	1.45	3.09	32.63
Cryptomonas ovata	0.00	1.21	2.48	1.15	2.92	35.55
Thalassiosira pseudonana	1.15	0.00	2.46	0.70	2.89	38.44
Peridinium aciculiferum	1.07	0.00	2.39	0.72	2.81	41.25
Gymnodinium splendens	0.00	1.01	2.30	0.62	2.71	43.96
Cyclotella sp.	0.79	0.54	2.24	0.76	2.63	46.59
Gymnodinium sp.	1.06	0.00	2.19	0.83	2.58	49.17
Spermatozoopsis exultans	0.00	1.02	2.05	1.02	2.41	51.58
Nitzschia longissima	0.91	0.00	2.03	1.22	2.39	53.97
Chlymentomonas sp.	0.00	0.90	1.85	0.85	2.18	56.14
Gonyaulax palustre	0.00	0.89	1.85	0.88	2.18	58.32
Eutreptiella sp.	0.00	0.86	1.78	0.72	2.09	60.41
Schizothrix sp.	0.71	0.00	1.62	0.47	1.91	62.33
Unknown pennate diatom sp.	0.72	0.00	1.56	0.73	1.84	64.17
Scenedesmus quadricauda	0.73	0.00	1.54	0.81	1.81	65.98
Chroococcus minutus	0.00	0.72	1.45	0.43	1.70	67.68
Scenedesmus quadricauda v. Westii	0.00	0.63	1.24	0.68	1.46	69.14
Thalassiosira decipiens	0.59	0.00	1.24	0.73	1.46	70.60
Gonyaulax polygramma	0.53	0.00	1.17	0.68	1.38	71.98
Gymnodinium simplex	0.00	0.52	1.14	0.63	1.34	73.32
Cryptomonas erosa	0.00	0.54	1.06	0.67	1.24	74.56
Peridinium cerasus	0.00	0.53	1.05	0.54	1.23	75.79
Akistrodesmus falcatus	0.46	0.00	0.92	0.57	1.09	76.88
Nitzschia closterium	0.40	0.06	0.91	0.62	1.07	77.94
Scenedesmus bijinga	0.43	0.00	0.91	0.50	1.07	79.01

Eutreptia sp.	0.42	0.00	0.88	0.58	1.03	80.04
Euglena sp.	0.38	0.00	0.83	0.50	0.98	81.02
Peridinium sp.	0.41	0.00	0.79	0.56	0.94	81.96
Calycomonas ovalis	0.00	0.37	0.77	0.38	0.90	82.86
Ceratium hircus	0.00	0.36	0.75	0.48	0.88	83.75
Unknown flagellate sp. 1	0.00	0.34	0.66	0.49	0.77	84.52
Cyclotella undulata	0.00	0.30	0.63	0.36	0.74	85.26
Thalassiosira sp.	0.31	0.00	0.60	0.48	0.71	85.97
Coelosphaerium sp.	0.00	0.31	0.58	0.36	0.68	86.65
Merismopedia punctata	0.23	0.00	0.57	0.33	0.67	87.33
Prorocentrum minimum	0.29	0.00	0.57	0.50	0.67	88.00
Leptocylicus minimum	0.29	0.00	0.54	0.40	0.64	88.64
Nostoc sp.(trichomes)	0.21	0.00	0.52	0.42	0.61	89.25
Nitzschia sp.	0.00	0.20	0.50	0.32	0.58	89.83
Nitzschia pungens	0.21	0.00	0.48	0.42	0.57	90.40

Groups LMRRUSK & PR2

Average dissimilarity = 85.55

Species	Group LMRRUSK Av.Abund	Group PR2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Cryptomonas sp.1	0.00	3.26	6.78	2.22	7.93	7.93
Skeletonema costatum	5.90	3.82	6.43	1.15	7.51	15.44
Synechocystis aquaticus Sauvageau	0.00	2.70	5.53	1.43	6.46	21.90
Prorocentrum minimum	1.59	0.00	3.00	0.98	3.50	25.40
Thalassiosira pseudonana	1.56	0.00	2.90	0.83	3.39	28.80
Eutreptia sp.	1.43	0.00	2.72	0.99	3.18	31.98
Thalassiosira sp.	1.38	0.00	2.62	0.66	3.07	35.04
Cryptomonas ovata	0.00	1.21	2.37	1.10	2.77	37.81
Gymnodinium splendens	0.00	1.01	2.19	0.59	2.56	40.38
Cyclotella sp.	0.83	0.54	2.09	0.73	2.45	42.82
Spermatozoopsis exultans	0.00	1.02	1.96	0.99	2.29	45.11
Chaetoceros subtilis	0.83	0.31	1.85	0.80	2.17	47.28
Chlymentomonas sp.	0.00	0.90	1.76	0.83	2.06	49.34
Gonyaulax palustre	0.00	0.89	1.76	0.85	2.06	51.40
Eutreptiella sp.	0.00	0.86	1.70	0.70	1.98	53.38
Schroederia setigera	0.82	0.00	1.69	0.88	1.98	55.36
Peridinium aciculiferum	0.84	0.00	1.62	0.82	1.90	57.26
Unknown pennate diatom sp.	0.81	0.00	1.54	0.69	1.79	59.06
Thalassiosira decipiens	0.84	0.00	1.51	0.78	1.77	60.82
Nitzschia longissima	0.74	0.00	1.43	0.97	1.68	62.50
Chroococcus minutus	0.00	0.72	1.38	0.42	1.61	64.11

Leptocylindricus minimum	0.75	0.00	1.30	0.57	1.52	65.63
Euglena sp.	0.69	0.00	1.27	0.45	1.48	67.11
Scrippsiella sp.	0.59	0.00	1.22	0.64	1.42	68.53
Scenedesmus quadricauda v. Westii	0.00	0.63	1.19	0.66	1.39	69.92
Nitzschia closterium	0.62	0.06	1.17	0.91	1.37	71.29
Ceratulina bergonii	0.53	0.00	1.13	0.42	1.32	72.60
Gymnodinium simplex	0.00	0.52	1.09	0.61	1.27	73.87
Merismopedia punctata	0.54	0.00	1.03	0.45	1.20	75.07
Cryptomonas erosa	0.00	0.54	1.01	0.66	1.18	76.25
Peridinium cerasus	0.00	0.53	1.00	0.53	1.17	77.42
Gymnodinium sp.	0.53	0.00	0.95	0.70	1.11	78.53
Schizothrix sp.	0.49	0.00	0.88	0.43	1.03	79.56
Scenedesmus quadrauda	0.46	0.00	0.83	0.48	0.97	80.53
Akistrodesmus falcatus	0.43	0.00	0.80	0.54	0.94	81.47
Ceratium hircus	0.08	0.36	0.79	0.51	0.92	82.38
Calycomonas ovalis	0.00	0.37	0.73	0.37	0.85	83.24
Crucigenia sp.	0.38	0.00	0.71	0.47	0.83	84.07
Chaetoceros neogracile	0.31	0.00	0.65	0.51	0.76	84.83
Unknown flagellate sp. 1	0.00	0.34	0.63	0.49	0.73	85.56
Pyramimonas sp.	0.33	0.00	0.61	0.35	0.71	86.28
Cyclotella undulata	0.00	0.30	0.60	0.36	0.70	86.98
Coelosphaerium sp.	0.00	0.31	0.56	0.36	0.65	87.63
Nostoc sp.(trichomes)	0.27	0.00	0.54	0.42	0.63	88.25
Peridinium sp.	0.31	0.00	0.51	0.55	0.60	88.85
Scenedesmus bijinga	0.28	0.00	0.49	0.43	0.57	89.42
Nitzschia sp.	0.00	0.20	0.47	0.30	0.55	89.97
Chaetoceros socialis	0.28	0.00	0.47	0.36	0.55	90.53

Groups LMRTB & PR2

Average dissimilarity = 89.33

Species	Group LMRTB Av.Abund	Group PR2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Cryptomonas sp.1	0.00	3.26	6.64	1.84	7.44	7.44
Skeletonema costatum	5.07	3.82	6.46	1.23	7.23	14.67
Synechocystis aquaticus Sauvageau	0.00	2.70	5.40	1.30	6.05	20.72
Schizothrix sp.	2.14	0.00	3.64	0.69	4.08	24.79
Thalassionema nitzschoides	1.63	0.00	3.22	0.71	3.60	28.40
Ceratulina bergonii	1.39	0.00	2.66	0.77	2.97	31.37
Leptocylindricus minimum	1.63	0.00	2.44	1.12	2.73	34.10
Cryptomonas ovata	0.00	1.21	2.31	1.03	2.59	36.69
Gymnodinium splendens	0.00	1.01	2.16	0.56	2.41	39.10

Chaetoceros socialis	1.47	0.00	2.14	0.81	2.39	41.49
Nitzschia closterium	1.37	0.06	2.13	0.82	2.38	43.88
Chaetoceros neogracile	1.24	0.00	2.05	0.87	2.29	46.17
Unknown pennate diatom sp.	1.09	0.00	2.00	0.85	2.24	48.41
Spermatozoopsis exultans	0.00	1.02	1.91	0.94	2.14	50.54
Prorocentrum micans	0.97	0.05	1.74	0.99	1.95	52.49
Chlymentomonas sp.	0.00	0.90	1.72	0.79	1.93	54.42
Gonyaulax palustre	0.00	0.89	1.72	0.81	1.93	56.34
Nitzschia pungens	1.11	0.00	1.67	0.71	1.86	58.21
Eutreptiella sp.	0.00	0.86	1.66	0.67	1.86	60.07
Rhizosolenia setigera	0.93	0.05	1.64	0.80	1.84	61.90
Thalassiosira sp.	0.93	0.00	1.56	0.64	1.75	63.65
Ceratium hircus	0.73	0.36	1.49	0.89	1.66	65.32
Chaetoceros compressum	0.87	0.16	1.45	0.65	1.62	66.94
Chroococcus minutus	0.00	0.72	1.35	0.41	1.51	68.44
Asterionella glacialis	0.87	0.00	1.22	0.67	1.36	69.80
Chaetoceros subtilis	0.59	0.31	1.19	0.64	1.33	71.14
Thalassiosira decipiens	0.64	0.00	1.18	0.60	1.32	72.45
Scenedesmus quadricauda v. Westii	0.00	0.63	1.16	0.64	1.30	73.75
Chaetoceros sp.	0.56	0.00	1.14	0.34	1.27	75.02
Gymnodinium simplex	0.00	0.52	1.06	0.58	1.19	76.21
Prorocentrum minimum	0.72	0.00	1.06	0.94	1.19	77.40
Cyclotella sp.	0.00	0.54	1.05	0.52	1.18	78.58
Cryptomonas erosa	0.00	0.54	0.98	0.63	1.10	79.68
Peridinium cerasus	0.00	0.53	0.97	0.51	1.09	80.77
Nitzschia longissima	0.64	0.00	0.93	0.86	1.04	81.81
Peridinium sp.	0.41	0.00	0.85	0.54	0.95	82.77
Melosira sp.	0.26	0.00	0.78	0.32	0.87	83.64
Calycomonas ovalis	0.00	0.37	0.71	0.36	0.80	84.44
Leptocylindricus danicus	0.46	0.00	0.68	0.59	0.76	85.20
Amphora sp.	0.41	0.00	0.66	0.44	0.73	85.93
Unknown flagellate sp. 1	0.00	0.34	0.61	0.47	0.68	86.62
Cyclotella undulata	0.00	0.30	0.59	0.34	0.66	87.27
Nitzschia sp.	0.05	0.20	0.54	0.33	0.61	87.88
Coelosphaerium sp.	0.00	0.31	0.54	0.35	0.61	88.49
Chaetoceros curvisetus	0.43	0.00	0.51	0.33	0.57	89.06
Thalassiosira pseudonana	0.37	0.00	0.51	0.39	0.57	89.62
Gonyaulax polygramma	0.22	0.00	0.49	0.35	0.55	90.17

Groups LMR18 & PR2

Average dissimilarity = 84.04

Species	Group LMR18 Av.Abund	Group PR2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Cryptomonas sp.1	0.00	3.26	8.01	2.31	9.53	9.53
Synechocystis aquaticus Sauvageau	0.00	2.70	6.50	1.47	7.73	17.27
Skeletonema costatum	4.09	3.82	4.39	1.03	5.23	22.49
Nitzschia closterium	1.55	0.06	3.41	1.49	4.06	26.55
Cryptomonas ovata	0.00	1.21	2.77	1.12	3.29	29.85
Gymnodinium splendens	0.00	1.01	2.61	0.59	3.11	32.96
Chaetoceros subtilis	0.83	0.31	2.45	0.73	2.91	35.87
Spermatozoopsis exultans	0.00	1.02	2.28	1.00	2.71	38.58
Chaetoceros socialis	0.99	0.00	2.11	0.88	2.51	41.09
Leptocylicus minimum	0.93	0.00	2.08	0.87	2.47	43.56
Peridinium aciculiferum	0.79	0.00	2.07	0.79	2.46	46.03
Gonyaulax palustre	0.00	0.89	2.06	0.86	2.45	48.48
Chlymentomonas sp.	0.00	0.90	2.06	0.84	2.45	50.93
Eutreptiella sp.	0.00	0.86	1.99	0.71	2.37	53.30
Unknown pennate diatom sp.	0.84	0.00	1.78	0.80	2.12	55.42
Chroococcus minutus	0.00	0.72	1.61	0.43	1.91	57.33
Schizothrix sp.	0.67	0.00	1.54	0.43	1.83	59.16
Ceratulina bergonii	0.59	0.00	1.51	0.43	1.80	60.96
Cyclotella sp.	0.17	0.54	1.49	0.63	1.77	62.72
Chaetoceros neogracile	0.63	0.00	1.39	0.63	1.66	64.38
Scenedesmus quadricauda v. Westii	0.00	0.63	1.38	0.67	1.64	66.03
Rhizosolenia setigera	0.54	0.05	1.33	0.69	1.58	67.61
Gymnodinium simplex	0.00	0.52	1.28	0.62	1.53	69.13
Nitzschia longissima	0.53	0.00	1.22	0.81	1.46	70.59
Cryptomonas erosa	0.00	0.54	1.17	0.66	1.40	71.99
Peridinium cerasus	0.00	0.53	1.16	0.54	1.38	73.37
Thalassionema nitzschoides	0.48	0.00	1.09	0.57	1.29	74.66
Chaetoceros compressum	0.31	0.16	1.06	0.44	1.26	75.92
Ceratium hircus	0.14	0.36	1.04	0.56	1.23	77.16
Thalassiosira pseudonana	0.51	0.00	1.02	0.65	1.22	78.37
Thalassiosira sp.	0.36	0.00	0.89	0.39	1.06	79.44
Calycomonas ovalis	0.00	0.37	0.85	0.37	1.02	80.45
Peridinium sp.	0.32	0.00	0.76	0.42	0.90	81.35
Unknown flagellate sp. 1	0.00	0.34	0.72	0.49	0.86	82.22
Cyclotella undulata	0.00	0.30	0.71	0.36	0.84	83.06
Asterionella glacialis	0.35	0.00	0.70	0.42	0.84	83.89
Prorocentrum minimum	0.35	0.00	0.70	0.55	0.84	84.73
Gonyaulax polygramma	0.27	0.00	0.68	0.42	0.80	85.54
Eutreptia sp.	0.31	0.00	0.66	0.49	0.79	86.32
Gymnodinium sp.	0.30	0.00	0.66	0.48	0.78	87.11
Nitzschia pungens	0.30	0.00	0.66	0.41	0.78	87.89

Coelosphaerium sp.	0.00	0.31	0.64	0.36	0.76	88.65
Prorocentrum micans	0.25	0.05	0.61	0.43	0.72	89.37
Nitzschia sp.	0.00	0.20	0.57	0.30	0.68	90.05

Groups PR1 & PR2

Average dissimilarity = 60.63

Species	Group PR1 Av.Abund	Group PR2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	1.15	3.82	6.15	1.51	10.15	10.15
Synechocystis aquaticus Sauvageau	3.49	2.70	4.43	1.11	7.30	17.45
Scenedesmus quadricauda v. Westii	2.19	0.63	3.92	1.24	6.46	23.91
Gonyaulax palustre	1.82	0.89	2.97	1.29	4.90	28.81
Spermatozoopsis exultans	1.79	1.02	2.95	1.11	4.87	33.68
Cryptomonas erosa	1.46	0.54	2.68	1.21	4.41	38.10
Cryptomonas ovata	1.01	1.21	2.41	1.10	3.98	42.08
Chlymentomonas sp.	1.14	0.90	2.41	1.10	3.97	46.05
Cryptomonas sp.1	3.26	3.26	2.33	1.36	3.85	49.90
Gymnodinium splendens	0.12	1.01	2.22	0.64	3.66	53.56
Eutreptiella sp.	0.80	0.86	2.12	0.97	3.50	57.06
Chroococcus minutus	0.56	0.72	2.06	0.60	3.40	60.46
Coelosphaerium sp.	0.90	0.31	2.01	0.68	3.31	63.77
Cyclotella sp.	0.73	0.54	1.85	0.84	3.05	66.82
Unknown flagellate sp. 1	0.56	0.34	1.43	0.75	2.35	69.17
Nitzschia palea	0.70	0.18	1.39	0.89	2.30	71.47
Cyclotella undulata	0.37	0.30	1.27	0.45	2.09	73.56
Gymnodinium simplex	0.20	0.52	1.24	0.75	2.05	75.61
Peridinium cerasus	0.00	0.53	1.00	0.54	1.64	77.25
Chaetoceros subtilis	0.16	0.31	0.87	0.46	1.44	78.69
Calycomonas ovalis	0.05	0.37	0.79	0.41	1.30	79.98
Euglena acus	0.35	0.06	0.75	0.39	1.23	81.21
Ceratium hircus	0.00	0.36	0.71	0.48	1.18	82.39
Nitzschia sp.	0.10	0.20	0.63	0.41	1.04	83.44
Scenedesmus abundans v. brevicauda	0.35	0.00	0.60	0.37	0.99	84.43
Oscillatoria rubescens (trichome)	0.15	0.18	0.57	0.41	0.93	85.36
Merismopedia glauca	0.32	0.00	0.56	0.37	0.92	86.27
Nitzschia fruticosa	0.30	0.00	0.55	0.36	0.91	87.18
Stephanodiscus sp.	0.26	0.00	0.50	0.34	0.83	88.01
Euglena sp.	0.21	0.00	0.47	0.21	0.77	88.78
Crucigenia fenestrata	0.07	0.16	0.43	0.26	0.72	89.49
Spirulina sp.1	0.24	0.00	0.43	0.35	0.72	90.21

Groups ALA0 & PR3

Average dissimilarity = 98.62

Species	Group ALA0 Av.Abund	Group PR3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	9.36	1.61	9.50	9.50
Skeletonema costatum	0.16	3.69	7.12	1.65	7.22	16.72
Unknown diatom sp.	3.09	0.00	5.95	2.49	6.03	22.75
Synechocystis aquaticus Sauvageau	0.00	2.83	5.53	1.59	5.61	28.35
Cryptomonas sp.1	0.00	2.70	5.25	1.98	5.33	33.68
Unknown diatom sp. D	2.34	0.00	4.40	1.59	4.46	38.14
Thalassiosira sp.	2.01	0.00	3.85	1.95	3.91	42.04
Prorocentrum micans	1.61	0.39	3.62	0.64	3.67	45.71
Unknown Dinoflagellate sp.	1.73	0.00	3.42	0.99	3.47	49.19
Scenedesmus sp.	1.47	0.00	2.67	1.15	2.70	51.89
Peridinium cerasus	0.00	1.29	2.49	0.78	2.52	54.42
Navicula sp. small	1.23	0.00	2.44	0.85	2.47	56.89
Chlymentomonas sp.	0.00	1.07	2.16	0.85	2.20	59.08
Gymnodinium splendens	0.00	0.87	1.67	0.54	1.70	60.78
Coscinodiscus sp.	0.83	0.00	1.63	0.58	1.65	62.43
Unknown bluegreen sp.	0.83	0.00	1.63	0.89	1.65	64.08
Eutreptiella sp.	0.35	0.70	1.59	0.85	1.61	65.69
Pyramimonas sp.	0.84	0.00	1.52	0.84	1.54	67.24
Nitzschia pungens	0.80	0.07	1.52	0.82	1.54	68.78
Tetraedron sp.	0.82	0.00	1.40	0.75	1.42	70.20
Navicula sp. large	0.66	0.00	1.39	0.64	1.41	71.61
Gymnodinium simplex	0.00	0.71	1.36	0.69	1.37	72.98
Akistrodesmus sp.	0.76	0.00	1.30	0.58	1.32	74.30
Chroococcus minutus	0.00	0.67	1.29	0.44	1.31	75.61
Unknown flagellate sp. 1	0.00	0.66	1.26	0.67	1.28	76.89
Leptocylindricus minimum	0.61	0.00	1.17	0.66	1.19	78.08
Cyclotella sp.	0.00	0.56	1.03	0.63	1.05	79.12
Gonyaulax palustre	0.00	0.54	1.00	0.63	1.02	80.14
Calycomonas ovalis	0.00	0.53	1.00	0.50	1.01	81.15
Spermatozoopsis exultans	0.00	0.51	0.94	0.63	0.95	82.10
Prorocentrum sp.	0.45	0.00	0.87	0.38	0.88	82.99
Ceratium hircus	0.00	0.40	0.85	0.44	0.86	83.85
Cryptomonas erosa	0.00	0.45	0.82	0.56	0.83	84.68
Nitzschia sp.	0.38	0.00	0.77	0.38	0.78	85.46
Thalassionema nitzschoides	0.35	0.10	0.76	0.53	0.78	86.24
Eutreptia sp.	0.37	0.00	0.74	0.35	0.75	86.99
Prorocentrum redfieldi	0.40	0.00	0.70	0.36	0.71	87.70

Chaetoceros subtilis	0.00	0.35	0.65	0.42	0.66	88.36
Leptocylicus danicus	0.27	0.00	0.61	0.39	0.61	88.97
Cryptomonas ovata	0.00	0.29	0.58	0.44	0.58	89.56
Aphanocapsa sp.	0.36	0.00	0.57	0.39	0.58	90.13

Groups ALA12 & PR3

Average dissimilarity = 92.92

Species	Group ALA12 Av.Abund	Group PR3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.23	0.00	10.28	1.78	11.06	11.06
Unknown Cryptophyte sp.	6.15	0.00	9.00	2.69	9.68	20.74
Thalassiosira sp.	3.70	0.00	5.35	0.96	5.76	26.50
Skeletonema costatum	4.12	3.69	4.99	1.13	5.37	31.87
Unknown diatom sp.	3.44	0.00	4.93	1.79	5.30	37.17
Unknown Dinoflagellate sp.	3.25	0.00	4.73	1.23	5.09	42.26
Synechocystis aquaticus Sauvageau	0.00	2.83	4.22	1.57	4.54	46.79
Cryptomonas sp.1	0.00	2.70	4.01	1.98	4.31	51.11
Eutreptia sp.	1.93	0.00	2.73	0.62	2.94	54.05
Prorocentrum minimum	1.70	0.00	2.56	0.36	2.75	56.80
Pyramimonas sp.	1.87	0.00	2.49	1.03	2.68	59.48
Chaetoceros sp.	1.55	0.00	2.13	0.74	2.29	61.78
Skeletonema menezelli	1.67	0.00	2.06	0.39	2.22	63.99
Prorocentrum sp.	1.24	0.00	2.04	0.42	2.19	66.19
Peridinium sp.	1.64	0.00	2.00	0.65	2.15	68.33
Peridinium cerasus	0.00	1.29	1.90	0.80	2.05	70.38
Chlymentomonas sp.	0.00	1.07	1.64	0.86	1.76	72.14
Prorocentrum micans	0.57	0.39	1.44	0.50	1.55	73.69
Gymnodinium splendens	0.00	0.87	1.28	0.54	1.38	75.07
Ceratium hircus	0.44	0.40	1.20	0.59	1.29	76.36
Eutreptiella sp.	0.17	0.70	1.09	0.80	1.17	77.53
Nitzschia closterium	0.77	0.10	1.05	0.65	1.13	78.66
Gymnodinium simplex	0.00	0.71	1.04	0.69	1.12	79.78
Chroococcus minutus	0.00	0.67	0.99	0.44	1.07	80.85
Coscinodiscus sp.	0.63	0.00	0.98	0.49	1.06	81.90
Unknown flagellate sp. 1	0.00	0.66	0.97	0.67	1.04	82.94
Unknown Katodinium sp.	0.46	0.00	0.90	0.27	0.97	83.91
Nitzschia pungens	0.54	0.07	0.83	0.53	0.89	84.80
Cyclotella sp.	0.00	0.56	0.80	0.63	0.86	85.66
Gonyaulax palustre	0.00	0.54	0.77	0.62	0.83	86.50
Calycomonas ovalis	0.00	0.53	0.77	0.50	0.83	87.32
Leptocylicus minimum	0.54	0.00	0.75	0.50	0.80	88.13

Rhizosolenia setigera	0.34	0.28	0.73	0.58	0.78	88.91
Spermatozoopsis exultans	0.00	0.51	0.73	0.63	0.78	89.69
Cryptomonas erosa	0.00	0.45	0.64	0.56	0.69	90.38

Groups ALA18 & PR3

Average dissimilarity = 93.88

Species	Group ALA18 Av.Abund	Group PR3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.76	0.00	10.20	2.29	10.86	10.86
Unknown Cryptophyte sp.	5.78	0.00	8.51	2.33	9.06	19.93
Skeletonema costatum	4.35	3.69	5.85	1.27	6.23	26.16
Thalassiosira sp.	3.84	0.00	5.02	1.32	5.35	31.51
Unknown Dinoflagellate sp.	2.82	0.00	4.54	1.12	4.84	36.35
Unknown diatom sp.	3.26	0.00	4.34	1.70	4.63	40.98
Synechocystis aquaticus Sauvageau	0.00	2.83	4.19	1.47	4.46	45.44
Cryptomonas sp.1	0.00	2.70	3.98	1.80	4.24	49.67
Peridinium sp.	1.96	0.00	2.51	0.77	2.67	52.34
Skeletonema menezelli	2.12	0.00	2.48	0.37	2.64	54.98
Prorocentrum minimum	1.51	0.00	2.37	0.44	2.53	57.51
Nitzschia pungens	1.50	0.07	2.16	0.84	2.30	59.81
Nitzschia closterium	1.48	0.10	2.14	0.97	2.28	62.09
Chaetoceros sp.	1.79	0.00	2.05	0.71	2.18	64.27
Peridinium cerasus	0.00	1.29	1.89	0.77	2.01	66.28
Pyramimonas sp.	1.42	0.00	1.81	0.84	1.93	68.21
Chlymentomonas sp.	0.00	1.07	1.63	0.83	1.73	69.94
Eutreptiella sp.	0.49	0.70	1.59	0.67	1.70	71.64
Gymnodinium splendens	0.00	0.87	1.27	0.53	1.35	72.99
Leptocylindricus minimum	1.10	0.00	1.24	0.66	1.33	74.32
Rhizosolenia setigera	0.91	0.28	1.23	0.79	1.31	75.63
Navicula sp. large	0.89	0.00	1.22	0.65	1.30	76.93
Ceratium hircus	0.66	0.40	1.21	0.65	1.29	78.21
Leptocylindricus danicus	1.12	0.00	1.19	0.43	1.26	79.47
Unknown diatom sp. A	0.89	0.00	1.11	0.45	1.19	80.66
Chaetoceros gracile	0.89	0.00	1.06	0.36	1.13	81.79
Gymnodinium simplex	0.00	0.71	1.03	0.67	1.10	82.89
Chroococcus minutus	0.00	0.67	0.98	0.43	1.05	83.94
Unknown flagellate sp. 1	0.00	0.66	0.96	0.65	1.02	84.96
Chaetoceros subtilis	0.47	0.35	0.96	0.45	1.02	85.98
Unknown Katodinium sp.	0.47	0.00	0.94	0.35	1.00	86.98
Aphanocapsa sp.	0.71	0.00	0.80	0.47	0.86	87.84
Cyclotella sp.	0.00	0.56	0.79	0.61	0.84	88.68

Gonyaulax palustre	0.00	0.54	0.77	0.61	0.82	89.50
Calycomonas ovalis	0.00	0.53	0.76	0.49	0.81	90.31

Groups ALA6 & PR3

Average dissimilarity = 95.62

Species	Group ALA6 Av.Abund	Group PR3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	6.93	0.00	10.55	2.21	11.03	11.03
Unknown diatom sp. D	5.41	0.00	8.43	1.13	8.82	19.85
Skeletonema costatum	1.59	3.69	4.88	1.36	5.10	24.95
Unknown diatom sp.	3.19	0.00	4.76	1.50	4.98	29.93
Thalassiosira sp.	2.99	0.00	4.60	1.03	4.81	34.74
Synechocystis aquaticus Sauvageau	0.00	2.83	4.45	1.50	4.65	39.39
Unknown Dinoflagellate sp.	2.98	0.00	4.34	1.47	4.54	43.93
Cryptomonas sp.1	0.00	2.70	4.23	1.84	4.42	48.35
Prorocentrum minimum	1.60	0.00	2.61	0.30	2.73	51.09
Peridinium sp.	1.80	0.00	2.61	0.82	2.73	53.82
Eutreptia sp.	1.63	0.00	2.53	0.62	2.64	56.46
Eutreptiella sp.	1.38	0.70	2.51	0.64	2.62	59.08
Pyramimonas sp.	1.63	0.00	2.20	0.93	2.30	61.39
Peridinium cerasus	0.00	1.29	2.01	0.77	2.10	63.49
Chlymentomonas sp.	0.00	1.07	1.73	0.83	1.81	65.30
Scenedesmus sp.	1.08	0.00	1.47	0.66	1.54	66.84
Gymnodinium splendens	0.00	0.87	1.35	0.53	1.41	68.25
Unknown bluegreen sp.	0.81	0.00	1.27	0.52	1.33	69.58
Glenodinium sp.	0.71	0.00	1.11	0.37	1.16	70.74
Gymnodinium simplex	0.00	0.71	1.10	0.67	1.15	71.89
Prorocentrum redfieldi	0.74	0.00	1.08	0.26	1.13	73.01
Prorocentrum micans	0.46	0.39	1.07	0.49	1.12	74.13
Chroococcus minutus	0.00	0.67	1.04	0.43	1.09	75.23
Unknown flagellate sp. 1	0.00	0.66	1.02	0.66	1.07	76.29
Nitzschia closterium	0.51	0.10	0.88	0.54	0.92	77.21
Navicula sp. small	0.46	0.00	0.87	0.47	0.91	78.12
Unknown Katodinium sp.	0.69	0.00	0.84	0.26	0.88	79.00
Cyclotella sp.	0.00	0.56	0.84	0.62	0.88	79.88
Prorocentrum sp.	0.69	0.00	0.84	0.35	0.87	80.75
Skeletonema menezelli	0.59	0.00	0.82	0.26	0.86	81.61
Gonyaulax palustre	0.00	0.54	0.81	0.62	0.85	82.47
Calycomonas ovalis	0.00	0.53	0.81	0.49	0.84	83.31
Spermatozoopsis exultans	0.00	0.51	0.76	0.62	0.80	84.11
Leptocylindricus danicus	0.52	0.00	0.75	0.36	0.79	84.90

Pseudopedinella sp.	0.61	0.00	0.73	0.26	0.76	85.66
Rhizosolenia setigera	0.29	0.28	0.70	0.57	0.74	86.40
Amphora sp.	0.40	0.00	0.69	0.36	0.73	87.12
Ceratium hircus	0.00	0.40	0.67	0.43	0.70	87.83
Cryptomonas erosa	0.00	0.45	0.67	0.55	0.70	88.53
Leptocylicus minimum	0.50	0.00	0.64	0.47	0.67	89.20
Chaetoceros sp.	0.51	0.00	0.62	0.37	0.65	89.85
Nitzschia pungens	0.40	0.07	0.53	0.42	0.55	90.40

Groups ALASFB & PR3

Average dissimilarity = 91.52

Species	Group ALASFB Av.Abund	Group PR3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.21	0.00	9.82	2.32	10.73	10.73
Unknown Cryptophyte sp.	5.30	0.00	8.12	2.40	8.87	19.59
Skeletonema costatum	6.05	3.69	6.60	1.55	7.21	26.81
Unknown diatom sp.	3.86	0.00	5.29	2.33	5.78	32.59
Nitzschia closterium	3.80	0.10	5.28	3.71	5.77	38.35
Thalassiosira sp.	3.61	0.00	4.90	2.58	5.35	43.70
Synechocystis aquaticus Sauvageau	0.00	2.83	4.26	1.51	4.66	48.36
Cryptomonas sp.1	0.00	2.70	4.05	1.87	4.42	52.78
Unknown Dinoflagellate sp.	2.64	0.00	3.64	1.84	3.98	56.76
Nitzschia pungens	1.73	0.07	2.46	0.99	2.68	59.45
Chaetoceros sp.	1.62	0.00	2.17	0.78	2.37	61.82
Pyramimonas sp.	1.42	0.00	2.11	0.75	2.30	64.12
Skeletonema menezelli	1.69	0.00	1.94	0.33	2.12	66.25
Peridinium cerasus	0.00	1.29	1.92	0.78	2.10	68.35
Chlymentomonas sp.	0.00	1.07	1.66	0.84	1.81	70.16
Gymnodinium splendens	0.00	0.87	1.29	0.53	1.41	71.57
Leptocylicus minimum	0.90	0.00	1.28	0.62	1.39	72.97
Peridinium sp.	0.87	0.00	1.27	0.50	1.39	74.36
Chaetoceros subtilis	0.66	0.35	1.19	0.50	1.30	75.65
Ceratium hircus	0.47	0.40	1.09	0.56	1.19	76.84
Navicula sp. small	0.89	0.00	1.07	0.49	1.17	78.01
Gymnodinium simplex	0.00	0.71	1.05	0.67	1.15	79.16
Chroococcus minutus	0.00	0.67	1.00	0.43	1.09	80.25
Eutreptiella sp.	0.00	0.70	0.99	0.74	1.09	81.34
Unknown flagellate sp. 1	0.00	0.66	0.98	0.66	1.07	82.40
Leptocylicus danicus	0.50	0.00	0.88	0.46	0.96	83.36
Cyclotella sp.	0.00	0.56	0.81	0.62	0.88	84.25
Gonyaulax palustre	0.00	0.54	0.78	0.62	0.85	85.10

Calycomonas ovalis	0.00	0.53	0.78	0.49	0.85	85.95
Rhizosolenia setigera	0.36	0.28	0.75	0.54	0.82	86.76
Spermatozoopsis exultans	0.00	0.51	0.73	0.62	0.80	87.56
Navicula sp. large	0.39	0.00	0.71	0.48	0.77	88.34
Akistrodesmus sp.	0.45	0.00	0.65	0.33	0.71	89.04
Cryptomonas erosa	0.00	0.45	0.64	0.55	0.70	89.74
Gonyaulax sp.	0.48	0.00	0.60	0.33	0.65	90.40

Groups ALATB & PR3

Average dissimilarity = 89.91

Species	Group ALATB Av.Abund	Group PR3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	8.40	3.69	7.15	1.55	7.95	7.95
Unknown diatom sp. D	5.42	0.00	6.84	1.97	7.61	15.57
Unknown Cryptophyte sp.	4.97	0.00	6.82	2.51	7.59	23.16
Thalassiosira sp.	4.50	0.00	5.53	2.68	6.15	29.31
Nitzschia closterium	3.84	0.10	4.74	1.98	5.27	34.58
Unknown diatom sp.	3.54	0.00	4.57	2.19	5.09	39.67
Nitzschia pungens	3.10	0.07	4.00	1.50	4.45	44.12
Synechocystis aquaticus Sauvageau	0.00	2.83	3.77	1.53	4.19	48.31
Cryptomonas sp.1	0.00	2.70	3.58	1.92	3.98	52.29
Chaetoceros sp.	2.89	0.00	3.58	1.43	3.98	56.27
Unknown Dinoflagellate sp.	2.17	0.00	2.60	1.08	2.90	59.17
Skeletonema menezelli	2.25	0.00	2.44	0.45	2.72	61.88
Leptocylicus minimum	1.84	0.00	2.09	0.84	2.33	64.21
Pyramimonas sp.	1.37	0.00	1.85	0.85	2.06	66.27
Ceratium hircus	1.27	0.40	1.74	0.73	1.93	68.20
Peridinium cerasus	0.00	1.29	1.70	0.79	1.89	70.09
Thalassionema nitzschoides	1.37	0.10	1.57	0.81	1.75	71.84
Chlymentomonas sp.	0.00	1.07	1.46	0.85	1.62	73.46
Rhizosolenia setigera	1.05	0.28	1.34	0.87	1.49	74.96
Peridinium sp.	1.19	0.00	1.21	0.66	1.35	76.31
Unknown diatom sp. A	0.97	0.00	1.21	0.58	1.34	77.65
Gymnodinium splendens	0.00	0.87	1.15	0.54	1.27	78.92
Navicula sp. large	0.96	0.00	1.10	0.68	1.22	80.15
Eutreptiella sp.	0.20	0.70	1.04	0.78	1.15	81.30
Leptocylicus danicus	0.82	0.00	1.00	0.57	1.11	82.41
Gymnodinium simplex	0.00	0.71	0.93	0.68	1.04	83.45
Prorocentrum micans	0.54	0.39	0.91	0.71	1.01	84.46
Chroococcus minutus	0.00	0.67	0.89	0.44	0.98	85.44
Unknown flagellate sp. 1	0.00	0.66	0.86	0.66	0.96	86.41

Prorocentrum sp.	0.79	0.00	0.82	0.47	0.91	87.32
Chaetoceros gracile	0.60	0.00	0.81	0.27	0.90	88.22
Cyclotella sp.	0.00	0.56	0.72	0.62	0.80	89.01
Gonyaulax palustre	0.00	0.54	0.70	0.62	0.77	89.79
Calycomonas ovalis	0.00	0.53	0.69	0.50	0.77	90.55

Groups ALASFC & PR3

Average dissimilarity = 90.49

Species	Group ALASFC Av.Abund	Group PR3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	12.25	1.77	13.53	13.53
Unknown diatom sp. D	8.36	0.00	9.12	3.71	10.08	23.61
Unknown Cryptophyte sp.	7.43	0.00	8.79	7.94	9.72	33.33
Thalassiosira sp.	4.72	0.00	5.70	4.91	6.30	39.62
Unknown diatom sp.	4.70	0.00	5.42	13.85	5.99	45.62
Nitzschia closterium	4.12	0.10	5.02	2.89	5.55	51.17
Pyramimonas sp.	3.83	0.00	4.60	5.38	5.09	56.26
Synechocystis aquaticus Sauvageau	0.00	2.83	3.43	1.51	3.79	60.05
Cryptomonas sp.1	0.00	2.70	3.26	1.91	3.60	63.65
Chaetoceros sp.	3.08	0.00	2.89	0.99	3.19	66.85
Skeletonema costatum	5.96	3.69	2.65	1.07	2.93	69.77
Gymnodinium sp.	2.63	0.00	2.46	0.99	2.72	72.49
Nitzschia pungens	2.29	0.07	2.16	1.01	2.39	74.89
Leptocylindricus minimum	1.88	0.00	1.76	0.99	1.95	76.84
Peridinium cerasus	0.00	1.29	1.55	0.79	1.71	78.55
Prorocentrum sp.	1.50	0.00	1.40	0.99	1.55	80.10
Peridinium sp.	1.50	0.00	1.40	0.99	1.55	81.65
Chlymentomonas sp.	0.00	1.07	1.33	0.85	1.47	83.11
Rhizosolenia setigera	1.26	0.28	1.25	1.07	1.38	84.49
Navicula sp. large	1.26	0.00	1.18	0.99	1.30	85.80
Leptocylindricus danicus	1.26	0.00	1.18	0.99	1.30	87.10
Gymnodinium splendens	0.00	0.87	1.05	0.53	1.15	88.26
Gymnodinium simplex	0.00	0.71	0.85	0.67	0.94	89.19
Eutreptiella sp.	0.00	0.70	0.81	0.74	0.89	90.09

Groups LMR0 & PR3

Average dissimilarity = 91.33

Species	Group LMR0 Av.Abund	Group PR3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
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Skeletonema costatum	3.27	3.69	7.78	1.25	8.52	8.52
Synechocystis aquaticus Sauvageau	0.00	2.83	6.64	1.52	7.27	15.79
Cryptomonas sp.1	0.00	2.70	6.30	1.81	6.90	22.69
Unknown pennate diatom sp.	2.07	0.00	4.76	1.72	5.21	27.90
Cyclotella sp.	1.76	0.56	4.13	0.88	4.53	32.42
Cyclotella sp. (small)	1.79	0.00	3.87	0.71	4.24	36.66
Cyclotella sp. (large)	1.45	0.00	3.01	0.59	3.29	39.95
Peridinium cerasus	0.00	1.29	2.99	0.75	3.27	43.22
Chlymentomonas sp.	0.00	1.07	2.62	0.81	2.87	46.09
Scenedesmus quadricauda	1.15	0.00	2.44	1.09	2.67	48.77
Gymnodinium sp.	1.01	0.00	2.27	1.00	2.48	51.25
Schroederia setigera	1.04	0.00	2.18	1.06	2.39	53.64
Thalassiosira pseudonana	1.05	0.00	2.15	0.56	2.35	55.99
Eutreptia sp.	0.88	0.00	2.02	0.97	2.21	58.20
Gymnodinium splendens	0.00	0.87	2.00	0.52	2.19	60.40
Scenedesmus bijinga	0.90	0.00	1.91	0.84	2.09	62.49
Thalassiosira decipiens	0.91	0.00	1.81	0.49	1.98	64.47
Gymnodinium simplex	0.00	0.71	1.62	0.68	1.77	66.24
Nitzschia longissima	0.78	0.00	1.61	0.95	1.77	68.00
Chroococcus minutus	0.00	0.67	1.55	0.43	1.70	69.70
Unknown flagellate sp. 1	0.00	0.66	1.51	0.66	1.65	71.36
Eutreptiella sp.	0.00	0.70	1.50	0.75	1.64	73.00
Chaetoceros subtilis	0.44	0.35	1.42	0.65	1.56	74.56
Akistrodesmus falcatus	0.64	0.00	1.38	0.68	1.51	76.06
Gonyaulax palustre	0.00	0.54	1.19	0.62	1.30	77.36
Calycomonas ovalis	0.00	0.53	1.18	0.50	1.29	78.65
Spermatozoopsis exultans	0.00	0.51	1.11	0.62	1.22	79.87
Ceratium hircus	0.00	0.40	1.05	0.42	1.15	81.02
Bluegreen filamentous sp.	0.41	0.00	0.97	0.61	1.06	82.09
Cryptomonas erosa	0.00	0.45	0.97	0.56	1.06	83.15
Prorocentrum micans	0.00	0.39	0.86	0.50	0.94	84.09
Melosira sp.	0.36	0.00	0.81	0.50	0.88	84.97
Cyclotella meneghiniana	0.40	0.00	0.73	0.28	0.80	85.77
Cryptomonas ovata	0.00	0.29	0.69	0.43	0.76	86.53
Merismopedia punctata	0.29	0.00	0.69	0.39	0.75	87.28
Scenedesmus acutus	0.34	0.00	0.69	0.40	0.75	88.03
Crucigenia sp.	0.22	0.00	0.68	0.51	0.74	88.78
Pleurosigma sp.	0.24	0.00	0.63	0.50	0.69	89.46
Rhizosolenia setigera	0.00	0.28	0.60	0.42	0.66	90.12

Groups LMR12 & PR3

Average dissimilarity = 83.91

Species	Group LMR12 Av.Abund	Group PR3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	2.83	6.82	1.55	8.13	8.13
Cryptomonas sp.1	0.00	2.70	6.48	1.86	7.72	15.85
Chaetoceros subtilis	2.19	0.35	5.36	1.17	6.38	22.23
Skeletonema costatum	3.94	3.69	4.65	1.12	5.54	27.76
Peridinium cerasus	0.00	1.29	3.07	0.75	3.66	31.42
Peridinium aciculiferum	1.12	0.00	2.87	0.86	3.42	34.84
Chlymentomonas sp.	0.00	1.07	2.70	0.82	3.21	38.06
Schizothrix sp.	1.06	0.00	2.07	0.57	2.46	40.52
Gymnodinium splendens	0.00	0.87	2.06	0.52	2.45	42.97
Thalassiosira pseudonana	0.90	0.00	2.00	0.83	2.39	45.36
Thalassiosira sp.	0.84	0.00	1.93	0.71	2.30	47.66
Cyclotella sp.	0.45	0.56	1.75	0.79	2.08	49.74
Nitzschia closterium	0.79	0.10	1.73	0.91	2.06	51.80
Gymnodinium simplex	0.00	0.71	1.66	0.69	1.98	53.78
Nitzschia longissima	0.75	0.00	1.66	0.94	1.97	55.75
Unknown pennate diatom sp.	0.75	0.00	1.63	0.87	1.94	57.69
Chroococcus minutus	0.00	0.67	1.59	0.44	1.90	59.59
Unknown flagellate sp. 1	0.00	0.66	1.55	0.67	1.85	61.44
Leptocylindricus minimum	0.80	0.00	1.54	0.69	1.84	63.27
Eutreptiella sp.	0.00	0.70	1.54	0.76	1.83	65.11
Chaetoceros socialis	0.70	0.00	1.51	0.77	1.80	66.91
Ceratium hircus	0.22	0.40	1.37	0.51	1.63	68.54
Schroederia setigera	0.53	0.00	1.30	0.62	1.55	70.09
Eutreptia sp.	0.58	0.00	1.23	0.76	1.47	71.56
Gonyaulax palustre	0.00	0.54	1.22	0.63	1.45	73.01
Calycomonas ovalis	0.00	0.53	1.21	0.50	1.44	74.45
Prorocentrum micans	0.24	0.39	1.16	0.63	1.38	75.83
Spermatozoopsis exultans	0.00	0.51	1.14	0.62	1.36	77.20
Rhizosolenia setigera	0.28	0.28	1.03	0.64	1.23	78.42
Nitzschia pungens	0.45	0.07	1.02	0.59	1.22	79.64
Cryptomonas erosa	0.00	0.45	1.00	0.56	1.19	80.83
Cyclotella sp. (small)	0.35	0.00	0.90	0.33	1.07	81.90
Gymnodinium sp.	0.37	0.00	0.87	0.54	1.04	82.94
Ceratulina bergonii	0.40	0.00	0.85	0.44	1.01	83.96
Thalassionema nitzschoides	0.32	0.10	0.79	0.50	0.95	84.90
Prorocentrum minimum	0.38	0.00	0.78	0.55	0.93	85.83
Chaetoceros neogracile	0.39	0.00	0.75	0.55	0.90	86.73
Cryptomonas ovata	0.00	0.29	0.71	0.44	0.85	87.58
Gonyaulax monilata	0.33	0.00	0.71	0.48	0.84	88.42
Scrippsiella sp.	0.29	0.00	0.60	0.48	0.72	89.14

Chaetoceros decipiens	0.09	0.17	0.55	0.37	0.66	89.80
Gonyaulax polygramma	0.21	0.00	0.55	0.40	0.66	90.46

Groups LMR6 & PR3

Average dissimilarity = 85.43

Species	Group LMR6 Av.Abund	Group PR3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	2.83	6.28	1.63	7.35	7.35
Cryptomonas sp.1	0.00	2.70	5.97	2.02	6.99	14.34
Chaetoceros subtilis	2.80	0.35	5.74	1.50	6.72	21.06
Skeletonema costatum	4.06	3.69	4.48	1.33	5.24	26.30
Cyclotella sp. (small)	1.40	0.00	3.05	0.68	3.57	29.86
Peridinium cerasus	0.00	1.29	2.83	0.78	3.31	33.18
Schroederia setigera	1.25	0.00	2.69	1.46	3.15	36.33
Thalassiosira pseudonana	1.15	0.00	2.53	0.70	2.96	39.29
Chlymentomonas sp.	0.00	1.07	2.47	0.86	2.89	42.18
Peridinium aciculiferum	1.07	0.00	2.46	0.72	2.88	45.05
Cyclotella sp.	0.79	0.56	2.27	0.79	2.66	47.72
Gymnodinium sp.	1.06	0.00	2.25	0.83	2.63	50.35
Nitzschia longissima	0.91	0.00	2.09	1.23	2.44	52.79
Gymnodinium splendens	0.00	0.87	1.90	0.54	2.22	55.01
Schizothrix sp.	0.71	0.00	1.67	0.47	1.96	56.97
Unknown pennate diatom sp.	0.72	0.00	1.61	0.73	1.88	58.85
Scenedesmus quadracauda	0.73	0.00	1.58	0.82	1.85	60.70
Gymnodinium simplex	0.00	0.71	1.53	0.70	1.80	62.50
Chroococcus minutus	0.00	0.67	1.47	0.44	1.72	64.22
Unknown flagellate sp. 1	0.00	0.66	1.43	0.68	1.68	65.89
Eutreptiella sp.	0.00	0.70	1.43	0.77	1.68	67.57
Thalassiosira decipiens	0.59	0.00	1.27	0.74	1.49	69.06
Gonyaulax polygramma	0.53	0.00	1.20	0.68	1.41	70.47
Gonyaulax palustre	0.00	0.54	1.13	0.64	1.32	71.79
Calycomonas ovalis	0.00	0.53	1.12	0.51	1.32	73.11
Spermatozoopsis exultans	0.00	0.51	1.06	0.64	1.24	74.35
Ceratium hircus	0.00	0.40	0.98	0.44	1.15	75.50
Nitzschia closterium	0.40	0.10	0.97	0.66	1.14	76.64
Akistrodesmus falcatus	0.46	0.00	0.95	0.57	1.11	77.75
Scenedesmus bijinga	0.43	0.00	0.93	0.50	1.09	78.84
Cryptomonas erosa	0.00	0.45	0.93	0.57	1.08	79.92
Eutreptia sp.	0.42	0.00	0.90	0.59	1.05	80.98
Euglena sp.	0.38	0.00	0.86	0.50	1.00	81.98
Prorocentrum micans	0.00	0.39	0.82	0.51	0.96	82.93

Peridinium sp.	0.41	0.00	0.81	0.56	0.95	83.89
Rhizosolenia setigera	0.06	0.28	0.67	0.49	0.78	84.67
Cryptomonas ovata	0.00	0.29	0.66	0.44	0.77	85.43
Thalassiosira sp.	0.31	0.00	0.62	0.48	0.73	86.16
Nitzschia pungens	0.21	0.07	0.59	0.47	0.70	86.86
Merismopedia punctata	0.23	0.00	0.59	0.33	0.69	87.55
Prorocentrum minimum	0.29	0.00	0.58	0.50	0.68	88.23
Leptocylindricus minimum	0.29	0.00	0.56	0.40	0.65	88.88
Nostoc sp.(trichomes)	0.21	0.00	0.53	0.42	0.62	89.51
Scrippsiella sp.	0.18	0.00	0.42	0.33	0.49	89.99
Leptocylindricus danicus	0.20	0.00	0.40	0.33	0.47	90.47

Groups LMRRUSK & PR3

Average dissimilarity = 85.66

Species	Group LMRRUSK Av.Abund	Group PR3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.90	3.69	7.06	1.14	8.24	8.24
Synechocystis aquaticus Sauvageau	0.00	2.83	5.99	1.51	7.00	15.24
Cryptomonas sp.1	0.00	2.70	5.69	1.82	6.65	21.88
Prorocentrum minimum	1.59	0.00	3.07	0.98	3.59	25.47
Thalassiosira pseudonana	1.56	0.00	2.97	0.83	3.47	28.94
Eutreptia sp.	1.43	0.00	2.79	0.99	3.25	32.19
Peridinium cerasus	0.00	1.29	2.70	0.75	3.15	35.34
Thalassiosira sp.	1.38	0.00	2.69	0.66	3.14	38.48
Chlymentomonas sp.	0.00	1.07	2.36	0.82	2.75	41.24
Cyclotella sp.	0.83	0.56	2.13	0.77	2.48	43.72
Chaetoceros subtilis	0.83	0.35	1.93	0.80	2.25	45.97
Gymnodinium splendens	0.00	0.87	1.81	0.52	2.12	48.09
Schroederia setigera	0.82	0.00	1.74	0.88	2.03	50.12
Peridinium aciculiferum	0.84	0.00	1.67	0.83	1.94	52.06
Unknown pennate diatom sp.	0.81	0.00	1.57	0.69	1.84	53.90
Thalassiosira decipiens	0.84	0.00	1.55	0.78	1.81	55.71
Nitzschia longissima	0.74	0.00	1.47	0.97	1.72	57.43
Gymnodinium simplex	0.00	0.71	1.46	0.68	1.71	59.14
Chroococcus minutus	0.00	0.67	1.40	0.43	1.64	60.77
Unknown flagellate sp. 1	0.00	0.66	1.37	0.66	1.59	62.37
Eutreptiella sp.	0.00	0.70	1.37	0.75	1.59	63.96
Leptocylindricus minimum	0.75	0.00	1.33	0.57	1.55	65.51
Euglena sp.	0.69	0.00	1.30	0.45	1.51	67.02
Scrippsiella sp.	0.59	0.00	1.25	0.64	1.46	68.49
Nitzschia closterium	0.62	0.10	1.20	0.92	1.40	69.89

Ceratulina bergonii	0.53	0.00	1.16	0.42	1.35	71.24
Gonyaulax palustre	0.00	0.54	1.08	0.62	1.26	72.50
Calycomonas ovalis	0.00	0.53	1.07	0.50	1.25	73.75
Merismopedia punctata	0.54	0.00	1.05	0.45	1.23	74.98
Spermatozoopsis exultans	0.00	0.51	1.01	0.62	1.18	76.16
Ceratium hircus	0.08	0.40	1.00	0.45	1.17	77.34
Gymnodinium sp.	0.53	0.00	0.97	0.71	1.14	78.47
Prorocentrum micans	0.13	0.39	0.92	0.59	1.07	79.54
Schizothrix sp.	0.49	0.00	0.90	0.43	1.05	80.59
Cryptomonas erosa	0.00	0.45	0.88	0.56	1.03	81.63
Scenedesmus quadricauda	0.46	0.00	0.85	0.48	0.99	82.62
Akistrodesmus falcatus	0.43	0.00	0.82	0.54	0.96	83.58
Rhizosolenia setigera	0.16	0.28	0.76	0.51	0.89	84.47
Crucigenia sp.	0.38	0.00	0.73	0.47	0.85	85.32
Chaetoceros neogracile	0.31	0.00	0.67	0.51	0.78	86.10
Thalassionema nitzschoides	0.20	0.10	0.64	0.39	0.74	86.84
Cryptomonas ovata	0.00	0.29	0.63	0.43	0.73	87.57
Pyramimonas sp.	0.33	0.00	0.62	0.35	0.73	88.30
Nostoc sp.(trichomes)	0.27	0.00	0.55	0.42	0.64	88.95
Peridinium sp.	0.31	0.00	0.52	0.55	0.61	89.56
Scenedesmus bijinga	0.28	0.00	0.50	0.43	0.58	90.14

Groups LMRTB & PR3

Average dissimilarity = 88.34

Species	Group LMRTB Av.Abund	Group PR3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.07	3.69	6.95	1.26	7.87	7.87
Synechocystis aquaticus Sauvageau	0.00	2.83	5.87	1.35	6.64	14.51
Cryptomonas sp.1	0.00	2.70	5.58	1.57	6.31	20.83
Schizothrix sp.	2.14	0.00	3.73	0.69	4.22	25.04
Thalassionema nitzschoides	1.63	0.10	3.31	0.71	3.75	28.79
Ceratulina bergonii	1.39	0.00	2.73	0.77	3.09	31.88
Peridinium cerasus	0.00	1.29	2.64	0.70	2.99	34.87
Leptocylicus minimum	1.63	0.00	2.49	1.12	2.82	37.69
Chlymentomonas sp.	0.00	1.07	2.31	0.76	2.62	40.31
Nitzschia closterium	1.37	0.10	2.19	0.83	2.47	42.79
Chaetoceros socialis	1.47	0.00	2.18	0.82	2.47	45.25
Chaetoceros neogracile	1.24	0.00	2.10	0.87	2.37	47.62
Unknown pennate diatom sp.	1.09	0.00	2.06	0.85	2.33	49.95
Prorocentrum micans	0.97	0.39	1.91	1.02	2.16	52.11
Rhizosolenia setigera	0.93	0.28	1.80	0.86	2.04	54.15

Gymnodinium splendens	0.00	0.87	1.77	0.50	2.01	56.16
Nitzschia pungens	1.11	0.07	1.75	0.74	1.98	58.14
Ceratium hircus	0.73	0.40	1.67	0.75	1.89	60.03
Thalassiosira sp.	0.93	0.00	1.60	0.64	1.81	61.84
Gymnodinium simplex	0.00	0.71	1.43	0.65	1.62	63.46
Asterionella glacialis	0.87	0.13	1.40	0.72	1.58	65.04
Chaetoceros compressum	0.87	0.12	1.38	0.74	1.56	66.60
Chroococcus minutus	0.00	0.67	1.37	0.42	1.55	68.16
Unknown flagellate sp. 1	0.00	0.66	1.34	0.63	1.51	69.67
Eutreptiella sp.	0.00	0.70	1.33	0.71	1.51	71.18
Chaetoceros subtilis	0.59	0.35	1.24	0.65	1.41	72.59
Thalassiosira decipiens	0.64	0.00	1.21	0.60	1.37	73.96
Chaetoceros sp.	0.56	0.00	1.17	0.34	1.32	75.28
Prorocentrum minimum	0.72	0.00	1.08	0.94	1.23	76.50
Cyclotella sp.	0.00	0.56	1.08	0.59	1.23	77.73
Gonyaulax palustre	0.00	0.54	1.05	0.60	1.19	78.92
Calycomonas ovalis	0.00	0.53	1.05	0.48	1.18	80.11
Spermatozoopsis exultans	0.00	0.51	0.99	0.59	1.12	81.22
Nitzschia longissima	0.64	0.00	0.95	0.87	1.08	82.30
Peridinium sp.	0.41	0.00	0.88	0.54	0.99	83.29
Cryptomonas erosa	0.00	0.45	0.86	0.54	0.98	84.27
Melosira sp.	0.26	0.00	0.81	0.33	0.91	85.18
Leptocylindricus danicus	0.46	0.00	0.69	0.59	0.78	85.97
Amphora sp.	0.41	0.00	0.67	0.44	0.76	86.73
Cryptomonas ovata	0.00	0.29	0.61	0.41	0.69	87.42
Chaetoceros curvisetus	0.43	0.00	0.52	0.33	0.59	88.01
Thalassiosira pseudonana	0.37	0.00	0.51	0.39	0.58	88.59
Gonyaulax polygramma	0.22	0.00	0.51	0.35	0.57	89.16
Pleurosigma sp.	0.27	0.00	0.50	0.47	0.56	89.73
Chaetoceros lorenzianum	0.32	0.00	0.48	0.43	0.54	90.26

Groups LMR18 & PR3

Average dissimilarity = 83.91

Species	Group LMR18 Av.Abund	Group PR3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	2.83	7.09	1.56	8.45	8.45
Cryptomonas sp.1	0.00	2.70	6.73	1.87	8.03	16.48
Skeletonema costatum	4.09	3.69	5.35	1.15	6.38	22.85
Nitzschia closterium	1.55	0.10	3.44	1.46	4.10	26.95
Peridinium cerasus	0.00	1.29	3.19	0.75	3.80	30.76
Chlymentomonas sp.	0.00	1.07	2.81	0.82	3.35	34.10

Chaetoceros subtilis	0.83	0.35	2.57	0.73	3.06	37.16
Chaetoceros socialis	0.99	0.00	2.17	0.88	2.58	39.75
Peridinium aciculiferum	0.79	0.00	2.14	0.79	2.55	42.30
Gymnodinium splendens	0.00	0.87	2.14	0.52	2.55	44.85
Leptocylindricus minimum	0.93	0.00	2.14	0.87	2.55	47.40
Unknown pennate diatom sp.	0.84	0.00	1.83	0.80	2.18	49.58
Gymnodinium simplex	0.00	0.71	1.72	0.69	2.05	51.63
Chroococcus minutus	0.00	0.67	1.66	0.44	1.97	53.60
Rhizosolenia setigera	0.54	0.28	1.61	0.78	1.92	55.53
Unknown flagellate sp. 1	0.00	0.66	1.61	0.67	1.92	57.45
Eutreptiella sp.	0.00	0.70	1.59	0.76	1.90	59.35
Schizothrix sp.	0.67	0.00	1.58	0.43	1.88	61.23
Ceratulina bergonii	0.59	0.00	1.56	0.43	1.86	63.09
Cyclotella sp.	0.17	0.56	1.50	0.71	1.79	64.88
Chaetoceros neogracile	0.63	0.00	1.43	0.63	1.71	66.59
Ceratium hircus	0.14	0.40	1.31	0.50	1.56	68.16
Thalassionema nitzschoides	0.48	0.10	1.27	0.61	1.52	69.67
Gonyaulax palustre	0.00	0.54	1.26	0.63	1.50	71.17
Nitzschia longissima	0.53	0.00	1.26	0.81	1.50	72.68
Prorocentrum micans	0.25	0.39	1.26	0.63	1.50	74.17
Calycomonas ovalis	0.00	0.53	1.26	0.50	1.50	75.67
Spermatozoopsis exultans	0.00	0.51	1.18	0.63	1.41	77.08
Thalassiosira pseudonana	0.51	0.00	1.05	0.65	1.25	78.33
Cryptomonas erosa	0.00	0.45	1.03	0.56	1.23	79.57
Asterionella glacialis	0.35	0.13	0.99	0.51	1.18	80.74
Chaetoceros compressum	0.31	0.12	0.96	0.50	1.14	81.88
Thalassiosira sp.	0.36	0.00	0.92	0.39	1.10	82.98
Nitzschia pungens	0.30	0.07	0.78	0.46	0.93	83.91
Peridinium sp.	0.32	0.00	0.78	0.42	0.93	84.84
Cryptomonas ovata	0.00	0.29	0.74	0.44	0.88	85.73
Prorocentrum minimum	0.35	0.00	0.72	0.55	0.86	86.59
Gonyaulax polygramma	0.27	0.00	0.70	0.42	0.83	87.42
Eutreptia sp.	0.31	0.00	0.68	0.49	0.81	88.23
Gymnodinium sp.	0.30	0.00	0.68	0.48	0.81	89.04
Euglena sp.	0.26	0.00	0.51	0.34	0.61	89.65
Biddulphia sinensis	0.00	0.19	0.45	0.29	0.54	90.18

Groups PR1 & PR3

Average dissimilarity = 66.27

Species	Group PR1 Av.Abund	Group PR3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
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Skeletonema costatum	1.15	3.69	6.40	1.47	9.66	9.66
Scenedesmus quadricauda v. Westii	2.19	0.13	4.45	1.33	6.71	16.37
Synechocystis aquaticus Sauvageau	3.49	2.83	4.45	1.16	6.71	23.08
Spermatozoopsis exultans	1.79	0.51	3.37	1.19	5.08	28.17
Gonyaulax palustre	1.82	0.54	3.31	1.38	4.99	33.16
Cryptomonas erosa	1.46	0.45	2.79	1.20	4.21	37.37
Peridinium cerasus	0.00	1.29	2.68	0.78	4.05	41.42
Chlymentomonas sp.	1.14	1.07	2.66	1.07	4.01	45.43
Cryptomonas sp.1	3.26	2.70	2.65	1.10	4.00	49.43
Cryptomonas ovata	1.01	0.29	2.20	0.94	3.33	52.76
Chroococcus minutus	0.56	0.67	2.07	0.61	3.13	55.88
Eutreptiella sp.	0.80	0.70	1.92	1.03	2.90	58.78
Coelosphaerium sp.	0.90	0.11	1.90	0.63	2.87	61.65
Gymnodinium splendens	0.12	0.87	1.89	0.57	2.85	64.50
Unknown flagellate sp. 1	0.56	0.66	1.87	0.89	2.82	67.33
Cyclotella sp.	0.73	0.56	1.85	0.89	2.79	70.12
Gymnodinium simplex	0.20	0.71	1.59	0.80	2.40	72.52
Nitzschia palea	0.70	0.11	1.40	0.88	2.12	74.64
Calycomonas ovalis	0.05	0.53	1.11	0.53	1.68	76.32
Chaetoceros subtilis	0.16	0.35	0.94	0.47	1.41	77.73
Ceratium hircus	0.00	0.40	0.93	0.44	1.40	79.13
Cyclotella undulata	0.37	0.05	0.86	0.33	1.30	80.43
Prorocentrum micans	0.00	0.39	0.78	0.51	1.17	81.61
Euglena acus	0.35	0.05	0.75	0.38	1.14	82.74
Scenedesmus abundans v. brevicauda	0.35	0.00	0.61	0.37	0.92	83.67
Merismopedia glauca	0.32	0.00	0.57	0.37	0.86	84.52
Merismopedia sp.	0.20	0.13	0.57	0.35	0.85	85.38
Nitzschia fruticosa	0.30	0.00	0.56	0.36	0.85	86.23
Rhizosolenia setigera	0.00	0.28	0.55	0.43	0.83	87.06
Oscillatoria rubescens (trichome)	0.15	0.16	0.54	0.42	0.82	87.88
Stephanodiscus sp.	0.26	0.00	0.51	0.34	0.78	88.65
Euglena sp.	0.21	0.00	0.48	0.21	0.72	89.37
Spirulina sp.1	0.24	0.00	0.44	0.35	0.67	90.04

Groups PR2 & PR3

Average dissimilarity = 57.40

Species	Group PR2 Av.Abund	Group PR3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	2.70	2.83	4.41	1.19	7.69	7.69
Skeletonema costatum	3.82	3.69	4.37	1.05	7.62	15.31
Gymnodinium splendens	1.01	0.87	3.30	0.79	5.75	21.06

Cryptomonas sp.1	3.26	2.70	3.22	1.10	5.61	26.67
Peridinium cerasus	0.53	1.29	3.05	0.87	5.32	31.99
Chlymentomonas sp.	0.90	1.07	2.72	1.02	4.74	36.72
Chroococcus minutus	0.72	0.67	2.57	0.62	4.48	41.21
Cryptomonas ovata	1.21	0.29	2.54	1.16	4.42	45.63
Eutreptiella sp.	0.86	0.70	2.28	0.94	3.97	49.59
Spermatozoopsis exultans	1.02	0.51	2.20	1.08	3.82	53.42
Gonyaulax palustre	0.89	0.54	2.17	1.02	3.78	57.20
Gymnodinium simplex	0.52	0.71	2.01	0.92	3.51	60.71
Cyclotella sp.	0.54	0.56	1.83	0.82	3.19	63.90
Unknown flagellate sp. 1	0.34	0.66	1.72	0.81	2.99	66.89
Calycomonas ovalis	0.37	0.53	1.67	0.63	2.91	69.80
Cryptomonas erosa	0.54	0.45	1.56	0.86	2.72	72.52
Ceratium hircus	0.36	0.40	1.49	0.62	2.59	75.11
Scenedesmus quadricauda v. Westii	0.63	0.13	1.40	0.74	2.44	77.55
Chaetoceros subtilis	0.31	0.35	1.24	0.59	2.16	79.71
Prorocentrum micans	0.05	0.39	0.89	0.54	1.55	81.27
Coelosphaerium sp.	0.31	0.11	0.80	0.42	1.40	82.67
Chaetoceros decipiens	0.19	0.17	0.74	0.41	1.29	83.96
Cyclotella undulata	0.30	0.05	0.73	0.40	1.27	85.23
Rhizosolenia setigera	0.05	0.28	0.66	0.48	1.15	86.38
Oscillatoria rubescens (trichome)	0.18	0.16	0.63	0.41	1.09	87.48
Biddulphia sinensis	0.11	0.19	0.62	0.40	1.08	88.55
Chaetoceros compressum	0.16	0.12	0.59	0.32	1.04	89.59
Rhizosolenia stolterfothii	0.13	0.15	0.59	0.30	1.02	90.61

Groups ALA0 & PR4

Average dissimilarity = 98.27

Species	Group ALA0 Av.Abund	Group PR4 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	9.29	1.62	9.46	9.46
Skeletonema costatum	0.16	3.45	6.67	1.59	6.79	16.24
Unknown diatom sp.	3.09	0.00	5.90	2.52	6.00	22.25
Synechocystis aquaticus Sauvageau	0.00	2.99	5.81	1.48	5.91	28.16
Cryptomonas sp.1	0.00	2.59	5.09	2.22	5.18	33.34
Unknown diatom sp. D	2.34	0.00	4.37	1.60	4.44	37.78
Thalassiosira sp.	2.01	0.00	3.82	1.97	3.89	41.67
Prorocentrum micans	1.61	0.33	3.54	0.63	3.61	45.28
Unknown Dinoflagellate sp.	1.73	0.00	3.40	0.99	3.46	48.74
Scenedesmus sp.	1.47	0.00	2.65	1.16	2.69	51.43
Navicula sp. small	1.23	0.00	2.42	0.86	2.46	53.89

Gymnodinium simplex	0.00	1.01	1.98	0.89	2.02	55.91
Ceratium hircus	0.00	0.97	1.88	0.63	1.91	57.82
Peridinium cerasus	0.00	0.87	1.65	0.75	1.68	59.50
Eutreptiella sp.	0.35	0.69	1.65	0.85	1.67	61.18
Nitzschia pungens	0.80	0.26	1.64	0.88	1.66	62.84
Coscinodiscus sp.	0.83	0.00	1.62	0.58	1.64	64.49
Unknown bluegreen sp.	0.83	0.00	1.61	0.90	1.64	66.13
Pyramimonas sp.	0.84	0.00	1.51	0.84	1.54	67.67
Chlymentomonas sp.	0.00	0.80	1.48	0.82	1.51	69.18
Rhizosolenia setigera	0.00	0.73	1.40	0.60	1.42	70.60
Tetraedron sp.	0.82	0.00	1.39	0.75	1.42	72.01
Navicula sp. large	0.66	0.00	1.38	0.65	1.40	73.42
Akistrodesmus sp.	0.76	0.00	1.29	0.58	1.31	74.73
Thalassionema nitzschoides	0.35	0.38	1.20	0.57	1.22	75.95
Leptocylicus minimum	0.61	0.00	1.16	0.66	1.18	77.13
Nitzschia sp.	0.38	0.19	1.06	0.48	1.08	78.21
Biddulphia sinensis	0.00	0.57	1.04	0.59	1.05	79.26
Chroococcus minutus	0.00	0.47	0.99	0.35	1.00	80.27
Chaetoceros compressum	0.00	0.49	0.91	0.49	0.93	81.20
Prorocentrum sp.	0.45	0.00	0.86	0.38	0.88	82.08
Calycomonas ovalis	0.00	0.41	0.77	0.48	0.79	82.86
Eutreptia sp.	0.37	0.00	0.73	0.36	0.75	83.61
Prorocentrum redfieldi	0.40	0.00	0.70	0.36	0.71	84.32
Chaetoceros subtilis	0.00	0.35	0.67	0.49	0.68	85.00
Chaetoceros decipiens	0.00	0.33	0.64	0.44	0.65	85.64
Amphidinium crassum	0.00	0.37	0.64	0.44	0.65	86.29
Unknown flagellate sp. 1	0.00	0.34	0.63	0.57	0.64	86.93
Spermatozoopsis exultans	0.00	0.34	0.61	0.44	0.62	87.56
Leptocylicus danicus	0.27	0.00	0.60	0.39	0.61	88.17
Aphanocapsa sp.	0.36	0.00	0.57	0.39	0.58	88.74
Oscillatoria sp.	0.32	0.00	0.52	0.39	0.53	89.27
Cryptomonas ovata	0.00	0.23	0.50	0.35	0.51	89.78
Chroococcus sp.	0.32	0.00	0.50	0.38	0.50	90.28

Groups ALA12 & PR4

Average dissimilarity = 92.97

Species	Group ALA12 Av.Abund	Group PR4 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.23	0.00	10.22	1.79	11.00	11.00
Unknown Cryptophyte sp.	6.15	0.00	8.95	2.71	9.62	20.62
Thalassiosira sp.	3.70	0.00	5.32	0.97	5.73	26.35

Skeletonema costatum	4.12	3.45	4.98	1.16	5.35	31.70
Unknown diatom sp.	3.44	0.00	4.90	1.80	5.27	36.97
Unknown Dinoflagellate sp.	3.25	0.00	4.70	1.23	5.06	42.03
Synechocystis aquaticus Sauvageau	0.00	2.99	4.43	1.47	4.77	46.80
Cryptomonas sp.1	0.00	2.59	3.88	2.20	4.17	50.97
Eutreptia sp.	1.93	0.00	2.72	0.62	2.92	53.89
Prorocentrum minimum	1.70	0.00	2.54	0.36	2.74	56.63
Pyramimonas sp.	1.87	0.00	2.48	1.03	2.67	59.30
Chaetoceros sp.	1.55	0.00	2.12	0.74	2.28	61.58
Skeletonema menezelli	1.67	0.00	2.05	0.39	2.21	63.78
Prorocentrum sp.	1.24	0.00	2.02	0.42	2.18	65.96
Peridinium sp.	1.64	0.00	1.99	0.65	2.14	68.10
Ceratium hircus	0.44	0.97	1.82	0.75	1.95	70.05
Gymnodinium simplex	0.00	1.01	1.51	0.88	1.62	71.67
Prorocentrum micans	0.57	0.33	1.37	0.48	1.47	73.15
Rhizosolenia setigera	0.34	0.73	1.29	0.72	1.39	74.54
Peridinium cerasus	0.00	0.87	1.27	0.75	1.37	75.90
Chlymentomonas sp.	0.00	0.80	1.14	0.81	1.23	77.13
Eutreptiella sp.	0.17	0.69	1.12	0.78	1.21	78.34
Nitzschia pungens	0.54	0.26	0.99	0.62	1.07	79.41
Coscinodiscus sp.	0.63	0.00	0.98	0.49	1.05	80.46
Nitzschia closterium	0.77	0.00	0.97	0.59	1.04	81.50
Unknown Katodinium sp.	0.46	0.00	0.89	0.27	0.96	82.46
Biddulphia sinensis	0.00	0.57	0.80	0.59	0.86	83.33
Leptocylindricus minimum	0.54	0.00	0.74	0.50	0.80	84.13
Chroococcus minutus	0.00	0.47	0.74	0.35	0.80	84.92
Chaetoceros compressum	0.00	0.49	0.70	0.49	0.76	85.68
Calycomonas ovalis	0.00	0.41	0.59	0.48	0.64	86.32
Chaetoceros gracile	0.35	0.00	0.58	0.27	0.62	86.94
Thalassionema nitzschoides	0.00	0.38	0.56	0.35	0.60	87.54
Chaetoceros subtilis	0.00	0.35	0.51	0.49	0.55	88.09
Amphidinium crassum	0.00	0.37	0.50	0.44	0.54	88.63
Chaetoceros decipiens	0.00	0.33	0.49	0.43	0.52	89.15
Glenodinium sp.	0.39	0.00	0.49	0.27	0.52	89.67
Unknown flagellate sp. 1	0.00	0.34	0.49	0.57	0.52	90.20

Groups ALA18 & PR4

Average dissimilarity = 93.59

Species	Group ALA18 Av.Abund	Group PR4 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.76	0.00	10.15	2.30	10.84	10.84

Unknown Cryptophyte sp.	5.78	0.00	8.46	2.35	9.04	19.88
Skeletonema costatum	4.35	3.45	5.78	1.28	6.17	26.06
Thalassiosira sp.	3.84	0.00	5.00	1.32	5.34	31.40
Unknown Dinoflagellate sp.	2.82	0.00	4.51	1.12	4.82	36.22
Synechocystis aquaticus Sauvageau	0.00	2.99	4.40	1.38	4.70	40.92
Unknown diatom sp.	3.26	0.00	4.32	1.71	4.62	45.54
Cryptomonas sp.1	0.00	2.59	3.85	1.96	4.11	49.66
Peridinium sp.	1.96	0.00	2.50	0.77	2.67	52.32
Skeletonema menezelli	2.12	0.00	2.47	0.37	2.64	54.96
Prorocentrum minimum	1.51	0.00	2.36	0.45	2.52	57.48
Nitzschia pungens	1.50	0.26	2.19	0.88	2.34	59.82
Nitzschia closterium	1.48	0.00	2.13	0.94	2.27	62.09
Chaetoceros sp.	1.79	0.00	2.04	0.71	2.18	64.27
Ceratium hircus	0.66	0.97	1.81	0.77	1.94	66.21
Pyramimonas sp.	1.42	0.00	1.80	0.84	1.93	68.13
Rhizosolenia setigera	0.91	0.73	1.63	0.87	1.74	69.88
Eutreptiella sp.	0.49	0.69	1.61	0.68	1.72	71.60
Gymnodinium simplex	0.00	1.01	1.50	0.85	1.60	73.20
Peridinium cerasus	0.00	0.87	1.26	0.73	1.35	74.55
Leptocylindricus minimum	1.10	0.00	1.24	0.66	1.32	75.87
Navicula sp. large	0.89	0.00	1.21	0.65	1.29	77.16
Leptocylindricus danicus	1.12	0.00	1.18	0.43	1.26	78.43
Chlymentomonas sp.	0.00	0.80	1.13	0.79	1.21	79.64
Unknown diatom sp. A	0.89	0.00	1.11	0.45	1.19	80.82
Chaetoceros gracile	0.89	0.00	1.06	0.36	1.13	81.95
Chaetoceros subtilis	0.47	0.35	0.96	0.47	1.03	82.98
Unknown Katodinium sp.	0.47	0.00	0.93	0.35	1.00	83.98
Aphanocapsa sp.	0.71	0.00	0.80	0.47	0.86	84.84
Biddulphia sinensis	0.00	0.57	0.80	0.57	0.85	85.69
Thalassionema nitzschoides	0.26	0.38	0.74	0.43	0.79	86.48
Chroococcus minutus	0.00	0.47	0.74	0.34	0.79	87.26
Chaetoceros compressum	0.00	0.49	0.70	0.48	0.74	88.01
Calycomonas ovalis	0.00	0.41	0.59	0.47	0.63	88.64
Scenedesmus sp.	0.46	0.00	0.54	0.37	0.58	89.22
Amphidinium crassum	0.00	0.37	0.49	0.43	0.53	89.74
Chaetoceros decipiens	0.00	0.33	0.48	0.42	0.52	90.26

Groups ALA6 & PR4

Average dissimilarity = 95.70

Species	Group ALA6 Av.Abund	Group PR4 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
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Unknown Cryptophyte sp.	6.93	0.00	10.49	2.22	10.96	10.96
Unknown diatom sp. D	5.41	0.00	8.38	1.13	8.76	19.72
Unknown diatom sp.	3.19	0.00	4.73	1.51	4.95	24.67
Skeletonema costatum	1.59	3.45	4.71	1.40	4.92	29.58
Synechocystis aquaticus Sauvageau	0.00	2.99	4.68	1.40	4.89	34.47
Thalassiosira sp.	2.99	0.00	4.57	1.03	4.78	39.25
Unknown Dinoflagellate sp.	2.98	0.00	4.32	1.47	4.51	43.76
Cryptomonas sp.1	0.00	2.59	4.10	2.02	4.28	48.04
Peridinium sp.	1.80	0.00	2.60	0.82	2.72	50.75
Prorocentrum minimum	1.60	0.00	2.60	0.30	2.71	53.47
Eutreptiella sp.	1.38	0.69	2.52	0.66	2.64	56.11
Eutreptia sp.	1.63	0.00	2.51	0.62	2.62	58.73
Pyramimonas sp.	1.63	0.00	2.19	0.93	2.29	61.02
Gymnodinium simplex	0.00	1.01	1.59	0.86	1.66	62.69
Ceratium hircus	0.00	0.97	1.52	0.62	1.58	64.27
Scenedesmus sp.	1.08	0.00	1.46	0.66	1.53	65.80
Peridinium cerasus	0.00	0.87	1.34	0.73	1.40	67.20
Rhizosolenia setigera	0.29	0.73	1.31	0.69	1.37	68.56
Unknown bluegreen sp.	0.81	0.00	1.27	0.53	1.32	69.89
Chlymentomonas sp.	0.00	0.80	1.20	0.80	1.26	71.14
Glenodinium sp.	0.71	0.00	1.10	0.37	1.15	72.30
Prorocentrum redfieldi	0.74	0.00	1.07	0.26	1.12	73.42
Prorocentrum micans	0.46	0.33	0.99	0.46	1.03	74.45
Navicula sp. small	0.46	0.00	0.87	0.47	0.91	75.35
Biddulphia sinensis	0.00	0.57	0.84	0.58	0.88	76.23
Unknown Katodinium sp.	0.69	0.00	0.84	0.26	0.87	77.11
Prorocentrum sp.	0.69	0.00	0.83	0.35	0.87	77.98
Skeletonema menezelli	0.59	0.00	0.82	0.26	0.86	78.83
Chroococcus minutus	0.00	0.47	0.78	0.34	0.82	79.66
Nitzschia closterium	0.51	0.00	0.78	0.47	0.81	80.47
Nitzschia pungens	0.40	0.26	0.76	0.53	0.80	81.27
Leptocylindricus danicus	0.52	0.00	0.75	0.36	0.78	82.05
Chaetoceros compressum	0.00	0.49	0.74	0.48	0.77	82.82
Pseudopedinella sp.	0.61	0.00	0.73	0.26	0.76	83.58
Thalassionema nitzschoides	0.16	0.38	0.72	0.41	0.75	84.33
Amphora sp.	0.40	0.00	0.69	0.36	0.72	85.05
Leptocylindricus minimum	0.50	0.00	0.64	0.47	0.67	85.72
Calycomonas ovalis	0.00	0.41	0.63	0.47	0.65	86.37
Chaetoceros sp.	0.51	0.00	0.62	0.37	0.65	87.02
Chaetoceros subtilis	0.00	0.35	0.54	0.48	0.56	87.59
Amphidinium crassum	0.00	0.37	0.52	0.43	0.55	88.13
Chaetoceros decipiens	0.00	0.33	0.51	0.43	0.54	88.67
Akistrodesmus sp.	0.46	0.00	0.51	0.36	0.54	89.20

Unknown flagellate sp. 1	0.00	0.34	0.51	0.56	0.53	89.74
Spermatozoopsis exultans	0.00	0.34	0.50	0.44	0.52	90.26

Groups ALASFB & PR4

Average dissimilarity = 91.70

Species	Group ALASFB Av.Abund	Group PR4 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	7.21	0.00	9.77	2.32	10.65	10.65
Unknown Cryptophyte sp.	5.30	0.00	8.07	2.42	8.80	19.45
Skeletonema costatum	6.05	3.45	6.68	1.60	7.29	26.74
Nitzschia closterium	3.80	0.00	5.39	4.30	5.88	32.62
Unknown diatom sp.	3.86	0.00	5.26	2.34	5.74	38.36
Thalassiosira sp.	3.61	0.00	4.87	2.60	5.32	43.67
Synechocystis aquaticus Sauvageau	0.00	2.99	4.48	1.42	4.89	48.56
Cryptomonas sp.1	0.00	2.59	3.92	2.05	4.28	52.83
Unknown Dinoflagellate sp.	2.64	0.00	3.63	1.85	3.95	56.79
Nitzschia pungens	1.73	0.26	2.45	1.03	2.67	59.46
Chaetoceros sp.	1.62	0.00	2.16	0.78	2.35	61.82
Pyramimonas sp.	1.42	0.00	2.10	0.75	2.29	64.10
Skeletonema menezelli	1.69	0.00	1.94	0.33	2.11	66.22
Ceratium hircus	0.47	0.97	1.77	0.72	1.93	68.15
Gymnodinium simplex	0.00	1.01	1.52	0.86	1.66	69.81
Rhizosolenia setigera	0.36	0.73	1.33	0.69	1.45	71.27
Peridinium cerasus	0.00	0.87	1.28	0.73	1.40	72.66
Leptocylindricus minimum	0.90	0.00	1.27	0.62	1.38	74.05
Peridinium sp.	0.87	0.00	1.27	0.50	1.38	75.43
Chaetoceros subtilis	0.66	0.35	1.19	0.52	1.30	76.73
Chlymentomonas sp.	0.00	0.80	1.15	0.80	1.26	77.99
Navicula sp. small	0.89	0.00	1.06	0.49	1.16	79.15
Eutreptiella sp.	0.00	0.69	1.03	0.72	1.12	80.27
Thalassionema nitzschoides	0.36	0.38	0.89	0.48	0.97	81.24
Leptocylindricus danicus	0.50	0.00	0.87	0.46	0.95	82.20
Biddulphia sinensis	0.00	0.57	0.81	0.58	0.88	83.08
Chroococcus minutus	0.00	0.47	0.75	0.35	0.82	83.90
Chaetoceros compressum	0.00	0.49	0.71	0.48	0.77	84.67
Navicula sp. large	0.39	0.00	0.70	0.48	0.77	85.44
Akistrodesmus sp.	0.45	0.00	0.64	0.33	0.70	86.14
Calycomonas ovalis	0.00	0.41	0.60	0.47	0.65	86.79
Gonyaulax sp.	0.48	0.00	0.59	0.33	0.65	87.44
Nitzschia sp.	0.25	0.19	0.57	0.42	0.62	88.06
Prorocentrum sp.	0.27	0.00	0.54	0.33	0.59	88.65

Scenedesmus sp.	0.38	0.00	0.54	0.33	0.59	89.24
Amphidinium crassum	0.00	0.37	0.50	0.43	0.55	89.79
Chaetoceros decipiens	0.00	0.33	0.49	0.43	0.54	90.33

Groups ALATB & PR4

Average dissimilarity = 89.50

Species	Group ALATB Av.Abund	Group PR4 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	8.40	3.45	7.34	1.63	8.20	8.20
Unknown diatom sp. D	5.42	0.00	6.81	1.98	7.61	15.81
Unknown Cryptophyte sp.	4.97	0.00	6.79	2.54	7.59	23.40
Thalassiosira sp.	4.50	0.00	5.51	2.69	6.16	29.55
Nitzschia closterium	3.84	0.00	4.81	2.01	5.37	34.92
Unknown diatom sp.	3.54	0.00	4.55	2.20	5.09	40.01
Synechocystis aquaticus Sauvageau	0.00	2.99	3.96	1.44	4.43	44.44
Nitzschia pungens	3.10	0.26	3.86	1.49	4.32	48.76
Chaetoceros sp.	2.89	0.00	3.56	1.43	3.98	52.73
Cryptomonas sp.1	0.00	2.59	3.46	2.11	3.87	56.60
Unknown Dinoflagellate sp.	2.17	0.00	2.59	1.08	2.90	59.50
Skeletonema menezelli	2.25	0.00	2.43	0.45	2.72	62.22
Ceratium hircus	1.27	0.97	2.15	0.86	2.40	64.62
Leptocylicus minimum	1.84	0.00	2.09	0.84	2.33	66.96
Pyramimonas sp.	1.37	0.00	1.84	0.85	2.06	69.01
Thalassionema nitzschoides	1.37	0.38	1.73	0.85	1.93	70.94
Rhizosolenia setigera	1.05	0.73	1.62	0.95	1.81	72.76
Gymnodinium simplex	0.00	1.01	1.35	0.87	1.50	74.26
Peridinium sp.	1.19	0.00	1.21	0.66	1.35	75.61
Unknown diatom sp. A	0.97	0.00	1.20	0.58	1.34	76.96
Peridinium cerasus	0.00	0.87	1.14	0.74	1.27	78.23
Navicula sp. large	0.96	0.00	1.10	0.68	1.22	79.45
Eutreptiella sp.	0.20	0.69	1.06	0.76	1.18	80.63
Chlymentomonas sp.	0.00	0.80	1.02	0.80	1.14	81.78
Leptocylicus danicus	0.82	0.00	0.99	0.57	1.11	82.89
Prorocentrum micans	0.54	0.33	0.85	0.71	0.95	83.84
Prorocentrum sp.	0.79	0.00	0.82	0.47	0.91	84.76
Chaetoceros gracile	0.60	0.00	0.80	0.27	0.90	85.65
Biddulphia sinensis	0.00	0.57	0.72	0.58	0.80	86.46
Chroococcus minutus	0.00	0.47	0.66	0.35	0.74	87.19
Chaetoceros compressum	0.00	0.49	0.63	0.48	0.70	87.90
Nitzschia delicatissima	0.52	0.00	0.62	0.27	0.69	88.58
Calycomonas ovalis	0.00	0.41	0.53	0.48	0.60	89.18

Polykrikos sp.	0.43	0.00	0.49	0.27	0.54	89.72
Unknown bluegreen sp.	0.43	0.00	0.46	0.50	0.51	90.24

Groups ALASFC & PR4

Average dissimilarity = 90.81

Species	Group ALASFC Av.Abund	Group PR4 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	12.19	1.78	13.42	13.42
Unknown diatom sp. D	8.36	0.00	9.08	3.71	10.00	23.43
Unknown Cryptophyte sp.	7.43	0.00	8.76	8.31	9.64	33.07
Thalassiosira sp.	4.72	0.00	5.67	5.02	6.25	39.32
Unknown diatom sp.	4.70	0.00	5.40	15.40	5.95	45.27
Nitzschia closterium	4.12	0.00	5.12	3.07	5.64	50.90
Pyramimonas sp.	3.83	0.00	4.59	5.51	5.05	55.95
Synechocystis aquaticus Sauvageau	0.00	2.99	3.61	1.43	3.97	59.93
Cryptomonas sp.1	0.00	2.59	3.15	2.10	3.47	63.40
Skeletonema costatum	5.96	3.45	2.90	1.24	3.19	66.59
Chaetoceros sp.	3.08	0.00	2.88	0.99	3.17	69.77
Gymnodinium sp.	2.63	0.00	2.45	0.99	2.70	72.47
Nitzschia pungens	2.29	0.26	2.21	1.08	2.43	74.90
Leptocylicus minimum	1.88	0.00	1.76	0.99	1.94	76.84
Rhizosolenia setigera	1.26	0.73	1.49	1.07	1.65	78.48
Prorocentrum sp.	1.50	0.00	1.40	0.99	1.54	80.02
Peridinium sp.	1.50	0.00	1.40	0.99	1.54	81.56
Gymnodinium simplex	0.00	1.01	1.23	0.86	1.35	82.91
Navicula sp. large	1.26	0.00	1.18	0.99	1.29	84.21
Leptocylicus danicus	1.26	0.00	1.18	0.99	1.29	85.50
Ceratium hircus	0.00	0.97	1.17	0.62	1.29	86.79
Peridinium cerasus	0.00	0.87	1.04	0.73	1.14	87.94
Chlymentomonas sp.	0.00	0.80	0.94	0.79	1.03	88.97
Eutreptiella sp.	0.00	0.69	0.83	0.71	0.92	89.88
Biddulphia sinensis	0.00	0.57	0.66	0.57	0.73	90.61

Groups LMR0 & PR4

Average dissimilarity = 92.26

Species	Group LMR0 Av.Abund	Group PR4 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	3.45	7.48	1.25	8.11	8.11
Synechocystis aquaticus Sauvageau	0.00	2.99	6.97	1.40	7.55	15.66

Cryptomonas sp.1	0.00	2.59	6.12	2.02	6.64	22.29
Unknown pennate diatom sp.	2.07	0.00	4.71	1.76	5.10	27.40
Cyclotella sp.	1.76	0.15	3.90	0.78	4.23	31.63
Cyclotella sp. (small)	1.79	0.00	3.83	0.71	4.16	35.78
Cyclotella sp. (large)	1.45	0.00	2.98	0.59	3.23	39.01
Scenedesmus quadricauda	1.15	0.00	2.42	1.09	2.62	41.64
Gymnodinium simplex	0.00	1.01	2.38	0.86	2.58	44.22
Ceratium hircus	0.00	0.97	2.25	0.62	2.44	46.66
Gymnodinium sp.	1.01	0.00	2.24	1.00	2.43	49.09
Schroederia setigera	1.04	0.00	2.16	1.07	2.35	51.44
Thalassiosira pseudonana	1.05	0.00	2.13	0.56	2.31	53.75
Eutreptia sp.	0.88	0.00	2.00	0.97	2.17	55.91
Peridinium cerasus	0.00	0.87	1.97	0.73	2.13	58.04
Scenedesmus bijinga	0.90	0.00	1.89	0.84	2.05	60.09
Thalassiosira decipiens	0.91	0.00	1.79	0.49	1.94	62.04
Chlymentomonas sp.	0.00	0.80	1.76	0.81	1.91	63.95
Rhizosolenia setigera	0.00	0.73	1.67	0.59	1.81	65.75
Eutreptiella sp.	0.00	0.69	1.60	0.72	1.73	67.49
Nitzschia longissima	0.78	0.00	1.60	0.95	1.73	69.22
Chaetoceros subtilis	0.44	0.35	1.41	0.69	1.53	70.75
Akistrodesmus falcatus	0.64	0.00	1.36	0.69	1.48	72.23
Biddulphia sinensis	0.00	0.57	1.23	0.59	1.33	73.56
Chroococcus minutus	0.00	0.47	1.20	0.35	1.30	74.86
Chaetoceros compressum	0.00	0.49	1.09	0.48	1.18	76.04
Bluegreen filamentous sp.	0.41	0.00	0.96	0.62	1.04	77.08
Calycomonas ovalis	0.00	0.41	0.92	0.48	0.99	78.08
Thalassionema nitzschoides	0.00	0.38	0.87	0.35	0.94	79.02
Melosira sp.	0.36	0.00	0.80	0.50	0.86	79.88
Chaetoceros decipiens	0.00	0.33	0.76	0.43	0.83	80.71
Unknown flagellate sp. 1	0.00	0.34	0.75	0.56	0.81	81.52
Amphidinium crassum	0.00	0.37	0.74	0.44	0.81	82.33
Nitzschia sp.	0.09	0.19	0.74	0.39	0.80	83.13
Prorocentrum micans	0.00	0.33	0.73	0.48	0.80	83.92
Spermatozoopsis exultans	0.00	0.34	0.73	0.44	0.79	84.71
Cyclotella meneghiniana	0.40	0.00	0.72	0.28	0.78	85.49
Scenedesmus acutus	0.34	0.00	0.68	0.40	0.74	86.23
Merismopedia punctata	0.29	0.00	0.68	0.39	0.74	86.97
Crucigenia sp.	0.22	0.00	0.67	0.51	0.72	87.70
Pleurosigma sp.	0.24	0.00	0.62	0.51	0.67	88.37
Cryptomonas ovata	0.00	0.23	0.62	0.34	0.67	89.03
Actinoptychus undulatus	0.00	0.23	0.60	0.30	0.65	89.68
Nitzschia pungens	0.00	0.26	0.57	0.37	0.62	90.30

Groups LMR12 & PR4

Average dissimilarity = 84.28

Species	Group LMR12 Av.Abund	Group PR4 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	2.99	7.16	1.43	8.49	8.49
Cryptomonas sp.1	0.00	2.59	6.29	2.08	7.47	15.96
Chaetoceros subtilis	2.19	0.35	5.19	1.19	6.15	22.11
Skeletonema costatum	3.94	3.45	4.60	1.23	5.46	27.57
Peridinium aciculiferum	1.12	0.00	2.84	0.87	3.37	30.94
Ceratium hircus	0.22	0.97	2.49	0.68	2.95	33.89
Gymnodinium simplex	0.00	1.01	2.45	0.87	2.91	36.80
Schizothrix sp.	1.06	0.00	2.05	0.57	2.43	39.23
Peridinium cerasus	0.00	0.87	2.02	0.74	2.40	41.63
Thalassiosira pseudonana	0.90	0.00	1.98	0.84	2.35	43.98
Rhizosolenia setigera	0.28	0.73	1.92	0.70	2.28	46.26
Thalassiosira sp.	0.84	0.00	1.91	0.72	2.27	48.53
Chlymentomonas sp.	0.00	0.80	1.81	0.82	2.14	50.67
Nitzschia closterium	0.79	0.00	1.69	0.89	2.00	52.68
Eutreptiella sp.	0.00	0.69	1.64	0.73	1.95	54.63
Nitzschia longissima	0.75	0.00	1.64	0.94	1.95	56.58
Unknown pennate diatom sp.	0.75	0.00	1.61	0.87	1.92	58.49
Leptocylindricus minimum	0.80	0.00	1.53	0.70	1.81	60.31
Chaetoceros socialis	0.70	0.00	1.50	0.77	1.78	62.08
Thalassionema nitzschoides	0.32	0.38	1.35	0.53	1.61	63.69
Nitzschia pungens	0.45	0.26	1.30	0.66	1.54	65.23
Schroederia setigera	0.53	0.00	1.29	0.63	1.53	66.76
Biddulphia sinensis	0.00	0.57	1.26	0.59	1.49	68.25
Chroococcus minutus	0.00	0.47	1.24	0.35	1.47	69.72
Eutreptia sp.	0.58	0.00	1.22	0.76	1.45	71.17
Cyclotella sp.	0.45	0.15	1.13	0.57	1.35	72.51
Chaetoceros compressum	0.00	0.49	1.12	0.48	1.32	73.84
Prorocentrum micans	0.24	0.33	1.05	0.62	1.24	75.08
Calycomonas ovalis	0.00	0.41	0.94	0.48	1.12	76.20
Chaetoceros decipiens	0.09	0.33	0.91	0.49	1.08	77.28
Cyclotella sp. (small)	0.35	0.00	0.89	0.33	1.06	78.34
Gymnodinium sp.	0.37	0.00	0.86	0.55	1.02	79.36
Ceratulina bergonii	0.40	0.00	0.84	0.45	1.00	80.36
Prorocentrum minimum	0.38	0.00	0.77	0.55	0.92	81.28
Unknown flagellate sp. 1	0.00	0.34	0.77	0.57	0.91	82.19
Amphidinium crassum	0.00	0.37	0.76	0.44	0.90	83.09
Chaetoceros neogracile	0.39	0.00	0.75	0.56	0.89	83.98

Spermatozoopsis exultans	0.00	0.34	0.74	0.44	0.88	84.86
Nitzschia sp.	0.11	0.19	0.72	0.39	0.85	85.71
Gonyaulax monilata	0.33	0.00	0.70	0.48	0.83	86.54
Cryptomonas ovata	0.00	0.23	0.63	0.35	0.75	87.30
Actinopterychus undulatus	0.00	0.23	0.62	0.30	0.73	88.03
Scrippsiella sp.	0.29	0.00	0.60	0.48	0.71	88.74
Rhizosolenia calcar-avis	0.00	0.28	0.56	0.35	0.67	89.41
Gonyaulax polygramma	0.21	0.00	0.55	0.40	0.65	90.06

Groups LMR6 & PR4

Average dissimilarity = 86.15

Species	Group LMR6 Av.Abund	Group PR4 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	2.99	6.60	1.50	7.66	7.66
Cryptomonas sp.1	0.00	2.59	5.79	2.28	6.72	14.38
Chaetoceros subtilis	2.80	0.35	5.63	1.53	6.53	20.92
Skeletonema costatum	4.06	3.45	4.39	1.39	5.09	26.01
Cyclotella sp. (small)	1.40	0.00	3.02	0.68	3.50	29.52
Schroederia setigera	1.25	0.00	2.67	1.47	3.10	32.62
Thalassiosira pseudonana	1.15	0.00	2.50	0.71	2.91	35.52
Peridinium aciculiferum	1.07	0.00	2.43	0.73	2.82	38.35
Gymnodinium simplex	0.00	1.01	2.25	0.89	2.62	40.96
Gymnodinium sp.	1.06	0.00	2.23	0.83	2.59	43.55
Ceratium hircus	0.00	0.97	2.13	0.64	2.48	46.03
Nitzschia longissima	0.91	0.00	2.07	1.24	2.40	48.42
Peridinium cerasus	0.00	0.87	1.87	0.76	2.17	50.59
Cyclotella sp.	0.79	0.15	1.80	0.60	2.09	52.68
Chlymentomonas sp.	0.00	0.80	1.67	0.83	1.94	54.62
Schizothrix sp.	0.71	0.00	1.65	0.47	1.92	56.54
Rhizosolenia setigera	0.06	0.73	1.63	0.63	1.89	58.43
Unknown pennate diatom sp.	0.72	0.00	1.59	0.74	1.85	60.28
Scenedesmus quadricauda	0.73	0.00	1.57	0.82	1.82	62.10
Eutreptiella sp.	0.00	0.69	1.52	0.74	1.76	63.86
Thalassiosira decipiens	0.59	0.00	1.26	0.74	1.46	65.32
Gonyaulax polygramma	0.53	0.00	1.19	0.68	1.38	66.71
Biddulphia sinensis	0.00	0.57	1.17	0.60	1.36	68.06
Chroococcus minutus	0.00	0.47	1.13	0.36	1.31	69.38
Chaetoceros compressum	0.00	0.49	1.03	0.49	1.20	70.58
Thalassionema nitzschoides	0.09	0.38	0.97	0.41	1.13	71.70
Akistrodesmus falcatus	0.46	0.00	0.94	0.57	1.09	72.79
Scenedesmus bijinga	0.43	0.00	0.92	0.50	1.07	73.87

Nitzschia pungens	0.21	0.26	0.91	0.57	1.06	74.93
Eutreptia sp.	0.42	0.00	0.89	0.59	1.04	75.96
Calycomonas ovalis	0.00	0.41	0.87	0.49	1.01	76.98
Nitzschia closterium	0.40	0.00	0.86	0.59	1.00	77.98
Euglena sp.	0.38	0.00	0.85	0.50	0.98	78.96
Peridinium sp.	0.41	0.00	0.81	0.56	0.94	79.90
Chaetoceros decipiens	0.00	0.33	0.72	0.44	0.84	80.74
Amphidinium crassum	0.00	0.37	0.71	0.44	0.83	81.57
Unknown flagellate sp. 1	0.00	0.34	0.71	0.58	0.82	82.40
Prorocentrum micans	0.00	0.33	0.70	0.49	0.81	83.21
Spermatozoopsis exultans	0.00	0.34	0.69	0.45	0.80	84.01
Bacillaria paradoxa	0.13	0.19	0.64	0.38	0.74	84.75
Thalassiosira sp.	0.31	0.00	0.61	0.48	0.71	85.46
Merismopedia punctata	0.23	0.00	0.58	0.33	0.68	86.14
Prorocentrum minimum	0.29	0.00	0.58	0.50	0.67	86.81
Cryptomonas ovata	0.00	0.23	0.58	0.35	0.67	87.48
Actinoptychus undulatus	0.00	0.23	0.56	0.30	0.65	88.14
Leptocylindricus minimum	0.29	0.00	0.55	0.41	0.64	88.78
Rhizosolenia calcar-avis	0.00	0.28	0.53	0.35	0.61	89.39
Nostoc sp.(trichomes)	0.21	0.00	0.53	0.42	0.61	90.01

Groups LMRRUSK & PR4

Average dissimilarity = 86.58

Species	Group LMRRUSK Av.Abund	Group PR4 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.90	3.45	7.18	1.21	8.29	8.29
Synechocystis aquaticus Sauvageau	0.00	2.99	6.29	1.40	7.27	15.56
Cryptomonas sp.1	0.00	2.59	5.52	2.02	6.38	21.94
Prorocentrum minimum	1.59	0.00	3.05	0.98	3.52	25.46
Thalassiosira pseudonana	1.56	0.00	2.95	0.83	3.41	28.87
Eutreptia sp.	1.43	0.00	2.77	1.00	3.19	32.06
Thalassiosira sp.	1.38	0.00	2.67	0.66	3.08	35.15
Gymnodinium simplex	0.00	1.01	2.15	0.86	2.48	37.63
Ceratium hircus	0.08	0.97	2.07	0.64	2.39	40.02
Chaetoceros subtilis	0.83	0.35	1.89	0.83	2.18	42.20
Peridinium cerasus	0.00	0.87	1.78	0.73	2.06	44.26
Schroederia setigera	0.82	0.00	1.72	0.89	1.99	46.25
Peridinium aciculiferum	0.84	0.00	1.65	0.83	1.91	48.16
Rhizosolenia setigera	0.16	0.73	1.64	0.65	1.90	50.06
Cyclotella sp.	0.83	0.15	1.63	0.57	1.88	51.93
Chlymentomonas sp.	0.00	0.80	1.60	0.81	1.85	53.78

Unknown pennate diatom sp.	0.81	0.00	1.56	0.69	1.80	55.58
Thalassiosira decipiens	0.84	0.00	1.54	0.79	1.78	57.36
Nitzschia longissima	0.74	0.00	1.46	0.98	1.68	59.04
Eutreptiella sp.	0.00	0.69	1.45	0.72	1.67	60.71
Leptocylindricus minimum	0.75	0.00	1.32	0.57	1.52	62.24
Euglena sp.	0.69	0.00	1.29	0.45	1.49	63.72
Scrippsiella sp.	0.59	0.00	1.24	0.65	1.43	65.16
Nitzschia closterium	0.62	0.00	1.16	0.90	1.34	66.50
Ceratulina bergonii	0.53	0.00	1.15	0.43	1.33	67.82
Thalassionema nitzschoides	0.20	0.38	1.14	0.48	1.32	69.14
Biddulphia sinensis	0.00	0.57	1.12	0.58	1.29	70.43
Chroococcus minutus	0.00	0.47	1.08	0.35	1.24	71.67
Merismopedia punctata	0.54	0.00	1.04	0.45	1.21	72.88
Chaetoceros compressum	0.00	0.49	0.99	0.48	1.14	74.01
Gymnodinium sp.	0.53	0.00	0.97	0.71	1.12	75.13
Schizothrix sp.	0.49	0.00	0.89	0.43	1.03	76.16
Scenedesmus quadricauda	0.46	0.00	0.84	0.48	0.97	77.13
Calycomonas ovalis	0.00	0.41	0.83	0.47	0.96	78.10
Akistrodesmus falcatus	0.43	0.00	0.82	0.55	0.95	79.04
Prorocentrum micans	0.13	0.33	0.80	0.58	0.93	79.97
Crucigenia sp.	0.38	0.00	0.72	0.48	0.83	80.80
Chaetoceros decipiens	0.00	0.33	0.69	0.43	0.80	81.60
Nitzschia pungens	0.12	0.26	0.69	0.46	0.79	82.39
Amphidinium crassum	0.00	0.37	0.68	0.43	0.79	83.18
Unknown flagellate sp. 1	0.00	0.34	0.68	0.56	0.78	83.96
Chaetoceros neogracile	0.31	0.00	0.66	0.52	0.77	84.73
Spermatozoopsis exultans	0.00	0.34	0.66	0.44	0.76	85.49
Pyramimonas sp.	0.33	0.00	0.62	0.35	0.72	86.21
Cryptomonas ovata	0.00	0.23	0.55	0.34	0.64	86.84
Nostoc sp.(trichomes)	0.27	0.00	0.54	0.43	0.63	87.47
Actinopterychus undulatus	0.00	0.23	0.54	0.30	0.62	88.09
Peridinium sp.	0.31	0.00	0.52	0.55	0.60	88.69
Rhizosolenia calcar-avis	0.00	0.28	0.50	0.34	0.58	89.27
Scenedesmus bijinga	0.28	0.00	0.50	0.43	0.57	89.85
Chaetoceros socialis	0.28	0.00	0.48	0.36	0.55	90.40

Groups LMRTB & PR4

Average dissimilarity = 87.13

Species	Group LMRTB Av.Abund	Group PR4 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.07	3.45	6.87	1.33	7.88	7.88

Synechocystis aquaticus Sauvageau	0.00	2.99	6.16	1.27	7.07	14.95
Cryptomonas sp.1	0.00	2.59	5.41	1.71	6.21	21.17
Schizothrix sp.	2.14	0.00	3.70	0.69	4.25	25.41
Thalassionema nitzschoides	1.63	0.38	3.43	0.76	3.94	29.35
Ceratulina bergonii	1.39	0.00	2.70	0.78	3.10	32.45
Leptocylicus minimum	1.63	0.00	2.48	1.12	2.84	35.29
Ceratium hircus	0.73	0.97	2.34	0.77	2.68	37.98
Rhizosolenia setigera	0.93	0.73	2.24	0.89	2.57	40.55
Chaetoceros socialis	1.47	0.00	2.17	0.82	2.49	43.03
Nitzschia closterium	1.37	0.00	2.14	0.80	2.45	45.48
Gymnodinium simplex	0.00	1.01	2.11	0.81	2.42	47.90
Chaetoceros neogracile	1.24	0.00	2.08	0.88	2.39	50.29
Unknown pennate diatom sp.	1.09	0.00	2.03	0.86	2.33	52.62
Nitzschia pungens	1.11	0.26	1.91	0.79	2.19	54.82
Prorocentrum micans	0.97	0.33	1.83	1.01	2.10	56.92
Chaetoceros compressum	0.87	0.49	1.80	0.78	2.06	58.98
Peridinium cerasus	0.00	0.87	1.74	0.70	2.00	60.98
Thalassiosira sp.	0.93	0.00	1.59	0.65	1.82	62.80
Chlymentomonas sp.	0.00	0.80	1.56	0.77	1.79	64.60
Eutreptiella sp.	0.00	0.69	1.42	0.69	1.63	66.22
Asterionella glacialis	0.87	0.13	1.40	0.67	1.61	67.83
Chaetoceros subtilis	0.59	0.35	1.25	0.70	1.43	69.27
Thalassiosira decipiens	0.64	0.00	1.20	0.61	1.37	70.64
Chaetoceros sp.	0.56	0.00	1.16	0.34	1.33	71.97
Biddulphia sinensis	0.00	0.57	1.09	0.56	1.25	73.21
Prorocentrum minimum	0.72	0.00	1.08	0.95	1.24	74.45
Chroococcus minutus	0.00	0.47	1.06	0.33	1.22	75.67
Nitzschia longissima	0.64	0.00	0.95	0.87	1.09	76.75
Peridinium sp.	0.41	0.00	0.87	0.54	1.00	77.75
Calycomonas ovalis	0.00	0.41	0.81	0.46	0.93	78.68
Melosira sp.	0.26	0.00	0.79	0.33	0.91	79.59
Rhizosolenia calcar-avis	0.22	0.28	0.76	0.49	0.87	80.46
Leptocylicus danicus	0.46	0.00	0.69	0.59	0.79	81.26
Chaetoceros decipiens	0.00	0.33	0.68	0.41	0.78	82.03
Amphora sp.	0.41	0.00	0.67	0.44	0.76	82.80
Amphidinium crassum	0.00	0.37	0.66	0.42	0.76	83.56
Unknown flagellate sp. 1	0.00	0.34	0.66	0.54	0.76	84.32
Spermatozoopsis exultans	0.00	0.34	0.64	0.42	0.74	85.06
Cryptomonas ovata	0.00	0.23	0.54	0.33	0.62	85.68
Actinopterychus undulatus	0.00	0.23	0.53	0.28	0.61	86.28
Chaetoceros curvisetus	0.43	0.00	0.52	0.33	0.59	86.88
Thalassiosira pseudonana	0.37	0.00	0.51	0.39	0.59	87.46
Gonyaulax polygramma	0.22	0.00	0.50	0.35	0.58	88.04

Nitzschia sp.	0.05	0.19	0.50	0.31	0.57	88.61
Bacillaria paradoxa	0.09	0.19	0.50	0.34	0.57	89.19
Pleurosigma sp.	0.27	0.00	0.49	0.47	0.57	89.75
Chaetoceros lorenzianum	0.32	0.00	0.47	0.43	0.54	90.30

Groups LMR18 & PR4

Average dissimilarity = 83.99

Species	Group LMR18 Av.Abund	Group PR4 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	2.99	7.44	1.43	8.86	8.86
Cryptomonas sp.1	0.00	2.59	6.54	2.10	7.79	16.65
Skeletonema costatum	4.09	3.45	5.28	1.24	6.28	22.93
Nitzschia closterium	1.55	0.00	3.54	1.56	4.21	27.14
Gymnodinium simplex	0.00	1.01	2.55	0.87	3.03	30.18
Chaetoceros subtilis	0.83	0.35	2.50	0.76	2.98	33.16
Ceratium hircus	0.14	0.97	2.48	0.67	2.96	36.12
Rhizosolenia setigera	0.54	0.73	2.30	0.83	2.73	38.85
Chaetoceros socialis	0.99	0.00	2.15	0.89	2.56	41.41
Leptocylicus minimum	0.93	0.00	2.12	0.88	2.52	43.93
Peridinium aciculiferum	0.79	0.00	2.11	0.80	2.51	46.44
Peridinium cerasus	0.00	0.87	2.10	0.74	2.49	48.93
Chlymentomonas sp.	0.00	0.80	1.88	0.82	2.23	51.17
Unknown pennate diatom sp.	0.84	0.00	1.81	0.81	2.16	53.33
Thalassionema nitzschoides	0.48	0.38	1.77	0.64	2.11	55.44
Eutreptiella sp.	0.00	0.69	1.71	0.73	2.03	57.47
Chaetoceros compressum	0.31	0.49	1.63	0.63	1.94	59.42
Schizothrix sp.	0.67	0.00	1.56	0.43	1.86	61.28
Ceratulina bergonii	0.59	0.00	1.54	0.43	1.83	63.11
Chaetoceros neogracile	0.63	0.00	1.42	0.64	1.69	64.80
Biddulphia sinensis	0.00	0.57	1.30	0.59	1.55	66.36
Chroococcus minutus	0.00	0.47	1.29	0.35	1.54	67.89
Nitzschia longissima	0.53	0.00	1.25	0.82	1.48	69.38
Prorocentrum micans	0.25	0.33	1.14	0.62	1.36	70.73
Nitzschia pungens	0.30	0.26	1.12	0.55	1.34	72.07
Thalassiosira pseudonana	0.51	0.00	1.04	0.65	1.24	73.31
Asterionella glacialis	0.35	0.13	0.98	0.46	1.17	74.48
Calycomonas ovalis	0.00	0.41	0.98	0.48	1.16	75.64
Thalassiosira sp.	0.36	0.00	0.91	0.39	1.08	76.72
Chaetoceros decipiens	0.00	0.33	0.82	0.43	0.97	77.69
Unknown flagellate sp. 1	0.00	0.34	0.79	0.57	0.95	78.64
Amphidinium crassum	0.00	0.37	0.79	0.44	0.94	79.58

Spermatozoopsis exultans	0.00	0.34	0.77	0.44	0.92	80.50
Peridinium sp.	0.32	0.00	0.77	0.42	0.92	81.42
Cyclotella sp.	0.17	0.15	0.72	0.44	0.86	82.28
Prorocentrum minimum	0.35	0.00	0.72	0.56	0.85	83.13
Gonyaulax polygramma	0.27	0.00	0.69	0.42	0.82	83.95
Rhizosolenia calcar-avis	0.06	0.28	0.69	0.40	0.82	84.77
Eutreptia sp.	0.31	0.00	0.67	0.50	0.80	85.57
Gymnodinium sp.	0.30	0.00	0.67	0.48	0.80	86.37
Cryptomonas ovata	0.00	0.23	0.66	0.35	0.79	87.16
Actinopterychus undulatus	0.00	0.23	0.64	0.30	0.77	87.93
Nitzschia palea	0.00	0.25	0.54	0.36	0.64	88.57
Nitzschia sp.	0.00	0.19	0.51	0.28	0.60	89.17
Euglena sp.	0.26	0.00	0.51	0.34	0.60	89.78
Bacillaria paradoxa	0.00	0.19	0.50	0.30	0.59	90.37

Groups PR1 & PR4

Average dissimilarity = 69.75

Species	Group PR1 Av.Abund	Group PR4 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	1.15	3.45	5.97	1.42	8.56	8.56
Synechocystis aquaticus Sauvageau	3.49	2.99	4.51	1.16	6.46	15.02
Scenedesmus quadricauda v. Westii	2.19	0.11	4.46	1.34	6.39	21.41
Gonyaulax palustre	1.82	0.15	3.58	1.51	5.14	26.55
Spermatozoopsis exultans	1.79	0.34	3.51	1.24	5.04	31.59
Cryptomonas erosa	1.46	0.12	2.85	1.20	4.09	35.68
Cryptomonas sp.1	3.26	2.59	2.48	1.37	3.56	39.24
Chlymentomonas sp.	1.14	0.80	2.40	1.14	3.45	42.68
Cryptomonas ovata	1.01	0.23	2.22	0.94	3.18	45.87
Gymnodinium simplex	0.20	1.01	2.12	0.93	3.04	48.90
Ceratium hircus	0.00	0.97	2.03	0.64	2.91	51.81
Eutreptiella sp.	0.80	0.69	1.97	1.05	2.83	54.64
Coelosphaerium sp.	0.90	0.10	1.86	0.63	2.67	57.30
Chroococcus minutus	0.56	0.47	1.83	0.55	2.62	59.93
Peridinium cerasus	0.00	0.87	1.78	0.75	2.55	62.48
Nitzschia palea	0.70	0.25	1.52	0.90	2.18	64.66
Rhizosolenia setigera	0.00	0.73	1.51	0.60	2.16	66.81
Cyclotella sp.	0.73	0.15	1.48	0.72	2.13	68.94
Unknown flagellate sp. 1	0.56	0.34	1.45	0.80	2.08	71.02
Biddulphia sinensis	0.00	0.57	1.11	0.59	1.59	72.61
Cyclotella undulata	0.37	0.12	1.00	0.38	1.43	74.05
Chaetoceros compressum	0.00	0.49	0.98	0.49	1.41	75.45

Chaetoceros subtilis	0.16	0.35	0.96	0.51	1.37	76.82
Calycomonas ovalis	0.05	0.41	0.88	0.51	1.26	78.08
Thalassionema nitzschoides	0.00	0.38	0.79	0.36	1.13	79.21
Amphidinium crassum	0.08	0.37	0.77	0.48	1.10	80.31
Merismopedia glauca	0.32	0.10	0.74	0.42	1.06	81.36
Chaetoceros decipiens	0.00	0.33	0.69	0.44	0.99	82.35
Euglena acus	0.35	0.00	0.67	0.34	0.96	83.31
Nitzschia pungens	0.12	0.26	0.67	0.47	0.96	84.27
Prorocentrum micans	0.00	0.33	0.66	0.49	0.95	85.22
Actinopterychus undulatus	0.07	0.23	0.66	0.36	0.95	86.17
Nitzschia fruticosa	0.30	0.06	0.65	0.41	0.93	87.09
Scenedesmus abundans v. brevicauda	0.35	0.00	0.61	0.37	0.87	87.96
Nitzschia sp.	0.10	0.19	0.61	0.38	0.87	88.83
Bacillaria paradoxa	0.09	0.19	0.57	0.37	0.82	89.65
Gymnodinium splendens	0.12	0.22	0.56	0.47	0.80	90.45

Groups PR2 & PR4

Average dissimilarity = 60.68

Species	Group PR2 Av.Abund	Group PR4 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	2.70	2.99	4.71	1.21	7.76	7.76
Skeletonema costatum	3.82	3.45	4.37	1.14	7.20	14.97
Cryptomonas sp.1	3.26	2.59	2.98	1.23	4.91	19.88
Cryptomonas ovata	1.21	0.23	2.58	1.17	4.25	24.13
Gymnodinium splendens	1.01	0.22	2.50	0.67	4.12	28.25
Ceratium hircus	0.36	0.97	2.42	0.75	3.99	32.24
Gymnodinium simplex	0.52	1.01	2.40	1.03	3.96	36.20
Chroococcus minutus	0.72	0.47	2.34	0.56	3.85	40.05
Chlymentomonas sp.	0.90	0.80	2.32	1.10	3.83	43.88
Eutreptiella sp.	0.86	0.69	2.32	0.97	3.82	47.70
Peridinium cerasus	0.53	0.87	2.27	0.91	3.75	51.45
Spermatozoopsis exultans	1.02	0.34	2.20	1.06	3.62	55.07
Gonyaulax palustre	0.89	0.15	1.97	0.92	3.25	58.32
Rhizosolenia setigera	0.05	0.73	1.65	0.63	2.71	61.03
Calycomonas ovalis	0.37	0.41	1.46	0.61	2.40	63.43
Scenedesmus quadricauda v. Westii	0.63	0.11	1.40	0.72	2.30	65.73
Cyclotella sp.	0.54	0.15	1.35	0.62	2.22	67.95
Chaetoceros compressum	0.16	0.49	1.32	0.53	2.17	70.12
Biddulphia sinensis	0.11	0.57	1.30	0.66	2.14	72.27
Chaetoceros subtilis	0.31	0.35	1.23	0.64	2.03	74.29
Cryptomonas erosa	0.54	0.12	1.18	0.73	1.95	76.24

Unknown flagellate sp. 1	0.34	0.34	1.14	0.75	1.88	78.12
Chaetoceros decipiens	0.19	0.33	1.05	0.52	1.73	79.85
Amphidinium crassum	0.13	0.37	0.90	0.53	1.48	81.33
Nitzschia sp.	0.20	0.19	0.89	0.42	1.47	82.79
Cyclotella undulata	0.30	0.12	0.87	0.47	1.43	84.22
Thalassionema nitzschoides	0.00	0.38	0.84	0.36	1.38	85.60
Prorocentrum micans	0.05	0.33	0.77	0.53	1.27	86.87
Nitzschia palea	0.18	0.25	0.76	0.51	1.25	88.12
Coelosphaerium sp.	0.31	0.10	0.75	0.42	1.24	89.36
Actinopterychus undulatus	0.08	0.23	0.71	0.36	1.17	90.53

Groups PR3 & PR4

Average dissimilarity = 60.03

Species	Group PR3 Av.Abund	Group PR4 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.69	3.45	4.97	1.12	8.29	8.29
Synechocystis aquaticus Sauvageau	2.83	2.99	4.79	1.25	7.97	16.26
Peridinium cerasus	1.29	0.87	3.26	0.96	5.43	21.69
Cryptomonas sp.1	2.70	2.59	2.95	1.11	4.92	26.61
Chlymentomonas sp.	1.07	0.80	2.71	1.04	4.52	31.13
Gymnodinium simplex	0.71	1.01	2.62	1.07	4.37	35.50
Ceratium hircus	0.40	0.97	2.60	0.76	4.33	39.83
Chroococcus minutus	0.67	0.47	2.37	0.57	3.95	43.78
Gymnodinium splendens	0.87	0.22	2.18	0.61	3.63	47.40
Eutreptiella sp.	0.70	0.69	2.10	1.02	3.50	50.90
Rhizosolenia setigera	0.28	0.73	1.89	0.71	3.16	54.05
Unknown flagellate sp. 1	0.66	0.34	1.73	0.85	2.88	56.93
Calycomonas ovalis	0.53	0.41	1.72	0.70	2.87	59.80
Spermatozoopsis exultans	0.51	0.34	1.48	0.77	2.47	62.26
Biddulphia sinensis	0.19	0.57	1.47	0.67	2.44	64.71
Cyclotella sp.	0.56	0.15	1.37	0.69	2.28	66.99
Gonyaulax palustre	0.54	0.15	1.34	0.71	2.23	69.23
Chaetoceros subtilis	0.35	0.35	1.31	0.65	2.19	71.41
Prorocentrum micans	0.39	0.33	1.30	0.71	2.16	73.58
Chaetoceros compressum	0.12	0.49	1.24	0.57	2.06	75.64
Cryptomonas ovata	0.29	0.23	1.12	0.57	1.86	77.50
Cryptomonas erosa	0.45	0.12	1.08	0.64	1.79	79.30
Thalassionema nitzschoides	0.10	0.38	1.04	0.41	1.73	81.03
Chaetoceros decipiens	0.17	0.33	1.02	0.53	1.70	82.73
Amphidinium crassum	0.05	0.37	0.81	0.48	1.35	84.08
Actinopterychus undulatus	0.05	0.23	0.71	0.36	1.19	85.27

Nitzschia palea	0.11	0.25	0.71	0.48	1.18	86.45
Nitzschia pungens	0.07	0.26	0.67	0.43	1.12	87.57
Rhizosolenia calcar-avis	0.06	0.28	0.65	0.40	1.08	88.65
Asterionella glacialis	0.13	0.13	0.60	0.35	0.99	89.64
Rhizosolenia stolterfothii	0.15	0.13	0.59	0.30	0.99	90.63

Appendix F. SIMPER test results for the combined river species that account for 3% or more of the total abundance in any one sample averaged by the 60% grouping level.

SIMPER

Similarity Percentages - species contributions

Worksheet

File: F:\3 Rivers\Combined Files\combspeciesOKwithchemBIOENVtransformedreduced.pri

Sample selection: All

Variable selection: All

Parameters

Standardise data: No

Transform: None

Cut off for low contributions: 90.00%

Factor name: Sim60%GroupA

Factor groups

60%Grp3 ALA0

60%Grp4 All other ALAFIA but ALA0

60%Grp5 LMR0

60%Grp7 LMRTB

60%Grp6 LMR 6-12-18-RUSK

60%Grp1 PR1

60%Grp2 PR2-3-4

Group 60%Grp3

Average similarity: 40.67

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	10.45	1.93	25.69	25.69
Unknown diatom sp.	3.09	7.85	2.15	19.30	44.99
Unknown diatom sp. D	2.34	4.70	1.20	11.55	56.54
Thalassiosira sp.	2.01	4.63	1.51	11.39	67.93
Unknown Dinoflagellate sp.	1.73	2.61	0.76	6.41	74.34
Scenedesmus sp.	1.47	2.13	0.69	5.23	79.57
Navicula sp. small	1.23	1.41	0.48	3.46	83.03

Prorocentrum micans	1.61	1.05	0.27	2.59	85.61
Unknown bluegreen sp.	0.83	1.04	0.49	2.55	88.16
Pyramimonas sp.	0.84	0.88	0.49	2.15	90.32

Group 60%Grp4

Average similarity: 42.87

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	5.92	9.91	2.86	23.12	23.12
Unknown diatom sp. D	6.61	8.39	1.58	19.58	42.70
Unknown diatom sp.	3.46	4.68	1.32	10.93	53.62
Skeletonema costatum	4.80	4.42	0.73	10.31	63.93
Thalassiosira sp.	3.75	4.41	1.20	10.29	74.22
Unknown Dinoflagellate sp.	2.96	3.28	0.90	7.64	81.87
Nitzschia closterium	1.99	1.62	0.61	3.79	85.66
Pyramimonas sp.	1.61	1.22	0.52	2.85	88.51
Chaetoceros sp.	1.70	0.91	0.42	2.12	90.63

Group 60%Grp5

Average similarity: 28.35

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Unknown pennate diatom sp.	2.07	6.67	1.24	23.52	23.52
Skeletonema costatum	3.27	4.38	0.72	15.47	38.99
Scenedesmus quadricauda	1.15	2.04	0.64	7.21	46.20
Cyclotella sp.	1.76	1.88	0.39	6.62	52.82
Gymnodinium sp.	1.01	1.85	0.63	6.53	59.34
Schroederia setigera	1.04	1.79	0.63	6.32	65.67
Cyclotella sp. (small)	1.79	1.71	0.34	6.03	71.70
Eutreptia sp.	0.88	1.57	0.53	5.54	77.23
Scenedesmus bijinga	0.90	1.23	0.43	4.33	81.56
Nitzschia longissima	0.78	1.15	0.53	4.04	85.60
Cyclotella sp. (large)	1.45	0.93	0.26	3.28	88.88
Akistrodesmus falcatus	0.64	0.69	0.34	2.42	91.30

Group 60%Grp7

Average similarity: 32.54

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	4.59	14.75	2.08	45.33	45.33

Chaetoceros subtilis	1.61	3.34	0.60	10.25	55.58
Peridinium aciculiferum	0.94	1.60	0.45	4.90	60.48
Nitzschia longissima	0.73	1.38	0.58	4.25	64.74
Nitzschia closterium	0.83	1.36	0.57	4.17	68.91
Thalassiosira pseudonana	1.07	1.18	0.41	3.62	72.53
Unknown pennate diatom sp.	0.78	1.01	0.41	3.09	75.62
Schroederia setigera	0.66	0.90	0.40	2.77	78.40
Eutreptia sp.	0.74	0.79	0.40	2.41	80.81
Leptocylicus minimum	0.70	0.61	0.32	1.87	82.68
Prorocentrum minimum	0.72	0.60	0.35	1.86	84.54
Thalassiosira sp.	0.77	0.60	0.27	1.85	86.39
Gymnodinium sp.	0.56	0.53	0.33	1.63	88.02
Schizothrix sp.	0.72	0.42	0.20	1.29	89.31
Chaetoceros socialis	0.48	0.36	0.24	1.12	90.43

Group 60%Grp6

Average similarity: 29.08

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	5.07	7.71	1.12	26.52	26.52
Thalassionema nitzschoides	1.63	2.24	0.59	7.69	34.21
Ceratulina bergonii	1.39	2.14	0.78	7.36	41.57
Leptocylicus minimum	1.63	1.82	0.76	6.27	47.84
Schizothrix sp.	2.14	1.49	0.35	5.12	52.95
Chaetoceros neogracile	1.24	1.34	0.66	4.62	57.57
Prorocentrum micans	0.97	1.31	0.64	4.49	62.06
Unknown pennate diatom sp.	1.09	1.30	0.50	4.48	66.54
Chaetoceros socialis	1.47	1.07	0.47	3.67	70.21
Nitzschia closterium	1.37	1.07	0.51	3.66	73.87
Rhizosolenia setigera	0.93	0.97	0.46	3.34	77.21
Ceratium hircus	0.73	0.71	0.47	2.45	79.66
Nitzschia pungens	1.11	0.70	0.40	2.41	82.07
Prorocentrum minimum	0.72	0.66	0.55	2.26	84.33
Thalassiosira sp.	0.93	0.64	0.36	2.22	86.55
Thalassiosira decipiens	0.64	0.54	0.32	1.86	88.40
Nitzschia longissima	0.64	0.53	0.49	1.84	90.24

Group 60%Grp1

Average similarity: 46.53

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
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Cryptomonas sp.1	3.26	10.93	3.00	23.49	23.49
Synechocystis aquaticus Sauvageau	3.49	10.46	1.16	22.48	45.97
Scenedesmus quadricauda v. Westii	2.19	4.92	1.02	10.57	56.54
Gonyaulax palustre	1.82	4.32	1.14	9.28	65.82
Spermatozoopsis exultans	1.79	4.04	0.97	8.67	74.49
Cryptomonas erosa	1.46	2.64	0.75	5.68	80.17
Chlymentomonas sp.	1.14	1.76	0.58	3.77	83.94
Cryptomonas ovata	1.01	1.56	0.53	3.35	87.30
Skeletonema costatum	1.15	1.43	0.42	3.07	90.37

Group 60%Grp2

Average similarity: 40.93

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	3.66	12.29	1.39	30.03	30.03
Cryptomonas sp.1	2.86	9.98	2.22	24.39	54.42
Synechocystis aquaticus Sauvageau	2.84	8.16	1.10	19.94	74.36
Chlymentomonas sp.	0.92	1.52	0.51	3.71	78.07
Peridinium cerasus	0.89	1.10	0.40	2.68	80.75
Gymnodinium simplex	0.75	1.04	0.40	2.54	83.29
Eutreptiella sp.	0.75	1.00	0.42	2.44	85.73
Spermatozoopsis exultans	0.63	0.72	0.35	1.76	87.50
Cryptomonas ovata	0.59	0.64	0.32	1.56	89.06
Gymnodinium splendens	0.71	0.57	0.24	1.40	90.46

Groups 60%Grp3 & 60%Grp4

Average dissimilarity = 67.03

Species	Group 60%Grp3	Group 60%Grp4	Av.Diss	Diss/SD	Contrib%	Cum.%
	Av.Abund	Av.Abund				
Unknown diatom sp. D	2.34	6.61	5.87	1.24	8.75	8.75
Skeletonema costatum	0.16	4.80	5.83	1.06	8.70	17.45
Unknown Cryptophyte sp.	4.79	5.92	4.04	1.24	6.02	23.47
Thalassiosira sp.	2.01	3.75	3.24	1.11	4.83	28.30
Unknown Dinoflagellate sp.	1.73	2.96	3.21	1.15	4.80	33.10
Unknown diatom sp.	3.09	3.46	2.45	1.23	3.66	36.76
Nitzschia closterium	0.20	1.99	2.41	1.00	3.59	40.35
Prorocentrum micans	1.61	0.32	2.38	0.60	3.55	43.90
Pyramimonas sp.	0.84	1.61	2.04	1.16	3.05	46.95
Nitzschia pungens	0.80	1.45	2.00	1.04	2.98	49.93
Chaetoceros sp.	0.13	1.70	1.94	0.80	2.90	52.83

Scenedesmus sp.	1.47	0.47	1.94	1.14	2.89	55.71
Skeletonema menezelli	0.14	1.61	1.85	0.39	2.77	58.48
Peridinium sp.	0.00	1.54	1.77	0.68	2.64	61.12
Navicula sp. small	1.23	0.29	1.72	0.88	2.57	63.69
Prorocentrum minimum	0.16	1.07	1.62	0.31	2.41	66.10
Leptocylindricus minimum	0.61	1.00	1.48	0.89	2.20	68.30
Eutreptia sp.	0.37	0.79	1.40	0.51	2.09	70.40
Prorocentrum sp.	0.45	0.73	1.30	0.49	1.94	72.33
Unknown bluegreen sp.	0.83	0.33	1.25	0.90	1.87	74.20
Navicula sp. large	0.66	0.58	1.25	0.81	1.87	76.07
Coscinodiscus sp.	0.83	0.22	1.24	0.63	1.86	77.93
Akistrodesmus sp.	0.76	0.31	1.13	0.63	1.68	79.61
Tetraedron sp.	0.82	0.23	1.12	0.77	1.67	81.28
Leptocylindricus danicus	0.27	0.68	1.02	0.55	1.53	82.81
Eutreptiella sp.	0.35	0.48	0.98	0.42	1.46	84.26
Unknown diatom sp. A	0.20	0.53	0.79	0.44	1.18	85.44
Prorocentrum redfieldi	0.40	0.26	0.76	0.33	1.13	86.57
Thalassionema nitzschoides	0.35	0.41	0.76	0.60	1.13	87.70
Aphanocapsa sp.	0.36	0.37	0.71	0.51	1.06	88.76
Unknown Katodinium sp.	0.11	0.38	0.66	0.29	0.99	89.75
Rhizosolenia setigera	0.00	0.62	0.66	0.53	0.98	90.73

Groups 60%Grp3 & 60%Grp5

Average dissimilarity = 97.87

Species	Group 60%Grp3 Av.Abund	Group 60%Grp5 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	9.39	1.54	9.59	9.59
Unknown diatom sp.	3.09	0.00	5.96	2.27	6.09	15.69
Skeletonema costatum	0.16	3.27	5.48	0.94	5.60	21.28
Unknown diatom sp. D	2.34	0.00	4.41	1.52	4.50	25.79
Unknown pennate diatom sp.	0.00	2.07	3.98	1.75	4.07	29.86
Thalassiosira sp.	2.01	0.10	3.74	1.73	3.83	33.68
Unknown Dinoflagellate sp.	1.73	0.00	3.44	0.96	3.51	37.20
Prorocentrum micans	1.61	0.00	3.38	0.54	3.45	40.65
Cyclotella sp. (small)	0.00	1.79	3.28	0.70	3.35	44.00
Cyclotella sp.	0.00	1.76	3.26	0.73	3.33	47.33
Scenedesmus sp.	1.47	0.26	2.63	1.14	2.69	50.02
Cyclotella sp. (large)	0.00	1.45	2.57	0.59	2.62	52.64
Navicula sp. small	1.23	0.00	2.45	0.83	2.50	55.14
Scenedesmus quadricauda	0.00	1.15	2.08	1.08	2.12	57.26
Eutreptia sp.	0.37	0.88	2.01	0.95	2.06	59.32

Gymnodinium sp.	0.09	1.01	1.90	1.01	1.94	61.26
Schroederia setigera	0.00	1.04	1.86	1.05	1.90	63.16
Thalassiosira pseudonana	0.00	1.05	1.84	0.55	1.88	65.03
Unknown bluegreen sp.	0.83	0.00	1.63	0.87	1.67	66.70
Coscinodiscus sp.	0.83	0.00	1.63	0.57	1.67	68.37
Scenedesmus bijinga	0.00	0.90	1.62	0.83	1.66	70.03
Thalassiosira decipiens	0.00	0.91	1.55	0.49	1.59	71.61
Pyramimonas sp.	0.84	0.00	1.52	0.82	1.56	73.17
Nitzschia pungens	0.80	0.00	1.49	0.77	1.52	74.69
Tetraedron sp.	0.82	0.08	1.43	0.77	1.47	76.16
Navicula sp. large	0.66	0.00	1.40	0.63	1.43	77.59
Nitzschia longissima	0.00	0.78	1.37	0.94	1.40	78.99
Akistrodesmus sp.	0.76	0.00	1.30	0.57	1.33	80.32
Leptocylindricus minimum	0.61	0.00	1.17	0.64	1.20	81.52
Akistrodesmus falcatus	0.00	0.64	1.17	0.69	1.19	82.71
Nitzschia sp.	0.38	0.09	0.96	0.46	0.98	83.69
Melosira sp.	0.20	0.36	0.91	0.56	0.93	84.62
Prorocentrum sp.	0.45	0.00	0.87	0.38	0.89	85.51
Bluegreen filamentous sp.	0.00	0.41	0.81	0.61	0.83	86.34
Chaetoceros subtilis	0.00	0.44	0.77	0.50	0.79	87.12
Crucigenia sp.	0.21	0.22	0.77	0.64	0.78	87.91
Prorocentrum redfieldi	0.40	0.00	0.70	0.36	0.72	88.62
Cyclotella meneghiniana	0.00	0.40	0.63	0.27	0.65	89.27
Thalassionema nitzschoides	0.35	0.00	0.63	0.48	0.64	89.91
Eutreptiella sp.	0.35	0.00	0.62	0.38	0.64	90.55

Groups 60%Grp4 & 60%Grp5

Average dissimilarity = 94.60

Species	Group 60%Grp4 Av.Abund	Group 60%Grp5 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.61	0.00	9.05	1.61	9.56	9.56
Unknown Cryptophyte sp.	5.92	0.00	8.65	2.14	9.14	18.71
Skeletonema costatum	4.80	3.27	6.56	1.16	6.93	25.64
Thalassiosira sp.	3.75	0.10	5.02	1.27	5.30	30.94
Unknown diatom sp.	3.46	0.00	4.74	1.77	5.01	35.95
Unknown Dinoflagellate sp.	2.96	0.00	4.22	1.12	4.46	40.41
Unknown pennate diatom sp.	0.00	2.07	2.99	1.70	3.16	43.57
Nitzschia closterium	1.99	0.08	2.67	1.01	2.82	46.39
Cyclotella sp. (small)	0.00	1.79	2.49	0.67	2.63	49.03
Cyclotella sp.	0.00	1.76	2.47	0.71	2.61	51.63
Pyramimonas sp.	1.61	0.00	2.15	0.89	2.27	53.91

Chaetoceros sp.	1.70	0.00	2.10	0.76	2.22	56.13
Eutreptia sp.	0.79	0.88	2.04	0.77	2.16	58.28
Cyclotella sp. (large)	0.00	1.45	1.97	0.57	2.08	60.36
Peridinium sp.	1.54	0.00	1.96	0.67	2.07	62.44
Nitzschia pungens	1.45	0.00	1.92	0.75	2.03	64.46
Skeletonema menezelli	1.61	0.00	1.88	0.35	1.99	66.45
Prorocentrum minimum	1.07	0.16	1.86	0.32	1.96	68.42
Scenedesmus quadracauda	0.00	1.15	1.58	1.04	1.67	70.09
Gymnodinium sp.	0.24	1.01	1.56	1.00	1.64	71.73
Schroederia setigera	0.00	1.04	1.42	1.03	1.50	73.23
Thalassiosira pseudonana	0.00	1.05	1.41	0.54	1.49	74.72
Scenedesmus bijinga	0.00	0.90	1.24	0.82	1.31	76.03
Thalassiosira decipiens	0.00	0.91	1.20	0.48	1.27	77.30
Leptocylindricus minimum	1.00	0.00	1.20	0.61	1.27	78.57
Nitzschia longissima	0.00	0.78	1.05	0.92	1.11	79.68
Prorocentrum sp.	0.73	0.00	0.96	0.34	1.02	80.70
Scenedesmus sp.	0.47	0.26	0.89	0.52	0.94	81.64
Akistrodesmus falcatus	0.00	0.64	0.89	0.68	0.94	82.58
Leptocylindricus danicus	0.68	0.00	0.83	0.41	0.87	83.45
Chaetoceros subtilis	0.19	0.44	0.78	0.47	0.82	84.27
Navicula sp. large	0.58	0.00	0.77	0.50	0.81	85.08
Eutreptiella sp.	0.48	0.00	0.73	0.29	0.77	85.86
Rhizosolenia setigera	0.62	0.00	0.72	0.52	0.77	86.62
Ceratium hircus	0.55	0.00	0.67	0.38	0.71	87.34
Unknown diatom sp. A	0.53	0.00	0.65	0.35	0.69	88.02
Unknown Katodinium sp.	0.38	0.00	0.63	0.24	0.67	88.69
Bluegreen filamentous sp.	0.00	0.41	0.60	0.60	0.64	89.33
Chaetoceros gracile	0.45	0.00	0.57	0.25	0.61	89.94
Melosira sp.	0.00	0.36	0.51	0.48	0.54	90.48

Groups 60%Grp3 & 60%Grp7

Average dissimilarity = 95.35

Species	Group 60%Grp3 Av.Abund	Group 60%Grp7 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.01	9.23	1.56	9.68	9.68
Skeletonema costatum	0.16	4.59	8.39	1.88	8.80	18.48
Unknown diatom sp.	3.09	0.00	5.87	2.33	6.16	24.64
Unknown diatom sp. D	2.34	0.00	4.34	1.54	4.56	29.19
Thalassiosira sp.	2.01	0.77	3.49	1.53	3.66	32.86
Prorocentrum micans	1.61	0.15	3.41	0.58	3.58	36.43
Unknown Dinoflagellate sp.	1.73	0.00	3.38	0.97	3.55	39.98

Chaetoceros subtilis	0.00	1.61	3.19	0.92	3.34	43.32
Scenedesmus sp.	1.47	0.05	2.62	1.14	2.75	46.08
Navicula sp. small	1.23	0.00	2.41	0.84	2.53	48.60
Thalassiosira pseudonana	0.00	1.07	1.88	0.71	1.97	50.57
Peridinium aciculiferum	0.00	0.94	1.87	0.77	1.97	52.54
Leptocylicus minimum	0.61	0.70	1.76	0.88	1.84	54.38
Eutreptia sp.	0.37	0.74	1.71	0.74	1.79	56.17
Nitzschia closterium	0.20	0.83	1.66	0.92	1.74	57.91
Coscinodiscus sp.	0.83	0.01	1.62	0.58	1.70	59.61
Unknown bluegreen sp.	0.83	0.00	1.61	0.88	1.69	61.30
Pyramimonas sp.	0.84	0.15	1.61	0.86	1.69	62.98
Nitzschia pungens	0.80	0.26	1.60	0.87	1.68	64.67
Unknown pennate diatom sp.	0.00	0.78	1.41	0.76	1.48	66.14
Tetraedron sp.	0.82	0.02	1.39	0.75	1.46	67.60
Navicula sp. large	0.66	0.00	1.37	0.64	1.44	69.04
Nitzschia longissima	0.00	0.73	1.36	0.97	1.43	70.47
Prorocentrum minimum	0.16	0.72	1.35	0.66	1.42	71.89
Akistrodesmus sp.	0.76	0.04	1.32	0.59	1.39	73.28
Schizothrix sp.	0.00	0.72	1.29	0.46	1.35	74.63
Schroederia setigera	0.00	0.66	1.23	0.74	1.29	75.92
Gymnodinium sp.	0.09	0.56	1.08	0.66	1.13	77.05
Cyclotella sp.	0.00	0.58	0.97	0.45	1.01	78.06
Thalassionema nitzschoides	0.35	0.27	0.95	0.63	0.99	79.06
Cyclotella sp. (small)	0.00	0.48	0.91	0.36	0.95	80.01
Prorocentrum sp.	0.45	0.00	0.86	0.38	0.90	80.91
Chaetoceros socialis	0.00	0.48	0.86	0.53	0.90	81.81
Ceratulina bergonii	0.00	0.42	0.82	0.39	0.86	82.67
Nitzschia sp.	0.38	0.03	0.80	0.40	0.84	83.51
Leptocylicus danicus	0.27	0.15	0.77	0.47	0.81	84.32
Thalassiosira decipiens	0.00	0.43	0.74	0.54	0.78	85.10
Prorocentrum redfieldi	0.40	0.00	0.69	0.36	0.73	85.83
Chaetoceros neogracile	0.00	0.37	0.67	0.50	0.71	86.53
Euglena sp.	0.00	0.39	0.66	0.38	0.69	87.23
Scenedesmus quadricauda	0.00	0.37	0.65	0.47	0.68	87.91
Eutreptiella sp.	0.35	0.00	0.61	0.39	0.64	88.55
Scrippsiella sp.	0.00	0.33	0.59	0.48	0.62	89.17
Aphanocapsa sp.	0.36	0.00	0.56	0.39	0.59	89.76
Oscillatoria sp.	0.32	0.03	0.55	0.41	0.58	90.34

Groups 60%Grp4 & 60%Grp7

Average dissimilarity = 87.96

Species	Group 60%Grp4 Av.Abund	Group 60%Grp7 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.61	0.00	8.96	1.63	10.19	10.19
Unknown Cryptophyte sp.	5.92	0.01	8.54	2.17	9.71	19.90
Skeletonema costatum	4.80	4.59	5.90	1.36	6.71	26.61
Unknown diatom sp.	3.46	0.00	4.70	1.79	5.34	31.95
Thalassiosira sp.	3.75	0.77	4.65	1.23	5.29	37.24
Unknown Dinoflagellate sp.	2.96	0.00	4.18	1.12	4.75	41.99
Nitzschia closterium	1.99	0.83	2.66	1.22	3.02	45.00
Chaetoceros subtilis	0.19	1.61	2.49	0.92	2.83	47.84
Prorocentrum minimum	1.07	0.72	2.34	0.42	2.67	50.50
Pyramimonas sp.	1.61	0.15	2.16	0.92	2.46	52.96
Chaetoceros sp.	1.70	0.05	2.10	0.78	2.39	55.35
Peridinium sp.	1.54	0.31	2.09	0.77	2.38	57.73
Nitzschia pungens	1.45	0.26	2.00	0.84	2.27	60.00
Skeletonema menezelli	1.61	0.00	1.87	0.35	2.12	62.12
Eutreptia sp.	0.79	0.74	1.85	0.65	2.10	64.22
Leptocylicus minimum	1.00	0.70	1.67	0.86	1.90	66.12
Thalassiosira pseudonana	0.00	1.07	1.44	0.69	1.64	67.76
Peridinium aciculiferum	0.00	0.94	1.40	0.76	1.59	69.35
Unknown pennate diatom sp.	0.00	0.78	1.08	0.74	1.22	70.57
Schizothrix sp.	0.07	0.72	1.04	0.47	1.18	71.75
Nitzschia longissima	0.00	0.73	1.03	0.94	1.17	72.93
Leptocylicus danicus	0.68	0.15	0.95	0.48	1.08	74.01
Prorocentrum sp.	0.73	0.00	0.95	0.35	1.08	75.09
Rhizosolenia setigera	0.62	0.25	0.94	0.67	1.07	76.16
Gymnodinium sp.	0.24	0.56	0.94	0.66	1.07	77.23
Schroederia setigera	0.00	0.66	0.93	0.72	1.06	78.29
Ceratium hircus	0.55	0.11	0.78	0.43	0.88	79.17
Navicula sp. large	0.58	0.00	0.76	0.50	0.86	80.04
Thalassionema nitzschoides	0.41	0.27	0.75	0.54	0.85	80.89
Cyclotella sp.	0.00	0.58	0.75	0.44	0.85	81.74
Eutreptiella sp.	0.48	0.00	0.72	0.29	0.82	82.57
Cyclotella sp. (small)	0.00	0.48	0.69	0.36	0.78	83.35
Scenedesmus sp.	0.47	0.05	0.68	0.41	0.78	84.12
Chaetoceros socialis	0.00	0.48	0.66	0.52	0.75	84.87
Unknown diatom sp. A	0.53	0.00	0.65	0.35	0.73	85.60
Unknown Katodinium sp.	0.38	0.00	0.62	0.24	0.71	86.31
Ceratulina bergonii	0.00	0.42	0.62	0.38	0.70	87.01
Prorocentrum micans	0.32	0.15	0.61	0.34	0.70	87.71
Thalassiosira decipiens	0.00	0.43	0.57	0.53	0.65	88.36
Chaetoceros gracile	0.45	0.00	0.57	0.25	0.65	89.01
Chaetoceros neogracile	0.00	0.37	0.51	0.49	0.58	89.59

Euglena sp.	0.00	0.39	0.51	0.37	0.58	90.17
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Groups 60%Grp5 & 60%Grp7

Average dissimilarity = 77.89

Species	Group 60%Grp5 Av.Abund	Group 60%Grp7 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	4.59	8.41	1.28	10.80	10.80
Cyclotella sp. (small)	1.79	0.48	4.25	0.78	5.46	16.26
Cyclotella sp.	1.76	0.58	4.19	0.84	5.38	21.64
Chaetoceros subtilis	0.44	1.61	3.80	0.90	4.88	26.52
Unknown pennate diatom sp.	2.07	0.78	3.80	1.21	4.88	31.40
Thalassiosira pseudonana	1.05	1.07	3.39	0.88	4.35	35.75
Cyclotella sp. (large)	1.45	0.05	3.02	0.60	3.88	39.63
Scenedesmus quadracauda	1.15	0.37	2.47	1.09	3.17	42.80
Gymnodinium sp.	1.01	0.56	2.38	1.04	3.05	45.85
Eutreptia sp.	0.88	0.74	2.34	1.05	3.01	48.86
Thalassiosira decipiens	0.91	0.43	2.33	0.67	2.99	51.85
Peridinium aciculiferum	0.11	0.94	2.31	0.77	2.96	54.81
Schroederia setigera	1.04	0.66	2.30	1.10	2.95	57.77
Scenedesmus bijinga	0.90	0.18	1.98	0.86	2.54	60.31
Nitzschia longissima	0.78	0.73	1.88	1.09	2.42	62.73
Nitzschia closterium	0.08	0.83	1.81	0.87	2.32	65.05
Thalassiosira sp.	0.10	0.77	1.73	0.56	2.22	67.27
Prorocentrum minimum	0.16	0.72	1.58	0.69	2.03	69.30
Akistrodesmus falcatus	0.64	0.23	1.56	0.75	2.00	71.30
Schizothrix sp.	0.00	0.72	1.52	0.45	1.96	73.25
Leptocylicus minimum	0.00	0.70	1.40	0.61	1.79	75.04
Bluegreen filamentous sp.	0.41	0.10	1.05	0.64	1.35	76.40
Merismopedia punctata	0.29	0.22	1.04	0.47	1.33	77.73
Chaetoceros socialis	0.00	0.48	1.01	0.52	1.30	79.03
Ceratulina bergonii	0.00	0.42	1.00	0.37	1.28	80.31
Euglena sp.	0.09	0.39	0.90	0.43	1.15	81.46
Crucigenia sp.	0.22	0.14	0.86	0.57	1.11	82.57
Melosira sp.	0.36	0.03	0.84	0.51	1.08	83.65
Scrippsiella sp.	0.08	0.33	0.83	0.53	1.06	84.71
Chaetoceros neogracile	0.00	0.37	0.80	0.49	1.03	85.74
Scenedesmus acutus	0.34	0.06	0.79	0.43	1.01	86.74
Cyclotella meneghiniana	0.40	0.03	0.76	0.29	0.98	87.72
Pleurosigma sp.	0.24	0.06	0.72	0.52	0.93	88.65
Gonyaulax polygramma	0.00	0.28	0.66	0.44	0.85	89.50
Peridinium sp.	0.00	0.31	0.63	0.45	0.81	90.31

Groups 60%Grp3 & 60%Grp6

Average dissimilarity = 93.48

Species	Group 60%Grp3 Av.Abund	Group 60%Grp6 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	8.38	1.42	8.97	8.97
Skeletonema costatum	0.16	5.07	7.23	1.50	7.74	16.71
Unknown diatom sp.	3.09	0.00	5.33	1.96	5.70	22.40
Unknown diatom sp. D	2.34	0.00	3.94	1.41	4.22	26.62
Prorocentrum micans	1.61	0.97	3.55	0.71	3.79	30.42
Schizothrix sp.	0.00	2.14	3.24	0.68	3.46	33.88
Unknown Dinoflagellate sp.	1.73	0.00	3.07	0.91	3.28	37.16
Thalassiosira sp.	2.01	0.93	3.01	1.33	3.22	40.39
Thalassionema nitzschoides	0.35	1.63	2.74	0.73	2.93	43.31
Scenedesmus sp.	1.47	0.00	2.39	1.06	2.56	45.87
Ceratulina bergonii	0.00	1.39	2.32	0.80	2.48	48.36
Leptocylicus minimum	0.61	1.63	2.27	1.14	2.43	50.78
Navicula sp. small	1.23	0.00	2.18	0.80	2.34	53.12
Nitzschia pungens	0.80	1.11	2.07	0.99	2.21	55.33
Nitzschia closterium	0.20	1.37	2.00	0.84	2.14	57.47
Chaetoceros socialis	0.00	1.47	1.94	0.81	2.07	59.55
Chaetoceros neogracile	0.00	1.24	1.83	0.88	1.95	61.50
Unknown pennate diatom sp.	0.00	1.09	1.75	0.87	1.87	63.37
Coscinodiscus sp.	0.83	0.10	1.55	0.59	1.65	65.03
Unknown bluegreen sp.	0.83	0.00	1.46	0.83	1.56	66.59
Rhizosolenia setigera	0.00	0.93	1.43	0.80	1.53	68.12
Pyramimonas sp.	0.84	0.06	1.38	0.80	1.47	69.59
Tetraedron sp.	0.82	0.00	1.26	0.71	1.35	70.94
Navicula sp. large	0.66	0.00	1.24	0.60	1.33	72.27
Akistrodesmus sp.	0.76	0.00	1.17	0.55	1.25	73.52
Chaetoceros compressum	0.00	0.87	1.12	0.67	1.19	74.71
Asterionella glacialis	0.00	0.87	1.11	0.67	1.18	75.90
Chaetoceros sp.	0.13	0.56	1.11	0.38	1.18	77.08
Ceratium hircus	0.00	0.73	1.08	0.85	1.16	78.24
Prorocentrum minimum	0.16	0.72	1.08	0.93	1.16	79.40
Thalassiosira decipiens	0.00	0.64	1.02	0.62	1.10	80.49
Leptocylicus danicus	0.27	0.46	0.98	0.63	1.05	81.54
Eutreptia sp.	0.37	0.14	0.87	0.42	0.93	82.47
Melosira sp.	0.20	0.26	0.85	0.41	0.91	83.38
Nitzschia longissima	0.00	0.64	0.84	0.87	0.90	84.28
Prorocentrum sp.	0.45	0.00	0.78	0.37	0.83	85.12

Nitzschia sp.	0.38	0.05	0.75	0.40	0.80	85.92
Peridinium sp.	0.00	0.41	0.74	0.55	0.79	86.71
Chaetoceros subtilis	0.00	0.59	0.68	0.54	0.73	87.44
Prorocentrum redfieldi	0.40	0.00	0.63	0.35	0.68	88.12
Amphora sp.	0.00	0.41	0.59	0.44	0.63	88.75
Eutreptiella sp.	0.35	0.00	0.56	0.38	0.60	89.34
Pleurosigma sp.	0.09	0.27	0.52	0.54	0.55	89.90
Aphanocapsa sp.	0.36	0.00	0.51	0.38	0.55	90.45

Groups 60%Grp4 & 60%Grp6

Average dissimilarity = 87.06

Species	Group 60%Grp4 Av.Abund	Group 60%Grp6 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.61	0.00	8.24	1.53	9.47	9.47
Unknown Cryptophyte sp.	5.92	0.00	7.85	1.96	9.01	18.48
Skeletonema costatum	4.80	5.07	6.00	1.21	6.90	25.38
Unknown diatom sp.	3.46	0.00	4.32	1.67	4.96	30.34
Thalassiosira sp.	3.75	0.93	4.11	1.11	4.72	35.06
Unknown Dinoflagellate sp.	2.96	0.00	3.83	1.08	4.40	39.47
Nitzschia closterium	1.99	1.37	2.63	1.11	3.03	42.49
Schizothrix sp.	0.07	2.14	2.58	0.68	2.96	45.45
Chaetoceros sp.	1.70	0.56	2.24	0.80	2.58	48.03
Thalassionema nitzschoides	0.41	1.63	2.22	0.76	2.56	50.59
Nitzschia pungens	1.45	1.11	2.17	0.96	2.49	53.07
Prorocentrum minimum	1.07	0.72	2.08	0.40	2.38	55.46
Leptocylindricus minimum	1.00	1.63	2.05	1.13	2.35	57.81
Peridinium sp.	1.54	0.41	2.00	0.81	2.30	60.11
Pyramimonas sp.	1.61	0.06	1.97	0.88	2.26	62.37
Ceratulina bergonii	0.00	1.39	1.78	0.84	2.05	64.41
Skeletonema menezelli	1.61	0.00	1.73	0.35	1.99	66.40
Chaetoceros socialis	0.00	1.47	1.57	0.80	1.80	68.21
Chaetoceros neogracile	0.00	1.24	1.45	0.87	1.66	69.87
Prorocentrum micans	0.32	0.97	1.43	0.83	1.64	71.51
Rhizosolenia setigera	0.62	0.93	1.38	0.94	1.59	73.09
Unknown pennate diatom sp.	0.00	1.09	1.35	0.87	1.55	74.65
Ceratium hircus	0.55	0.73	1.27	0.82	1.46	76.11
Eutreptia sp.	0.79	0.14	1.22	0.43	1.40	77.50
Leptocylindricus danicus	0.68	0.46	1.10	0.61	1.27	78.77
Chaetoceros compressum	0.00	0.87	0.91	0.66	1.04	79.81
Asterionella glacialis	0.00	0.87	0.90	0.66	1.04	80.85
Prorocentrum sp.	0.73	0.00	0.88	0.34	1.01	81.85

Thalassiosira decipiens	0.00	0.64	0.79	0.64	0.90	82.76
Chaetoceros subtilis	0.19	0.59	0.74	0.50	0.85	83.61
Navicula sp. large	0.58	0.00	0.70	0.49	0.80	84.41
Nitzschia longissima	0.00	0.64	0.68	0.86	0.78	85.19
Eutreptiella sp.	0.48	0.00	0.66	0.28	0.76	85.96
Amphora sp.	0.15	0.41	0.65	0.48	0.75	86.71
Unknown diatom sp. A	0.53	0.00	0.60	0.35	0.69	87.39
Scenedesmus sp.	0.47	0.00	0.58	0.38	0.67	88.06
Unknown Katodinium sp.	0.38	0.00	0.57	0.24	0.65	88.72
Chaetoceros gracile	0.45	0.05	0.56	0.27	0.64	89.36
Gymnodinium sp.	0.24	0.25	0.49	0.49	0.56	89.92
Melosira sp.	0.00	0.26	0.45	0.32	0.52	90.44

Groups 60%Grp5 & 60%Grp6

Average dissimilarity = 86.73

Species	Group 60%Grp5 Av.Abund	Group 60%Grp6 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	5.07	8.12	1.31	9.36	9.36
Schizothrix sp.	0.00	2.14	3.73	0.68	4.30	13.66
Cyclotella sp.	1.76	0.00	3.47	0.68	4.00	17.67
Cyclotella sp. (small)	1.79	0.00	3.46	0.66	3.99	21.66
Thalassionema nitzschoides	0.00	1.63	3.35	0.68	3.87	25.52
Unknown pennate diatom sp.	2.07	1.09	3.28	1.11	3.78	29.30
Ceratulina bergonii	0.00	1.39	2.75	0.73	3.17	32.48
Cyclotella sp. (large)	1.45	0.00	2.69	0.56	3.10	35.58
Leptocylindricus minimum	0.00	1.63	2.49	1.10	2.87	38.44
Thalassiosira decipiens	0.91	0.64	2.38	0.70	2.75	41.19
Nitzschia closterium	0.08	1.37	2.21	0.83	2.55	43.74
Thalassiosira pseudonana	1.05	0.37	2.20	0.62	2.53	46.27
Scenedesmus quadracauda	1.15	0.06	2.18	0.98	2.52	48.79
Chaetoceros socialis	0.00	1.47	2.17	0.80	2.51	51.29
Chaetoceros neogracile	0.00	1.24	2.10	0.85	2.42	53.71
Gymnodinium sp.	1.01	0.25	1.99	0.91	2.30	56.01
Schroederia setigera	1.04	0.09	1.95	0.97	2.24	58.26
Eutreptia sp.	0.88	0.14	1.87	0.88	2.15	60.41
Prorocentrum micans	0.00	0.97	1.79	0.95	2.07	62.47
Scenedesmus bijinga	0.90	0.06	1.74	0.79	2.01	64.48
Nitzschia pungens	0.00	1.11	1.70	0.70	1.96	66.44
Rhizosolenia setigera	0.00	0.93	1.68	0.75	1.94	68.38
Thalassiosira sp.	0.10	0.93	1.67	0.66	1.92	70.30
Nitzschia longissima	0.78	0.64	1.58	0.98	1.82	72.12

Melosira sp.	0.36	0.26	1.33	0.49	1.53	73.65
Chaetoceros subtilis	0.44	0.59	1.33	0.70	1.53	75.18
Akistrodesmus falcatus	0.64	0.05	1.27	0.65	1.47	76.65
Chaetoceros compressum	0.00	0.87	1.25	0.66	1.44	78.09
Ceratium hircus	0.00	0.73	1.24	0.83	1.43	79.53
Asterionella glacialis	0.00	0.87	1.24	0.66	1.43	80.95
Prorocentrum minimum	0.16	0.72	1.19	0.92	1.38	82.33
Chaetoceros sp.	0.00	0.56	1.18	0.32	1.36	83.69
Bluegreen filamentous sp.	0.41	0.06	0.92	0.59	1.06	84.75
Peridinium sp.	0.00	0.41	0.89	0.52	1.02	85.77
Pleurosigma sp.	0.24	0.27	0.87	0.62	1.01	86.78
Merismopedia punctata	0.29	0.09	0.77	0.41	0.89	87.67
Leptocylindricus danicus	0.00	0.46	0.69	0.58	0.80	88.47
Amphora sp.	0.00	0.41	0.67	0.43	0.77	89.24
Cyclotella meneghiniana	0.40	0.00	0.65	0.27	0.75	89.99
Scenedesmus acutus	0.34	0.00	0.62	0.38	0.71	90.71

Groups 60%Grp7 & 60%Grp6

Average dissimilarity = 76.28

Species	Group 60%Grp7 Av.Abund	Group 60%Grp6 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	4.59	5.07	7.02	1.16	9.21	9.21
Schizothrix sp.	0.72	2.14	4.24	0.80	5.56	14.77
Chaetoceros subtilis	1.61	0.59	3.42	0.83	4.48	19.26
Thalassionema nitzschoides	0.27	1.63	3.25	0.70	4.25	23.51
Ceratulina bergonii	0.42	1.39	2.84	0.76	3.72	27.24
Leptocylindricus minimum	0.70	1.63	2.64	1.11	3.46	30.70
Nitzschia closterium	0.83	1.37	2.59	1.03	3.40	34.09
Chaetoceros socialis	0.48	1.47	2.47	0.94	3.24	37.33
Thalassiosira sp.	0.77	0.93	2.38	0.77	3.12	40.45
Unknown pennate diatom sp.	0.78	1.09	2.32	0.96	3.04	43.49
Chaetoceros neogracile	0.37	1.24	2.17	0.90	2.84	46.33
Thalassiosira pseudonana	1.07	0.37	2.16	0.75	2.83	49.15
Peridinium aciculiferum	0.94	0.06	2.03	0.71	2.66	51.81
Nitzschia pungens	0.26	1.11	1.89	0.79	2.47	54.29
Prorocentrum micans	0.15	0.97	1.78	0.97	2.34	56.62
Rhizosolenia setigera	0.25	0.93	1.78	0.83	2.33	58.95
Prorocentrum minimum	0.72	0.72	1.71	0.85	2.25	61.20
Thalassiosira decipiens	0.43	0.64	1.54	0.72	2.02	63.21
Nitzschia longissima	0.73	0.64	1.52	0.96	2.00	65.21
Eutreptia sp.	0.74	0.14	1.48	0.68	1.94	67.15

Schroederia setigera	0.66	0.09	1.34	0.71	1.76	68.91
Chaetoceros compressum	0.07	0.87	1.33	0.68	1.74	70.65
Asterionella glacialis	0.08	0.87	1.31	0.69	1.71	72.36
Ceratium hircus	0.11	0.73	1.30	0.85	1.71	74.07
Chaetoceros sp.	0.05	0.56	1.23	0.35	1.61	75.68
Gymnodinium sp.	0.56	0.25	1.21	0.67	1.59	77.27
Peridinium sp.	0.31	0.41	1.16	0.65	1.53	78.80
Cyclotella sp.	0.58	0.00	1.01	0.44	1.32	80.12
Cyclotella sp. (small)	0.48	0.00	0.96	0.34	1.26	81.38
Gonyaulax polygramma	0.28	0.22	0.94	0.53	1.23	82.61
Scrippsiella sp.	0.33	0.24	0.87	0.58	1.15	83.76
Melosira sp.	0.03	0.26	0.85	0.33	1.11	84.87
Leptocylindricus danicus	0.15	0.46	0.84	0.64	1.11	85.97
Amphora sp.	0.10	0.41	0.78	0.50	1.02	86.99
Scenedesmus quadricauda	0.37	0.06	0.77	0.49	1.01	88.01
Euglena sp.	0.39	0.00	0.69	0.36	0.90	88.91
Pleurosigma sp.	0.06	0.27	0.59	0.49	0.77	89.68
Merismopedia punctata	0.22	0.09	0.58	0.33	0.76	90.44

Groups 60%Grp3 & 60%Grp1

Average dissimilarity = 99.17

Species	Group 60%Grp3 Av.Abund	Group 60%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	8.61	1.60	8.68	8.68
Synechocystis aquaticus Sauvageau	0.00	3.49	6.61	1.63	6.67	15.35
Cryptomonas sp.1	0.00	3.26	5.92	3.21	5.97	21.31
Unknown diatom sp.	3.09	0.00	5.47	2.44	5.51	26.83
Unknown diatom sp. D	2.34	0.00	4.05	1.58	4.09	30.91
Scenedesmus quadricauda v. Westii	0.00	2.19	3.89	1.35	3.92	34.84
Thalassiosira sp.	2.01	0.00	3.54	1.93	3.57	38.41
Spermatozoopsis exultans	0.00	1.79	3.22	1.30	3.25	41.66
Gonyaulax palustre	0.00	1.82	3.22	1.53	3.25	44.90
Unknown Dinoflagellate sp.	1.73	0.00	3.14	0.99	3.17	48.07
Prorocentrum micans	1.61	0.00	3.07	0.56	3.10	51.17
Cryptomonas erosa	0.00	1.46	2.50	1.18	2.52	53.69
Scenedesmus sp.	1.47	0.00	2.46	1.14	2.48	56.18
Navicula sp. small	1.23	0.00	2.24	0.85	2.26	58.43
Skeletonema costatum	0.16	1.15	2.17	0.77	2.19	60.62
Chlymentomonas sp.	0.00	1.14	1.96	0.96	1.98	62.60
Cryptomonas ovata	0.00	1.01	1.83	0.87	1.85	64.44
Eutreptiella sp.	0.35	0.80	1.60	0.93	1.62	66.06

Coelosphaerium sp.	0.00	0.90	1.53	0.59	1.55	67.61
Coscinodiscus sp.	0.83	0.00	1.50	0.58	1.51	69.12
Unknown bluegreen sp.	0.83	0.00	1.49	0.89	1.51	70.62
Pyramimonas sp.	0.84	0.00	1.41	0.84	1.42	72.04
Nitzschia pungens	0.80	0.12	1.41	0.83	1.42	73.46
Tetraedron sp.	0.82	0.05	1.32	0.76	1.33	74.79
Navicula sp. large	0.66	0.00	1.27	0.64	1.28	76.07
Akistrodesmus sp.	0.76	0.00	1.21	0.57	1.22	77.29
Cyclotella sp.	0.00	0.73	1.17	0.66	1.18	78.47
Nitzschia palea	0.00	0.70	1.17	0.83	1.18	79.65
Leptocylicus minimum	0.61	0.00	1.07	0.66	1.08	80.73
Unknown flagellate sp. 1	0.00	0.56	0.99	0.60	1.00	81.73
Chroococcus minutus	0.00	0.56	0.87	0.43	0.88	82.62
Nitzschia sp.	0.38	0.10	0.84	0.46	0.85	83.47
Prorocentrum sp.	0.45	0.00	0.80	0.38	0.81	84.27
Eutreptia sp.	0.37	0.00	0.68	0.35	0.69	84.96
Cyclotella undulata	0.00	0.37	0.67	0.29	0.68	85.64
Prorocentrum redfieldi	0.40	0.00	0.65	0.36	0.66	86.29
Aphanocapsa sp.	0.36	0.08	0.63	0.44	0.63	86.92
Euglena acus	0.00	0.35	0.58	0.34	0.58	87.51
Thalassionema nitzschoides	0.35	0.00	0.58	0.49	0.58	88.09
Leptocylicus danicus	0.27	0.00	0.55	0.39	0.56	88.65
Scenedesmus abundans v. brevicauda	0.00	0.35	0.54	0.37	0.54	89.19
Merismopedia sp.	0.18	0.20	0.50	0.40	0.50	89.69
Merismopedia glauca	0.00	0.32	0.50	0.36	0.50	90.19

Groups 60%Grp4 & 60%Grp1

Average dissimilarity = 97.66

Species	Group 60%Grp4 Av.Abund	Group 60%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.61	0.00	8.51	1.65	8.72	8.72
Unknown Cryptophyte sp.	5.92	0.00	8.10	2.26	8.29	17.01
Skeletonema costatum	4.80	1.15	5.85	1.15	5.99	22.99
Synechocystis aquaticus Sauvageau	0.00	3.49	5.00	1.56	5.12	28.11
Thalassiosira sp.	3.75	0.00	4.79	1.30	4.90	33.02
Cryptomonas sp.1	0.00	3.26	4.51	2.80	4.62	37.63
Unknown diatom sp.	3.46	0.00	4.46	1.81	4.57	42.21
Unknown Dinoflagellate sp.	2.96	0.00	3.96	1.14	4.05	46.26
Scenedesmus quadricauda v. Westii	0.00	2.19	2.98	1.32	3.05	49.31
Nitzschia closterium	1.99	0.00	2.52	0.99	2.58	51.89
Gonyaulax palustre	0.00	1.82	2.47	1.47	2.53	54.42

Spermatozoopsis exultans	0.00	1.79	2.46	1.27	2.52	56.94
Pyramimonas sp.	1.61	0.00	2.03	0.90	2.08	59.01
Chaetoceros sp.	1.70	0.00	1.99	0.76	2.04	61.05
Cryptomonas erosa	0.00	1.46	1.93	1.14	1.98	63.02
Peridinium sp.	1.54	0.00	1.85	0.68	1.90	64.92
Nitzschia pungens	1.45	0.12	1.85	0.79	1.89	66.81
Skeletonema menezelli	1.61	0.00	1.79	0.35	1.83	68.65
Prorocentrum minimum	1.07	0.00	1.57	0.29	1.61	70.25
Chlymentomonas sp.	0.00	1.14	1.51	0.95	1.55	71.80
Eutreptiella sp.	0.48	0.80	1.48	0.66	1.52	73.32
Cryptomonas ovata	0.00	1.01	1.40	0.86	1.43	74.76
Coelosphaerium sp.	0.00	0.90	1.19	0.58	1.21	75.97
Leptocylindricus minimum	1.00	0.00	1.14	0.62	1.17	77.14
Eutreptia sp.	0.79	0.00	1.12	0.39	1.14	78.28
Cyclotella sp.	0.00	0.73	0.92	0.65	0.94	79.22
Prorocentrum sp.	0.73	0.00	0.90	0.35	0.93	80.14
Nitzschia palea	0.00	0.70	0.90	0.82	0.93	81.07
Leptocylindricus danicus	0.68	0.00	0.78	0.41	0.80	81.87
Unknown flagellate sp. 1	0.00	0.56	0.76	0.59	0.78	82.65
Navicula sp. large	0.58	0.00	0.72	0.51	0.74	83.39
Chroococcus minutus	0.00	0.56	0.69	0.43	0.71	84.10
Rhizosolenia setigera	0.62	0.00	0.69	0.53	0.70	84.80
Unknown Katodinium sp.	0.38	0.07	0.65	0.27	0.67	85.47
Ceratium hircus	0.55	0.00	0.64	0.38	0.65	86.12
Unknown diatom sp. A	0.53	0.00	0.62	0.35	0.63	86.75
Scenedesmus sp.	0.47	0.00	0.60	0.39	0.62	87.37
Chaetoceros gracile	0.45	0.00	0.54	0.25	0.56	87.93
Cyclotella undulata	0.00	0.37	0.51	0.29	0.53	88.45
Aphanocapsa sp.	0.37	0.08	0.47	0.40	0.48	88.93
Euglena acus	0.00	0.35	0.45	0.34	0.46	89.39
Thalassionema nitzschoides	0.41	0.00	0.43	0.36	0.44	89.83
Unknown bluegreen sp.	0.33	0.00	0.43	0.33	0.44	90.27

Groups 60%Grp5 & 60%Grp1

Average dissimilarity = 96.08

Species	Group 60%Grp5 Av.Abund	Group 60%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	3.49	7.90	1.52	8.22	8.22
Cryptomonas sp.1	0.00	3.26	7.01	2.77	7.29	15.51
Skeletonema costatum	3.27	1.15	5.87	1.04	6.11	21.62
Scenedesmus quadricauda v. Westii	0.00	2.19	4.58	1.29	4.77	26.39

Unknown pennate diatom sp.	2.07	0.00	4.30	1.73	4.48	30.87
Cyclotella sp.	1.76	0.73	3.84	0.90	3.99	34.86
Spermatozoopsis exultans	0.00	1.79	3.81	1.22	3.97	38.83
Gonyaulax palustre	0.00	1.82	3.78	1.48	3.94	42.77
Cyclotella sp. (small)	1.79	0.00	3.52	0.70	3.67	46.43
Cryptomonas erosa	0.00	1.46	2.92	1.15	3.04	49.48
Cyclotella sp. (large)	1.45	0.00	2.75	0.59	2.86	52.34
Chlymentomonas sp.	0.00	1.14	2.30	0.94	2.39	54.73
Scenedesmus quadricauda	1.15	0.00	2.23	1.08	2.32	57.05
Cryptomonas ovata	0.00	1.01	2.16	0.85	2.25	59.30
Gymnodinium sp.	1.01	0.00	2.06	0.99	2.14	61.44
Schroederia setigera	1.04	0.00	1.99	1.05	2.07	63.52
Thalassiosira pseudonana	1.05	0.00	1.97	0.55	2.05	65.56
Eutreptia sp.	0.88	0.00	1.83	0.96	1.90	67.47
Scenedesmus bijinga	0.90	0.17	1.80	0.86	1.87	69.34
Coelosphaerium sp.	0.00	0.90	1.79	0.58	1.87	71.20
Thalassiosira decipiens	0.91	0.00	1.66	0.49	1.73	72.93
Eutreptiella sp.	0.00	0.80	1.58	0.84	1.64	74.57
Nitzschia longissima	0.78	0.00	1.47	0.94	1.53	76.11
Nitzschia palea	0.00	0.70	1.36	0.81	1.42	77.53
Akistrodesmus falcatus	0.64	0.00	1.25	0.68	1.30	78.83
Unknown flagellate sp. 1	0.00	0.56	1.17	0.58	1.22	80.05
Chaetoceros subtilis	0.44	0.16	1.06	0.53	1.10	81.15
Chroococcus minutus	0.00	0.56	1.01	0.43	1.05	82.19
Bluegreen filamentous sp.	0.41	0.00	0.88	0.61	0.91	83.11
Cyclotella undulata	0.00	0.37	0.79	0.29	0.82	83.93
Melosira sp.	0.36	0.00	0.73	0.49	0.76	84.69
Euglena acus	0.00	0.35	0.68	0.34	0.70	85.39
Cyclotella meneghiniana	0.40	0.00	0.67	0.27	0.70	86.09
Scenedesmus acutus	0.34	0.00	0.63	0.40	0.66	86.75
Euglena sp.	0.09	0.21	0.63	0.26	0.66	87.41
Merismopedia punctata	0.29	0.00	0.62	0.39	0.65	88.06
Scenedesmus abundans v. brevicauda	0.00	0.35	0.61	0.37	0.64	88.69
Crucigenia sp.	0.22	0.00	0.60	0.50	0.62	89.31
Merismopedia glauca	0.00	0.32	0.57	0.36	0.59	89.91
Nitzschia fruticosa	0.00	0.30	0.57	0.35	0.59	90.49

Groups 60%Grp7 & 60%Grp1

Average dissimilarity = 94.75

Species	Group 60%Grp7 Av.Abund	Group 60%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
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Synechocystis aquaticus Sauvageau	0.00	3.49	7.75	1.55	8.18	8.18
Skeletonema costatum	4.59	1.15	7.32	1.48	7.73	15.91
Cryptomonas sp.1	0.00	3.26	6.89	2.90	7.27	23.17
Scenedesmus quadricauda v. Westii	0.00	2.19	4.51	1.31	4.76	27.93
Spermatozoopsis exultans	0.00	1.79	3.75	1.24	3.96	31.89
Gonyaulax palustre	0.00	1.82	3.72	1.50	3.93	35.82
Chaetoceros subtilis	1.61	0.16	3.50	0.94	3.70	39.51
Cryptomonas erosa	0.00	1.46	2.88	1.16	3.04	42.55
Chlymentomonas sp.	0.00	1.14	2.26	0.95	2.39	44.94
Cryptomonas ovata	0.00	1.01	2.13	0.86	2.24	47.18
Peridinium aciculiferum	0.94	0.00	2.03	0.77	2.14	49.32
Thalassiosira pseudonana	1.07	0.00	2.01	0.71	2.12	51.45
Cyclotella sp.	0.58	0.73	1.95	0.79	2.06	53.50
Coelosphaerium sp.	0.00	0.90	1.77	0.58	1.86	55.37
Nitzschia closterium	0.83	0.00	1.62	0.87	1.71	57.08
Eutreptiella sp.	0.00	0.80	1.56	0.84	1.64	58.72
Unknown pennate diatom sp.	0.78	0.00	1.51	0.76	1.59	60.32
Thalassiosira sp.	0.77	0.00	1.49	0.54	1.57	61.89
Nitzschia longissima	0.73	0.00	1.46	0.97	1.54	63.43
Schizothrix sp.	0.72	0.00	1.38	0.46	1.46	64.89
Eutreptia sp.	0.74	0.00	1.37	0.69	1.45	66.34
Nitzschia palea	0.00	0.70	1.34	0.82	1.41	67.75
Schroederia setigera	0.66	0.00	1.32	0.74	1.40	69.15
Prorocentrum minimum	0.72	0.00	1.30	0.61	1.37	70.52
Leptocylindricus minimum	0.70	0.00	1.27	0.62	1.34	71.86
Unknown flagellate sp. 1	0.00	0.56	1.15	0.59	1.21	73.07
Euglena sp.	0.39	0.21	1.12	0.40	1.18	74.25
Gymnodinium sp.	0.56	0.00	1.07	0.61	1.13	75.38
Chroococcus minutus	0.00	0.56	0.99	0.43	1.05	76.43
Cyclotella sp. (small)	0.48	0.00	0.98	0.36	1.03	77.46
Chaetoceros socialis	0.48	0.00	0.92	0.53	0.97	78.43
Ceratulina bergonii	0.42	0.00	0.89	0.38	0.94	79.37
Thalassiosira decipiens	0.43	0.00	0.79	0.54	0.84	80.21
Cyclotella undulata	0.00	0.37	0.78	0.29	0.82	81.03
Chaetoceros neogracile	0.37	0.00	0.72	0.50	0.76	81.79
Scenedesmus quadracauda	0.37	0.00	0.69	0.47	0.73	82.52
Euglena acus	0.00	0.35	0.67	0.34	0.70	83.23
Nitzschia pungens	0.26	0.12	0.65	0.50	0.69	83.92
Scrippsiella sp.	0.33	0.00	0.64	0.47	0.67	84.59
Scenedesmus abundans v. brevicauda	0.00	0.35	0.60	0.37	0.64	85.23
Gonyaulax polygramma	0.28	0.00	0.59	0.45	0.63	85.86
Peridinium sp.	0.31	0.00	0.57	0.46	0.61	86.46
Merismopedia glauca	0.00	0.32	0.56	0.36	0.59	87.05

Nitzschia fruticosa	0.00	0.30	0.56	0.35	0.59	87.64
Scenedesmus bijinga	0.18	0.17	0.54	0.43	0.57	88.21
Thalassionema nitzschoides	0.27	0.00	0.53	0.40	0.56	88.78
Stephanodiscus sp.	0.00	0.26	0.51	0.34	0.54	89.31
Rhizosolenia setigera	0.25	0.00	0.51	0.41	0.53	89.85
Spirulina sp.1	0.00	0.24	0.44	0.35	0.46	90.31

Groups 60%Grp6 & 60%Grp1

Average dissimilarity = 96.78

Species	Group 60%Grp6 Av.Abund	Group 60%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.07	1.15	7.00	1.48	7.24	7.24
Synechocystis aquaticus Sauvageau	0.00	3.49	7.00	1.36	7.23	14.47
Cryptomonas sp.1	0.00	3.26	6.22	2.20	6.43	20.90
Scenedesmus quadricauda v. Westii	0.00	2.19	4.08	1.19	4.21	25.11
Schizothrix sp.	2.14	0.00	3.44	0.68	3.56	28.67
Spermatozoopsis exultans	0.00	1.79	3.39	1.12	3.50	32.17
Gonyaulax palustre	0.00	1.82	3.37	1.35	3.48	35.65
Thalassionema nitzschoides	1.63	0.00	3.01	0.71	3.11	38.76
Cryptomonas erosa	0.00	1.46	2.61	1.08	2.69	41.45
Ceratulina bergonii	1.39	0.00	2.49	0.79	2.57	44.02
Leptocylindricus minimum	1.63	0.00	2.32	1.11	2.40	46.42
Chlymentomonas sp.	0.00	1.14	2.05	0.89	2.12	48.54
Chaetoceros socialis	1.47	0.00	2.04	0.81	2.11	50.65
Nitzschia closterium	1.37	0.00	2.00	0.80	2.07	52.71
Chaetoceros neogracile	1.24	0.00	1.94	0.87	2.00	54.72
Cryptomonas ovata	0.00	1.01	1.92	0.80	1.99	56.70
Unknown pennate diatom sp.	1.09	0.00	1.88	0.86	1.94	58.64
Nitzschia pungens	1.11	0.12	1.65	0.75	1.70	60.35
Prorocentrum micans	0.97	0.00	1.64	0.98	1.70	62.04
Coelosphaerium sp.	0.00	0.90	1.60	0.56	1.65	63.69
Rhizosolenia setigera	0.93	0.00	1.53	0.80	1.58	65.27
Thalassiosira sp.	0.93	0.00	1.48	0.65	1.53	66.80
Eutreptiella sp.	0.00	0.80	1.41	0.80	1.46	68.26
Cyclotella sp.	0.00	0.73	1.22	0.63	1.26	69.52
Nitzschia palea	0.00	0.70	1.22	0.78	1.26	70.77
Chaetoceros compressum	0.87	0.00	1.17	0.67	1.21	71.98
Asterionella glacialis	0.87	0.00	1.16	0.67	1.20	73.19
Ceratium hircus	0.73	0.00	1.15	0.85	1.19	74.37
Thalassiosira decipiens	0.64	0.00	1.10	0.61	1.14	75.51
Chaetoceros sp.	0.56	0.00	1.06	0.34	1.10	76.61

Unknown flagellate sp. 1	0.00	0.56	1.04	0.56	1.08	77.68
Prorocentrum minimum	0.72	0.00	1.01	0.94	1.05	78.73
Chaetoceros subtilis	0.59	0.16	0.92	0.54	0.95	79.68
Chroococcus minutus	0.00	0.56	0.90	0.42	0.93	80.62
Nitzschia longissima	0.64	0.00	0.89	0.86	0.92	81.53
Peridinium sp.	0.41	0.00	0.80	0.54	0.82	82.36
Melosira sp.	0.26	0.00	0.71	0.33	0.73	83.09
Cyclotella undulata	0.00	0.37	0.70	0.28	0.73	83.81
Leptocylindricus danicus	0.46	0.00	0.65	0.59	0.67	84.48
Amphora sp.	0.41	0.00	0.62	0.44	0.64	85.13
Euglena acus	0.00	0.35	0.60	0.33	0.62	85.75
Scenedesmus abundans v. brevicauda	0.00	0.35	0.55	0.36	0.57	86.32
Merismopedia glauca	0.00	0.32	0.51	0.35	0.53	86.85
Nitzschia fruticosa	0.00	0.30	0.51	0.34	0.52	87.37
Chaetoceros curvisetus	0.43	0.00	0.49	0.33	0.51	87.88
Thalassiosira pseudonana	0.37	0.00	0.48	0.39	0.50	88.38
Stephanodiscus sp.	0.00	0.26	0.46	0.33	0.48	88.85
Gonyaulax polygramma	0.22	0.00	0.46	0.35	0.47	89.33
Pleurosigma sp.	0.27	0.00	0.46	0.47	0.47	89.80
Chaetoceros lorenzianum	0.32	0.00	0.45	0.43	0.46	90.26

Groups 60%Grp3 & 60%Grp2

Average dissimilarity = 98.64

Species	Group 60%Grp3 Av.Abund	Group 60%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	9.26	1.62	9.39	9.39
Skeletonema costatum	0.16	3.66	7.00	1.72	7.10	16.49
Unknown diatom sp.	3.09	0.00	5.88	2.49	5.96	22.45
Cryptomonas sp.1	0.00	2.86	5.55	2.18	5.62	28.07
Synechocystis aquaticus Sauvageau	0.00	2.84	5.48	1.51	5.56	33.63
Unknown diatom sp. D	2.34	0.00	4.35	1.59	4.41	38.04
Thalassiosira sp.	2.01	0.00	3.81	1.95	3.86	41.91
Prorocentrum micans	1.61	0.25	3.49	0.61	3.53	45.44
Unknown Dinoflagellate sp.	1.73	0.00	3.39	0.99	3.43	48.87
Scenedesmus sp.	1.47	0.00	2.64	1.15	2.68	51.55
Navicula sp. small	1.23	0.00	2.41	0.86	2.44	53.99
Chlymentomonas sp.	0.00	0.92	1.76	0.83	1.78	55.78
Eutreptiella sp.	0.35	0.75	1.69	0.83	1.72	57.50
Peridinium cerasus	0.00	0.89	1.68	0.67	1.70	59.20
Coscinodiscus sp.	0.83	0.00	1.61	0.58	1.63	60.83
Unknown bluegreen sp.	0.83	0.00	1.61	0.90	1.63	62.46

Nitzschia pungens	0.80	0.11	1.53	0.83	1.55	64.02
Pyramimonas sp.	0.84	0.00	1.51	0.84	1.53	65.55
Gymnodinium simplex	0.00	0.75	1.44	0.72	1.46	67.01
Tetraedron sp.	0.82	0.00	1.39	0.75	1.41	68.41
Navicula sp. large	0.66	0.00	1.37	0.65	1.39	69.80
Gymnodinium splendens	0.00	0.71	1.37	0.49	1.39	71.19
Akistrodesmus sp.	0.76	0.00	1.29	0.58	1.31	72.49
Chroococcus minutus	0.00	0.62	1.19	0.41	1.21	73.70
Leptocylicus minimum	0.61	0.00	1.16	0.66	1.17	74.87
Spermatozoopsis exultans	0.00	0.63	1.14	0.69	1.15	76.03
Ceratium hircus	0.00	0.57	1.13	0.50	1.14	77.17
Cryptomonas ovata	0.00	0.59	1.11	0.63	1.13	78.29
Gonyaulax palustre	0.00	0.53	0.99	0.61	1.00	79.29
Nitzschia sp.	0.38	0.13	0.97	0.46	0.98	80.27
Prorocentrum sp.	0.45	0.00	0.86	0.38	0.87	81.14
Thalassionema nitzschoides	0.35	0.16	0.85	0.52	0.87	82.01
Unknown flagellate sp. 1	0.00	0.45	0.82	0.56	0.83	82.84
Calycomonas ovalis	0.00	0.44	0.81	0.45	0.83	83.67
Cyclotella sp.	0.00	0.42	0.78	0.49	0.79	84.46
Eutreptia sp.	0.37	0.00	0.73	0.36	0.74	85.20
Prorocentrum redfieldi	0.40	0.00	0.70	0.36	0.71	85.90
Rhizosolenia setigera	0.00	0.35	0.66	0.41	0.67	86.57
Cryptomonas erosa	0.00	0.37	0.66	0.52	0.67	87.24
Chaetoceros subtilis	0.00	0.34	0.63	0.44	0.64	87.88
Leptocylicus danicus	0.27	0.00	0.60	0.39	0.61	88.48
Aphanocapsa sp.	0.36	0.00	0.56	0.39	0.57	89.06
Biddulphia sinensis	0.00	0.29	0.53	0.39	0.54	89.59
Oscillatoria sp.	0.32	0.00	0.52	0.39	0.52	90.12

Groups 60%Grp4 & 60%Grp2

Average dissimilarity = 92.86

Species	Group 60%Grp4 Av.Abund	Group 60%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.61	0.00	9.00	1.66	9.69	9.69
Unknown Cryptophyte sp.	5.92	0.00	8.59	2.26	9.25	18.94
Skeletonema costatum	4.80	3.66	5.67	1.34	6.10	25.04
Thalassiosira sp.	3.75	0.00	5.06	1.31	5.45	30.50
Unknown diatom sp.	3.46	0.00	4.72	1.83	5.08	35.58
Unknown Dinoflagellate sp.	2.96	0.00	4.19	1.14	4.52	40.09
Cryptomonas sp.1	0.00	2.86	4.17	2.02	4.49	44.58
Synechocystis aquaticus Sauvageau	0.00	2.84	4.13	1.44	4.44	49.03

Nitzschia closterium	1.99	0.05	2.66	1.01	2.86	51.89
Pyramimonas sp.	1.61	0.00	2.14	0.91	2.31	54.19
Chaetoceros sp.	1.70	0.00	2.09	0.77	2.25	56.44
Peridinium sp.	1.54	0.00	1.95	0.68	2.10	58.55
Nitzschia pungens	1.45	0.11	1.95	0.79	2.10	60.65
Skeletonema menezelli	1.61	0.00	1.88	0.36	2.02	62.67
Prorocentrum minimum	1.07	0.00	1.67	0.29	1.80	64.47
Eutreptiella sp.	0.48	0.75	1.54	0.63	1.66	66.13
Ceratium hircus	0.55	0.57	1.33	0.63	1.44	67.56
Chlymentomonas sp.	0.00	0.92	1.33	0.81	1.43	68.99
Peridinium cerasus	0.00	0.89	1.27	0.66	1.37	70.36
Leptocylicus minimum	1.00	0.00	1.20	0.62	1.29	71.65
Eutreptia sp.	0.79	0.00	1.19	0.39	1.28	72.93
Gymnodinium simplex	0.00	0.75	1.08	0.71	1.17	74.09
Rhizosolenia setigera	0.62	0.35	1.06	0.67	1.14	75.23
Gymnodinium splendens	0.00	0.71	1.03	0.49	1.11	76.34
Prorocentrum sp.	0.73	0.00	0.96	0.35	1.03	77.37
Chroococcus minutus	0.00	0.62	0.90	0.40	0.97	78.33
Spermatozoopsis exultans	0.00	0.63	0.87	0.67	0.93	79.27
Cryptomonas ovata	0.00	0.59	0.84	0.61	0.90	80.17
Leptocylicus danicus	0.68	0.00	0.82	0.41	0.89	81.06
Navicula sp. large	0.58	0.00	0.76	0.51	0.82	81.88
Gonyaulax palustre	0.00	0.53	0.75	0.59	0.81	82.69
Prorocentrum micans	0.32	0.25	0.75	0.41	0.80	83.49
Chaetoceros subtilis	0.19	0.34	0.67	0.42	0.72	84.21
Unknown diatom sp. A	0.53	0.00	0.65	0.36	0.70	84.91
Scenedesmus sp.	0.47	0.00	0.64	0.39	0.69	85.60
Thalassionema nitzschoides	0.41	0.16	0.64	0.42	0.69	86.29
Unknown Katodinium sp.	0.38	0.00	0.63	0.25	0.67	86.96
Unknown flagellate sp. 1	0.00	0.45	0.62	0.55	0.67	87.63
Calycomonas ovalis	0.00	0.44	0.62	0.44	0.67	88.30
Cyclotella sp.	0.00	0.42	0.59	0.49	0.64	88.94
Chaetoceros gracile	0.45	0.00	0.57	0.25	0.62	89.55
Cryptomonas erosa	0.00	0.37	0.50	0.51	0.54	90.09

Groups 60%Grp5 & 60%Grp2

Average dissimilarity = 91.52

Species	Group 60%Grp5 Av.Abund	Group 60%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	3.66	7.56	1.25	8.26	8.26
Cryptomonas sp.1	0.00	2.86	6.65	1.98	7.27	15.53

Synechocystis aquaticus Sauvageau	0.00	2.84	6.56	1.44	7.17	22.70
Unknown pennate diatom sp.	2.07	0.00	4.69	1.73	5.13	27.83
Cyclotella sp.	1.76	0.42	4.03	0.84	4.40	32.23
Cyclotella sp. (small)	1.79	0.00	3.82	0.71	4.18	36.41
Cyclotella sp. (large)	1.45	0.00	2.97	0.59	3.25	39.65
Scenedesmus quadracauda	1.15	0.00	2.41	1.09	2.64	42.29
Gymnodinium sp.	1.01	0.00	2.24	1.00	2.45	44.73
Schroederia setigera	1.04	0.00	2.16	1.06	2.36	47.09
Thalassiosira pseudonana	1.05	0.00	2.12	0.56	2.32	49.41
Chlymentomonas sp.	0.00	0.92	2.10	0.80	2.30	51.71
Peridinium cerasus	0.00	0.89	2.00	0.64	2.19	53.90
Eutreptia sp.	0.88	0.00	1.99	0.97	2.18	56.07
Scenedesmus bijinga	0.90	0.00	1.89	0.84	2.06	58.14
Thalassiosira decipiens	0.91	0.00	1.79	0.49	1.95	60.09
Gymnodinium simplex	0.00	0.75	1.73	0.71	1.89	61.98
Eutreptiella sp.	0.00	0.75	1.66	0.72	1.81	63.79
Gymnodinium splendens	0.00	0.71	1.64	0.47	1.79	65.58
Nitzschia longissima	0.78	0.00	1.60	0.95	1.74	67.32
Chroococcus minutus	0.00	0.62	1.42	0.40	1.55	68.88
Chaetoceros subtilis	0.44	0.34	1.39	0.66	1.52	70.40
Akistrodesmus falcatus	0.64	0.00	1.36	0.68	1.49	71.89
Ceratium hircus	0.00	0.57	1.35	0.49	1.48	73.37
Spermatozoopsis exultans	0.00	0.63	1.34	0.68	1.46	74.83
Cryptomonas ovata	0.00	0.59	1.32	0.61	1.45	76.28
Gonyaulax palustre	0.00	0.53	1.17	0.60	1.28	77.56
Unknown flagellate sp. 1	0.00	0.45	0.98	0.55	1.07	78.62
Calycomonas ovalis	0.00	0.44	0.96	0.45	1.05	79.67
Bluegreen filamentous sp.	0.41	0.00	0.96	0.61	1.05	80.72
Melosira sp.	0.36	0.00	0.79	0.50	0.87	81.59
Rhizosolenia setigera	0.00	0.35	0.78	0.40	0.86	82.45
Cryptomonas erosa	0.00	0.37	0.77	0.51	0.84	83.29
Cyclotella meneghiniana	0.40	0.00	0.72	0.28	0.79	84.08
Scenedesmus acutus	0.34	0.00	0.68	0.40	0.74	84.82
Merismopedia punctata	0.29	0.00	0.68	0.39	0.74	85.56
Crucigenia sp.	0.22	0.00	0.67	0.51	0.73	86.29
Biddulphia sinensis	0.00	0.29	0.63	0.39	0.69	86.98
Pleurosigma sp.	0.24	0.00	0.62	0.51	0.67	87.65
Nitzschia sp.	0.09	0.13	0.61	0.36	0.67	88.32
Scenedesmus quadricauda v. Westii	0.00	0.30	0.60	0.41	0.66	88.98
Chaetoceros compressum	0.00	0.26	0.57	0.32	0.62	89.60
Prorocentrum micans	0.00	0.25	0.56	0.40	0.61	90.21

Groups 60%Grp7 & 60%Grp2

Average dissimilarity = 84.91

Species	Group 60%Grp7 Av.Abund	Group 60%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Cryptomonas sp.1	0.00	2.86	6.53	2.04	7.69	7.69
Synechocystis aquaticus Sauvageau	0.00	2.84	6.44	1.47	7.58	15.27
Skeletonema costatum	4.59	3.66	5.21	1.10	6.13	21.40
Chaetoceros subtilis	1.61	0.34	3.70	0.96	4.36	25.76
Peridinium aciculiferum	0.94	0.00	2.22	0.77	2.61	28.37
Thalassiosira pseudonana	1.07	0.00	2.17	0.72	2.56	30.93
Chlymentomonas sp.	0.00	0.92	2.07	0.81	2.43	33.36
Peridinium cerasus	0.00	0.89	1.97	0.65	2.32	35.67
Nitzschia closterium	0.83	0.05	1.77	0.88	2.08	37.75
Cyclotella sp.	0.58	0.42	1.72	0.67	2.03	39.78
Gymnodinium simplex	0.00	0.75	1.69	0.71	1.99	41.78
Unknown pennate diatom sp.	0.78	0.00	1.63	0.76	1.92	43.70
Eutreptiella sp.	0.00	0.75	1.63	0.72	1.92	45.62
Gymnodinium splendens	0.00	0.71	1.61	0.48	1.90	47.52
Thalassiosira sp.	0.77	0.00	1.61	0.54	1.89	49.41
Nitzschia longissima	0.73	0.00	1.59	0.97	1.87	51.28
Schizothrix sp.	0.72	0.00	1.50	0.46	1.76	53.05
Eutreptia sp.	0.74	0.00	1.48	0.69	1.74	54.79
Ceratium hircus	0.11	0.57	1.44	0.53	1.70	56.49
Schroederia setigera	0.66	0.00	1.44	0.74	1.69	58.18
Chroococcus minutus	0.00	0.62	1.40	0.40	1.65	59.83
Prorocentrum minimum	0.72	0.00	1.40	0.61	1.64	61.47
Leptocylindricus minimum	0.70	0.00	1.37	0.62	1.62	63.09
Spermatozoopsis exultans	0.00	0.63	1.32	0.68	1.55	64.64
Cryptomonas ovata	0.00	0.59	1.30	0.62	1.53	66.17
Gymnodinium sp.	0.56	0.00	1.16	0.61	1.37	67.53
Rhizosolenia setigera	0.25	0.35	1.15	0.56	1.35	68.89
Gonyaulax palustre	0.00	0.53	1.15	0.60	1.35	70.24
Cyclotella sp. (small)	0.48	0.00	1.06	0.37	1.25	71.49
Chaetoceros socialis	0.48	0.00	0.99	0.53	1.17	72.66
Ceratulina bergonii	0.42	0.00	0.97	0.38	1.14	73.81
Unknown flagellate sp. 1	0.00	0.45	0.96	0.56	1.13	74.94
Calycomonas ovalis	0.00	0.44	0.95	0.45	1.12	76.05
Thalassionema nitzschoides	0.27	0.16	0.87	0.45	1.03	77.08
Thalassiosira decipiens	0.43	0.00	0.86	0.54	1.01	78.09
Chaetoceros neogracile	0.37	0.00	0.79	0.50	0.92	79.02
Prorocentrum micans	0.15	0.25	0.77	0.51	0.91	79.92
Euglena sp.	0.39	0.00	0.76	0.38	0.90	80.82

Cryptomonas erosa	0.00	0.37	0.76	0.51	0.89	81.71
Scenedesmus quadracauda	0.37	0.00	0.75	0.47	0.88	82.60
Nitzschia pungens	0.26	0.11	0.73	0.47	0.86	83.46
Chaetoceros compressum	0.07	0.26	0.70	0.37	0.82	84.28
Scrippsiella sp.	0.33	0.00	0.69	0.47	0.81	85.09
Gonyaulax polygramma	0.28	0.00	0.65	0.45	0.76	85.85
Peridinium sp.	0.31	0.00	0.62	0.46	0.73	86.58
Biddulphia sinensis	0.00	0.29	0.62	0.39	0.73	87.31
Scenedesmus quadricauda v. Westii	0.00	0.30	0.59	0.41	0.70	88.01
Chaetoceros decipiens	0.02	0.23	0.55	0.36	0.65	88.66
Akistrodesmus falcatus	0.23	0.00	0.46	0.38	0.54	89.20
Merismopedia punctata	0.22	0.00	0.45	0.28	0.53	89.72
Nitzschia sp.	0.03	0.13	0.39	0.27	0.46	90.18

Groups 60%Grp6 & 60%Grp2

Average dissimilarity = 88.28

Species	Group 60%Grp6 Av.Abund	Group 60%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.07	3.66	6.76	1.27	7.65	7.65
Cryptomonas sp.1	0.00	2.86	5.89	1.68	6.67	14.32
Synechocystis aquaticus Sauvageau	0.00	2.84	5.81	1.30	6.58	20.90
Schizothrix sp.	2.14	0.00	3.69	0.69	4.18	25.08
Thalassionema nitzschoides	1.63	0.16	3.32	0.73	3.76	28.84
Ceratulina bergonii	1.39	0.00	2.69	0.77	3.05	31.89
Leptocylicus minimum	1.63	0.00	2.47	1.12	2.80	34.68
Chaetoceros socialis	1.47	0.00	2.16	0.82	2.45	37.13
Nitzschia closterium	1.37	0.05	2.15	0.82	2.43	39.57
Chaetoceros neogracile	1.24	0.00	2.07	0.87	2.35	41.92
Unknown pennate diatom sp.	1.09	0.00	2.03	0.86	2.30	44.22
Rhizosolenia setigera	0.93	0.35	1.89	0.84	2.14	46.36
Chlymentomonas sp.	0.00	0.92	1.86	0.75	2.11	48.47
Ceratium hircus	0.73	0.57	1.83	0.76	2.07	50.54
Prorocentrum micans	0.97	0.25	1.82	1.01	2.07	52.60
Peridinium cerasus	0.00	0.89	1.77	0.61	2.01	54.61
Nitzschia pungens	1.11	0.11	1.77	0.74	2.01	56.62
Thalassiosira sp.	0.93	0.00	1.58	0.64	1.79	58.42
Chaetoceros compressum	0.87	0.26	1.54	0.72	1.74	60.16
Gymnodinium simplex	0.00	0.75	1.53	0.67	1.73	61.89
Eutreptiella sp.	0.00	0.75	1.47	0.68	1.67	63.56
Gymnodinium splendens	0.00	0.71	1.45	0.45	1.65	65.20
Asterionella glacialis	0.87	0.09	1.34	0.69	1.52	66.72

Chroococcus minutus	0.00	0.62	1.26	0.39	1.43	68.15
Chaetoceros subtilis	0.59	0.34	1.23	0.66	1.39	69.54
Thalassiosira decipiens	0.64	0.00	1.19	0.60	1.35	70.89
Spermatozoopsis exultans	0.00	0.63	1.19	0.65	1.35	72.24
Cryptomonas ovata	0.00	0.59	1.17	0.59	1.33	73.56
Chaetoceros sp.	0.56	0.00	1.15	0.34	1.31	74.87
Prorocentrum minimum	0.72	0.00	1.07	0.95	1.22	76.09
Gonyaulax palustre	0.00	0.53	1.04	0.57	1.18	77.26
Nitzschia longissima	0.64	0.00	0.94	0.87	1.07	78.33
Unknown flagellate sp. 1	0.00	0.45	0.87	0.53	0.98	79.31
Peridinium sp.	0.41	0.00	0.87	0.54	0.98	80.29
Calycomonas ovalis	0.00	0.44	0.86	0.43	0.97	81.26
Cyclotella sp.	0.00	0.42	0.82	0.47	0.92	82.19
Melosira sp.	0.26	0.00	0.79	0.33	0.90	83.08
Leptocylindricus danicus	0.46	0.00	0.69	0.59	0.78	83.86
Cryptomonas erosa	0.00	0.37	0.69	0.49	0.78	84.64
Amphora sp.	0.41	0.00	0.66	0.44	0.75	85.39
Biddulphia sinensis	0.00	0.29	0.56	0.38	0.63	86.02
Scenedesmus quadricauda v. Westii	0.00	0.30	0.54	0.40	0.61	86.63
Rhizosolenia calcar-avis	0.22	0.13	0.54	0.46	0.61	87.24
Chaetoceros curvisetus	0.43	0.00	0.52	0.33	0.58	87.82
Thalassiosira pseudonana	0.37	0.00	0.51	0.39	0.58	88.40
Gonyaulax polygramma	0.22	0.00	0.50	0.35	0.57	88.97
Pleurosigma sp.	0.27	0.00	0.49	0.47	0.56	89.52
Chaetoceros lorenzianum	0.32	0.00	0.47	0.43	0.53	90.06

Groups 60%Grp1 & 60%Grp2

Average dissimilarity = 65.48

Species	Group 60%Grp1 Av.Abund	Group 60%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	1.15	3.66	6.18	1.47	9.43	9.43
Synechocystis aquaticus Sauvageau	3.49	2.84	4.46	1.14	6.81	16.24
Scenedesmus quadricauda v. Westii	2.19	0.30	4.27	1.30	6.52	22.76
Gonyaulax palustre	1.82	0.53	3.28	1.38	5.01	27.77
Spermatozoopsis exultans	1.79	0.63	3.27	1.18	5.00	32.78
Cryptomonas erosa	1.46	0.37	2.77	1.20	4.23	37.01
Chlymentomonas sp.	1.14	0.92	2.49	1.10	3.80	40.81
Cryptomonas sp.1	3.26	2.86	2.49	1.24	3.80	44.61
Cryptomonas ovata	1.01	0.59	2.28	0.99	3.48	48.09
Eutreptiella sp.	0.80	0.75	2.01	1.01	3.06	51.16
Chroococcus minutus	0.56	0.62	1.99	0.59	3.04	54.19

Coelosphaerium sp.	0.90	0.18	1.92	0.64	2.94	57.13
Peridinium cerasus	0.00	0.89	1.81	0.67	2.76	59.89
Cyclotella sp.	0.73	0.42	1.73	0.82	2.64	62.53
Gymnodinium simplex	0.20	0.75	1.65	0.82	2.51	65.05
Unknown flagellate sp. 1	0.56	0.45	1.58	0.81	2.41	67.46
Gymnodinium splendens	0.12	0.71	1.57	0.53	2.39	69.85
Nitzschia palea	0.70	0.18	1.44	0.89	2.20	72.05
Ceratium hircus	0.00	0.57	1.22	0.50	1.86	73.90
Cyclotella undulata	0.37	0.16	1.05	0.39	1.60	75.50
Calycomonas ovalis	0.05	0.44	0.92	0.48	1.41	76.91
Chaetoceros subtilis	0.16	0.34	0.92	0.48	1.41	78.32
Euglena acus	0.35	0.04	0.72	0.37	1.10	79.42
Rhizosolenia setigera	0.00	0.35	0.71	0.41	1.08	80.50
Merismopedia glauca	0.32	0.03	0.62	0.39	0.95	81.45
Scenedesmus abundans v. brevicauda	0.35	0.00	0.61	0.37	0.93	82.38
Nitzschia fruticosa	0.30	0.02	0.59	0.37	0.90	83.27
Biddulphia sinensis	0.00	0.29	0.57	0.39	0.87	84.14
Chaetoceros compressum	0.00	0.26	0.51	0.33	0.78	84.93
Stephanodiscus sp.	0.26	0.00	0.51	0.34	0.78	85.70
Prorocentrum micans	0.00	0.25	0.51	0.41	0.77	86.48
Oscillatoria rubescens (trichome)	0.15	0.14	0.50	0.40	0.76	87.24
Nitzschia sp.	0.10	0.13	0.49	0.36	0.75	87.99
Chaetoceros decipiens	0.00	0.23	0.47	0.34	0.72	88.71
Euglena sp.	0.21	0.00	0.47	0.21	0.72	89.43
Spirulina sp.1	0.24	0.02	0.47	0.37	0.72	90.15

Appendix G. SIMPER test results for the combined river species that account for 3% or more of the total abundance in any one sample averaged by the 70% grouping levels.

SIMPER

Similarity Percentages - species contributions

Worksheet

File: F:\3 Rivers\Combined Files\combspeciesOKwithchemBIOENVtransformedreduced.pri

Sample selection: All

Variable selection: All

Parameters

Standardise data: No

Transform: None

Cut off for low contributions: 90.00%

Factor name: Sim70%GroupB

Factor groups

70%Grp3 ALA0

70%Grp6 ALA6-12-18

70%Grp5 ALASFB -TB

70%Grp4 ALASFC

70%Grp7 LMR0

70%Grp9 LMR12-18

70%Grp10 LMR6

70%Grp11 LMRRUSK

70%Grp8 LMRTB

70%Grp1 PR1

70%Grp2 PR2-3-4

Group 70%Grp3

Average similarity: 40.67

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	10.45	1.93	25.69	25.69
Unknown diatom sp.	3.09	7.85	2.15	19.30	44.99
Unknown diatom sp. D	2.34	4.70	1.20	11.55	56.54
Thalassiosira sp.	2.01	4.63	1.51	11.39	67.93

Unknown Dinoflagellate sp.	1.73	2.61	0.76	6.41	74.34
Scenedesmus sp.	1.47	2.13	0.69	5.23	79.57
Navicula sp. small	1.23	1.41	0.48	3.46	83.03
Prorocentrum micans	1.61	1.05	0.27	2.59	85.61
Unknown bluegreen sp.	0.83	1.04	0.49	2.55	88.16
Pyramimonas sp.	0.84	0.88	0.49	2.15	90.32

Group 70%Grp6

Average similarity: 39.79

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	6.29	10.62	2.88	26.68	26.68
Unknown diatom sp. D	6.79	8.71	1.42	21.89	48.57
Unknown diatom sp.	3.30	4.43	1.16	11.12	59.69
Thalassiosira sp.	3.51	3.76	0.95	9.46	69.15
Unknown Dinoflagellate sp.	3.01	3.75	0.91	9.43	78.58
Skeletonema costatum	3.34	2.45	0.54	6.15	84.73
Pyramimonas sp.	1.63	1.23	0.53	3.10	87.83
Peridinium sp.	1.80	1.06	0.41	2.67	90.50

Group 70%Grp5

Average similarity: 52.66

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	7.46	9.64	1.27	18.31	18.31
Unknown Cryptophyte sp.	5.10	8.88	3.17	16.87	35.18
Unknown diatom sp. D	6.13	7.74	2.11	14.70	49.88
Thalassiosira sp.	4.15	5.54	2.00	10.52	60.40
Nitzschia closterium	3.83	5.24	1.92	9.94	70.34
Unknown diatom sp.	3.67	5.01	1.68	9.51	79.85
Nitzschia pungens	2.56	2.48	0.79	4.70	84.55
Unknown Dinoflagellate sp.	2.35	2.27	0.87	4.32	88.87
Chaetoceros sp.	2.39	1.99	0.71	3.79	92.66

Group 70%Grp4

Average similarity: 57.63

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	7.43	9.86	#####	17.11	17.11
Unknown Dinoflagellate sp.	9.23	9.06	#####	15.73	32.83

Skeletonema costatum	5.96	8.19	#####	14.21	47.04
Thalassiosira sp.	4.72	6.89	#####	11.95	58.99
Unknown diatom sp. D	8.36	6.89	#####	11.95	70.94
Nitzschia closterium	4.12	5.79	#####	10.05	80.99
Unknown diatom sp.	4.70	5.48	#####	9.50	90.50

Group 70%Grp7

Average similarity: 28.35

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Unknown pennate diatom sp.	2.07	6.67	1.24	23.52	23.52
Skeletonema costatum	3.27	4.38	0.72	15.47	38.99
Scenedesmus quadricauda	1.15	2.04	0.64	7.21	46.20
Cyclotella sp.	1.76	1.88	0.39	6.62	52.82
Gymnodinium sp.	1.01	1.85	0.63	6.53	59.34
Schroederia setigera	1.04	1.79	0.63	6.32	65.67
Cyclotella sp. (small)	1.79	1.71	0.34	6.03	71.70
Eutreptia sp.	0.88	1.57	0.53	5.54	77.23
Scenedesmus bijinga	0.90	1.23	0.43	4.33	81.56
Nitzschia longissima	0.78	1.15	0.53	4.04	85.60
Cyclotella sp. (large)	1.45	0.93	0.26	3.28	88.88
Akistrodesmus falcatus	0.64	0.69	0.34	2.42	91.30

Group 70%Grp9

Average similarity: 35.30

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	4.02	16.05	2.23	45.47	45.47
Chaetoceros subtilis	1.53	3.93	0.58	11.15	56.62
Nitzschia closterium	1.16	2.61	0.84	7.39	64.01
Peridinium aciculiferum	0.96	2.09	0.46	5.93	69.94
Chaetoceros socialis	0.85	1.23	0.46	3.50	73.44
Unknown pennate diatom sp.	0.79	1.18	0.47	3.35	76.79
Nitzschia longissima	0.64	1.13	0.49	3.20	79.99
Leptocylindricus minimum	0.86	1.13	0.42	3.19	83.19
Thalassiosira pseudonana	0.71	0.88	0.39	2.48	85.67
Thalassiosira sp.	0.61	0.60	0.25	1.70	87.38
Schizothrix sp.	0.87	0.53	0.23	1.49	88.87
Chaetoceros neogracile	0.50	0.45	0.30	1.27	90.14

Group 70%Grp10

Average similarity: 38.12

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	4.06	13.46	4.42	35.32	35.32
Chaetoceros subtilis	2.80	7.32	1.24	19.20	54.52
Schroederia setigera	1.25	3.07	1.01	8.07	62.58
Nitzschia longissima	0.91	2.21	0.77	5.81	68.39
Peridinium aciculiferum	1.07	1.39	0.41	3.65	72.04
Cyclotella sp. (small)	1.40	1.38	0.35	3.62	75.66
Gymnodinium sp.	1.06	1.37	0.48	3.60	79.27
Thalassiosira pseudonana	1.15	1.26	0.37	3.30	82.57
Scenedesmus quadracauda	0.73	1.01	0.43	2.64	85.20
Unknown pennate diatom sp.	0.72	0.89	0.36	2.34	87.55
Thalassiosira decipiens	0.59	0.68	0.37	1.78	89.32
Gonyaulax polygramma	0.53	0.63	0.36	1.66	90.98

Group 70%Grp11

Average similarity: 33.11

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	5.90	14.96	1.53	45.19	45.19
Prorocentrum minimum	1.59	2.21	0.67	6.67	51.86
Eutreptia sp.	1.43	2.17	0.68	6.54	58.40
Thalassiosira pseudonana	1.56	1.71	0.46	5.16	63.56
Schroederia setigera	0.82	1.29	0.53	3.91	67.46
Nitzschia longissima	0.74	1.14	0.57	3.45	70.91
Thalassiosira sp.	1.38	1.10	0.36	3.32	74.23
Peridinium aciculiferum	0.84	1.01	0.46	3.04	77.27
Chaetoceros subtilis	0.83	0.88	0.36	2.65	79.92
Thalassiosira decipiens	0.84	0.83	0.45	2.51	82.43
Nitzschia closterium	0.62	0.78	0.52	2.36	84.79
Unknown pennate diatom sp.	0.81	0.76	0.34	2.28	87.07
Scrippsiella sp.	0.59	0.59	0.35	1.78	88.85
Gymnodinium sp.	0.53	0.44	0.36	1.33	90.19

Group 70%Grp8

Average similarity: 29.08

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	5.07	7.71	1.12	26.52	26.52

Thalassionema nitzschoides	1.63	2.24	0.59	7.69	34.21
Ceratulina bergonii	1.39	2.14	0.78	7.36	41.57
Leptocylindricus minimum	1.63	1.82	0.76	6.27	47.84
Schizothrix sp.	2.14	1.49	0.35	5.12	52.95
Chaetoceros neogracile	1.24	1.34	0.66	4.62	57.57
Prorocentrum micans	0.97	1.31	0.64	4.49	62.06
Unknown pennate diatom sp.	1.09	1.30	0.50	4.48	66.54
Chaetoceros socialis	1.47	1.07	0.47	3.67	70.21
Nitzschia closterium	1.37	1.07	0.51	3.66	73.87
Rhizosolenia setigera	0.93	0.97	0.46	3.34	77.21
Ceratium hircus	0.73	0.71	0.47	2.45	79.66
Nitzschia pungens	1.11	0.70	0.40	2.41	82.07
Prorocentrum minimum	0.72	0.66	0.55	2.26	84.33
Thalassiosira sp.	0.93	0.64	0.36	2.22	86.55
Thalassiosira decipiens	0.64	0.54	0.32	1.86	88.40
Nitzschia longissima	0.64	0.53	0.49	1.84	90.24

Group 70%Grp1

Average similarity: 46.53

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Cryptomonas sp.1	3.26	10.93	3.00	23.49	23.49
Synechocystis aquaticus Sauvageau	3.49	10.46	1.16	22.48	45.97
Scenedesmus quadricauda v. Westii	2.19	4.92	1.02	10.57	56.54
Gonyaulax palustre	1.82	4.32	1.14	9.28	65.82
Spermatozoopsis exultans	1.79	4.04	0.97	8.67	74.49
Cryptomonas erosa	1.46	2.64	0.75	5.68	80.17
Chlymentomonas sp.	1.14	1.76	0.58	3.77	83.94
Cryptomonas ovata	1.01	1.56	0.53	3.35	87.30
Skeletonema costatum	1.15	1.43	0.42	3.07	90.37

Group 70%Grp2

Average similarity: 40.93

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	3.66	12.29	1.39	30.03	30.03
Cryptomonas sp.1	2.86	9.98	2.22	24.39	54.42
Synechocystis aquaticus Sauvageau	2.84	8.16	1.10	19.94	74.36
Chlymentomonas sp.	0.92	1.52	0.51	3.71	78.07
Peridinium cerasus	0.89	1.10	0.40	2.68	80.75
Gymnodinium simplex	0.75	1.04	0.40	2.54	83.29

Eutreptiella sp.	0.75	1.00	0.42	2.44	85.73
Spermatozoopsis exultans	0.63	0.72	0.35	1.76	87.50
Cryptomonas ovata	0.59	0.64	0.32	1.56	89.06
Gymnodinium splendens	0.71	0.57	0.24	1.40	90.46

Groups 70%Grp3 & 70%Grp6

Average dissimilarity = 67.08

Species	Group 70%Grp3 Av.Abund	Group 70%Grp6 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	2.34	6.79	6.39	1.25	9.52	9.52
Unknown Cryptophyte sp.	4.79	6.29	4.43	1.25	6.60	16.13
Skeletonema costatum	0.16	3.34	4.13	0.84	6.16	22.29
Thalassiosira sp.	2.01	3.51	3.40	1.00	5.06	27.35
Unknown Dinoflagellate sp.	1.73	3.01	3.35	1.27	4.99	32.34
Unknown diatom sp.	3.09	3.30	2.62	1.25	3.90	36.24
Prorocentrum micans	1.61	0.34	2.49	0.60	3.71	39.95
Prorocentrum minimum	0.16	1.60	2.33	0.37	3.47	43.43
Peridinium sp.	0.00	1.80	2.14	0.75	3.19	46.61
Pyramimonas sp.	0.84	1.63	2.08	1.19	3.10	49.72
Scenedesmus sp.	1.47	0.60	2.02	1.15	3.01	52.73
Eutreptia sp.	0.37	1.21	1.89	0.59	2.81	55.54
Skeletonema menezelli	0.14	1.46	1.76	0.37	2.62	58.16
Navicula sp. small	1.23	0.21	1.72	0.87	2.57	60.73
Nitzschia pungens	0.80	0.82	1.56	0.92	2.32	63.05
Chaetoceros sp.	0.13	1.28	1.50	0.64	2.24	65.29
Prorocentrum sp.	0.45	0.77	1.42	0.48	2.11	67.40
Coscinodiscus sp.	0.83	0.28	1.34	0.65	1.99	69.39
Unknown bluegreen sp.	0.83	0.33	1.33	0.89	1.98	71.37
Leptocylindricus minimum	0.61	0.72	1.28	0.85	1.91	73.28
Nitzschia closterium	0.20	0.92	1.26	0.70	1.88	75.16
Eutreptiella sp.	0.35	0.69	1.24	0.46	1.85	77.01
Navicula sp. large	0.66	0.47	1.23	0.77	1.84	78.85
Tetraedron sp.	0.82	0.30	1.19	0.79	1.77	80.62
Akistrodesmus sp.	0.76	0.33	1.17	0.64	1.74	82.36
Leptocylindricus danicus	0.27	0.65	1.01	0.50	1.50	83.86
Prorocentrum redfieldi	0.40	0.41	0.93	0.35	1.38	85.24
Unknown Katodinium sp.	0.11	0.54	0.89	0.33	1.33	86.57
Unknown diatom sp. A	0.20	0.52	0.80	0.42	1.19	87.75
Glenodinium sp.	0.13	0.50	0.75	0.37	1.11	88.87
Aphanocapsa sp.	0.36	0.36	0.73	0.51	1.09	89.96
Chaetoceros gracile	0.00	0.51	0.59	0.29	0.87	90.83

Groups 70%Grp3 & 70%Grp5

Average dissimilarity = 67.00

Species	Group 70%Grp3 Av.Abund	Group 70%Grp5 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	0.16	7.46	8.99	1.69	13.42	13.42
Unknown diatom sp. D	2.34	6.13	4.88	1.28	7.29	20.70
Nitzschia closterium	0.20	3.83	4.39	2.19	6.55	27.26
Unknown Cryptophyte sp.	4.79	5.10	3.31	1.28	4.94	32.20
Thalassiosira sp.	2.01	4.15	2.96	1.67	4.42	36.62
Nitzschia pungens	0.80	2.56	2.82	1.34	4.20	40.83
Chaetoceros sp.	0.13	2.39	2.70	1.13	4.03	44.86
Unknown Dinoflagellate sp.	1.73	2.35	2.50	1.29	3.72	48.58
Prorocentrum micans	1.61	0.32	2.22	0.61	3.32	51.90
Unknown diatom sp.	3.09	3.67	2.19	1.19	3.26	55.16
Skeletonema menezelli	0.14	2.03	2.17	0.43	3.24	58.40
Pyramimonas sp.	0.84	1.39	1.87	1.05	2.79	61.19
Leptocylicus minimum	0.61	1.46	1.82	0.96	2.72	63.91
Scenedesmus sp.	1.47	0.27	1.81	1.12	2.70	66.61
Navicula sp. small	1.23	0.46	1.75	0.90	2.61	69.23
Navicula sp. large	0.66	0.73	1.28	0.87	1.92	71.14
Thalassionema nitzschoides	0.35	0.96	1.20	0.77	1.79	72.94
Unknown bluegreen sp.	0.83	0.36	1.14	0.96	1.70	74.64
Peridinium sp.	0.00	1.06	1.12	0.58	1.68	76.31
Coscinodiscus sp.	0.83	0.12	1.10	0.60	1.64	77.95
Akistrodesmus sp.	0.76	0.28	1.08	0.62	1.62	79.57
Prorocentrum sp.	0.45	0.58	1.06	0.56	1.59	81.15
Leptocylicus danicus	0.27	0.69	1.05	0.65	1.56	82.72
Tetraedron sp.	0.82	0.12	1.02	0.75	1.52	84.24
Ceratium hircus	0.00	0.95	0.97	0.48	1.45	85.69
Unknown diatom sp. A	0.20	0.58	0.82	0.50	1.23	86.92
Rhizosolenia setigera	0.00	0.77	0.82	0.59	1.23	88.15
Aphanocapsa sp.	0.36	0.40	0.69	0.53	1.04	89.18
Nitzschia sp.	0.38	0.10	0.57	0.42	0.85	90.03

Groups 70%Grp6 & 70%Grp5

Average dissimilarity = 57.75

Species	Group 70%Grp6 Av.Abund	Group 70%Grp5 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
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Skeletonema costatum	3.34	7.46	6.15	1.41	10.65	10.65
Unknown diatom sp. D	6.79	6.13	4.58	1.22	7.92	18.58
Nitzschia closterium	0.92	3.83	3.17	1.69	5.48	24.06
Thalassiosira sp.	3.51	4.15	2.91	1.05	5.04	29.10
Skeletonema menezelli	1.46	2.03	2.78	0.52	4.82	33.92
Unknown Dinoflagellate sp.	3.01	2.35	2.53	1.22	4.38	38.30
Nitzschia pungens	0.82	2.56	2.46	1.24	4.27	42.56
Chaetoceros sp.	1.28	2.39	2.44	1.17	4.23	46.79
Unknown Cryptophyte sp.	6.29	5.10	2.36	1.04	4.09	50.88
Unknown diatom sp.	3.30	3.67	2.19	1.12	3.80	54.68
Peridinium sp.	1.80	1.06	2.03	0.90	3.51	58.19
Pyramimonas sp.	1.63	1.39	1.87	1.09	3.23	61.43
Prorocentrum minimum	1.60	0.16	1.84	0.37	3.18	64.61
Leptocylicus minimum	0.72	1.46	1.58	0.89	2.73	67.34
Eutreptia sp.	1.21	0.08	1.31	0.52	2.26	69.60
Prorocentrum sp.	0.77	0.58	1.17	0.50	2.02	71.62
Leptocylicus danicus	0.65	0.69	1.12	0.62	1.94	73.56
Ceratium hircus	0.36	0.95	1.07	0.59	1.85	75.41
Navicula sp. large	0.47	0.73	0.97	0.73	1.68	77.09
Rhizosolenia setigera	0.51	0.77	0.96	0.75	1.66	78.75
Unknown diatom sp. A	0.52	0.58	0.93	0.53	1.60	80.35
Thalassionema nitzschoides	0.14	0.96	0.91	0.63	1.57	81.92
Eutreptiella sp.	0.69	0.12	0.81	0.37	1.41	83.33
Chaetoceros gracile	0.51	0.36	0.80	0.35	1.38	84.71
Scenedesmus sp.	0.60	0.27	0.78	0.52	1.34	86.05
Unknown Katodinium sp.	0.54	0.10	0.71	0.33	1.22	87.27
Navicula sp. small	0.21	0.46	0.62	0.46	1.08	88.36
Unknown bluegreen sp.	0.33	0.36	0.59	0.50	1.03	89.38
Prorocentrum micans	0.34	0.32	0.59	0.38	1.02	90.40

Groups 70%Grp3 & 70%Grp4

Average dissimilarity = 66.09

Species	Group 70%Grp3 Av.Abund	Group 70%Grp4 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	1.73	9.23	9.08	1.51	13.74	13.74
Skeletonema costatum	0.16	5.96	6.28	5.07	9.50	23.24
Unknown diatom sp. D	2.34	8.36	5.86	1.71	8.87	32.11
Nitzschia closterium	0.20	4.12	4.45	2.59	6.73	38.84
Unknown Cryptophyte sp.	4.79	7.43	3.82	1.90	5.78	44.62
Pyramimonas sp.	0.84	3.83	3.28	2.42	4.97	49.59
Thalassiosira sp.	2.01	4.72	2.98	2.15	4.51	54.10

Chaetoceros sp.	0.13	3.08	2.70	1.01	4.09	58.19
Gymnodinium sp.	0.09	2.63	2.30	1.02	3.49	61.67
Nitzschia pungens	0.80	2.29	2.17	1.32	3.28	64.95
Unknown diatom sp.	3.09	4.70	1.92	1.45	2.90	67.85
Prorocentrum micans	1.61	0.00	1.83	0.55	2.77	70.62
Leptocylicus minimum	0.61	1.88	1.77	1.23	2.68	73.30
Scenedesmus sp.	1.47	0.00	1.55	1.10	2.34	75.64
Prorocentrum sp.	0.45	1.50	1.47	0.98	2.23	77.87
Navicula sp. small	1.23	0.00	1.36	0.81	2.06	79.93
Peridinium sp.	0.00	1.50	1.30	0.98	1.97	81.90
Navicula sp. large	0.66	1.26	1.26	1.03	1.91	83.80
Leptocylicus danicus	0.27	1.26	1.17	1.01	1.76	85.57
Rhizosolenia setigera	0.00	1.26	1.09	0.98	1.65	87.22
Coscinodiscus sp.	0.83	0.00	0.91	0.56	1.38	88.60
Unknown bluegreen sp.	0.83	0.00	0.91	0.86	1.38	89.98
Tetradion sp.	0.82	0.00	0.83	0.71	1.26	91.24

Groups 70%Grp6 & 70%Grp4

Average dissimilarity = 52.16

Species	Group 70%Grp6 Av.Abund	Group 70%Grp4 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	3.01	9.23	6.51	1.31	12.49	12.49
Unknown diatom sp. D	6.79	8.36	4.38	1.34	8.41	20.89
Skeletonema costatum	3.34	5.96	3.82	1.54	7.33	28.22
Nitzschia closterium	0.92	4.12	3.12	1.82	5.99	34.21
Chaetoceros sp.	1.28	3.08	2.57	1.13	4.93	39.14
Thalassiosira sp.	3.51	4.72	2.48	1.07	4.75	43.89
Pyramimonas sp.	1.63	3.83	2.26	1.33	4.33	48.22
Unknown Cryptophyte sp.	6.29	7.43	2.21	1.28	4.24	52.46
Gymnodinium sp.	0.15	2.63	2.02	1.00	3.88	56.34
Unknown diatom sp.	3.30	4.70	1.93	1.18	3.71	60.04
Nitzschia pungens	0.82	2.29	1.90	1.12	3.64	63.69
Peridinium sp.	1.80	1.50	1.83	1.00	3.50	67.19
Leptocylicus minimum	0.72	1.88	1.55	1.08	2.97	70.15
Prorocentrum minimum	1.60	0.00	1.53	0.34	2.93	73.09
Prorocentrum sp.	0.77	1.50	1.52	0.81	2.91	76.00
Leptocylicus danicus	0.65	1.26	1.26	0.90	2.41	78.41
Skeletonema menezelli	1.46	0.00	1.19	0.33	2.29	80.70
Eutreptia sp.	1.21	0.00	1.12	0.48	2.15	82.85
Navicula sp. large	0.47	1.26	1.08	0.99	2.07	84.91
Rhizosolenia setigera	0.51	1.26	1.07	1.03	2.05	86.96

Eutreptiella sp.	0.69	0.00	0.65	0.33	1.24	88.21
Unknown Katodinium sp.	0.54	0.00	0.53	0.28	1.02	89.23
Scenedesmus sp.	0.60	0.00	0.52	0.44	1.00	90.23

Groups 70%Grp5 & 70%Grp4

Average dissimilarity = 44.33

Species	Group 70%Grp5 Av.Abund	Group 70%Grp4 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	2.35	9.23	6.86	1.42	15.47	15.47
Unknown diatom sp. D	6.13	8.36	3.80	1.37	8.58	24.06
Skeletonema costatum	7.46	5.96	3.44	1.58	7.76	31.82
Chaetoceros sp.	2.39	3.08	2.59	1.33	5.85	37.67
Pyramimonas sp.	1.39	3.83	2.29	1.73	5.17	42.84
Nitzschia pungens	2.56	2.29	2.17	1.21	4.90	47.74
Unknown Cryptophyte sp.	5.10	7.43	2.15	2.64	4.84	52.58
Gymnodinium sp.	0.22	2.63	1.95	1.01	4.40	56.98
Leptocylindricus minimum	1.46	1.88	1.69	1.09	3.82	60.80
Unknown diatom sp.	3.67	4.70	1.56	1.13	3.52	64.32
Skeletonema menezelli	2.03	0.00	1.54	0.40	3.48	67.80
Peridinium sp.	1.06	1.50	1.39	1.00	3.14	70.94
Thalassiosira sp.	4.15	4.72	1.36	0.88	3.06	74.00
Nitzschia closterium	3.83	4.12	1.31	1.10	2.96	76.96
Prorocentrum sp.	0.58	1.50	1.25	0.98	2.82	79.78
Leptocylindricus danicus	0.69	1.26	1.11	0.99	2.51	82.29
Rhizosolenia setigera	0.77	1.26	1.10	1.02	2.47	84.77
Navicula sp. large	0.73	1.26	1.09	1.03	2.45	87.22
Thalassionema nitzschoides	0.96	0.00	0.74	0.58	1.67	88.88
Ceratium hircus	0.95	0.00	0.73	0.48	1.64	90.53

Groups 70%Grp3 & 70%Grp7

Average dissimilarity = 97.87

Species	Group 70%Grp3 Av.Abund	Group 70%Grp7 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	9.39	1.54	9.59	9.59
Unknown diatom sp.	3.09	0.00	5.96	2.27	6.09	15.69
Skeletonema costatum	0.16	3.27	5.48	0.94	5.60	21.28
Unknown diatom sp. D	2.34	0.00	4.41	1.52	4.50	25.79
Unknown pennate diatom sp.	0.00	2.07	3.98	1.75	4.07	29.86
Thalassiosira sp.	2.01	0.10	3.74	1.73	3.83	33.68

Unknown Dinoflagellate sp.	1.73	0.00	3.44	0.96	3.51	37.20
Prorocentrum micans	1.61	0.00	3.38	0.54	3.45	40.65
Cyclotella sp. (small)	0.00	1.79	3.28	0.70	3.35	44.00
Cyclotella sp.	0.00	1.76	3.26	0.73	3.33	47.33
Scenedesmus sp.	1.47	0.26	2.63	1.14	2.69	50.02
Cyclotella sp. (large)	0.00	1.45	2.57	0.59	2.62	52.64
Navicula sp. small	1.23	0.00	2.45	0.83	2.50	55.14
Scenedesmus quadracauda	0.00	1.15	2.08	1.08	2.12	57.26
Eutreptia sp.	0.37	0.88	2.01	0.95	2.06	59.32
Gymnodinium sp.	0.09	1.01	1.90	1.01	1.94	61.26
Schroederia setigera	0.00	1.04	1.86	1.05	1.90	63.16
Thalassiosira pseudonana	0.00	1.05	1.84	0.55	1.88	65.03
Unknown bluegreen sp.	0.83	0.00	1.63	0.87	1.67	66.70
Coscinodiscus sp.	0.83	0.00	1.63	0.57	1.67	68.37
Scenedesmus bijinga	0.00	0.90	1.62	0.83	1.66	70.03
Thalassiosira decipiens	0.00	0.91	1.55	0.49	1.59	71.61
Pyramimonas sp.	0.84	0.00	1.52	0.82	1.56	73.17
Nitzschia pungens	0.80	0.00	1.49	0.77	1.52	74.69
Tetraedron sp.	0.82	0.08	1.43	0.77	1.47	76.16
Navicula sp. large	0.66	0.00	1.40	0.63	1.43	77.59
Nitzschia longissima	0.00	0.78	1.37	0.94	1.40	78.99
Akistrodesmus sp.	0.76	0.00	1.30	0.57	1.33	80.32
Leptocylicus minimum	0.61	0.00	1.17	0.64	1.20	81.52
Akistrodesmus falcatus	0.00	0.64	1.17	0.69	1.19	82.71
Nitzschia sp.	0.38	0.09	0.96	0.46	0.98	83.69
Melosira sp.	0.20	0.36	0.91	0.56	0.93	84.62
Prorocentrum sp.	0.45	0.00	0.87	0.38	0.89	85.51
Bluegreen filamentous sp.	0.00	0.41	0.81	0.61	0.83	86.34
Chaetoceros subtilis	0.00	0.44	0.77	0.50	0.79	87.12
Crucigenia sp.	0.21	0.22	0.77	0.64	0.78	87.91
Prorocentrum redfieldi	0.40	0.00	0.70	0.36	0.72	88.62
Cyclotella meneghiniana	0.00	0.40	0.63	0.27	0.65	89.27
Thalassionema nitzschoides	0.35	0.00	0.63	0.48	0.64	89.91
Eutreptiella sp.	0.35	0.00	0.62	0.38	0.64	90.55

Groups 70%Grp6 & 70%Grp7

Average dissimilarity = 95.46

Species	Group 70%Grp6 Av.Abund	Group 70%Grp7 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	9.60	1.54	10.06	10.06
Unknown Cryptophyte sp.	6.29	0.00	9.35	2.17	9.79	19.85

Skeletonema costatum	3.34	3.27	5.71	1.06	5.98	25.83
Thalassiosira sp.	3.51	0.10	4.92	1.05	5.15	30.99
Unknown diatom sp.	3.30	0.00	4.66	1.60	4.88	35.87
Unknown Dinoflagellate sp.	3.01	0.00	4.52	1.21	4.74	40.61
Unknown pennate diatom sp.	0.00	2.07	3.08	1.70	3.23	43.83
Prorocentrum minimum	1.60	0.16	2.67	0.37	2.79	46.63
Cyclotella sp. (small)	0.00	1.79	2.57	0.68	2.69	49.32
Cyclotella sp.	0.00	1.76	2.54	0.71	2.66	51.98
Eutreptia sp.	1.21	0.88	2.51	0.81	2.63	54.61
Peridinium sp.	1.80	0.00	2.37	0.74	2.48	57.09
Pyramimonas sp.	1.63	0.00	2.15	0.92	2.26	59.35
Cyclotella sp. (large)	0.00	1.45	2.03	0.57	2.12	61.47
Skeletonema menezelli	1.46	0.00	1.77	0.34	1.86	63.33
Scenedesmus quadricauda	0.00	1.15	1.63	1.04	1.71	65.04
Chaetoceros sp.	1.28	0.00	1.58	0.60	1.66	66.70
Gymnodinium sp.	0.15	1.01	1.56	0.99	1.64	68.33
Schroederia setigera	0.00	1.04	1.46	1.03	1.53	69.86
Thalassiosira pseudonana	0.00	1.05	1.45	0.54	1.52	71.38
Nitzschia closterium	0.92	0.08	1.36	0.70	1.43	72.81
Scenedesmus bijinga	0.00	0.90	1.27	0.82	1.33	74.15
Thalassiosira decipiens	0.00	0.91	1.24	0.48	1.29	75.44
Nitzschia pungens	0.82	0.00	1.12	0.55	1.18	76.62
Nitzschia longissima	0.00	0.78	1.08	0.92	1.13	77.75
Prorocentrum sp.	0.77	0.00	1.08	0.33	1.13	78.88
Eutreptiella sp.	0.69	0.00	1.07	0.35	1.12	80.00
Scenedesmus sp.	0.60	0.26	1.05	0.57	1.10	81.09
Akistrodesmus falcatus	0.00	0.64	0.91	0.68	0.96	82.05
Unknown Katodinium sp.	0.54	0.00	0.89	0.28	0.94	82.99
Leptocylindricus minimum	0.72	0.00	0.88	0.54	0.92	83.91
Chaetoceros subtilis	0.16	0.44	0.76	0.47	0.80	84.70
Leptocylindricus danicus	0.65	0.00	0.75	0.35	0.78	85.49
Glenodinium sp.	0.50	0.00	0.67	0.30	0.71	86.19
Navicula sp. large	0.47	0.00	0.66	0.44	0.69	86.88
Chaetoceros gracile	0.51	0.00	0.65	0.29	0.68	87.56
Unknown diatom sp. A	0.52	0.00	0.64	0.33	0.67	88.23
Bluegreen filamentous sp.	0.00	0.41	0.62	0.60	0.65	88.89
Rhizosolenia setigera	0.51	0.00	0.61	0.48	0.64	89.53
Melosira sp.	0.00	0.36	0.53	0.48	0.55	90.08

Groups 70%Grp5 & 70%Grp7

Average dissimilarity = 93.13

Species	Group 70%Grp5 Av.Abund	Group 70%Grp7 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	7.46	3.27	8.28	1.41	8.89	8.89
Unknown diatom sp. D	6.13	0.00	8.01	1.92	8.60	17.49
Unknown Cryptophyte sp.	5.10	0.00	7.33	2.25	7.87	25.35
Thalassiosira sp.	4.15	0.10	5.16	2.41	5.54	30.90
Nitzschia closterium	3.83	0.08	4.94	2.35	5.30	36.20
Unknown diatom sp.	3.67	0.00	4.84	2.14	5.20	41.40
Nitzschia pungens	2.56	0.00	3.40	1.23	3.65	45.05
Unknown Dinoflagellate sp.	2.35	0.00	3.01	1.29	3.23	48.28
Chaetoceros sp.	2.39	0.00	3.00	1.10	3.22	51.50
Unknown pennate diatom sp.	0.00	2.07	2.85	1.73	3.06	54.56
Cyclotella sp. (small)	0.00	1.79	2.38	0.67	2.56	57.12
Cyclotella sp.	0.00	1.76	2.36	0.71	2.53	59.65
Skeletonema menezelli	2.03	0.00	2.23	0.40	2.40	62.05
Pyramimonas sp.	1.39	0.00	1.95	0.78	2.10	64.14
Cyclotella sp. (large)	0.00	1.45	1.89	0.57	2.02	66.17
Leptocylicus minimum	1.46	0.00	1.76	0.74	1.89	68.06
Scenedesmus quadracauda	0.00	1.15	1.52	1.04	1.63	69.68
Gymnodinium sp.	0.22	1.01	1.45	1.01	1.55	71.24
Schroederia setigera	0.00	1.04	1.36	1.03	1.46	72.69
Thalassiosira pseudonana	0.00	1.05	1.35	0.54	1.45	74.15
Eutreptia sp.	0.08	0.88	1.24	0.93	1.33	75.48
Peridinium sp.	1.06	0.00	1.23	0.57	1.32	76.80
Scenedesmus bijinga	0.00	0.90	1.18	0.82	1.27	78.07
Thalassiosira decipiens	0.00	0.91	1.15	0.48	1.24	79.31
Thalassionema nitzschoides	0.96	0.00	1.07	0.60	1.15	80.46
Ceratium hircus	0.95	0.00	1.06	0.48	1.14	81.60
Nitzschia longissima	0.00	0.78	1.01	0.92	1.08	82.69
Leptocylicus danicus	0.69	0.00	0.95	0.52	1.02	83.71
Navicula sp. large	0.73	0.00	0.94	0.59	1.01	84.71
Rhizosolenia setigera	0.77	0.00	0.90	0.59	0.97	85.68
Akistrodesmus falcatus	0.00	0.64	0.85	0.68	0.91	86.59
Chaetoceros subtilis	0.27	0.44	0.83	0.48	0.89	87.48
Unknown diatom sp. A	0.58	0.00	0.72	0.42	0.78	88.26
Prorocentrum sp.	0.58	0.00	0.71	0.41	0.76	89.02
Scenedesmus sp.	0.27	0.26	0.65	0.46	0.70	89.72
Bluegreen filamentous sp.	0.00	0.41	0.58	0.60	0.62	90.34

Groups 70%Grp4 & 70%Grp7

Average dissimilarity = 92.80

Species	Group 70%Grp4 Av.Abund	Group 70%Grp7 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	12.20	1.71	13.15	13.15
Unknown diatom sp. D	8.36	0.00	9.08	3.49	9.78	22.93
Unknown Cryptophyte sp.	7.43	0.00	8.76	5.99	9.44	32.37
Thalassiosira sp.	4.72	0.10	5.56	3.89	6.00	38.36
Unknown diatom sp.	4.70	0.00	5.40	7.98	5.82	44.18
Nitzschia closterium	4.12	0.08	5.01	2.81	5.40	49.58
Skeletonema costatum	5.96	3.27	4.85	1.52	5.23	54.80
Pyramimonas sp.	3.83	0.00	4.59	4.57	4.94	59.75
Chaetoceros sp.	3.08	0.00	2.87	0.97	3.10	62.84
Gymnodinium sp.	2.63	1.01	2.72	1.51	2.93	65.78
Unknown pennate diatom sp.	0.00	2.07	2.47	1.76	2.66	68.43
Nitzschia pungens	2.29	0.00	2.14	0.97	2.30	70.74
Cyclotella sp. (small)	0.00	1.79	2.07	0.66	2.23	72.97
Cyclotella sp.	0.00	1.76	2.05	0.69	2.20	75.18
Leptocyndricus minimum	1.88	0.00	1.75	0.97	1.89	77.07
Cyclotella sp. (large)	0.00	1.45	1.65	0.56	1.77	78.84
Prorocentrum sp.	1.50	0.00	1.39	0.97	1.50	80.34
Peridinium sp.	1.50	0.00	1.39	0.97	1.50	81.85
Scenedesmus quadracauda	0.00	1.15	1.32	1.03	1.42	83.27
Schroederia setigera	0.00	1.04	1.18	1.02	1.28	84.55
Thalassiosira pseudonana	0.00	1.05	1.18	0.53	1.27	85.82
Rhizosolenia setigera	1.26	0.00	1.17	0.97	1.26	87.08
Navicula sp. large	1.26	0.00	1.17	0.97	1.26	88.35
Leptocyndricus danicus	1.26	0.00	1.17	0.97	1.26	89.61
Eutreptia sp.	0.00	0.88	1.05	0.91	1.13	90.75

Groups 70%Grp3 & 70%Grp9

Average dissimilarity = 95.00

Species	Group 70%Grp3 Av.Abund	Group 70%Grp9 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	9.78	1.57	10.29	10.29
Skeletonema costatum	0.16	4.02	7.77	2.36	8.18	18.48
Unknown diatom sp.	3.09	0.00	6.21	2.34	6.53	25.01
Unknown diatom sp. D	2.34	0.00	4.58	1.55	4.83	29.84
Prorocentrum micans	1.61	0.24	3.67	0.59	3.87	33.71
Unknown Dinoflagellate sp.	1.73	0.00	3.58	0.97	3.77	37.48
Thalassiosira sp.	2.01	0.61	3.49	1.52	3.68	41.16
Chaetoceros subtilis	0.00	1.53	3.33	0.90	3.50	44.66
Scenedesmus sp.	1.47	0.07	2.76	1.14	2.90	47.56

Navicula sp. small	1.23	0.00	2.55	0.84	2.69	50.25
Nitzschia closterium	0.20	1.16	2.30	1.15	2.42	52.67
Peridinium aciculiferum	0.00	0.96	2.07	0.82	2.17	54.85
Leptocylicus minimum	0.61	0.86	1.98	0.97	2.08	56.93
Nitzschia pungens	0.80	0.38	1.76	0.90	1.86	58.78
Unknown bluegreen sp.	0.83	0.00	1.70	0.88	1.79	60.58
Coscinodiscus sp.	0.83	0.00	1.70	0.57	1.79	62.37
Pyramimonas sp.	0.84	0.07	1.63	0.85	1.72	64.09
Schizothrix sp.	0.00	0.87	1.56	0.50	1.64	65.73
Chaetoceros socialis	0.00	0.85	1.55	0.81	1.63	67.36
Unknown pennate diatom sp.	0.00	0.79	1.47	0.82	1.54	68.90
Navicula sp. large	0.66	0.00	1.46	0.64	1.53	70.44
Tetraedron sp.	0.82	0.00	1.45	0.74	1.53	71.97
Akistrodesmus sp.	0.76	0.05	1.40	0.60	1.47	73.43
Eutreptia sp.	0.37	0.45	1.38	0.63	1.45	74.88
Thalassiosira pseudonana	0.00	0.71	1.31	0.72	1.38	76.26
Nitzschia longissima	0.00	0.64	1.23	0.87	1.30	77.56
Thalassionema nitzschoides	0.35	0.40	1.14	0.70	1.20	78.75
Ceratulina bergonii	0.00	0.49	0.99	0.41	1.05	79.80
Chaetoceros neogracile	0.00	0.50	0.92	0.58	0.97	80.77
Prorocentrum sp.	0.45	0.00	0.91	0.38	0.95	81.73
Nitzschia sp.	0.38	0.06	0.89	0.42	0.94	82.66
Prorocentrum minimum	0.16	0.37	0.84	0.61	0.88	83.55
Leptocylicus danicus	0.27	0.16	0.84	0.49	0.88	84.43
Rhizosolenia setigera	0.00	0.41	0.79	0.56	0.83	85.26
Gymnodinium sp.	0.09	0.33	0.76	0.58	0.80	86.06
Prorocentrum redfieldi	0.40	0.00	0.73	0.36	0.77	86.83
Eutreptiella sp.	0.35	0.00	0.65	0.39	0.68	87.51
Aphanocapsa sp.	0.36	0.00	0.59	0.39	0.62	88.13
Cyclotella sp.	0.00	0.31	0.57	0.42	0.60	88.73
Schroederia setigera	0.00	0.27	0.56	0.41	0.59	89.32
Cyclotella sp. (small)	0.00	0.25	0.55	0.28	0.58	89.89
Oscillatoria sp.	0.32	0.00	0.54	0.39	0.57	90.46

Groups 70%Grp6 & 70%Grp9

Average dissimilarity = 89.94

Species	Group 70%Grp6 Av.Abund	Group 70%Grp9 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	9.91	1.55	11.02	11.02
Unknown Cryptophyte sp.	6.29	0.00	9.66	2.20	10.74	21.77
Skeletonema costatum	3.34	4.02	5.38	1.34	5.98	27.74

Unknown diatom sp.	3.30	0.00	4.81	1.61	5.35	33.09
Thalassiosira sp.	3.51	0.61	4.77	1.03	5.31	38.40
Unknown Dinoflagellate sp.	3.01	0.00	4.68	1.22	5.20	43.60
Prorocentrum minimum	1.60	0.37	2.91	0.40	3.23	46.83
Chaetoceros subtilis	0.16	1.53	2.62	0.90	2.91	49.74
Peridinium sp.	1.80	0.26	2.56	0.82	2.84	52.58
Pyramimonas sp.	1.63	0.07	2.23	0.93	2.48	55.07
Eutreptia sp.	1.21	0.45	2.20	0.63	2.45	57.52
Nitzschia closterium	0.92	1.16	2.10	1.22	2.34	59.85
Skeletonema menezelli	1.46	0.00	1.82	0.34	2.03	61.88
Chaetoceros sp.	1.28	0.11	1.71	0.64	1.91	63.78
Leptocylicus minimum	0.72	0.86	1.65	0.92	1.84	65.62
Peridinium aciculiferum	0.00	0.96	1.56	0.79	1.74	67.36
Nitzschia pungens	0.82	0.38	1.44	0.71	1.61	68.97
Schizothrix sp.	0.11	0.87	1.31	0.51	1.46	70.43
Chaetoceros socialis	0.00	0.85	1.22	0.79	1.35	71.78
Unknown pennate diatom sp.	0.00	0.79	1.15	0.80	1.28	73.06
Prorocentrum sp.	0.77	0.00	1.11	0.33	1.24	74.29
Eutreptiella sp.	0.69	0.00	1.11	0.35	1.23	75.52
Rhizosolenia setigera	0.51	0.41	1.05	0.75	1.17	76.69
Thalassiosira pseudonana	0.00	0.71	1.03	0.71	1.14	77.83
Nitzschia longissima	0.00	0.64	0.96	0.85	1.07	78.90
Leptocylicus danicus	0.65	0.16	0.95	0.43	1.05	79.95
Unknown Katodinium sp.	0.54	0.00	0.93	0.28	1.03	80.98
Scenedesmus sp.	0.60	0.07	0.90	0.48	1.00	81.98
Prorocentrum micans	0.34	0.24	0.83	0.37	0.92	82.90
Ceratulina bergonii	0.00	0.49	0.76	0.41	0.85	83.75
Chaetoceros neogracile	0.00	0.50	0.72	0.57	0.80	84.55
Ceratium hircus	0.36	0.18	0.72	0.44	0.80	85.35
Glenodinium sp.	0.50	0.00	0.69	0.30	0.77	86.12
Navicula sp. large	0.47	0.00	0.68	0.44	0.75	86.88
Thalassionema nitzschoides	0.14	0.40	0.67	0.55	0.75	87.63
Chaetoceros gracile	0.51	0.00	0.67	0.29	0.74	88.37
Unknown diatom sp. A	0.52	0.00	0.66	0.33	0.73	89.10
Gymnodinium sp.	0.15	0.33	0.65	0.54	0.72	89.82
Prorocentrum redfieldi	0.41	0.00	0.52	0.19	0.58	90.40

Groups 70%Grp5 & 70%Grp9

Average dissimilarity = 83.59

Species	Group 70%Grp5 Av.Abund	Group 70%Grp9 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
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Unknown diatom sp. D	6.13	0.00	8.25	1.94	9.87	9.87
Unknown Cryptophyte sp.	5.10	0.00	7.57	2.27	9.05	18.92
Skeletonema costatum	7.46	4.02	6.92	1.57	8.28	27.21
Unknown diatom sp.	3.67	0.00	4.99	2.17	5.97	33.18
Thalassiosira sp.	4.15	0.61	4.80	2.08	5.74	38.92
Nitzschia closterium	3.83	1.16	4.03	1.83	4.82	43.74
Nitzschia pungens	2.56	0.38	3.37	1.27	4.03	47.77
Unknown Dinoflagellate sp.	2.35	0.00	3.10	1.30	3.71	51.48
Chaetoceros sp.	2.39	0.11	3.07	1.13	3.68	55.16
Chaetoceros subtilis	0.27	1.53	2.47	0.92	2.96	58.11
Skeletonema menezelli	2.03	0.00	2.29	0.40	2.74	60.85
Leptocylicus minimum	1.46	0.86	2.16	1.01	2.59	63.44
Pyramimonas sp.	1.39	0.07	2.03	0.79	2.43	65.87
Peridinium sp.	1.06	0.26	1.46	0.68	1.75	67.62
Peridinium aciculiferum	0.00	0.96	1.44	0.80	1.72	69.33
Thalassionema nitzschoides	0.96	0.40	1.39	0.79	1.66	70.99
Ceratium hircus	0.95	0.18	1.25	0.55	1.49	72.49
Rhizosolenia setigera	0.77	0.41	1.23	0.81	1.47	73.96
Schizothrix sp.	0.00	0.87	1.14	0.48	1.36	75.32
Chaetoceros socialis	0.00	0.85	1.13	0.79	1.35	76.67
Leptocylicus danicus	0.69	0.16	1.09	0.59	1.30	77.98
Unknown pennate diatom sp.	0.00	0.79	1.07	0.80	1.28	79.25
Navicula sp. large	0.73	0.00	0.97	0.59	1.16	80.41
Thalassiosira pseudonana	0.00	0.71	0.95	0.71	1.14	81.55
Nitzschia longissima	0.00	0.64	0.89	0.85	1.06	82.61
Unknown diatom sp. A	0.58	0.00	0.75	0.42	0.89	83.51
Prorocentrum sp.	0.58	0.00	0.73	0.41	0.87	84.38
Ceratulina bergonii	0.00	0.49	0.70	0.41	0.84	85.22
Prorocentrum minimum	0.16	0.37	0.70	0.49	0.83	86.05
Eutreptia sp.	0.08	0.45	0.69	0.62	0.83	86.88
Chaetoceros neogracile	0.00	0.50	0.67	0.57	0.80	87.68
Gymnodinium sp.	0.22	0.33	0.65	0.60	0.77	88.46
Prorocentrum micans	0.32	0.24	0.61	0.54	0.73	89.18
Navicula sp. small	0.46	0.00	0.58	0.36	0.69	89.87
Chaetoceros gracile	0.36	0.00	0.50	0.20	0.59	90.46

Groups 70%Grp4 & 70%Grp9

Average dissimilarity = 83.78

Species	Group 70%Grp4 Av.Abund	Group 70%Grp9 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	12.57	1.74	15.01	15.01

Unknown diatom sp. D	8.36	0.00	9.31	3.67	11.11	26.12
Unknown Cryptophyte sp.	7.43	0.00	9.00	6.45	10.75	36.87
Unknown diatom sp.	4.70	0.00	5.55	9.41	6.62	43.49
Thalassiosira sp.	4.72	0.61	5.10	2.80	6.08	49.58
Pyramimonas sp.	3.83	0.07	4.64	4.07	5.54	55.12
Nitzschia closterium	4.12	1.16	3.91	1.83	4.67	59.78
Chaetoceros sp.	3.08	0.11	2.97	1.03	3.54	63.33
Skeletonema costatum	5.96	4.02	2.61	1.43	3.11	66.44
Gymnodinium sp.	2.63	0.33	2.59	1.14	3.10	69.54
Nitzschia pungens	2.29	0.38	2.28	1.13	2.72	72.26
Leptocylicus minimum	1.88	0.86	2.01	1.27	2.40	74.66
Chaetoceros subtilis	0.00	1.53	1.97	0.91	2.35	77.01
Peridinium sp.	1.50	0.26	1.50	1.07	1.79	78.80
Prorocentrum sp.	1.50	0.00	1.43	0.99	1.70	80.50
Rhizosolenia setigera	1.26	0.41	1.31	1.16	1.57	82.07
Leptocylicus danicus	1.26	0.16	1.24	1.04	1.48	83.55
Peridinium aciculiferum	0.00	0.96	1.23	0.80	1.46	85.01
Navicula sp. large	1.26	0.00	1.20	0.99	1.43	86.44
Schizothrix sp.	0.00	0.87	0.99	0.48	1.19	87.63
Chaetoceros socialis	0.00	0.85	0.98	0.79	1.17	88.80
Unknown pennate diatom sp.	0.00	0.79	0.93	0.80	1.11	89.91
Thalassiosira pseudonana	0.00	0.71	0.83	0.71	0.99	90.90

Groups 70%Grp7 & 70%Grp9

Average dissimilarity = 81.12

Species	Group 70%Grp7 Av.Abund	Group 70%Grp9 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	4.02	8.08	1.36	9.97	9.97
Cyclotella sp. (small)	1.79	0.25	4.31	0.75	5.32	15.28
Cyclotella sp.	1.76	0.31	4.25	0.80	5.23	20.52
Chaetoceros subtilis	0.44	1.53	4.06	0.87	5.00	25.52
Unknown pennate diatom sp.	2.07	0.79	4.04	1.18	4.99	30.50
Cyclotella sp. (large)	1.45	0.04	3.20	0.60	3.95	34.45
Thalassiosira pseudonana	1.05	0.71	3.06	0.83	3.78	38.22
Nitzschia closterium	0.08	1.16	2.58	1.09	3.18	41.40
Peridinium aciculiferum	0.11	0.96	2.58	0.81	3.18	44.58
Scenedesmus quadricauda	1.15	0.13	2.57	1.07	3.17	47.75
Gymnodinium sp.	1.01	0.33	2.40	1.01	2.95	50.70
Schroederia setigera	1.04	0.27	2.38	1.05	2.93	53.63
Eutreptia sp.	0.88	0.45	2.22	1.04	2.74	56.37
Thalassiosira decipiens	0.91	0.09	2.04	0.54	2.51	58.88

Scenedesmus bijinga	0.90	0.00	2.01	0.82	2.48	61.36
Nitzschia longissima	0.78	0.64	1.96	1.07	2.41	63.77
Leptocylicus minimum	0.00	0.86	1.85	0.75	2.28	66.05
Chaetoceros socialis	0.00	0.85	1.84	0.79	2.27	68.32
Schizothrix sp.	0.00	0.87	1.84	0.49	2.27	70.59
Thalassiosira sp.	0.10	0.61	1.55	0.58	1.92	72.51
Akistrodesmus falcatus	0.64	0.00	1.45	0.66	1.79	74.30
Ceratulina bergonii	0.00	0.49	1.22	0.40	1.50	75.79
Chaetoceros neogracile	0.00	0.50	1.09	0.56	1.34	77.14
Bluegreen filamentous sp.	0.41	0.00	1.03	0.60	1.27	78.41
Prorocentrum minimum	0.16	0.37	1.01	0.66	1.25	79.66
Rhizosolenia setigera	0.00	0.41	0.96	0.54	1.18	80.84
Thalassionema nitzschoides	0.00	0.40	0.86	0.50	1.07	81.91
Melosira sp.	0.36	0.00	0.85	0.49	1.05	82.96
Scenedesmus acutus	0.34	0.05	0.81	0.43	1.00	83.96
Nitzschia pungens	0.00	0.38	0.81	0.48	1.00	84.97
Cyclotella meneghiniana	0.40	0.00	0.76	0.27	0.93	85.90
Pleurosigma sp.	0.24	0.06	0.75	0.53	0.92	86.82
Crucigenia sp.	0.22	0.00	0.74	0.49	0.91	87.73
Merismopedia punctata	0.29	0.00	0.73	0.38	0.90	88.64
Scrippsiella sp.	0.08	0.24	0.64	0.51	0.79	89.43
Gonyaulax polygramma	0.00	0.24	0.63	0.40	0.78	90.21

Groups 70%Grp3 & 70%Grp10

Average dissimilarity = 97.18

Species	Group 70%Grp3 Av.Abund	Group 70%Grp10 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	9.01	1.62	9.27	9.27
Skeletonema costatum	0.16	4.06	7.28	2.63	7.49	16.76
Unknown diatom sp.	3.09	0.00	5.72	2.50	5.89	22.65
Chaetoceros subtilis	0.00	2.80	5.21	1.58	5.36	28.01
Unknown diatom sp. D	2.34	0.00	4.24	1.60	4.36	32.37
Thalassiosira sp.	2.01	0.31	3.35	1.67	3.45	35.82
Unknown Dinoflagellate sp.	1.73	0.00	3.29	0.99	3.39	39.21
Prorocentrum micans	1.61	0.00	3.22	0.56	3.32	42.53
Cyclotella sp. (small)	0.00	1.40	2.59	0.68	2.66	45.19
Scenedesmus sp.	1.47	0.00	2.57	1.15	2.65	47.84
Navicula sp. small	1.23	0.00	2.34	0.85	2.41	50.25
Schroederia setigera	0.00	1.25	2.29	1.43	2.36	52.61
Thalassiosira pseudonana	0.00	1.15	2.14	0.70	2.20	54.81
Peridinium aciculiferum	0.00	1.07	2.07	0.72	2.13	56.94

Gymnodinium sp.	0.09	1.06	1.94	0.86	2.00	58.93
Nitzschia longissima	0.00	0.91	1.76	1.22	1.81	60.74
Coscinodiscus sp.	0.83	0.00	1.57	0.58	1.61	62.35
Unknown bluegreen sp.	0.83	0.00	1.56	0.90	1.61	63.96
Nitzschia pungens	0.80	0.21	1.51	0.89	1.56	65.52
Pyramimonas sp.	0.84	0.06	1.49	0.87	1.53	67.05
Schizothrix sp.	0.00	0.71	1.40	0.47	1.44	68.49
Cyclotella sp.	0.00	0.79	1.39	0.53	1.43	69.93
Unknown pennate diatom sp.	0.00	0.72	1.36	0.73	1.40	71.33
Tetraedron sp.	0.82	0.00	1.35	0.75	1.39	72.72
Scenedesmus quadricauda	0.00	0.73	1.34	0.81	1.38	74.10
Leptocylindricus minimum	0.61	0.29	1.34	0.76	1.38	75.48
Navicula sp. large	0.66	0.00	1.33	0.65	1.37	76.86
Eutreptia sp.	0.37	0.42	1.28	0.63	1.31	78.17
Akistrodesmus sp.	0.76	0.00	1.26	0.58	1.29	79.46
Thalassiosira decipiens	0.00	0.59	1.08	0.73	1.11	80.57
Gonyaulax polygramma	0.00	0.53	1.01	0.68	1.04	81.62
Nitzschia closterium	0.20	0.40	0.96	0.64	0.99	82.60
Prorocentrum sp.	0.45	0.00	0.84	0.38	0.86	83.47
Leptocylindricus danicus	0.27	0.20	0.82	0.50	0.85	84.31
Akistrodesmus falcatus	0.00	0.46	0.81	0.56	0.83	85.15
Scenedesmus bijinga	0.00	0.43	0.79	0.50	0.82	85.96
Nitzschia sp.	0.38	0.00	0.74	0.38	0.76	86.72
Euglena sp.	0.00	0.38	0.72	0.49	0.74	87.46
Thalassionema nitzschoides	0.35	0.09	0.71	0.54	0.73	88.19
Peridinium sp.	0.00	0.41	0.70	0.55	0.72	88.92
Prorocentrum minimum	0.16	0.29	0.70	0.56	0.72	89.63
Prorocentrum redfieldi	0.40	0.00	0.68	0.36	0.70	90.33

Groups 70%Grp6 & 70%Grp10

Average dissimilarity = 92.20

Species	Group 70%Grp6 Av.Abund	Group 70%Grp10 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	9.35	1.58	10.14	10.14
Unknown Cryptophyte sp.	6.29	0.00	9.08	2.31	9.85	19.98
Skeletonema costatum	3.34	4.06	5.12	1.46	5.56	25.54
Thalassiosira sp.	3.51	0.31	4.66	1.06	5.06	30.60
Unknown diatom sp.	3.30	0.00	4.54	1.64	4.92	35.52
Unknown Dinoflagellate sp.	3.01	0.00	4.39	1.25	4.77	40.29
Chaetoceros subtilis	0.16	2.80	4.12	1.51	4.47	44.76
Prorocentrum minimum	1.60	0.29	2.68	0.39	2.90	47.66

Peridinium sp.	1.80	0.41	2.47	0.87	2.68	50.34
Pyramimonas sp.	1.63	0.06	2.12	0.96	2.30	52.64
Eutreptia sp.	1.21	0.42	2.07	0.63	2.25	54.88
Cyclotella sp. (small)	0.00	1.40	2.03	0.66	2.20	57.08
Schroederia setigera	0.00	1.25	1.80	1.37	1.95	59.03
Skeletonema menezelli	1.46	0.00	1.74	0.34	1.89	60.92
Thalassiosira pseudonana	0.00	1.15	1.67	0.68	1.82	62.74
Peridinium aciculiferum	0.00	1.07	1.61	0.71	1.74	64.48
Gymnodinium sp.	0.15	1.06	1.58	0.83	1.72	66.19
Chaetoceros sp.	1.28	0.00	1.55	0.60	1.68	67.88
Nitzschia closterium	0.92	0.40	1.50	0.86	1.62	69.50
Nitzschia longissima	0.00	0.91	1.37	1.17	1.48	70.98
Nitzschia pungens	0.82	0.21	1.26	0.67	1.37	72.34
Schizothrix sp.	0.11	0.71	1.17	0.48	1.27	73.61
Cyclotella sp.	0.00	0.79	1.10	0.52	1.19	74.80
Leptocylindricus minimum	0.72	0.29	1.09	0.68	1.18	75.99
Unknown pennate diatom sp.	0.00	0.72	1.06	0.71	1.15	77.14
Scenedesmus quadricauda	0.00	0.73	1.06	0.79	1.15	78.28
Prorocentrum sp.	0.77	0.00	1.05	0.34	1.14	79.42
Eutreptiella sp.	0.69	0.00	1.03	0.35	1.12	80.54
Leptocylindricus danicus	0.65	0.20	0.95	0.45	1.03	81.57
Unknown Katodinium sp.	0.54	0.00	0.86	0.29	0.94	82.51
Thalassiosira decipiens	0.00	0.59	0.85	0.71	0.92	83.43
Scenedesmus sp.	0.60	0.00	0.79	0.44	0.86	84.29
Gonyaulax polygramma	0.00	0.53	0.79	0.67	0.85	85.14
Glenodinium sp.	0.50	0.00	0.66	0.30	0.71	85.86
Rhizosolenia setigera	0.51	0.06	0.66	0.53	0.71	86.57
Navicula sp. large	0.47	0.00	0.64	0.44	0.70	87.27
Akistrodesmus falcatus	0.00	0.46	0.64	0.55	0.69	87.96
Chaetoceros gracile	0.51	0.00	0.63	0.29	0.69	88.65
Unknown diatom sp. A	0.52	0.00	0.63	0.33	0.68	89.33
Scenedesmus bijinga	0.00	0.43	0.62	0.49	0.67	90.00

Groups 70%Grp5 & 70%Grp10

Average dissimilarity = 87.82

Species	Group 70%Grp5 Av.Abund	Group 70%Grp10 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.13	0.00	7.82	1.97	8.91	8.91
Unknown Cryptophyte sp.	5.10	0.00	7.13	2.43	8.12	17.02
Skeletonema costatum	7.46	4.06	6.53	1.70	7.43	24.46
Thalassiosira sp.	4.15	0.31	4.84	2.38	5.52	29.97

Unknown diatom sp.	3.67	0.00	4.73	2.22	5.39	35.36
Nitzschia closterium	3.83	0.40	4.49	2.19	5.11	40.47
Chaetoceros subtilis	0.27	2.80	3.83	1.52	4.36	44.83
Nitzschia pungens	2.56	0.21	3.24	1.31	3.69	48.52
Unknown Dinoflagellate sp.	2.35	0.00	2.94	1.31	3.35	51.87
Chaetoceros sp.	2.39	0.00	2.94	1.12	3.34	55.22
Skeletonema menezelli	2.03	0.00	2.20	0.40	2.50	57.72
Pyramimonas sp.	1.39	0.06	1.90	0.82	2.17	59.88
Cyclotella sp. (small)	0.00	1.40	1.88	0.66	2.14	62.03
Leptocylindricus minimum	1.46	0.29	1.83	0.84	2.09	64.11
Schroederia setigera	0.00	1.25	1.67	1.37	1.90	66.01
Thalassiosira pseudonana	0.00	1.15	1.55	0.68	1.77	67.78
Peridinium aciculiferum	0.00	1.07	1.49	0.71	1.69	69.48
Peridinium sp.	1.06	0.41	1.48	0.76	1.69	71.16
Gymnodinium sp.	0.22	1.06	1.47	0.85	1.68	72.84
Nitzschia longissima	0.00	0.91	1.26	1.17	1.44	74.28
Thalassionema nitzschoides	0.96	0.09	1.12	0.64	1.27	75.55
Leptocylindricus danicus	0.69	0.20	1.06	0.61	1.21	76.76
Ceratium hircus	0.95	0.00	1.04	0.48	1.19	77.95
Cyclotella sp.	0.00	0.79	1.02	0.52	1.16	79.11
Schizothrix sp.	0.00	0.71	1.00	0.46	1.14	80.25
Unknown pennate diatom sp.	0.00	0.72	0.99	0.71	1.12	81.37
Scenedesmus quadricauda	0.00	0.73	0.98	0.79	1.12	82.49
Rhizosolenia setigera	0.77	0.06	0.92	0.63	1.05	83.54
Navicula sp. large	0.73	0.00	0.92	0.60	1.04	84.59
Thalassiosira decipiens	0.00	0.59	0.79	0.71	0.90	85.49
Gonyaulax polygramma	0.00	0.53	0.73	0.67	0.83	86.32
Unknown diatom sp. A	0.58	0.00	0.71	0.42	0.80	87.12
Prorocentrum sp.	0.58	0.00	0.69	0.41	0.79	87.91
Eutreptia sp.	0.08	0.42	0.64	0.59	0.73	88.65
Akistrodesmus falcatus	0.00	0.46	0.60	0.55	0.68	89.32
Prorocentrum minimum	0.16	0.29	0.59	0.44	0.67	89.99
Scenedesmus bijinga	0.00	0.43	0.58	0.49	0.66	90.65

Groups 70%Grp4 & 70%Grp10

Average dissimilarity = 87.00

Species	Group 70%Grp4 Av.Abund	Group 70%Grp10 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	11.92	1.78	13.70	13.70
Unknown diatom sp. D	8.36	0.00	8.92	3.63	10.25	23.95
Unknown Cryptophyte sp.	7.43	0.00	8.58	8.27	9.87	33.82

Unknown diatom sp.	4.70	0.00	5.30	13.88	6.09	39.91
Thalassiosira sp.	4.72	0.31	5.21	3.80	5.99	45.90
Nitzschia closterium	4.12	0.40	4.54	2.58	5.22	51.12
Pyramimonas sp.	3.83	0.06	4.42	5.31	5.08	56.20
Chaetoceros subtilis	0.00	2.80	3.29	1.49	3.78	59.98
Chaetoceros sp.	3.08	0.00	2.84	0.98	3.26	63.24
Gymnodinium sp.	2.63	1.06	2.69	1.36	3.09	66.33
Skeletonema costatum	5.96	4.06	2.45	1.69	2.82	69.15
Nitzschia pungens	2.29	0.21	2.17	1.10	2.49	71.64
Leptocylindricus minimum	1.88	0.29	1.80	1.08	2.07	73.71
Cyclotella sp. (small)	0.00	1.40	1.64	0.65	1.88	75.59
Peridinium sp.	1.50	0.41	1.47	1.15	1.69	77.29
Schroederia setigera	0.00	1.25	1.45	1.36	1.67	78.96
Prorocentrum sp.	1.50	0.00	1.38	0.98	1.58	80.54
Thalassiosira pseudonana	0.00	1.15	1.35	0.67	1.55	82.09
Peridinium aciculiferum	0.00	1.07	1.29	0.71	1.48	83.57
Leptocylindricus danicus	1.26	0.20	1.21	1.03	1.39	84.96
Rhizosolenia setigera	1.26	0.06	1.17	1.02	1.35	86.31
Navicula sp. large	1.26	0.00	1.16	0.98	1.33	87.64
Nitzschia longissima	0.00	0.91	1.10	1.17	1.26	88.90
Cyclotella sp.	0.00	0.79	0.89	0.51	1.03	89.92
Schizothrix sp.	0.00	0.71	0.86	0.46	0.99	90.92

Groups 70%Grp7 & 70%Grp10

Average dissimilarity = 72.69

Species	Group 70%Grp7 Av.Abund	Group 70%Grp10 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	4.06	7.20	1.40	9.90	9.90
Chaetoceros subtilis	0.44	2.80	5.69	1.39	7.83	17.73
Cyclotella sp. (small)	1.79	1.40	4.97	0.97	6.84	24.57
Cyclotella sp.	1.76	0.79	4.24	0.91	5.83	30.40
Unknown pennate diatom sp.	2.07	0.72	3.61	1.35	4.97	35.37
Thalassiosira pseudonana	1.05	1.15	3.58	0.89	4.92	40.29
Cyclotella sp. (large)	1.45	0.11	3.00	0.63	4.13	44.42
Gymnodinium sp.	1.01	1.06	2.73	1.14	3.76	48.18
Thalassiosira decipiens	0.91	0.59	2.53	0.79	3.48	51.66
Peridinium aciculiferum	0.11	1.07	2.52	0.73	3.46	55.12
Scenedesmus quadracauda	1.15	0.73	2.38	1.14	3.27	58.39
Schroederia setigera	1.04	1.25	2.34	1.20	3.21	61.60
Scenedesmus bijinga	0.90	0.43	2.08	0.92	2.87	64.47
Eutreptia sp.	0.88	0.42	2.01	1.05	2.76	67.23

Nitzschia longissima	0.78	0.91	1.94	1.16	2.67	69.91
Akistrodesmus falcatus	0.64	0.46	1.72	0.85	2.37	72.27
Schizothrix sp.	0.00	0.71	1.69	0.46	2.32	74.60
Gonyaulax polygramma	0.00	0.53	1.22	0.66	1.67	76.27
Merismopedia punctata	0.29	0.23	1.10	0.50	1.51	77.78
Bluegreen filamentous sp.	0.41	0.15	1.09	0.69	1.49	79.28
Nitzschia closterium	0.08	0.40	0.99	0.64	1.37	80.64
Euglena sp.	0.09	0.38	0.96	0.54	1.33	81.97
Melosira sp.	0.36	0.15	0.94	0.59	1.30	83.27
Scenedesmus acutus	0.34	0.16	0.93	0.46	1.28	84.55
Pleurosigma sp.	0.24	0.16	0.87	0.57	1.19	85.74
Prorocentrum minimum	0.16	0.29	0.83	0.63	1.14	86.88
Peridinium sp.	0.00	0.41	0.82	0.55	1.12	88.00
Crucigenia sp.	0.22	0.10	0.77	0.57	1.06	89.06
Thalassiosira sp.	0.10	0.31	0.75	0.54	1.03	90.09

Groups 70%Grp9 & 70%Grp10

Average dissimilarity = 67.46

Species	Group 70%Grp9 Av.Abund	Group 70%Grp10 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Chaetoceros subtilis	1.53	2.80	4.97	1.35	7.36	7.36
Skeletonema costatum	4.02	4.06	3.82	1.17	5.66	13.02
Cyclotella sp. (small)	0.25	1.40	3.44	0.73	5.10	18.12
Peridinium aciculiferum	0.96	1.07	3.21	1.01	4.76	22.88
Thalassiosira pseudonana	0.71	1.15	3.07	0.90	4.55	27.43
Schizothrix sp.	0.87	0.71	2.95	0.68	4.38	31.81
Schroederia setigera	0.27	1.25	2.70	1.35	4.01	35.82
Gymnodinium sp.	0.33	1.06	2.47	0.93	3.66	39.48
Nitzschia closterium	1.16	0.40	2.42	1.14	3.59	43.07
Unknown pennate diatom sp.	0.79	0.72	2.25	1.00	3.34	46.41
Cyclotella sp.	0.31	0.79	2.07	0.66	3.08	49.48
Nitzschia longissima	0.64	0.91	1.96	1.12	2.90	52.38
Leptocylindricus minimum	0.86	0.29	1.95	0.86	2.90	55.28
Chaetoceros socialis	0.85	0.00	1.75	0.82	2.60	57.88
Scenedesmus quadracauda	0.13	0.73	1.73	0.84	2.56	60.44
Thalassiosira sp.	0.61	0.31	1.69	0.71	2.51	62.95
Gonyaulax polygramma	0.24	0.53	1.50	0.77	2.23	65.18
Eutreptia sp.	0.45	0.42	1.44	0.83	2.13	67.31
Thalassiosira decipiens	0.09	0.59	1.40	0.77	2.08	69.39
Ceratulina bergonii	0.49	0.14	1.33	0.49	1.98	71.37
Chaetoceros neogracile	0.50	0.17	1.24	0.66	1.84	73.21

Peridinium sp.	0.26	0.41	1.22	0.67	1.80	75.01
Euglena sp.	0.20	0.38	1.15	0.59	1.71	76.72
Nitzschia pungens	0.38	0.21	1.12	0.65	1.66	78.38
Prorocentrum minimum	0.37	0.29	1.10	0.74	1.63	80.01
Akistrodesmus falcatus	0.00	0.46	0.99	0.56	1.47	81.48
Scenedesmus bijinga	0.00	0.43	0.98	0.49	1.45	82.93
Rhizosolenia setigera	0.41	0.06	0.97	0.61	1.44	84.37
Thalassionema nitzschoides	0.40	0.09	0.95	0.57	1.41	85.77
Scrippsiella sp.	0.24	0.18	0.81	0.53	1.20	86.97
Leptocylicus danicus	0.16	0.20	0.68	0.46	1.01	87.98
Merismopedia punctata	0.00	0.23	0.63	0.32	0.93	88.91
Nostoc sp.(trichomes)	0.03	0.21	0.60	0.43	0.89	89.80
Pleurosigma sp.	0.06	0.16	0.53	0.36	0.78	90.58

Groups 70%Grp3 & 70%Grp11

Average dissimilarity = 94.51

Species	Group 70%Grp3 Av.Abund	Group 70%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	0.16	5.90	10.18	1.64	10.78	10.78
Unknown Cryptophyte sp.	4.79	0.04	8.54	1.52	9.04	19.81
Unknown diatom sp.	3.09	0.00	5.47	2.26	5.79	25.60
Unknown diatom sp. D	2.34	0.00	4.05	1.52	4.29	29.89
Thalassiosira sp.	2.01	1.38	3.60	1.47	3.81	33.69
Unknown Dinoflagellate sp.	1.73	0.00	3.15	0.96	3.33	37.02
Prorocentrum micans	1.61	0.13	3.14	0.57	3.33	40.35
Prorocentrum minimum	0.16	1.59	2.65	0.98	2.81	43.16
Thalassiosira pseudonana	0.00	1.56	2.57	0.82	2.72	45.87
Eutreptia sp.	0.37	1.43	2.55	1.02	2.69	48.57
Scenedesmus sp.	1.47	0.05	2.45	1.13	2.59	51.16
Navicula sp. small	1.23	0.00	2.24	0.83	2.37	53.53
Leptocylicus minimum	0.61	0.75	1.73	0.83	1.84	55.37
Pyramimonas sp.	0.84	0.33	1.66	0.88	1.75	57.12
Coscinodiscus sp.	0.83	0.05	1.55	0.60	1.64	58.75
Unknown bluegreen sp.	0.83	0.00	1.50	0.87	1.58	60.34
Schroederia setigera	0.00	0.82	1.47	0.88	1.56	61.90
Peridinium aciculiferum	0.00	0.84	1.43	0.82	1.51	63.41
Chaetoceros subtilis	0.00	0.83	1.42	0.70	1.51	64.91
Nitzschia pungens	0.80	0.12	1.42	0.81	1.50	66.41
Unknown pennate diatom sp.	0.00	0.81	1.35	0.69	1.43	67.84
Thalassiosira decipiens	0.00	0.84	1.34	0.78	1.42	69.26
Tetraedron sp.	0.82	0.07	1.33	0.76	1.41	70.68

Navicula sp. large	0.66	0.00	1.27	0.63	1.35	72.02
Nitzschia longissima	0.00	0.74	1.26	0.97	1.34	73.36
Cyclotella sp.	0.00	0.83	1.26	0.50	1.33	74.69
Akistrodesmus sp.	0.76	0.04	1.25	0.60	1.33	76.02
Nitzschia closterium	0.20	0.62	1.18	0.91	1.25	77.27
Euglena sp.	0.00	0.69	1.12	0.44	1.19	78.46
Scrippsiella sp.	0.00	0.59	1.06	0.65	1.12	79.58
Ceratulina bergonii	0.00	0.53	0.97	0.43	1.03	80.61
Gymnodinium sp.	0.09	0.53	0.91	0.74	0.97	81.58
Merismopedia punctata	0.00	0.54	0.90	0.45	0.96	82.54
Thalassionema nitzschoides	0.35	0.20	0.84	0.58	0.89	83.42
Crucigenia sp.	0.21	0.38	0.83	0.60	0.87	84.30
Prorocentrum sp.	0.45	0.00	0.80	0.38	0.85	85.14
Schizothrix sp.	0.00	0.49	0.78	0.43	0.83	85.97
Scenedesmus quadricauda	0.00	0.46	0.74	0.48	0.78	86.75
Akistrodesmus falcatus	0.00	0.43	0.71	0.54	0.75	87.50
Nitzschia sp.	0.38	0.00	0.71	0.38	0.75	88.25
Prorocentrum redfieldi	0.40	0.00	0.65	0.36	0.69	88.94
Leptocylicus danicus	0.27	0.09	0.63	0.42	0.67	89.60
Oscillatoria sp.	0.32	0.10	0.62	0.48	0.66	90.26

Groups 70%Grp6 & 70%Grp11

Average dissimilarity = 88.48

Species	Group 70%Grp6 Av.Abund	Group 70%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	8.98	1.53	10.15	10.15
Unknown Cryptophyte sp.	6.29	0.04	8.66	2.15	9.79	19.95
Skeletonema costatum	3.34	5.90	6.59	1.28	7.45	27.40
Thalassiosira sp.	3.51	1.38	4.44	1.07	5.01	32.41
Unknown diatom sp.	3.30	0.00	4.36	1.59	4.93	37.34
Unknown Dinoflagellate sp.	3.01	0.00	4.22	1.22	4.77	42.11
Prorocentrum minimum	1.60	1.59	3.67	0.60	4.15	46.27
Eutreptia sp.	1.21	1.43	2.74	0.94	3.10	49.36
Peridinium sp.	1.80	0.31	2.33	0.83	2.64	52.00
Pyramimonas sp.	1.63	0.33	2.11	0.96	2.38	54.39
Thalassiosira pseudonana	0.00	1.56	2.06	0.80	2.32	56.71
Skeletonema menezelli	1.46	0.00	1.68	0.34	1.90	58.60
Nitzschia closterium	0.92	0.62	1.53	1.00	1.73	60.34
Chaetoceros sp.	1.28	0.00	1.49	0.60	1.69	62.02
Leptocylicus minimum	0.72	0.75	1.45	0.78	1.64	63.66
Chaetoceros subtilis	0.16	0.83	1.26	0.69	1.42	65.08

Schroederia setigera	0.00	0.82	1.15	0.86	1.30	66.39
Nitzschia pungens	0.82	0.12	1.14	0.60	1.28	67.67
Peridinium aciculiferum	0.00	0.84	1.13	0.80	1.28	68.95
Thalassiosira decipiens	0.00	0.84	1.08	0.77	1.22	70.17
Unknown pennate diatom sp.	0.00	0.81	1.08	0.68	1.22	71.39
Cyclotella sp.	0.00	0.83	1.02	0.49	1.15	72.54
Prorocentrum sp.	0.77	0.00	1.01	0.33	1.14	73.68
Nitzschia longissima	0.00	0.74	1.00	0.95	1.13	74.82
Eutreptiella sp.	0.69	0.00	0.99	0.34	1.12	75.94
Euglena sp.	0.00	0.69	0.90	0.44	1.02	76.95
Scrippsiella sp.	0.00	0.59	0.83	0.65	0.94	77.89
Unknown Katodinium sp.	0.54	0.00	0.83	0.28	0.94	78.83
Scenedesmus sp.	0.60	0.05	0.81	0.47	0.91	79.74
Gymnodinium sp.	0.15	0.53	0.80	0.70	0.90	80.64
Leptocylindricus danicus	0.65	0.09	0.78	0.38	0.88	81.52
Ceratulina bergonii	0.00	0.53	0.76	0.43	0.86	82.38
Schizothrix sp.	0.11	0.49	0.72	0.45	0.82	83.20
Merismopedia punctata	0.00	0.54	0.72	0.44	0.81	84.01
Rhizosolenia setigera	0.51	0.16	0.72	0.55	0.81	84.82
Glenodinium sp.	0.50	0.00	0.63	0.30	0.72	85.54
Prorocentrum micans	0.34	0.13	0.63	0.32	0.71	86.24
Navicula sp. large	0.47	0.00	0.62	0.44	0.70	86.94
Chaetoceros gracile	0.51	0.00	0.61	0.29	0.69	87.63
Unknown diatom sp. A	0.52	0.00	0.60	0.33	0.68	88.32
Scenedesmus quadracauda	0.00	0.46	0.59	0.47	0.67	88.99
Akistrodesmus falcatus	0.00	0.43	0.57	0.53	0.64	89.63
Ceratium hircus	0.36	0.08	0.53	0.37	0.60	90.22

Groups 70%Grp5 & 70%Grp11

Average dissimilarity = 83.00

Species	Group 70%Grp5 Av.Abund	Group 70%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.13	0.00	7.53	1.90	9.07	9.07
Unknown Cryptophyte sp.	5.10	0.04	6.80	2.26	8.19	17.26
Skeletonema costatum	7.46	5.90	6.06	1.35	7.30	24.56
Unknown diatom sp.	3.67	0.00	4.55	2.13	5.49	30.05
Thalassiosira sp.	4.15	1.38	4.26	1.85	5.13	35.17
Nitzschia closterium	3.83	0.62	4.13	1.99	4.97	40.15
Nitzschia pungens	2.56	0.12	3.15	1.24	3.80	43.95
Unknown Dinoflagellate sp.	2.35	0.00	2.83	1.29	3.41	47.36
Chaetoceros sp.	2.39	0.00	2.83	1.10	3.41	50.77

Skeletonema menezelli	2.03	0.00	2.12	0.40	2.56	53.33
Prorocentrum minimum	0.16	1.59	2.05	0.96	2.46	55.79
Leptocylicus minimum	1.46	0.75	1.99	0.92	2.40	58.19
Thalassiosira pseudonana	0.00	1.56	1.92	0.80	2.31	60.50
Pyramimonas sp.	1.39	0.33	1.91	0.84	2.30	62.80
Eutreptia sp.	0.08	1.43	1.78	0.99	2.14	64.95
Peridinium sp.	1.06	0.31	1.35	0.71	1.62	66.57
Chaetoceros subtilis	0.27	0.83	1.27	0.69	1.53	68.10
Thalassionema nitzschoides	0.96	0.20	1.17	0.69	1.41	69.51
Schroederia setigera	0.00	0.82	1.07	0.87	1.29	70.80
Ceratium hircus	0.95	0.08	1.06	0.51	1.27	72.08
Peridinium aciculiferum	0.00	0.84	1.05	0.80	1.27	73.35
Thalassiosira decipiens	0.00	0.84	1.01	0.77	1.22	74.57
Unknown pennate diatom sp.	0.00	0.81	1.00	0.68	1.21	75.77
Cyclotella sp.	0.00	0.83	0.96	0.49	1.15	76.93
Rhizosolenia setigera	0.77	0.16	0.95	0.65	1.15	78.08
Leptocylicus danicus	0.69	0.09	0.93	0.55	1.13	79.20
Nitzschia longissima	0.00	0.74	0.93	0.95	1.13	80.33
Navicula sp. large	0.73	0.00	0.88	0.59	1.06	81.39
Euglena sp.	0.00	0.69	0.84	0.44	1.01	82.41
Gymnodinium sp.	0.22	0.53	0.78	0.75	0.94	83.35
Scrippsiella sp.	0.00	0.59	0.77	0.65	0.93	84.27
Ceratulina bergonii	0.00	0.53	0.70	0.43	0.85	85.12
Unknown diatom sp. A	0.58	0.00	0.68	0.42	0.82	85.94
Merismopedia punctata	0.00	0.54	0.67	0.44	0.81	86.75
Prorocentrum sp.	0.58	0.00	0.67	0.41	0.81	87.55
Schizothrix sp.	0.00	0.49	0.59	0.42	0.71	88.26
Scenedesmus quadricauda	0.00	0.46	0.56	0.47	0.67	88.93
Navicula sp. small	0.46	0.00	0.53	0.36	0.64	89.57
Akistrodesmus falcatus	0.00	0.43	0.53	0.53	0.64	90.21

Groups 70%Grp4 & 70%Grp11

Average dissimilarity = 83.34

Species	Group 70%Grp4 Av.Abund	Group 70%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	11.48	1.74	13.77	13.77
Unknown diatom sp. D	8.36	0.00	8.62	3.36	10.34	24.11
Unknown Cryptophyte sp.	7.43	0.04	8.24	5.87	9.88	34.00
Unknown diatom sp.	4.70	0.00	5.11	7.55	6.14	40.13
Thalassiosira sp.	4.72	1.38	4.26	2.13	5.12	45.25
Nitzschia closterium	4.12	0.62	4.16	2.27	5.00	50.25

Pyramimonas sp.	3.83	0.33	3.98	2.77	4.77	55.02
Skeletonema costatum	5.96	5.90	2.96	1.09	3.56	58.58
Chaetoceros sp.	3.08	0.00	2.75	0.98	3.30	61.88
Gymnodinium sp.	2.63	0.53	2.46	1.21	2.95	64.83
Nitzschia pungens	2.29	0.12	2.07	1.03	2.49	67.32
Leptocylicus minimum	1.88	0.75	1.89	1.12	2.26	69.59
Prorocentrum minimum	0.00	1.59	1.73	0.93	2.08	71.66
Thalassiosira pseudonana	0.00	1.56	1.69	0.79	2.03	73.69
Eutryptia sp.	0.00	1.43	1.57	0.98	1.88	75.57
Peridinium sp.	1.50	0.31	1.40	1.14	1.68	77.25
Prorocentrum sp.	1.50	0.00	1.34	0.98	1.60	78.85
Rhizosolenia setigera	1.26	0.16	1.17	1.01	1.40	80.25
Leptocylicus danicus	1.26	0.09	1.14	0.99	1.36	81.62
Navicula sp. large	1.26	0.00	1.12	0.98	1.35	82.97
Schroederia setigera	0.00	0.82	0.93	0.86	1.12	84.08
Peridinium aciculiferum	0.00	0.84	0.92	0.80	1.11	85.19
Chaetoceros subtilis	0.00	0.83	0.92	0.70	1.10	86.30
Thalassiosira decipiens	0.00	0.84	0.89	0.76	1.07	87.37
Unknown pennate diatom sp.	0.00	0.81	0.88	0.68	1.06	88.43
Cyclotella sp.	0.00	0.83	0.85	0.48	1.02	89.44
Nitzschia longissima	0.00	0.74	0.82	0.95	0.98	90.43

Groups 70%Grp7 & 70%Grp11

Average dissimilarity = 76.80

Species	Group 70%Grp7 Av.Abund	Group 70%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	5.90	9.85	1.22	12.83	12.83
Cyclotella sp.	1.76	0.83	4.06	0.86	5.29	18.12
Thalassiosira pseudonana	1.05	1.56	3.76	0.96	4.90	23.01
Cyclotella sp. (small)	1.79	0.13	3.61	0.71	4.71	27.72
Unknown pennate diatom sp.	2.07	0.81	3.55	1.21	4.63	32.35
Prorocentrum minimum	0.16	1.59	3.04	0.99	3.96	36.31
Eutryptia sp.	0.88	1.43	2.78	1.10	3.62	39.93
Cyclotella sp. (large)	1.45	0.00	2.75	0.58	3.59	43.52
Thalassiosira sp.	0.10	1.38	2.75	0.67	3.58	47.10
Thalassiosira decipiens	0.91	0.84	2.63	0.83	3.43	50.53
Scenedesmus quadricauda	1.15	0.46	2.39	1.10	3.11	53.64
Schroederia setigera	1.04	0.82	2.16	1.11	2.81	56.45
Gymnodinium sp.	1.01	0.53	2.08	1.03	2.71	59.15
Chaetoceros subtilis	0.44	0.83	1.97	0.81	2.57	61.72
Scenedesmus bijinga	0.90	0.28	1.86	0.88	2.42	64.14

Nitzschia longissima	0.78	0.74	1.73	1.07	2.25	66.39
Peridinium aciculiferum	0.11	0.84	1.72	0.84	2.24	68.63
Akistrodesmus falcatus	0.64	0.43	1.60	0.81	2.08	70.71
Merismopedia punctata	0.29	0.54	1.46	0.57	1.91	72.61
Euglena sp.	0.09	0.69	1.39	0.48	1.81	74.43
Leptocylicus minimum	0.00	0.75	1.33	0.56	1.73	76.16
Scrippsiella sp.	0.08	0.59	1.32	0.66	1.71	77.87
Nitzschia closterium	0.08	0.62	1.22	0.89	1.59	79.46
Ceratulina bergonii	0.00	0.53	1.17	0.41	1.53	80.99
Crucigenia sp.	0.22	0.38	1.13	0.69	1.47	82.46
Bluegreen filamentous sp.	0.41	0.21	1.06	0.70	1.38	83.83
Schizothrix sp.	0.00	0.49	0.90	0.42	1.17	85.01
Cyclotella meneghiniana	0.40	0.10	0.82	0.32	1.07	86.08
Melosira sp.	0.36	0.00	0.74	0.48	0.96	87.03
Nostoc sp.(trichomes)	0.09	0.27	0.71	0.49	0.93	87.96
Chaetoceros neogracile	0.00	0.31	0.68	0.50	0.88	88.84
Scenedesmus acutus	0.34	0.00	0.63	0.40	0.82	89.67
Pyramimonas sp.	0.00	0.33	0.63	0.34	0.81	90.48

Groups 70%Grp9 & 70%Grp11

Average dissimilarity = 70.18

Species	Group 70%Grp9 Av.Abund	Group 70%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	4.02	5.90	7.00	1.09	9.97	9.97
Chaetoceros subtilis	1.53	0.83	3.59	0.92	5.11	15.09
Thalassiosira pseudonana	0.71	1.56	3.39	1.01	4.83	19.92
Thalassiosira sp.	0.61	1.38	3.29	0.81	4.68	24.60
Prorocentrum minimum	0.37	1.59	3.16	1.00	4.50	29.10
Eutreptia sp.	0.45	1.43	2.86	1.02	4.08	33.18
Peridinium aciculiferum	0.96	0.84	2.55	1.00	3.63	36.81
Leptocylicus minimum	0.86	0.75	2.34	0.91	3.33	40.14
Schizothrix sp.	0.87	0.49	2.27	0.64	3.23	43.37
Unknown pennate diatom sp.	0.79	0.81	2.27	0.98	3.23	46.61
Nitzschia closterium	1.16	0.62	2.17	1.04	3.10	49.70
Ceratulina bergonii	0.49	0.53	1.98	0.57	2.82	52.52
Schroederia setigera	0.27	0.82	1.94	0.92	2.77	55.29
Cyclotella sp.	0.31	0.83	1.89	0.63	2.69	57.98
Chaetoceros socialis	0.85	0.28	1.86	0.85	2.65	60.63
Nitzschia longissima	0.64	0.74	1.70	1.03	2.42	63.05
Thalassiosira decipiens	0.09	0.84	1.67	0.81	2.38	65.43
Euglena sp.	0.20	0.69	1.58	0.52	2.26	67.68

Scrippsiella sp.	0.24	0.59	1.48	0.71	2.10	69.79
Chaetoceros neogracile	0.50	0.31	1.35	0.73	1.92	71.71
Gymnodinium sp.	0.33	0.53	1.33	0.81	1.90	73.61
Thalassionema nitzschoides	0.40	0.20	1.11	0.58	1.58	75.19
Merismopedia punctata	0.00	0.54	1.10	0.45	1.57	76.75
Scenedesmus quadracauda	0.13	0.46	1.07	0.55	1.52	78.27
Rhizosolenia setigera	0.41	0.16	1.05	0.61	1.49	79.76
Peridinium sp.	0.26	0.31	0.94	0.62	1.34	81.10
Nitzschia pungens	0.38	0.12	0.89	0.55	1.27	82.37
Akistrodesmus falcatus	0.00	0.43	0.86	0.54	1.23	83.60
Cyclotella sp. (small)	0.25	0.13	0.80	0.34	1.14	84.74
Gonyaulax polygramma	0.24	0.15	0.77	0.51	1.10	85.83
Crucigenia sp.	0.00	0.38	0.76	0.47	1.08	86.92
Pyramimonas sp.	0.07	0.33	0.74	0.38	1.06	87.98
Prorocentrum micans	0.24	0.13	0.64	0.51	0.91	88.89
Nostoc sp.(trichomes)	0.03	0.27	0.61	0.44	0.86	89.76
Scenedesmus bijinga	0.00	0.28	0.52	0.43	0.74	90.49

Groups 70%Grp10 & 70%Grp11

Average dissimilarity = 68.56

Species	Group 70%Grp10 Av.Abund	Group 70%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	4.06	5.90	6.30	1.19	9.19	9.19
Chaetoceros subtilis	2.80	0.83	4.75	1.30	6.93	16.12
Thalassiosira pseudonana	1.15	1.56	3.58	1.03	5.23	21.35
Prorocentrum minimum	0.29	1.59	2.91	1.02	4.24	25.59
Cyclotella sp. (small)	1.40	0.13	2.87	0.69	4.18	29.77
Thalassiosira sp.	0.31	1.38	2.75	0.74	4.01	33.78
Eutreptia sp.	0.42	1.43	2.62	1.04	3.83	37.61
Peridinium aciculiiferum	1.07	0.84	2.60	0.94	3.79	41.40
Cyclotella sp.	0.79	0.83	2.42	0.74	3.52	44.92
Gymnodinium sp.	1.06	0.53	2.21	0.96	3.22	48.14
Unknown pennate diatom sp.	0.72	0.81	2.09	0.94	3.05	51.19
Schizothrix sp.	0.71	0.49	2.05	0.60	3.00	54.19
Schroederia setigera	1.25	0.82	2.05	1.19	2.99	57.18
Thalassiosira decipiens	0.59	0.84	1.86	1.00	2.71	59.89
Scenedesmus quadracauda	0.73	0.46	1.80	0.93	2.62	62.51
Euglena sp.	0.38	0.69	1.75	0.63	2.55	65.05
Nitzschia longissima	0.91	0.74	1.66	1.08	2.42	67.48
Leptocylindricus minimum	0.29	0.75	1.56	0.68	2.27	69.75
Nitzschia closterium	0.40	0.62	1.37	0.99	2.00	71.75

Merismopedia punctata	0.23	0.54	1.36	0.55	1.99	73.74
Scrippsiella sp.	0.18	0.59	1.35	0.72	1.97	75.71
Akistrodesmus falcatus	0.46	0.43	1.33	0.77	1.94	77.65
Ceratulina bergonii	0.14	0.53	1.29	0.50	1.88	79.52
Gonyaulax polygramma	0.53	0.15	1.19	0.72	1.73	81.25
Scenedesmus bijinga	0.43	0.28	1.14	0.63	1.67	82.92
Peridinium sp.	0.41	0.31	1.02	0.74	1.49	84.41
Nostoc sp.(trichomes)	0.21	0.27	0.87	0.59	1.26	85.67
Chaetoceros neogracile	0.17	0.31	0.85	0.61	1.24	86.91
Crucigenia sp.	0.10	0.38	0.81	0.53	1.19	88.10
Pyramimonas sp.	0.06	0.33	0.71	0.40	1.03	89.13
Bluegreen filamentous sp.	0.15	0.21	0.61	0.53	0.90	90.02

Groups 70%Grp3 & 70%Grp8

Average dissimilarity = 93.48

Species	Group 70%Grp3 Av.Abund	Group 70%Grp8 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	8.38	1.42	8.97	8.97
Skeletonema costatum	0.16	5.07	7.23	1.50	7.74	16.71
Unknown diatom sp.	3.09	0.00	5.33	1.96	5.70	22.40
Unknown diatom sp. D	2.34	0.00	3.94	1.41	4.22	26.62
Prorocentrum micans	1.61	0.97	3.55	0.71	3.79	30.42
Schizothrix sp.	0.00	2.14	3.24	0.68	3.46	33.88
Unknown Dinoflagellate sp.	1.73	0.00	3.07	0.91	3.28	37.16
Thalassiosira sp.	2.01	0.93	3.01	1.33	3.22	40.39
Thalassionema nitzschoides	0.35	1.63	2.74	0.73	2.93	43.31
Scenedesmus sp.	1.47	0.00	2.39	1.06	2.56	45.87
Ceratulina bergonii	0.00	1.39	2.32	0.80	2.48	48.36
Leptocylindricus minimum	0.61	1.63	2.27	1.14	2.43	50.78
Navicula sp. small	1.23	0.00	2.18	0.80	2.34	53.12
Nitzschia pungens	0.80	1.11	2.07	0.99	2.21	55.33
Nitzschia closterium	0.20	1.37	2.00	0.84	2.14	57.47
Chaetoceros socialis	0.00	1.47	1.94	0.81	2.07	59.55
Chaetoceros neogracile	0.00	1.24	1.83	0.88	1.95	61.50
Unknown pennate diatom sp.	0.00	1.09	1.75	0.87	1.87	63.37
Coscinodiscus sp.	0.83	0.10	1.55	0.59	1.65	65.03
Unknown bluegreen sp.	0.83	0.00	1.46	0.83	1.56	66.59
Rhizosolenia setigera	0.00	0.93	1.43	0.80	1.53	68.12
Pyramimonas sp.	0.84	0.06	1.38	0.80	1.47	69.59
Tetraedron sp.	0.82	0.00	1.26	0.71	1.35	70.94
Navicula sp. large	0.66	0.00	1.24	0.60	1.33	72.27

Akistrodesmus sp.	0.76	0.00	1.17	0.55	1.25	73.52
Chaetoceros compressum	0.00	0.87	1.12	0.67	1.19	74.71
Asterionella glacialis	0.00	0.87	1.11	0.67	1.18	75.90
Chaetoceros sp.	0.13	0.56	1.11	0.38	1.18	77.08
Ceratium hircus	0.00	0.73	1.08	0.85	1.16	78.24
Prorocentrum minimum	0.16	0.72	1.08	0.93	1.16	79.40
Thalassiosira decipiens	0.00	0.64	1.02	0.62	1.10	80.49
Leptocylindricus danicus	0.27	0.46	0.98	0.63	1.05	81.54
Eutreptia sp.	0.37	0.14	0.87	0.42	0.93	82.47
Melosira sp.	0.20	0.26	0.85	0.41	0.91	83.38
Nitzschia longissima	0.00	0.64	0.84	0.87	0.90	84.28
Prorocentrum sp.	0.45	0.00	0.78	0.37	0.83	85.12
Nitzschia sp.	0.38	0.05	0.75	0.40	0.80	85.92
Peridinium sp.	0.00	0.41	0.74	0.55	0.79	86.71
Chaetoceros subtilis	0.00	0.59	0.68	0.54	0.73	87.44
Prorocentrum redfieldi	0.40	0.00	0.63	0.35	0.68	88.12
Amphora sp.	0.00	0.41	0.59	0.44	0.63	88.75
Eutreptiella sp.	0.35	0.00	0.56	0.38	0.60	89.34
Pleurosigma sp.	0.09	0.27	0.52	0.54	0.55	89.90
Aphanocapsa sp.	0.36	0.00	0.51	0.38	0.55	90.45

Groups 70%Grp6 & 70%Grp8

Average dissimilarity = 89.88

Species	Group 70%Grp6 Av.Abund	Group 70%Grp8 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	8.73	1.45	9.71	9.71
Unknown Cryptophyte sp.	6.29	0.00	8.47	1.98	9.43	19.14
Skeletonema costatum	3.34	5.07	5.78	1.23	6.43	25.57
Unknown diatom sp.	3.30	0.00	4.24	1.51	4.71	30.29
Thalassiosira sp.	3.51	0.93	4.12	0.97	4.59	34.87
Unknown Dinoflagellate sp.	3.01	0.00	4.10	1.16	4.56	39.43
Prorocentrum minimum	1.60	0.72	2.75	0.43	3.06	42.50
Schizothrix sp.	0.11	2.14	2.66	0.68	2.96	45.46
Peridinium sp.	1.80	0.41	2.33	0.87	2.60	48.06
Thalassionema nitzschoides	0.14	1.63	2.22	0.73	2.47	50.53
Nitzschia closterium	0.92	1.37	2.00	0.97	2.23	52.75
Pyramimonas sp.	1.63	0.06	1.97	0.91	2.20	54.95
Leptocylindricus minimum	0.72	1.63	1.96	1.12	2.18	57.13
Chaetoceros sp.	1.28	0.56	1.91	0.67	2.12	59.26
Ceratulina bergonii	0.00	1.39	1.83	0.83	2.04	61.30
Nitzschia pungens	0.82	1.11	1.76	0.86	1.96	63.26

Eutreptia sp.	1.21	0.14	1.74	0.52	1.94	65.20
Skeletonema menezelli	1.46	0.00	1.63	0.33	1.81	67.01
Chaetoceros socialis	0.00	1.47	1.61	0.80	1.79	68.80
Prorocentrum micans	0.34	0.97	1.54	0.79	1.72	70.51
Chaetoceros neogracile	0.00	1.24	1.48	0.87	1.65	72.16
Unknown pennate diatom sp.	0.00	1.09	1.39	0.86	1.55	73.71
Rhizosolenia setigera	0.51	0.93	1.36	0.92	1.52	75.23
Ceratium hircus	0.36	0.73	1.16	0.83	1.29	76.51
Leptocylicus danicus	0.65	0.46	1.09	0.56	1.21	77.73
Prorocentrum sp.	0.77	0.00	0.98	0.33	1.09	78.82
Eutreptiella sp.	0.69	0.00	0.97	0.34	1.07	79.89
Chaetoceros compressum	0.00	0.87	0.93	0.66	1.03	80.92
Asterionella glacialis	0.00	0.87	0.92	0.66	1.03	81.95
Thalassiosira decipiens	0.00	0.64	0.81	0.64	0.90	82.85
Unknown Katodinium sp.	0.54	0.00	0.81	0.28	0.90	83.75
Scenedesmus sp.	0.60	0.00	0.74	0.43	0.82	84.57
Amphora sp.	0.20	0.41	0.72	0.48	0.80	85.37
Chaetoceros subtilis	0.16	0.59	0.72	0.50	0.80	86.17
Nitzschia longissima	0.00	0.64	0.70	0.86	0.78	86.95
Chaetoceros gracile	0.51	0.05	0.63	0.30	0.70	87.65
Glenodinium sp.	0.50	0.00	0.62	0.29	0.68	88.33
Navicula sp. large	0.47	0.00	0.60	0.43	0.67	89.00
Unknown diatom sp. A	0.52	0.00	0.59	0.33	0.65	89.65
Coscinodiscus sp.	0.28	0.10	0.55	0.38	0.62	90.27

Groups 70%Grp5 & 70%Grp8

Average dissimilarity = 82.03

Species	Group 70%Grp5 Av.Abund	Group 70%Grp8 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.13	0.00	7.32	1.79	8.92	8.92
Unknown Cryptophyte sp.	5.10	0.00	6.66	2.06	8.11	17.03
Skeletonema costatum	7.46	5.07	6.60	1.21	8.05	25.08
Unknown diatom sp.	3.67	0.00	4.42	1.98	5.39	30.47
Thalassiosira sp.	4.15	0.93	4.08	1.69	4.97	35.44
Nitzschia closterium	3.83	1.37	3.75	1.51	4.57	40.01
Nitzschia pungens	2.56	1.11	2.92	1.19	3.56	43.57
Chaetoceros sp.	2.39	0.56	2.83	1.07	3.45	47.03
Unknown Dinoflagellate sp.	2.35	0.00	2.75	1.24	3.36	50.38
Schizothrix sp.	0.00	2.14	2.45	0.67	2.99	53.37
Thalassionema nitzschoides	0.96	1.63	2.27	0.84	2.77	56.14
Leptocylicus minimum	1.46	1.63	2.21	1.14	2.69	58.83

Skeletonema menezelli	2.03	0.00	2.06	0.40	2.51	61.35
Pyramimonas sp.	1.39	0.06	1.78	0.77	2.17	63.52
Ceratulina bergonii	0.00	1.39	1.71	0.85	2.08	65.60
Ceratium hircus	0.95	0.73	1.53	0.84	1.87	67.46
Chaetoceros socialis	0.00	1.47	1.52	0.80	1.85	69.31
Rhizosolenia setigera	0.77	0.93	1.42	0.97	1.73	71.04
Peridinium sp.	1.06	0.41	1.41	0.76	1.72	72.77
Chaetoceros neogracile	0.00	1.24	1.39	0.87	1.70	74.46
Unknown pennate diatom sp.	0.00	1.09	1.30	0.87	1.58	76.04
Prorocentrum micans	0.32	0.97	1.25	1.04	1.52	77.57
Leptocylicus danicus	0.69	0.46	1.12	0.70	1.36	78.93
Prorocentrum minimum	0.16	0.72	0.92	0.75	1.12	80.05
Chaetoceros compressum	0.00	0.87	0.88	0.66	1.07	81.11
Asterionella glacialis	0.00	0.87	0.87	0.66	1.06	82.18
Navicula sp. large	0.73	0.00	0.86	0.58	1.05	83.23
Chaetoceros subtilis	0.27	0.59	0.79	0.50	0.96	84.19
Thalassiosira decipiens	0.00	0.64	0.76	0.65	0.92	85.11
Unknown diatom sp. A	0.58	0.00	0.66	0.41	0.81	85.92
Nitzschia longissima	0.00	0.64	0.66	0.86	0.80	86.72
Prorocentrum sp.	0.58	0.00	0.65	0.40	0.79	87.51
Amphora sp.	0.08	0.41	0.54	0.49	0.66	88.17
Navicula sp. small	0.46	0.00	0.51	0.35	0.63	88.80
Chaetoceros gracile	0.36	0.05	0.48	0.22	0.58	89.38
Gymnodinium sp.	0.22	0.25	0.46	0.54	0.55	89.93
Melosira sp.	0.00	0.26	0.43	0.33	0.52	90.46

Groups 70%Grp4 & 70%Grp8

Average dissimilarity = 83.81

Species	Group 70%Grp4 Av.Abund	Group 70%Grp8 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	11.14	1.64	13.30	13.30
Unknown diatom sp. D	8.36	0.00	8.38	3.02	10.00	23.30
Unknown Cryptophyte sp.	7.43	0.00	8.05	4.38	9.60	32.90
Unknown diatom sp.	4.70	0.00	4.97	4.95	5.93	38.83
Thalassiosira sp.	4.72	0.93	4.28	2.01	5.11	43.94
Pyramimonas sp.	3.83	0.06	4.16	3.48	4.96	48.90
Skeletonema costatum	5.96	5.07	3.78	1.35	4.51	53.41
Nitzschia closterium	4.12	1.37	3.60	1.50	4.29	57.70
Chaetoceros sp.	3.08	0.56	2.82	1.02	3.36	61.06
Gymnodinium sp.	2.63	0.25	2.33	1.06	2.78	63.85
Nitzschia pungens	2.29	1.11	2.21	1.17	2.64	66.48

Schizothrix sp.	0.00	2.14	2.17	0.66	2.59	69.07
Leptocylicus minimum	1.88	1.63	2.01	1.33	2.39	71.47
Thalassionema nitzschoides	0.00	1.63	1.78	0.74	2.12	73.59
Ceratulina bergonii	0.00	1.39	1.49	0.88	1.78	75.37
Peridinium sp.	1.50	0.41	1.41	1.17	1.68	77.05
Chaetoceros socialis	0.00	1.47	1.36	0.79	1.62	78.68
Rhizosolenia setigera	1.26	0.93	1.31	1.12	1.56	80.24
Prorocentrum sp.	1.50	0.00	1.30	0.97	1.55	81.79
Chaetoceros neogracile	0.00	1.24	1.24	0.87	1.47	83.26
Leptocylicus danicus	1.26	0.46	1.17	1.11	1.40	84.66
Unknown pennate diatom sp.	0.00	1.09	1.14	0.87	1.36	86.02
Navicula sp. large	1.26	0.00	1.09	0.97	1.31	87.33
Prorocentrum micans	0.00	0.97	1.02	0.97	1.21	88.54
Chaetoceros compressum	0.00	0.87	0.79	0.66	0.94	89.48
Asterionella glacialis	0.00	0.87	0.79	0.65	0.94	90.42

Groups 70%Grp7 & 70%Grp8

Average dissimilarity = 86.73

Species	Group 70%Grp7 Av.Abund	Group 70%Grp8 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	5.07	8.12	1.31	9.36	9.36
Schizothrix sp.	0.00	2.14	3.73	0.68	4.30	13.66
Cyclotella sp.	1.76	0.00	3.47	0.68	4.00	17.67
Cyclotella sp. (small)	1.79	0.00	3.46	0.66	3.99	21.66
Thalassionema nitzschoides	0.00	1.63	3.35	0.68	3.87	25.52
Unknown pennate diatom sp.	2.07	1.09	3.28	1.11	3.78	29.30
Ceratulina bergonii	0.00	1.39	2.75	0.73	3.17	32.48
Cyclotella sp. (large)	1.45	0.00	2.69	0.56	3.10	35.58
Leptocylicus minimum	0.00	1.63	2.49	1.10	2.87	38.44
Thalassiosira decipiens	0.91	0.64	2.38	0.70	2.75	41.19
Nitzschia closterium	0.08	1.37	2.21	0.83	2.55	43.74
Thalassiosira pseudonana	1.05	0.37	2.20	0.62	2.53	46.27
Scenedesmus quadricauda	1.15	0.06	2.18	0.98	2.52	48.79
Chaetoceros socialis	0.00	1.47	2.17	0.80	2.51	51.29
Chaetoceros neogracile	0.00	1.24	2.10	0.85	2.42	53.71
Gymnodinium sp.	1.01	0.25	1.99	0.91	2.30	56.01
Schroederia setigera	1.04	0.09	1.95	0.97	2.24	58.26
Eutreptia sp.	0.88	0.14	1.87	0.88	2.15	60.41
Prorocentrum micans	0.00	0.97	1.79	0.95	2.07	62.47
Scenedesmus bijinga	0.90	0.06	1.74	0.79	2.01	64.48
Nitzschia pungens	0.00	1.11	1.70	0.70	1.96	66.44

Rhizosolenia setigera	0.00	0.93	1.68	0.75	1.94	68.38
Thalassiosira sp.	0.10	0.93	1.67	0.66	1.92	70.30
Nitzschia longissima	0.78	0.64	1.58	0.98	1.82	72.12
Melosira sp.	0.36	0.26	1.33	0.49	1.53	73.65
Chaetoceros subtilis	0.44	0.59	1.33	0.70	1.53	75.18
Akistrodesmus falcatus	0.64	0.05	1.27	0.65	1.47	76.65
Chaetoceros compressum	0.00	0.87	1.25	0.66	1.44	78.09
Ceratium hircus	0.00	0.73	1.24	0.83	1.43	79.53
Asterionella glacialis	0.00	0.87	1.24	0.66	1.43	80.95
Prorocentrum minimum	0.16	0.72	1.19	0.92	1.38	82.33
Chaetoceros sp.	0.00	0.56	1.18	0.32	1.36	83.69
Bluegreen filamentous sp.	0.41	0.06	0.92	0.59	1.06	84.75
Peridinium sp.	0.00	0.41	0.89	0.52	1.02	85.77
Pleurosigma sp.	0.24	0.27	0.87	0.62	1.01	86.78
Merismopedia punctata	0.29	0.09	0.77	0.41	0.89	87.67
Leptocylindricus danicus	0.00	0.46	0.69	0.58	0.80	88.47
Amphora sp.	0.00	0.41	0.67	0.43	0.77	89.24
Cyclotella meneghiniana	0.40	0.00	0.65	0.27	0.75	89.99
Scenedesmus acutus	0.34	0.00	0.62	0.38	0.71	90.71

Groups 70%Grp9 & 70%Grp8

Average dissimilarity = 74.15

Species	Group 70%Grp9 Av.Abund	Group 70%Grp8 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	4.02	5.07	6.83	1.21	9.21	9.21
Schizothrix sp.	0.87	2.14	4.58	0.82	6.18	15.38
Chaetoceros subtilis	1.53	0.59	3.64	0.79	4.91	20.30
Thalassionema nitzschoides	0.40	1.63	3.45	0.70	4.65	24.95
Ceratulina bergonii	0.49	1.39	3.05	0.74	4.11	29.06
Nitzschia closterium	1.16	1.37	2.99	1.13	4.03	33.09
Chaetoceros socialis	0.85	1.47	2.83	1.06	3.81	36.91
Leptocylindricus minimum	0.86	1.63	2.77	1.10	3.73	40.64
Unknown pennate diatom sp.	0.79	1.09	2.41	0.94	3.25	43.89
Chaetoceros neogracile	0.50	1.24	2.34	0.91	3.15	47.05
Thalassiosira sp.	0.61	0.93	2.29	0.77	3.09	50.14
Peridinium aciculiferum	0.96	0.06	2.27	0.73	3.06	53.19
Nitzschia pungens	0.38	1.11	2.06	0.82	2.78	55.98
Rhizosolenia setigera	0.41	0.93	1.95	0.85	2.63	58.61
Prorocentrum micans	0.24	0.97	1.91	0.98	2.58	61.19
Thalassiosira pseudonana	0.71	0.37	1.63	0.77	2.20	63.40
Nitzschia longissima	0.64	0.64	1.52	0.94	2.04	65.44

Chaetoceros compressum	0.15	0.87	1.48	0.71	2.00	67.44
Asterionella glacialis	0.17	0.87	1.45	0.71	1.96	69.39
Ceratium hircus	0.18	0.73	1.43	0.86	1.93	71.32
Chaetoceros sp.	0.11	0.56	1.39	0.37	1.88	73.20
Thalassiosira decipiens	0.09	0.64	1.36	0.60	1.83	75.02
Prorocentrum minimum	0.37	0.72	1.35	0.97	1.82	76.84
Peridinium sp.	0.26	0.41	1.23	0.62	1.66	78.51
Eutreptia sp.	0.45	0.14	1.07	0.61	1.44	79.95
Gonyaulax polygramma	0.24	0.22	0.95	0.50	1.28	81.23
Gymnodinium sp.	0.33	0.25	0.93	0.61	1.26	82.49
Leptocylindricus danicus	0.16	0.46	0.90	0.65	1.21	83.70
Melosira sp.	0.00	0.26	0.88	0.31	1.19	84.89
Amphora sp.	0.13	0.41	0.85	0.51	1.15	86.04
Scrippsiella sp.	0.24	0.24	0.73	0.59	0.99	87.03
Schroederia setigera	0.27	0.09	0.71	0.45	0.96	87.99
Gonyaulax monilata	0.17	0.19	0.69	0.45	0.94	88.93
Chaetoceros curvisetus	0.06	0.43	0.62	0.36	0.83	89.76
Cyclotella sp.	0.31	0.00	0.60	0.40	0.81	90.57

Groups 70%Grp10 & 70%Grp8

Average dissimilarity = 79.79

Species	Group 70%Grp10 Av.Abund	Group 70%Grp8 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	4.06	5.07	6.23	1.37	7.80	7.80
Chaetoceros subtilis	2.80	0.59	5.12	1.23	6.41	14.22
Schizothrix sp.	0.71	2.14	4.22	0.82	5.28	19.50
Thalassionema nitzschoides	0.09	1.63	3.15	0.71	3.94	23.44
Cyclotella sp. (small)	1.40	0.00	2.72	0.64	3.41	26.85
Ceratulina bergonii	0.14	1.39	2.57	0.78	3.22	30.06
Leptocylindricus minimum	0.29	1.63	2.44	1.13	3.06	33.13
Thalassiosira pseudonana	1.15	0.37	2.43	0.72	3.04	36.17
Schroederia setigera	1.25	0.09	2.34	1.24	2.93	39.10
Nitzschia closterium	0.40	1.37	2.27	0.92	2.85	41.95
Unknown pennate diatom sp.	0.72	1.09	2.23	1.01	2.79	44.74
Peridinium aciculiferum	1.07	0.06	2.21	0.68	2.77	47.51
Chaetoceros socialis	0.00	1.47	2.12	0.82	2.65	50.16
Chaetoceros neogracile	0.17	1.24	2.06	0.90	2.58	52.74
Gymnodinium sp.	1.06	0.25	2.05	0.83	2.57	55.31
Nitzschia pungens	0.21	1.11	1.82	0.81	2.28	57.59
Thalassiosira sp.	0.31	0.93	1.76	0.76	2.20	59.79
Prorocentrum micans	0.00	0.97	1.72	0.99	2.15	61.94

Nitzschia longissima	0.91	0.64	1.71	0.99	2.14	64.08
Rhizosolenia setigera	0.06	0.93	1.62	0.82	2.03	66.11
Thalassiosira decipiens	0.59	0.64	1.61	0.83	2.02	68.13
Cyclotella sp.	0.79	0.00	1.46	0.51	1.83	69.96
Scenedesmus quadrauda	0.73	0.06	1.44	0.77	1.81	71.77
Gonyaulax polygramma	0.53	0.22	1.29	0.70	1.62	73.39
Peridinium sp.	0.41	0.41	1.22	0.73	1.53	74.92
Prorocentrum minimum	0.29	0.72	1.22	0.99	1.53	76.45
Chaetoceros compressum	0.00	0.87	1.22	0.67	1.53	77.98
Asterionella glacialis	0.00	0.87	1.21	0.67	1.51	79.49
Ceratium hircus	0.00	0.73	1.20	0.85	1.50	80.99
Chaetoceros sp.	0.00	0.56	1.12	0.34	1.40	82.39
Eutreptia sp.	0.42	0.14	0.99	0.60	1.24	83.63
Melosira sp.	0.15	0.26	0.93	0.40	1.17	84.80
Scenedesmus bijinga	0.43	0.06	0.92	0.51	1.15	85.94
Leptocylindricus danicus	0.20	0.46	0.91	0.64	1.14	87.08
Akistrodesmus falcatus	0.46	0.05	0.90	0.57	1.12	88.21
Euglena sp.	0.38	0.00	0.77	0.47	0.96	89.17
Pleurosigma sp.	0.16	0.27	0.74	0.51	0.93	90.09

Groups 70%Grp11 & 70%Grp8

Average dissimilarity = 76.92

Species	Group 70%Grp11 Av.Abund	Group 70%Grp8 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.90	5.07	7.94	1.06	10.32	10.32
Schizothrix sp.	0.49	2.14	3.74	0.76	4.86	15.18
Thalassionema nitzschoides	0.20	1.63	3.00	0.70	3.90	19.09
Thalassiosira sp.	1.38	0.93	2.99	0.82	3.88	22.97
Thalassiosira pseudonana	1.56	0.37	2.77	0.83	3.60	26.57
Ceratulina bergonii	0.53	1.39	2.73	0.78	3.55	30.12
Prorocentrum minimum	1.59	0.72	2.65	0.95	3.45	33.56
Leptocylindricus minimum	0.75	1.63	2.59	1.11	3.37	36.93
Eutreptia sp.	1.43	0.14	2.50	0.92	3.24	40.18
Unknown pennate diatom sp.	0.81	1.09	2.24	0.96	2.91	43.08
Nitzschia closterium	0.62	1.37	2.21	0.99	2.87	45.96
Chaetoceros socialis	0.28	1.47	2.17	0.86	2.83	48.79
Chaetoceros neogracile	0.31	1.24	1.98	0.90	2.58	51.36
Chaetoceros subtilis	0.83	0.59	1.78	0.79	2.31	53.67
Thalassiosira decipiens	0.84	0.64	1.77	0.84	2.30	55.97
Nitzschia pungens	0.12	1.11	1.66	0.74	2.15	58.13
Prorocentrum micans	0.13	0.97	1.63	0.97	2.12	60.24

Rhizosolenia setigera	0.16	0.93	1.62	0.80	2.10	62.35
Schroederia setigera	0.82	0.09	1.56	0.80	2.03	64.38
Peridinium aciculiferum	0.84	0.06	1.52	0.78	1.97	66.35
Nitzschia longissima	0.74	0.64	1.40	0.96	1.82	68.17
Cyclotella sp.	0.83	0.00	1.30	0.48	1.69	69.86
Scrippsiella sp.	0.59	0.24	1.25	0.67	1.63	71.48
Ceratium hircus	0.08	0.73	1.18	0.85	1.54	73.02
Chaetoceros compressum	0.00	0.87	1.17	0.66	1.52	74.54
Euglena sp.	0.69	0.00	1.16	0.43	1.51	76.05
Asterionella glacialis	0.00	0.87	1.16	0.66	1.51	77.56
Chaetoceros sp.	0.00	0.56	1.07	0.33	1.39	78.95
Merismopedia punctata	0.54	0.09	1.07	0.47	1.39	80.33
Gymnodinium sp.	0.53	0.25	1.01	0.79	1.32	81.65
Peridinium sp.	0.31	0.41	1.01	0.67	1.31	82.97
Scenedesmus quadricauda	0.46	0.06	0.85	0.50	1.10	84.07
Akistrodesmus falcatus	0.43	0.05	0.79	0.55	1.03	85.10
Amphora sp.	0.13	0.41	0.75	0.52	0.98	86.08
Melosira sp.	0.00	0.26	0.73	0.31	0.94	87.02
Leptocylindricus danicus	0.09	0.46	0.72	0.62	0.93	87.95
Nostoc sp.(trichomes)	0.27	0.17	0.68	0.52	0.88	88.83
Crucigenia sp.	0.38	0.00	0.65	0.45	0.85	89.68
Gonyaulax polygramma	0.15	0.22	0.65	0.46	0.85	90.53

Groups 70%Grp3 & 70%Grp1

Average dissimilarity = 99.17

Species	Group 70%Grp3 Av.Abund	Group 70%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	8.61	1.60	8.68	8.68
Synechocystis aquaticus Sauvageau	0.00	3.49	6.61	1.63	6.67	15.35
Cryptomonas sp.1	0.00	3.26	5.92	3.21	5.97	21.31
Unknown diatom sp.	3.09	0.00	5.47	2.44	5.51	26.83
Unknown diatom sp. D	2.34	0.00	4.05	1.58	4.09	30.91
Scenedesmus quadricauda v. Westii	0.00	2.19	3.89	1.35	3.92	34.84
Thalassiosira sp.	2.01	0.00	3.54	1.93	3.57	38.41
Spermatozoopsis exultans	0.00	1.79	3.22	1.30	3.25	41.66
Gonyaulax palustre	0.00	1.82	3.22	1.53	3.25	44.90
Unknown Dinoflagellate sp.	1.73	0.00	3.14	0.99	3.17	48.07
Prorocentrum micans	1.61	0.00	3.07	0.56	3.10	51.17
Cryptomonas erosa	0.00	1.46	2.50	1.18	2.52	53.69
Scenedesmus sp.	1.47	0.00	2.46	1.14	2.48	56.18
Navicula sp. small	1.23	0.00	2.24	0.85	2.26	58.43

Skeletonema costatum	0.16	1.15	2.17	0.77	2.19	60.62
Chlymentomonas sp.	0.00	1.14	1.96	0.96	1.98	62.60
Cryptomonas ovata	0.00	1.01	1.83	0.87	1.85	64.44
Eutreptiella sp.	0.35	0.80	1.60	0.93	1.62	66.06
Coelosphaerium sp.	0.00	0.90	1.53	0.59	1.55	67.61
Coscinodiscus sp.	0.83	0.00	1.50	0.58	1.51	69.12
Unknown bluegreen sp.	0.83	0.00	1.49	0.89	1.51	70.62
Pyramimonas sp.	0.84	0.00	1.41	0.84	1.42	72.04
Nitzschia pungens	0.80	0.12	1.41	0.83	1.42	73.46
Tetraedron sp.	0.82	0.05	1.32	0.76	1.33	74.79
Navicula sp. large	0.66	0.00	1.27	0.64	1.28	76.07
Akistrodesmus sp.	0.76	0.00	1.21	0.57	1.22	77.29
Cyclotella sp.	0.00	0.73	1.17	0.66	1.18	78.47
Nitzschia palea	0.00	0.70	1.17	0.83	1.18	79.65
Leptocylicus minimum	0.61	0.00	1.07	0.66	1.08	80.73
Unknown flagellate sp. 1	0.00	0.56	0.99	0.60	1.00	81.73
Chroococcus minutus	0.00	0.56	0.87	0.43	0.88	82.62
Nitzschia sp.	0.38	0.10	0.84	0.46	0.85	83.47
Prorocentrum sp.	0.45	0.00	0.80	0.38	0.81	84.27
Eutreptia sp.	0.37	0.00	0.68	0.35	0.69	84.96
Cyclotella undulata	0.00	0.37	0.67	0.29	0.68	85.64
Prorocentrum redfieldi	0.40	0.00	0.65	0.36	0.66	86.29
Aphanocapsa sp.	0.36	0.08	0.63	0.44	0.63	86.92
Euglena acus	0.00	0.35	0.58	0.34	0.58	87.51
Thalassionema nitzschoides	0.35	0.00	0.58	0.49	0.58	88.09
Leptocylicus danicus	0.27	0.00	0.55	0.39	0.56	88.65
Scenedesmus abundans v. brevicauda	0.00	0.35	0.54	0.37	0.54	89.19
Merismopedia sp.	0.18	0.20	0.50	0.40	0.50	89.69
Merismopedia glauca	0.00	0.32	0.50	0.36	0.50	90.19

Groups 70%Grp6 & 70%Grp1

Average dissimilarity = 97.95

Species	Group 70%Grp6 Av.Abund	Group 70%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	9.01	1.57	9.20	9.20
Unknown Cryptophyte sp.	6.29	0.00	8.74	2.28	8.92	18.13
Synechocystis aquaticus Sauvageau	0.00	3.49	5.15	1.56	5.26	23.39
Thalassiosira sp.	3.51	0.00	4.67	1.07	4.76	28.15
Cryptomonas sp.1	0.00	3.26	4.65	2.82	4.74	32.89
Skeletonema costatum	3.34	1.15	4.42	0.97	4.51	37.41
Unknown diatom sp.	3.30	0.00	4.38	1.63	4.47	41.88

Unknown Dinoflagellate sp.	3.01	0.00	4.23	1.24	4.32	46.20
Scenedesmus quadricauda v. Westii	0.00	2.19	3.07	1.32	3.13	49.33
Gonyaulax palustre	0.00	1.82	2.54	1.47	2.60	51.92
Spermatozoopsis exultans	0.00	1.79	2.53	1.27	2.59	54.51
Prorocentrum minimum	1.60	0.00	2.34	0.35	2.39	56.90
Peridinium sp.	1.80	0.00	2.24	0.75	2.29	59.19
Pyramimonas sp.	1.63	0.00	2.03	0.92	2.08	61.27
Cryptomonas erosa	0.00	1.46	1.99	1.14	2.03	63.29
Eutreptiella sp.	0.69	0.80	1.72	0.66	1.76	65.05
Skeletonema menezelli	1.46	0.00	1.69	0.34	1.72	66.78
Eutreptia sp.	1.21	0.00	1.68	0.49	1.72	68.50
Chlymentomonas sp.	0.00	1.14	1.56	0.95	1.59	70.09
Chaetoceros sp.	1.28	0.00	1.50	0.60	1.53	71.62
Cryptomonas ovata	0.00	1.01	1.44	0.86	1.47	73.09
Nitzschia closterium	0.92	0.00	1.22	0.66	1.25	74.34
Coelosphaerium sp.	0.00	0.90	1.22	0.58	1.25	75.58
Nitzschia pungens	0.82	0.12	1.13	0.60	1.16	76.74
Prorocentrum sp.	0.77	0.00	1.01	0.34	1.03	77.77
Cyclotella sp.	0.00	0.73	0.94	0.65	0.96	78.73
Nitzschia palea	0.00	0.70	0.93	0.82	0.95	79.68
Unknown Katodinium sp.	0.54	0.07	0.89	0.31	0.91	80.59
Leptocylindricus minimum	0.72	0.00	0.83	0.54	0.85	81.44
Unknown flagellate sp. 1	0.00	0.56	0.78	0.59	0.80	82.24
Scenedesmus sp.	0.60	0.00	0.76	0.44	0.78	83.01
Leptocylindricus danicus	0.65	0.00	0.71	0.35	0.73	83.74
Chroococcus minutus	0.00	0.56	0.71	0.43	0.72	84.46
Glenodinium sp.	0.50	0.00	0.64	0.30	0.65	85.11
Navicula sp. large	0.47	0.00	0.62	0.44	0.63	85.74
Chaetoceros gracile	0.51	0.00	0.61	0.29	0.63	86.37
Unknown diatom sp. A	0.52	0.00	0.61	0.33	0.62	86.99
Rhizosolenia setigera	0.51	0.00	0.58	0.48	0.59	87.58
Cyclotella undulata	0.00	0.37	0.53	0.29	0.54	88.12
Aphanocapsa sp.	0.36	0.08	0.49	0.39	0.50	88.62
Prorocentrum redfieldi	0.41	0.00	0.48	0.19	0.49	89.12
Prorocentrum micans	0.34	0.00	0.48	0.24	0.49	89.61
Ceratium hircus	0.36	0.00	0.47	0.34	0.48	90.08

Groups 70%Grp5 & 70%Grp1

Average dissimilarity = 97.16

Species	Group 70%Grp5 Av.Abund	Group 70%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
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Skeletonema costatum	7.46	1.15	8.56	1.68	8.81	8.81
Unknown diatom sp. D	6.13	0.00	7.56	1.95	7.78	16.59
Unknown Cryptophyte sp.	5.10	0.00	6.87	2.42	7.07	23.66
Thalassiosira sp.	4.15	0.00	4.98	2.57	5.12	28.79
Synechocystis aquaticus Sauvageau	0.00	3.49	4.78	1.57	4.92	33.70
Nitzschia closterium	3.83	0.00	4.76	2.42	4.90	38.60
Unknown diatom sp.	3.67	0.00	4.57	2.19	4.71	43.31
Cryptomonas sp.1	0.00	3.26	4.31	2.85	4.44	47.75
Nitzschia pungens	2.56	0.12	3.17	1.25	3.26	51.01
Scenedesmus quadricauda v. Westii	0.00	2.19	2.85	1.32	2.94	53.95
Unknown Dinoflagellate sp.	2.35	0.00	2.84	1.30	2.93	56.88
Chaetoceros sp.	2.39	0.00	2.84	1.11	2.93	59.80
Gonyaulax palustre	0.00	1.82	2.37	1.48	2.44	62.24
Spermatozoopsis exultans	0.00	1.79	2.35	1.28	2.42	64.66
Skeletonema menezelli	2.03	0.00	2.13	0.40	2.20	66.86
Cryptomonas erosa	0.00	1.46	1.85	1.14	1.91	68.76
Pyramimonas sp.	1.39	0.00	1.83	0.80	1.88	70.64
Leptocyndricus minimum	1.46	0.00	1.67	0.75	1.72	72.36
Chlymentomonas sp.	0.00	1.14	1.45	0.95	1.49	73.86
Cryptomonas ovata	0.00	1.01	1.34	0.86	1.38	75.23
Peridinium sp.	1.06	0.00	1.17	0.57	1.21	76.44
Coelosphaerium sp.	0.00	0.90	1.14	0.58	1.17	77.61
Eutreptiella sp.	0.12	0.80	1.08	0.86	1.11	78.72
Thalassionema nitzschoides	0.96	0.00	1.02	0.60	1.05	79.78
Ceratium hircus	0.95	0.00	1.01	0.48	1.04	80.82
Leptocyndricus danicus	0.69	0.00	0.89	0.53	0.92	81.74
Navicula sp. large	0.73	0.00	0.89	0.60	0.91	82.65
Cyclotella sp.	0.00	0.73	0.88	0.65	0.91	83.55
Nitzschia palea	0.00	0.70	0.87	0.82	0.89	84.45
Rhizosolenia setigera	0.77	0.00	0.86	0.59	0.88	85.33
Unknown flagellate sp. 1	0.00	0.56	0.73	0.59	0.75	86.08
Unknown diatom sp. A	0.58	0.00	0.68	0.42	0.70	86.78
Prorocentrum sp.	0.58	0.00	0.67	0.41	0.69	87.47
Chroococcus minutus	0.00	0.56	0.66	0.43	0.68	88.15
Navicula sp. small	0.46	0.00	0.53	0.36	0.55	88.70
Cyclotella undulata	0.00	0.37	0.49	0.29	0.51	89.21
Chaetoceros subtilis	0.27	0.16	0.47	0.28	0.48	89.69
Aphanocapsa sp.	0.40	0.08	0.47	0.42	0.48	90.17

Groups 70%Grp4 & 70%Grp1

Average dissimilarity = 97.22

Species	Group 70%Grp4 Av.Abund	Group 70%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	11.52	1.78	11.85	11.85
Unknown diatom sp. D	8.36	0.00	8.66	3.50	8.91	20.76
Unknown Cryptophyte sp.	7.43	0.00	8.32	7.57	8.56	29.32
Thalassiosira sp.	4.72	0.00	5.39	4.92	5.54	34.86
Skeletonema costatum	5.96	1.15	5.38	2.81	5.53	40.39
Unknown diatom sp.	4.70	0.00	5.14	10.49	5.28	45.67
Nitzschia closterium	4.12	0.00	4.85	3.07	4.99	50.66
Pyramimonas sp.	3.83	0.00	4.35	5.36	4.48	55.14
Synechocystis aquaticus Sauvageau	0.00	3.49	4.14	1.59	4.26	59.40
Cryptomonas sp.1	0.00	3.26	3.76	2.93	3.87	63.27
Chaetoceros sp.	3.08	0.00	2.77	0.98	2.85	66.12
Scenedesmus quadricauda v. Westii	0.00	2.19	2.49	1.33	2.56	68.68
Gymnodinium sp.	2.63	0.00	2.36	0.98	2.43	71.11
Nitzschia pungens	2.29	0.12	2.08	1.03	2.14	73.25
Gonyaulax palustre	0.00	1.82	2.07	1.48	2.13	75.37
Spermatozoopsis exultans	0.00	1.79	2.05	1.30	2.11	77.48
Leptocylicus minimum	1.88	0.00	1.69	0.98	1.74	79.22
Cryptomonas erosa	0.00	1.46	1.62	1.14	1.67	80.89
Prorocentrum sp.	1.50	0.00	1.34	0.98	1.38	82.27
Peridinium sp.	1.50	0.00	1.34	0.98	1.38	83.66
Chlymentomonas sp.	0.00	1.14	1.27	0.95	1.31	84.96
Cryptomonas ovata	0.00	1.01	1.17	0.86	1.20	86.16
Rhizosolenia setigera	1.26	0.00	1.13	0.98	1.16	87.32
Navicula sp. large	1.26	0.00	1.13	0.98	1.16	88.49
Leptocylicus danicus	1.26	0.00	1.13	0.98	1.16	89.65
Coelosphaerium sp.	0.00	0.90	1.00	0.58	1.03	90.67

Groups 70%Grp7 & 70%Grp1

Average dissimilarity = 96.08

Species	Group 70%Grp7 Av.Abund	Group 70%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	3.49	7.90	1.52	8.22	8.22
Cryptomonas sp.1	0.00	3.26	7.01	2.77	7.29	15.51
Skeletonema costatum	3.27	1.15	5.87	1.04	6.11	21.62
Scenedesmus quadricauda v. Westii	0.00	2.19	4.58	1.29	4.77	26.39
Unknown pennate diatom sp.	2.07	0.00	4.30	1.73	4.48	30.87
Cyclotella sp.	1.76	0.73	3.84	0.90	3.99	34.86
Spermatozoopsis exultans	0.00	1.79	3.81	1.22	3.97	38.83
Gonyaulax palustre	0.00	1.82	3.78	1.48	3.94	42.77

Cyclotella sp. (small)	1.79	0.00	3.52	0.70	3.67	46.43
Cryptomonas erosa	0.00	1.46	2.92	1.15	3.04	49.48
Cyclotella sp. (large)	1.45	0.00	2.75	0.59	2.86	52.34
Chlymentomonas sp.	0.00	1.14	2.30	0.94	2.39	54.73
Scenedesmus quadrauda	1.15	0.00	2.23	1.08	2.32	57.05
Cryptomonas ovata	0.00	1.01	2.16	0.85	2.25	59.30
Gymnodinium sp.	1.01	0.00	2.06	0.99	2.14	61.44
Schroederia setigera	1.04	0.00	1.99	1.05	2.07	63.52
Thalassiosira pseudonana	1.05	0.00	1.97	0.55	2.05	65.56
Eutreptia sp.	0.88	0.00	1.83	0.96	1.90	67.47
Scenedesmus bijinga	0.90	0.17	1.80	0.86	1.87	69.34
Coelosphaerium sp.	0.00	0.90	1.79	0.58	1.87	71.20
Thalassiosira decipiens	0.91	0.00	1.66	0.49	1.73	72.93
Eutreptiella sp.	0.00	0.80	1.58	0.84	1.64	74.57
Nitzschia longissima	0.78	0.00	1.47	0.94	1.53	76.11
Nitzschia palea	0.00	0.70	1.36	0.81	1.42	77.53
Akistrodesmus falcatus	0.64	0.00	1.25	0.68	1.30	78.83
Unknown flagellate sp. 1	0.00	0.56	1.17	0.58	1.22	80.05
Chaetoceros subtilis	0.44	0.16	1.06	0.53	1.10	81.15
Chroococcus minutus	0.00	0.56	1.01	0.43	1.05	82.19
Bluegreen filamentous sp.	0.41	0.00	0.88	0.61	0.91	83.11
Cyclotella undulata	0.00	0.37	0.79	0.29	0.82	83.93
Melosira sp.	0.36	0.00	0.73	0.49	0.76	84.69
Euglena acus	0.00	0.35	0.68	0.34	0.70	85.39
Cyclotella meneghiniana	0.40	0.00	0.67	0.27	0.70	86.09
Scenedesmus acutus	0.34	0.00	0.63	0.40	0.66	86.75
Euglena sp.	0.09	0.21	0.63	0.26	0.66	87.41
Merismopedia punctata	0.29	0.00	0.62	0.39	0.65	88.06
Scenedesmus abundans v. brevicauda	0.00	0.35	0.61	0.37	0.64	88.69
Crucigenia sp.	0.22	0.00	0.60	0.50	0.62	89.31
Merismopedia glauca	0.00	0.32	0.57	0.36	0.59	89.91
Nitzschia fruticosa	0.00	0.30	0.57	0.35	0.59	90.49

Groups 70%Grp9 & 70%Grp1

Average dissimilarity = 94.63

Species	Group 70%Grp9 Av.Abund	Group 70%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	3.49	8.26	1.55	8.73	8.73
Cryptomonas sp.1	0.00	3.26	7.32	2.91	7.74	16.47
Skeletonema costatum	4.02	1.15	6.61	1.67	6.99	23.46
Scenedesmus quadricauda v. Westii	0.00	2.19	4.78	1.31	5.06	28.52

Spermatozoopsis exultans	0.00	1.79	3.98	1.23	4.21	32.72
Gonyaulax palustre	0.00	1.82	3.95	1.50	4.17	36.89
Chaetoceros subtilis	1.53	0.16	3.69	0.92	3.90	40.79
Cryptomonas erosa	0.00	1.46	3.05	1.16	3.22	44.01
Chlymentomonas sp.	0.00	1.14	2.40	0.94	2.53	46.55
Nitzschia closterium	1.16	0.00	2.38	1.11	2.51	49.06
Cryptomonas ovata	0.00	1.01	2.26	0.86	2.39	51.44
Peridinium aciculiferum	0.96	0.00	2.25	0.82	2.38	53.82
Coelosphaerium sp.	0.00	0.90	1.87	0.58	1.98	55.80
Cyclotella sp.	0.31	0.73	1.70	0.77	1.80	57.59
Schizothrix sp.	0.87	0.00	1.67	0.50	1.77	59.36
Leptocylindricus minimum	0.86	0.00	1.67	0.77	1.76	61.12
Chaetoceros socialis	0.85	0.00	1.67	0.81	1.76	62.88
Eutreptiella sp.	0.00	0.80	1.65	0.84	1.74	64.62
Unknown pennate diatom sp.	0.79	0.00	1.57	0.82	1.66	66.29
Nitzschia palea	0.00	0.70	1.42	0.82	1.50	67.79
Thalassiosira pseudonana	0.71	0.00	1.40	0.73	1.48	69.27
Nitzschia longissima	0.64	0.00	1.33	0.87	1.40	70.67
Thalassiosira sp.	0.61	0.00	1.30	0.56	1.37	72.05
Unknown flagellate sp. 1	0.00	0.56	1.22	0.59	1.29	73.34
Ceratulina bergonii	0.49	0.00	1.08	0.41	1.14	74.48
Chroococcus minutus	0.00	0.56	1.04	0.43	1.10	75.58
Chaetoceros neogracile	0.50	0.00	0.99	0.58	1.05	76.62
Eutreptia sp.	0.45	0.00	0.88	0.63	0.93	77.55
Nitzschia pungens	0.38	0.12	0.87	0.56	0.92	78.47
Rhizosolenia setigera	0.41	0.00	0.86	0.56	0.90	79.38
Euglena sp.	0.20	0.21	0.83	0.32	0.88	80.25
Cyclotella undulata	0.00	0.37	0.83	0.29	0.87	81.12
Thalassionema nitzschoides	0.40	0.00	0.78	0.51	0.83	81.95
Euglena acus	0.00	0.35	0.71	0.34	0.75	82.70
Gymnodinium sp.	0.33	0.00	0.70	0.51	0.74	83.44
Prorocentrum minimum	0.37	0.00	0.69	0.55	0.73	84.17
Scenedesmus abundans v. brevicauda	0.00	0.35	0.64	0.37	0.67	84.84
Schroederia setigera	0.27	0.00	0.60	0.41	0.64	85.47
Cyclotella sp. (small)	0.25	0.00	0.59	0.28	0.63	86.10
Merismopedia glauca	0.00	0.32	0.59	0.36	0.62	86.73
Nitzschia fruticosa	0.00	0.30	0.59	0.35	0.62	87.35
Gonyaulax polygramma	0.24	0.00	0.56	0.41	0.59	87.94
Peridinium sp.	0.26	0.00	0.54	0.39	0.57	88.51
Stephanodiscus sp.	0.00	0.26	0.54	0.34	0.57	89.08
Spirulina sp.1	0.00	0.24	0.46	0.35	0.49	89.57
Prorocentrum micans	0.24	0.00	0.46	0.40	0.49	90.05

Groups 70%Grp10 & 70%Grp1

Average dissimilarity = 94.43

Species	Group 70%Grp10 Av.Abund	Group 70%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	3.49	7.49	1.65	7.94	7.94
Cryptomonas sp.1	0.00	3.26	6.67	3.37	7.07	15.00
Skeletonema costatum	4.06	1.15	6.06	1.73	6.42	21.42
Chaetoceros subtilis	2.80	0.16	5.52	1.56	5.85	27.27
Scenedesmus quadricauda v. Westii	0.00	2.19	4.38	1.36	4.63	31.90
Spermatozoopsis exultans	0.00	1.79	3.63	1.30	3.85	35.75
Gonyaulax palustre	0.00	1.82	3.62	1.56	3.83	39.58
Cryptomonas erosa	0.00	1.46	2.80	1.19	2.97	42.55
Cyclotella sp. (small)	1.40	0.00	2.78	0.68	2.94	45.49
Schroederia setigera	1.25	0.00	2.46	1.44	2.60	48.09
Thalassiosira pseudonana	1.15	0.00	2.30	0.70	2.44	50.53
Cyclotella sp.	0.79	0.73	2.24	0.83	2.37	52.90
Peridinium aciculiferum	1.07	0.00	2.23	0.72	2.36	55.26
Chlymentomonas sp.	0.00	1.14	2.20	0.97	2.33	57.59
Cryptomonas ovata	0.00	1.01	2.06	0.88	2.18	59.78
Gymnodinium sp.	1.06	0.00	2.05	0.83	2.18	61.95
Nitzschia longissima	0.91	0.00	1.89	1.22	2.00	63.96
Coelosphaerium sp.	0.00	0.90	1.72	0.59	1.82	65.78
Eutreptiella sp.	0.00	0.80	1.52	0.86	1.61	67.38
Schizothrix sp.	0.71	0.00	1.51	0.47	1.60	68.99
Unknown pennate diatom sp.	0.72	0.00	1.46	0.73	1.55	70.53
Scenedesmus quadracauda	0.73	0.00	1.44	0.81	1.53	72.06
Nitzschia palea	0.00	0.70	1.31	0.84	1.38	73.45
Euglena sp.	0.38	0.21	1.17	0.47	1.24	74.68
Thalassiosira decipiens	0.59	0.00	1.16	0.73	1.23	75.91
Unknown flagellate sp. 1	0.00	0.56	1.12	0.60	1.18	77.09
Gonyaulax polygramma	0.53	0.00	1.09	0.68	1.16	78.25
Scenedesmus bijinga	0.43	0.17	1.00	0.57	1.06	79.30
Chroococcus minutus	0.00	0.56	0.97	0.44	1.03	80.33
Akistrodesmus falcatus	0.46	0.00	0.87	0.56	0.92	81.25
Eutreptia sp.	0.42	0.00	0.82	0.58	0.87	82.12
Nitzschia closterium	0.40	0.00	0.80	0.59	0.84	82.97
Cyclotella undulata	0.00	0.37	0.76	0.30	0.80	83.77
Peridinium sp.	0.41	0.00	0.75	0.55	0.79	84.56
Euglena acus	0.00	0.35	0.65	0.34	0.69	85.24
Scenedesmus abundans v. brevicauda	0.00	0.35	0.59	0.37	0.63	85.87
Nitzschia pungens	0.21	0.12	0.58	0.51	0.62	86.49

Thalassiosira sp.	0.31	0.00	0.57	0.48	0.60	87.09
Merismopedia glauca	0.00	0.32	0.55	0.37	0.58	87.67
Nitzschia fruticosa	0.00	0.30	0.54	0.36	0.58	88.25
Prorocentrum minimum	0.29	0.00	0.54	0.50	0.57	88.82
Merismopedia punctata	0.23	0.00	0.53	0.33	0.56	89.38
Leptocylicus minimum	0.29	0.00	0.51	0.40	0.54	89.92
Stephanodiscus sp.	0.00	0.26	0.50	0.34	0.52	90.44

Groups 70%Grp11 & 70%Grp1

Average dissimilarity = 95.19

Species	Group 70%Grp11 Av.Abund	Group 70%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.90	1.15	9.37	1.45	9.85	9.85
Synechocystis aquaticus Sauvageau	0.00	3.49	7.15	1.52	7.51	17.36
Cryptomonas sp.1	0.00	3.26	6.37	2.77	6.69	24.05
Scenedesmus quadricauda v. Westii	0.00	2.19	4.18	1.29	4.39	28.44
Spermatozoopsis exultans	0.00	1.79	3.47	1.23	3.64	32.08
Gonyaulax palustre	0.00	1.82	3.45	1.47	3.63	35.71
Prorocentrum minimum	1.59	0.00	2.82	0.97	2.97	38.68
Thalassiosira pseudonana	1.56	0.00	2.74	0.82	2.88	41.55
Cryptomonas erosa	0.00	1.46	2.68	1.15	2.81	44.36
Eutreptia sp.	1.43	0.00	2.56	0.99	2.69	47.05
Thalassiosira sp.	1.38	0.00	2.47	0.65	2.59	49.65
Cyclotella sp.	0.83	0.73	2.12	0.80	2.23	51.88
Chlymentomonas sp.	0.00	1.14	2.10	0.94	2.21	54.09
Cryptomonas ovata	0.00	1.01	1.97	0.85	2.07	56.15
Chaetoceros subtilis	0.83	0.16	1.68	0.73	1.77	57.92
Coelosphaerium sp.	0.00	0.90	1.64	0.58	1.72	59.65
Schroederia setigera	0.82	0.00	1.58	0.88	1.66	61.31
Euglena sp.	0.69	0.21	1.53	0.48	1.61	62.92
Peridinium aciculiferum	0.84	0.00	1.53	0.82	1.60	64.52
Eutreptiella sp.	0.00	0.80	1.45	0.84	1.52	66.04
Unknown pennate diatom sp.	0.81	0.00	1.44	0.69	1.52	67.56
Thalassiosira decipiens	0.84	0.00	1.43	0.78	1.50	69.06
Nitzschia longissima	0.74	0.00	1.35	0.97	1.42	70.48
Nitzschia palea	0.00	0.70	1.25	0.82	1.31	71.79
Leptocylicus minimum	0.75	0.00	1.23	0.57	1.29	73.08
Scrippsiella sp.	0.59	0.00	1.14	0.65	1.20	74.28
Nitzschia closterium	0.62	0.00	1.08	0.90	1.13	75.41
Unknown flagellate sp. 1	0.00	0.56	1.07	0.58	1.12	76.53
Ceratulina bergonii	0.53	0.00	1.05	0.42	1.10	77.63

Merismopedia punctata	0.54	0.00	0.97	0.45	1.01	78.65
Chroococcus minutus	0.00	0.56	0.93	0.43	0.97	79.62
Gymnodinium sp.	0.53	0.00	0.90	0.70	0.94	80.56
Schizothrix sp.	0.49	0.00	0.83	0.43	0.87	81.44
Scenedesmus quadricauda	0.46	0.00	0.78	0.48	0.82	82.26
Akistrodesmus falcatus	0.43	0.00	0.76	0.54	0.80	83.06
Cyclotella undulata	0.00	0.37	0.72	0.29	0.76	83.81
Crucigenia sp.	0.38	0.00	0.67	0.47	0.70	84.52
Scenedesmus bijinga	0.28	0.17	0.64	0.52	0.67	85.18
Euglena acus	0.00	0.35	0.62	0.34	0.65	85.83
Chaetoceros neogracile	0.31	0.00	0.61	0.52	0.64	86.48
Pyramimonas sp.	0.33	0.00	0.58	0.35	0.61	87.08
Scenedesmus abundans v. brevicauda	0.00	0.35	0.57	0.37	0.60	87.68
Merismopedia glauca	0.00	0.32	0.53	0.36	0.55	88.23
Nitzschia fruticosa	0.00	0.30	0.52	0.35	0.55	88.77
Nostoc sp.(trichomes)	0.27	0.00	0.50	0.42	0.53	89.30
Peridinium sp.	0.31	0.00	0.49	0.55	0.51	89.81
Stephanodiscus sp.	0.00	0.26	0.47	0.34	0.50	90.31

Groups 70%Grp8 & 70%Grp1

Average dissimilarity = 96.78

Species	Group 70%Grp8	Group 70%Grp1	Av.Diss	Diss/SD	Contrib%	Cum.%
	Av.Abund	Av.Abund				
Skeletonema costatum	5.07	1.15	7.00	1.48	7.24	7.24
Synechocystis aquaticus Sauvageau	0.00	3.49	7.00	1.36	7.23	14.47
Cryptomonas sp.1	0.00	3.26	6.22	2.20	6.43	20.90
Scenedesmus quadricauda v. Westii	0.00	2.19	4.08	1.19	4.21	25.11
Schizothrix sp.	2.14	0.00	3.44	0.68	3.56	28.67
Spermatozoopsis exultans	0.00	1.79	3.39	1.12	3.50	32.17
Gonyaulax palustre	0.00	1.82	3.37	1.35	3.48	35.65
Thalassionema nitzschoides	1.63	0.00	3.01	0.71	3.11	38.76
Cryptomonas erosa	0.00	1.46	2.61	1.08	2.69	41.45
Ceratulina bergonii	1.39	0.00	2.49	0.79	2.57	44.02
Leptocylindricus minimum	1.63	0.00	2.32	1.11	2.40	46.42
Chlymentomonas sp.	0.00	1.14	2.05	0.89	2.12	48.54
Chaetoceros socialis	1.47	0.00	2.04	0.81	2.11	50.65
Nitzschia closterium	1.37	0.00	2.00	0.80	2.07	52.71
Chaetoceros neogracile	1.24	0.00	1.94	0.87	2.00	54.72
Cryptomonas ovata	0.00	1.01	1.92	0.80	1.99	56.70
Unknown pennate diatom sp.	1.09	0.00	1.88	0.86	1.94	58.64
Nitzschia pungens	1.11	0.12	1.65	0.75	1.70	60.35

Prorocentrum micans	0.97	0.00	1.64	0.98	1.70	62.04
Coelosphaerium sp.	0.00	0.90	1.60	0.56	1.65	63.69
Rhizosolenia setigera	0.93	0.00	1.53	0.80	1.58	65.27
Thalassiosira sp.	0.93	0.00	1.48	0.65	1.53	66.80
Eutreptiella sp.	0.00	0.80	1.41	0.80	1.46	68.26
Cyclotella sp.	0.00	0.73	1.22	0.63	1.26	69.52
Nitzschia palea	0.00	0.70	1.22	0.78	1.26	70.77
Chaetoceros compressum	0.87	0.00	1.17	0.67	1.21	71.98
Asterionella glacialis	0.87	0.00	1.16	0.67	1.20	73.19
Ceratium hircus	0.73	0.00	1.15	0.85	1.19	74.37
Thalassiosira decipiens	0.64	0.00	1.10	0.61	1.14	75.51
Chaetoceros sp.	0.56	0.00	1.06	0.34	1.10	76.61
Unknown flagellate sp. 1	0.00	0.56	1.04	0.56	1.08	77.68
Prorocentrum minimum	0.72	0.00	1.01	0.94	1.05	78.73
Chaetoceros subtilis	0.59	0.16	0.92	0.54	0.95	79.68
Chroococcus minutus	0.00	0.56	0.90	0.42	0.93	80.62
Nitzschia longissima	0.64	0.00	0.89	0.86	0.92	81.53
Peridinium sp.	0.41	0.00	0.80	0.54	0.82	82.36
Melosira sp.	0.26	0.00	0.71	0.33	0.73	83.09
Cyclotella undulata	0.00	0.37	0.70	0.28	0.73	83.81
Leptocylindricus danicus	0.46	0.00	0.65	0.59	0.67	84.48
Amphora sp.	0.41	0.00	0.62	0.44	0.64	85.13
Euglena acus	0.00	0.35	0.60	0.33	0.62	85.75
Scenedesmus abundans v. brevicauda	0.00	0.35	0.55	0.36	0.57	86.32
Merismopedia glauca	0.00	0.32	0.51	0.35	0.53	86.85
Nitzschia fruticosa	0.00	0.30	0.51	0.34	0.52	87.37
Chaetoceros curvisetus	0.43	0.00	0.49	0.33	0.51	87.88
Thalassiosira pseudonana	0.37	0.00	0.48	0.39	0.50	88.38
Stephanodiscus sp.	0.00	0.26	0.46	0.33	0.48	88.85
Gonyaulax polygramma	0.22	0.00	0.46	0.35	0.47	89.33
Pleurosigma sp.	0.27	0.00	0.46	0.47	0.47	89.80
Chaetoceros lorenzianum	0.32	0.00	0.45	0.43	0.46	90.26

Groups 70%Grp3 & 70%Grp2

Average dissimilarity = 98.64

Species	Group 70%Grp3 Av.Abund	Group 70%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	9.26	1.62	9.39	9.39
Skeletonema costatum	0.16	3.66	7.00	1.72	7.10	16.49
Unknown diatom sp.	3.09	0.00	5.88	2.49	5.96	22.45
Cryptomonas sp.1	0.00	2.86	5.55	2.18	5.62	28.07

Synechocystis aquaticus Sauvageau	0.00	2.84	5.48	1.51	5.56	33.63
Unknown diatom sp. D	2.34	0.00	4.35	1.59	4.41	38.04
Thalassiosira sp.	2.01	0.00	3.81	1.95	3.86	41.91
Prorocentrum micans	1.61	0.25	3.49	0.61	3.53	45.44
Unknown Dinoflagellate sp.	1.73	0.00	3.39	0.99	3.43	48.87
Scenedesmus sp.	1.47	0.00	2.64	1.15	2.68	51.55
Navicula sp. small	1.23	0.00	2.41	0.86	2.44	53.99
Chlymentomonas sp.	0.00	0.92	1.76	0.83	1.78	55.78
Eutreptiella sp.	0.35	0.75	1.69	0.83	1.72	57.50
Peridinium cerasus	0.00	0.89	1.68	0.67	1.70	59.20
Coscinodiscus sp.	0.83	0.00	1.61	0.58	1.63	60.83
Unknown bluegreen sp.	0.83	0.00	1.61	0.90	1.63	62.46
Nitzschia pungens	0.80	0.11	1.53	0.83	1.55	64.02
Pyramimonas sp.	0.84	0.00	1.51	0.84	1.53	65.55
Gymnodinium simplex	0.00	0.75	1.44	0.72	1.46	67.01
Tetraedron sp.	0.82	0.00	1.39	0.75	1.41	68.41
Navicula sp. large	0.66	0.00	1.37	0.65	1.39	69.80
Gymnodinium splendens	0.00	0.71	1.37	0.49	1.39	71.19
Akistrodesmus sp.	0.76	0.00	1.29	0.58	1.31	72.49
Chroococcus minutus	0.00	0.62	1.19	0.41	1.21	73.70
Leptocylindricus minimum	0.61	0.00	1.16	0.66	1.17	74.87
Spermatozoopsis exultans	0.00	0.63	1.14	0.69	1.15	76.03
Ceratium hircus	0.00	0.57	1.13	0.50	1.14	77.17
Cryptomonas ovata	0.00	0.59	1.11	0.63	1.13	78.29
Gonyaulax palustre	0.00	0.53	0.99	0.61	1.00	79.29
Nitzschia sp.	0.38	0.13	0.97	0.46	0.98	80.27
Prorocentrum sp.	0.45	0.00	0.86	0.38	0.87	81.14
Thalassionema nitzschoides	0.35	0.16	0.85	0.52	0.87	82.01
Unknown flagellate sp. 1	0.00	0.45	0.82	0.56	0.83	82.84
Calycomonas ovalis	0.00	0.44	0.81	0.45	0.83	83.67
Cyclotella sp.	0.00	0.42	0.78	0.49	0.79	84.46
Eutreptia sp.	0.37	0.00	0.73	0.36	0.74	85.20
Prorocentrum redfieldi	0.40	0.00	0.70	0.36	0.71	85.90
Rhizosolenia setigera	0.00	0.35	0.66	0.41	0.67	86.57
Cryptomonas erosa	0.00	0.37	0.66	0.52	0.67	87.24
Chaetoceros subtilis	0.00	0.34	0.63	0.44	0.64	87.88
Leptocylindricus danicus	0.27	0.00	0.60	0.39	0.61	88.48
Aphanocapsa sp.	0.36	0.00	0.56	0.39	0.57	89.06
Biddulphia sinensis	0.00	0.29	0.53	0.39	0.54	89.59
Oscillatoria sp.	0.32	0.00	0.52	0.39	0.52	90.12

Groups 70%Grp6 & 70%Grp2

Average dissimilarity = 94.16

Species	Group 70%Grp6 Av.Abund	Group 70%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	9.54	1.58	10.13	10.13
Unknown Cryptophyte sp.	6.29	0.00	9.28	2.30	9.85	19.99
Skeletonema costatum	3.34	3.66	5.15	1.27	5.47	25.46
Thalassiosira sp.	3.51	0.00	4.94	1.07	5.25	30.71
Unknown diatom sp.	3.30	0.00	4.63	1.64	4.92	35.63
Unknown Dinoflagellate sp.	3.01	0.00	4.49	1.24	4.77	40.40
Cryptomonas sp.1	0.00	2.86	4.30	2.03	4.57	44.97
Synechocystis aquaticus Sauvageau	0.00	2.84	4.26	1.44	4.52	49.49
Prorocentrum minimum	1.60	0.00	2.49	0.35	2.65	52.14
Peridinium sp.	1.80	0.00	2.36	0.75	2.51	54.65
Pyramimonas sp.	1.63	0.00	2.15	0.93	2.28	56.93
Eutreptiella sp.	0.69	0.75	1.80	0.63	1.92	58.84
Eutreptia sp.	1.21	0.00	1.79	0.49	1.90	60.74
Skeletonema menezelli	1.46	0.00	1.77	0.34	1.88	62.62
Chaetoceros sp.	1.28	0.00	1.58	0.60	1.68	64.30
Chlymentomonas sp.	0.00	0.92	1.37	0.81	1.46	65.75
Nitzschia closterium	0.92	0.05	1.32	0.68	1.41	67.16
Peridinium cerasus	0.00	0.89	1.31	0.66	1.39	68.55
Ceratium hircus	0.36	0.57	1.21	0.60	1.29	69.84
Nitzschia pungens	0.82	0.11	1.20	0.60	1.28	71.11
Gymnodinium simplex	0.00	0.75	1.12	0.71	1.19	72.30
Prorocentrum sp.	0.77	0.00	1.07	0.34	1.14	73.43
Gymnodinium splendens	0.00	0.71	1.06	0.49	1.12	74.56
Rhizosolenia setigera	0.51	0.35	0.98	0.63	1.04	75.60
Chroococcus minutus	0.00	0.62	0.93	0.40	0.98	76.59
Spermatozoopsis exultans	0.00	0.63	0.89	0.67	0.95	77.53
Unknown Katodinium sp.	0.54	0.00	0.89	0.29	0.94	78.47
Leptocylindricus minimum	0.72	0.00	0.88	0.54	0.93	79.40
Cryptomonas ovata	0.00	0.59	0.87	0.61	0.92	80.32
Prorocentrum micans	0.34	0.25	0.83	0.39	0.89	81.21
Scenedesmus sp.	0.60	0.00	0.80	0.44	0.85	82.06
Gonyaulax palustre	0.00	0.53	0.77	0.60	0.82	82.88
Leptocylindricus danicus	0.65	0.00	0.75	0.35	0.79	83.68
Glenodinium sp.	0.50	0.00	0.67	0.30	0.71	84.39
Navicula sp. large	0.47	0.00	0.65	0.44	0.70	85.08
Chaetoceros subtilis	0.16	0.34	0.65	0.42	0.69	85.77
Chaetoceros gracile	0.51	0.00	0.65	0.29	0.69	86.46
Unknown flagellate sp. 1	0.00	0.45	0.64	0.55	0.68	87.14
Unknown diatom sp. A	0.52	0.00	0.64	0.33	0.68	87.82

Calycomonas ovalis	0.00	0.44	0.64	0.44	0.68	88.50
Cyclotella sp.	0.00	0.42	0.61	0.49	0.65	89.14
Cryptomonas erosa	0.00	0.37	0.52	0.51	0.55	89.69
Prorocentrum redfieldi	0.41	0.00	0.51	0.19	0.54	90.23

Groups 70%Grp5 & 70%Grp2

Average dissimilarity = 90.60

Species	Group 70%Grp5 Av.Abund	Group 70%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.13	0.00	7.97	1.97	8.80	8.80
Unknown Cryptophyte sp.	5.10	0.00	7.28	2.41	8.04	16.83
Skeletonema costatum	7.46	3.66	6.87	1.60	7.59	24.42
Thalassiosira sp.	4.15	0.00	5.24	2.61	5.78	30.21
Nitzschia closterium	3.83	0.05	4.97	2.42	5.48	35.69
Unknown diatom sp.	3.67	0.00	4.82	2.22	5.32	41.01
Cryptomonas sp.1	0.00	2.86	3.98	2.05	4.39	45.41
Synechocystis aquaticus Sauvageau	0.00	2.84	3.94	1.45	4.35	49.76
Nitzschia pungens	2.56	0.11	3.34	1.26	3.69	53.45
Unknown Dinoflagellate sp.	2.35	0.00	3.00	1.31	3.31	56.76
Chaetoceros sp.	2.39	0.00	2.99	1.12	3.30	60.06
Skeletonema menezelli	2.03	0.00	2.23	0.40	2.46	62.52
Pyramimonas sp.	1.39	0.00	1.94	0.80	2.14	64.66
Leptocylindricus minimum	1.46	0.00	1.76	0.75	1.94	66.59
Ceratium hircus	0.95	0.57	1.62	0.70	1.78	68.38
Chlymentomonas sp.	0.00	0.92	1.27	0.81	1.40	69.78
Peridinium sp.	1.06	0.00	1.23	0.58	1.36	71.13
Peridinium cerasus	0.00	0.89	1.22	0.66	1.34	72.48
Thalassionema nitzschoides	0.96	0.16	1.20	0.64	1.33	73.80
Rhizosolenia setigera	0.77	0.35	1.18	0.72	1.30	75.10
Eutreptiella sp.	0.12	0.75	1.10	0.74	1.21	76.31
Gymnodinium simplex	0.00	0.75	1.03	0.71	1.14	77.45
Gymnodinium splendens	0.00	0.71	0.98	0.49	1.08	78.54
Leptocylindricus danicus	0.69	0.00	0.94	0.53	1.04	79.58
Navicula sp. large	0.73	0.00	0.94	0.60	1.03	80.61
Chroococcus minutus	0.00	0.62	0.86	0.40	0.95	81.56
Spermatozoopsis exultans	0.00	0.63	0.83	0.67	0.92	82.47
Cryptomonas ovata	0.00	0.59	0.80	0.61	0.89	83.36
Chaetoceros subtilis	0.27	0.34	0.73	0.43	0.80	84.16
Unknown diatom sp. A	0.58	0.00	0.72	0.42	0.79	84.96
Gonyaulax palustre	0.00	0.53	0.72	0.60	0.79	85.75
Prorocentrum sp.	0.58	0.00	0.71	0.41	0.78	86.53

Prorocentrum micans	0.32	0.25	0.62	0.55	0.68	87.21
Unknown flagellate sp. 1	0.00	0.45	0.60	0.55	0.66	87.87
Calycomonas ovalis	0.00	0.44	0.59	0.44	0.65	88.53
Cyclotella sp.	0.00	0.42	0.56	0.49	0.62	89.15
Navicula sp. small	0.46	0.00	0.56	0.36	0.62	89.77
Cryptomonas erosa	0.00	0.37	0.48	0.51	0.53	90.30

Groups 70%Grp4 & 70%Grp2

Average dissimilarity = 90.65

Species	Group 70%Grp4 Av.Abund	Group 70%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	12.15	1.79	13.41	13.41
Unknown diatom sp. D	8.36	0.00	9.06	3.71	9.99	23.40
Unknown Cryptophyte sp.	7.43	0.00	8.73	8.01	9.63	33.04
Thalassiosira sp.	4.72	0.00	5.66	4.97	6.24	39.28
Unknown diatom sp.	4.70	0.00	5.39	13.59	5.94	45.22
Nitzschia closterium	4.12	0.05	5.04	2.99	5.56	50.78
Pyramimonas sp.	3.83	0.00	4.57	5.44	5.04	55.83
Cryptomonas sp.1	0.00	2.86	3.45	2.10	3.80	59.63
Synechocystis aquaticus Sauvageau	0.00	2.84	3.41	1.46	3.77	63.40
Chaetoceros sp.	3.08	0.00	2.87	0.99	3.17	66.57
Skeletonema costatum	5.96	3.66	2.65	1.19	2.92	69.49
Gymnodinium sp.	2.63	0.00	2.45	0.99	2.70	72.19
Nitzschia pungens	2.29	0.11	2.16	1.03	2.39	74.58
Leptocylicus minimum	1.88	0.00	1.75	0.99	1.94	76.51
Prorocentrum sp.	1.50	0.00	1.39	0.99	1.54	78.05
Peridinium sp.	1.50	0.00	1.39	0.99	1.54	79.59
Rhizosolenia setigera	1.26	0.35	1.31	1.05	1.44	81.03
Navicula sp. large	1.26	0.00	1.17	0.99	1.29	82.33
Leptocylicus danicus	1.26	0.00	1.17	0.99	1.29	83.62
Chlymentomonas sp.	0.00	0.92	1.10	0.82	1.21	84.83
Peridinium cerasus	0.00	0.89	1.06	0.67	1.16	86.00
Gymnodinium simplex	0.00	0.75	0.90	0.71	0.99	86.99
Eutreptiella sp.	0.00	0.75	0.88	0.71	0.97	87.96
Gymnodinium splendens	0.00	0.71	0.85	0.50	0.94	88.89
Chroococcus minutus	0.00	0.62	0.74	0.40	0.82	89.72
Spermatozoopsis exultans	0.00	0.63	0.72	0.68	0.80	90.51

Groups 70%Grp7 & 70%Grp2

Average dissimilarity = 91.52

Species	Group 70%Grp7 Av.Abund	Group 70%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	3.66	7.56	1.25	8.26	8.26
Cryptomonas sp.1	0.00	2.86	6.65	1.98	7.27	15.53
Synechocystis aquaticus Sauvageau	0.00	2.84	6.56	1.44	7.17	22.70
Unknown pennate diatom sp.	2.07	0.00	4.69	1.73	5.13	27.83
Cyclotella sp.	1.76	0.42	4.03	0.84	4.40	32.23
Cyclotella sp. (small)	1.79	0.00	3.82	0.71	4.18	36.41
Cyclotella sp. (large)	1.45	0.00	2.97	0.59	3.25	39.65
Scenedesmus quadracauda	1.15	0.00	2.41	1.09	2.64	42.29
Gymnodinium sp.	1.01	0.00	2.24	1.00	2.45	44.73
Schroederia setigera	1.04	0.00	2.16	1.06	2.36	47.09
Thalassiosira pseudonana	1.05	0.00	2.12	0.56	2.32	49.41
Chlymentomonas sp.	0.00	0.92	2.10	0.80	2.30	51.71
Peridinium cerasus	0.00	0.89	2.00	0.64	2.19	53.90
Eutreptia sp.	0.88	0.00	1.99	0.97	2.18	56.07
Scenedesmus bijinga	0.90	0.00	1.89	0.84	2.06	58.14
Thalassiosira decipiens	0.91	0.00	1.79	0.49	1.95	60.09
Gymnodinium simplex	0.00	0.75	1.73	0.71	1.89	61.98
Eutreptiella sp.	0.00	0.75	1.66	0.72	1.81	63.79
Gymnodinium splendens	0.00	0.71	1.64	0.47	1.79	65.58
Nitzschia longissima	0.78	0.00	1.60	0.95	1.74	67.32
Chroococcus minutus	0.00	0.62	1.42	0.40	1.55	68.88
Chaetoceros subtilis	0.44	0.34	1.39	0.66	1.52	70.40
Akistrodesmus falcatus	0.64	0.00	1.36	0.68	1.49	71.89
Ceratium hircus	0.00	0.57	1.35	0.49	1.48	73.37
Spermatozoopsis exultans	0.00	0.63	1.34	0.68	1.46	74.83
Cryptomonas ovata	0.00	0.59	1.32	0.61	1.45	76.28
Gonyaulax palustre	0.00	0.53	1.17	0.60	1.28	77.56
Unknown flagellate sp. 1	0.00	0.45	0.98	0.55	1.07	78.62
Calycomonas ovalis	0.00	0.44	0.96	0.45	1.05	79.67
Bluegreen filamentous sp.	0.41	0.00	0.96	0.61	1.05	80.72
Melosira sp.	0.36	0.00	0.79	0.50	0.87	81.59
Rhizosolenia setigera	0.00	0.35	0.78	0.40	0.86	82.45
Cryptomonas erosa	0.00	0.37	0.77	0.51	0.84	83.29
Cyclotella meneghiniana	0.40	0.00	0.72	0.28	0.79	84.08
Scenedesmus acutus	0.34	0.00	0.68	0.40	0.74	84.82
Merismopedia punctata	0.29	0.00	0.68	0.39	0.74	85.56
Crucigenia sp.	0.22	0.00	0.67	0.51	0.73	86.29
Biddulphia sinensis	0.00	0.29	0.63	0.39	0.69	86.98
Pleurosigma sp.	0.24	0.00	0.62	0.51	0.67	87.65
Nitzschia sp.	0.09	0.13	0.61	0.36	0.67	88.32

Scenedesmus quadricauda v. Westii	0.00	0.30	0.60	0.41	0.66	88.98
Chaetoceros compressum	0.00	0.26	0.57	0.32	0.62	89.60
Prorocentrum micans	0.00	0.25	0.56	0.40	0.61	90.21

Groups 70%Grp9 & 70%Grp2

Average dissimilarity = 83.96

Species	Group 70%Grp9 Av.Abund	Group 70%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Cryptomonas sp.1	0.00	2.86	6.97	2.04	8.30	8.30
Synechocystis aquaticus Sauvageau	0.00	2.84	6.87	1.47	8.18	16.48
Skeletonema costatum	4.02	3.66	4.64	1.11	5.53	22.01
Chaetoceros subtilis	1.53	0.34	3.90	0.93	4.65	26.66
Nitzschia closterium	1.16	0.05	2.56	1.12	3.05	29.71
Peridinium aciculiferum	0.96	0.00	2.48	0.82	2.95	32.66
Chlymentomonas sp.	0.00	0.92	2.20	0.81	2.62	35.28
Peridinium cerasus	0.00	0.89	2.09	0.65	2.49	37.78
Leptocylindricus minimum	0.86	0.00	1.81	0.78	2.15	39.93
Chaetoceros socialis	0.85	0.00	1.81	0.82	2.15	42.09
Schizothrix sp.	0.87	0.00	1.81	0.50	2.15	44.24
Gymnodinium simplex	0.00	0.75	1.81	0.72	2.15	46.39
Eutreptiella sp.	0.00	0.75	1.73	0.72	2.07	48.46
Gymnodinium splendens	0.00	0.71	1.72	0.48	2.05	50.51
Unknown pennate diatom sp.	0.79	0.00	1.71	0.83	2.03	52.54
Ceratium hircus	0.18	0.57	1.63	0.56	1.94	54.48
Thalassiosira pseudonana	0.71	0.00	1.52	0.73	1.81	56.29
Chroococcus minutus	0.00	0.62	1.49	0.40	1.77	58.06
Rhizosolenia setigera	0.41	0.35	1.46	0.67	1.74	59.80
Nitzschia longissima	0.64	0.00	1.44	0.87	1.72	61.52
Thalassiosira sp.	0.61	0.00	1.42	0.56	1.69	63.21
Spermatozoopsis exultans	0.00	0.63	1.40	0.68	1.67	64.88
Cyclotella sp.	0.31	0.42	1.39	0.64	1.66	66.53
Cryptomonas ovata	0.00	0.59	1.38	0.62	1.65	68.18
Gonyaulax palustre	0.00	0.53	1.22	0.60	1.46	69.64
Ceratulina bergonii	0.49	0.00	1.18	0.41	1.41	71.04
Thalassionema nitzschoides	0.40	0.16	1.14	0.54	1.35	72.40
Chaetoceros neogracile	0.50	0.00	1.07	0.58	1.28	73.67
Unknown flagellate sp. 1	0.00	0.45	1.02	0.56	1.21	74.89
Calycomonas ovalis	0.00	0.44	1.01	0.45	1.20	76.09
Nitzschia pungens	0.38	0.11	0.97	0.54	1.15	77.24
Prorocentrum micans	0.24	0.25	0.95	0.56	1.13	78.37
Eutreptia sp.	0.45	0.00	0.95	0.63	1.13	79.50

Chaetoceros compressum	0.15	0.26	0.89	0.42	1.06	80.56
Cryptomonas erosa	0.00	0.37	0.80	0.51	0.96	81.52
Gymnodinium sp.	0.33	0.00	0.77	0.51	0.91	82.44
Prorocentrum minimum	0.37	0.00	0.74	0.55	0.88	83.32
Schroederia setigera	0.27	0.00	0.66	0.41	0.78	84.11
Biddulphia sinensis	0.00	0.29	0.65	0.39	0.78	84.89
Cyclotella sp. (small)	0.25	0.00	0.65	0.28	0.78	85.66
Scenedesmus quadricauda v. Westii	0.00	0.30	0.63	0.41	0.75	86.41
Chaetoceros decipiens	0.05	0.23	0.62	0.37	0.74	87.16
Gonyaulax polygramma	0.24	0.00	0.61	0.41	0.73	87.89
Peridinium sp.	0.26	0.00	0.59	0.39	0.71	88.59
Asterionella glacialis	0.17	0.09	0.54	0.34	0.65	89.24
Scrippsiella sp.	0.24	0.00	0.48	0.44	0.57	89.81
Nitzschia sp.	0.06	0.13	0.48	0.30	0.57	90.38

Groups 70%Grp10 & 70%Grp2

Average dissimilarity = 85.51

Species	Group 70%Grp10 Av.Abund	Group 70%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Cryptomonas sp.1	0.00	2.86	6.30	2.24	7.37	7.37
Synechocystis aquaticus Sauvageau	0.00	2.84	6.22	1.54	7.27	14.64
Chaetoceros subtilis	2.80	0.34	5.65	1.52	6.61	21.25
Skeletonema costatum	4.06	3.66	4.16	1.32	4.87	26.12
Cyclotella sp. (small)	1.40	0.00	3.01	0.68	3.52	29.64
Schroederia setigera	1.25	0.00	2.66	1.46	3.11	32.75
Thalassiosira pseudonana	1.15	0.00	2.50	0.71	2.92	35.67
Peridinium aciculiferum	1.07	0.00	2.43	0.72	2.84	38.51
Gymnodinium sp.	1.06	0.00	2.22	0.83	2.60	41.11
Cyclotella sp.	0.79	0.42	2.10	0.72	2.46	43.57
Nitzschia longissima	0.91	0.00	2.06	1.23	2.41	45.97
Chlymentomonas sp.	0.00	0.92	2.00	0.83	2.33	48.31
Peridinium cerasus	0.00	0.89	1.90	0.67	2.22	50.53
Schizothrix sp.	0.71	0.00	1.65	0.47	1.93	52.46
Gymnodinium simplex	0.00	0.75	1.63	0.73	1.91	54.38
Unknown pennate diatom sp.	0.72	0.00	1.59	0.73	1.86	56.23
Eutreptiella sp.	0.00	0.75	1.58	0.74	1.85	58.08
Scenedesmus quadricauda	0.73	0.00	1.56	0.82	1.83	59.91
Gymnodinium splendens	0.00	0.71	1.55	0.49	1.82	61.72
Chroococcus minutus	0.00	0.62	1.35	0.41	1.58	63.30
Ceratium hircus	0.00	0.57	1.28	0.50	1.50	64.80
Spermatozoopsis exultans	0.00	0.63	1.28	0.69	1.50	66.29

Cryptomonas ovata	0.00	0.59	1.26	0.63	1.47	67.76
Thalassiosira decipiens	0.59	0.00	1.26	0.74	1.47	69.23
Gonyaulax polygramma	0.53	0.00	1.19	0.68	1.39	70.62
Gonyaulax palustre	0.00	0.53	1.11	0.61	1.30	71.93
Akistrodesmus falcatus	0.46	0.00	0.94	0.57	1.10	73.02
Unknown flagellate sp. 1	0.00	0.45	0.93	0.57	1.09	74.11
Scenedesmus bijinga	0.43	0.00	0.92	0.50	1.08	75.18
Calycomonas ovalis	0.00	0.44	0.92	0.45	1.07	76.26
Nitzschia closterium	0.40	0.05	0.91	0.62	1.07	77.33
Eutreptia sp.	0.42	0.00	0.89	0.59	1.04	78.37
Euglena sp.	0.38	0.00	0.85	0.50	0.99	79.36
Rhizosolenia setigera	0.06	0.35	0.83	0.46	0.97	80.33
Peridinium sp.	0.41	0.00	0.81	0.56	0.94	81.27
Cryptomonas erosa	0.00	0.37	0.74	0.52	0.86	82.13
Nitzschia pungens	0.21	0.11	0.66	0.48	0.77	82.91
Thalassiosira sp.	0.31	0.00	0.61	0.48	0.72	83.62
Biddulphia sinensis	0.00	0.29	0.60	0.40	0.70	84.32
Merismopedia punctata	0.23	0.00	0.58	0.33	0.68	85.00
Prorocentrum minimum	0.29	0.00	0.58	0.50	0.68	85.68
Scenedesmus quadricauda v. Westii	0.00	0.30	0.58	0.42	0.67	86.35
Leptocylicus minimum	0.29	0.00	0.55	0.41	0.65	87.00
Chaetoceros compressum	0.00	0.26	0.54	0.33	0.63	87.63
Prorocentrum micans	0.00	0.25	0.53	0.41	0.62	88.25
Nostoc sp.(trichomes)	0.21	0.00	0.53	0.42	0.61	88.87
Thalassionema nitzschoides	0.09	0.16	0.51	0.31	0.60	89.46
Chaetoceros decipiens	0.00	0.23	0.50	0.34	0.58	90.05

Groups 70%Grp11 & 70%Grp2

Average dissimilarity = 85.92

Species	Group 70%Grp11 Av.Abund	Group 70%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.90	3.66	6.88	1.16	8.01	8.01
Cryptomonas sp.1	0.00	2.86	6.01	1.98	7.00	15.00
Synechocystis aquaticus Sauvageau	0.00	2.84	5.93	1.44	6.90	21.91
Prorocentrum minimum	1.59	0.00	3.04	0.98	3.54	25.44
Thalassiosira pseudonana	1.56	0.00	2.94	0.83	3.42	28.87
Eutreptia sp.	1.43	0.00	2.76	0.99	3.21	32.08
Thalassiosira sp.	1.38	0.00	2.66	0.66	3.10	35.17
Cyclotella sp.	0.83	0.42	1.95	0.69	2.27	37.44
Chlymentomonas sp.	0.00	0.92	1.90	0.80	2.22	39.66
Chaetoceros subtilis	0.83	0.34	1.89	0.81	2.20	41.86

Peridinium cerasus	0.00	0.89	1.81	0.65	2.11	43.97
Schroederia setigera	0.82	0.00	1.72	0.88	2.00	45.97
Peridinium aciculiferum	0.84	0.00	1.65	0.83	1.92	47.89
Gymnodinium simplex	0.00	0.75	1.56	0.71	1.82	49.70
Unknown pennate diatom sp.	0.81	0.00	1.56	0.69	1.81	51.52
Thalassiosira decipiens	0.84	0.00	1.53	0.78	1.78	53.30
Eutreptiella sp.	0.00	0.75	1.51	0.72	1.75	55.05
Gymnodinium splendens	0.00	0.71	1.48	0.48	1.72	56.78
Nitzschia longissima	0.74	0.00	1.45	0.97	1.69	58.47
Leptocylindricus minimum	0.75	0.00	1.31	0.57	1.53	60.00
Chroococcus minutus	0.00	0.62	1.29	0.40	1.50	61.50
Euglena sp.	0.69	0.00	1.28	0.45	1.49	62.99
Ceratium hircus	0.08	0.57	1.28	0.51	1.49	64.48
Scrippsiella sp.	0.59	0.00	1.24	0.65	1.44	65.92
Spermatozoopsis exultans	0.00	0.63	1.22	0.67	1.42	67.34
Cryptomonas ovata	0.00	0.59	1.20	0.61	1.40	68.73
Nitzschia closterium	0.62	0.05	1.18	0.91	1.37	70.10
Ceratulina bergonii	0.53	0.00	1.14	0.42	1.33	71.43
Gonyaulax palustre	0.00	0.53	1.06	0.60	1.24	72.67
Merismopedia punctata	0.54	0.00	1.04	0.45	1.21	73.88
Gymnodinium sp.	0.53	0.00	0.96	0.71	1.12	75.00
Rhizosolenia setigera	0.16	0.35	0.91	0.48	1.06	76.06
Schizothrix sp.	0.49	0.00	0.89	0.43	1.04	77.10
Unknown flagellate sp. 1	0.00	0.45	0.89	0.55	1.03	78.13
Calycomonas ovalis	0.00	0.44	0.88	0.44	1.02	79.15
Scenedesmus quadricauda	0.46	0.00	0.84	0.48	0.98	80.13
Akistrodesmus falcatus	0.43	0.00	0.82	0.54	0.95	81.08
Thalassionema nitzschoides	0.20	0.16	0.74	0.40	0.86	81.94
Crucigenia sp.	0.38	0.00	0.72	0.48	0.84	82.78
Cryptomonas erosa	0.00	0.37	0.70	0.51	0.82	83.60
Prorocentrum micans	0.13	0.25	0.67	0.52	0.78	84.38
Chaetoceros neogracile	0.31	0.00	0.66	0.52	0.77	85.15
Pyramimonas sp.	0.33	0.00	0.62	0.35	0.72	85.87
Biddulphia sinensis	0.00	0.29	0.57	0.39	0.66	86.53
Scenedesmus quadricauda v. Westii	0.00	0.30	0.55	0.41	0.64	87.17
Nostoc sp.(trichomes)	0.27	0.00	0.54	0.42	0.63	87.80
Peridinium sp.	0.31	0.00	0.52	0.55	0.60	88.41
Chaetoceros compressum	0.00	0.26	0.52	0.32	0.60	89.01
Scenedesmus bijinga	0.28	0.00	0.49	0.43	0.57	89.58
Chaetoceros socialis	0.28	0.00	0.48	0.36	0.56	90.14

Groups 70%Grp8 & 70%Grp2

Average dissimilarity = 88.28

Species	Group 70%Grp8 Av.Abund	Group 70%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.07	3.66	6.76	1.27	7.65	7.65
Cryptomonas sp.1	0.00	2.86	5.89	1.68	6.67	14.32
Synechocystis aquaticus Sauvageau	0.00	2.84	5.81	1.30	6.58	20.90
Schizothrix sp.	2.14	0.00	3.69	0.69	4.18	25.08
Thalassionema nitzschoides	1.63	0.16	3.32	0.73	3.76	28.84
Ceratulina bergonii	1.39	0.00	2.69	0.77	3.05	31.89
Leptocyndricus minimum	1.63	0.00	2.47	1.12	2.80	34.68
Chaetoceros socialis	1.47	0.00	2.16	0.82	2.45	37.13
Nitzschia closterium	1.37	0.05	2.15	0.82	2.43	39.57
Chaetoceros neogracile	1.24	0.00	2.07	0.87	2.35	41.92
Unknown pennate diatom sp.	1.09	0.00	2.03	0.86	2.30	44.22
Rhizosolenia setigera	0.93	0.35	1.89	0.84	2.14	46.36
Chlymentomonas sp.	0.00	0.92	1.86	0.75	2.11	48.47
Ceratium hircus	0.73	0.57	1.83	0.76	2.07	50.54
Prorocentrum micans	0.97	0.25	1.82	1.01	2.07	52.60
Peridinium cerasus	0.00	0.89	1.77	0.61	2.01	54.61
Nitzschia pungens	1.11	0.11	1.77	0.74	2.01	56.62
Thalassiosira sp.	0.93	0.00	1.58	0.64	1.79	58.42
Chaetoceros compressum	0.87	0.26	1.54	0.72	1.74	60.16
Gymnodinium simplex	0.00	0.75	1.53	0.67	1.73	61.89
Eutreptiella sp.	0.00	0.75	1.47	0.68	1.67	63.56
Gymnodinium splendens	0.00	0.71	1.45	0.45	1.65	65.20
Asterionella glacialis	0.87	0.09	1.34	0.69	1.52	66.72
Chroococcus minutus	0.00	0.62	1.26	0.39	1.43	68.15
Chaetoceros subtilis	0.59	0.34	1.23	0.66	1.39	69.54
Thalassiosira decipiens	0.64	0.00	1.19	0.60	1.35	70.89
Spermatozoopsis exultans	0.00	0.63	1.19	0.65	1.35	72.24
Cryptomonas ovata	0.00	0.59	1.17	0.59	1.33	73.56
Chaetoceros sp.	0.56	0.00	1.15	0.34	1.31	74.87
Prorocentrum minimum	0.72	0.00	1.07	0.95	1.22	76.09
Gonyaulax palustre	0.00	0.53	1.04	0.57	1.18	77.26
Nitzschia longissima	0.64	0.00	0.94	0.87	1.07	78.33
Unknown flagellate sp. 1	0.00	0.45	0.87	0.53	0.98	79.31
Peridinium sp.	0.41	0.00	0.87	0.54	0.98	80.29
Calycomonas ovalis	0.00	0.44	0.86	0.43	0.97	81.26
Cyclotella sp.	0.00	0.42	0.82	0.47	0.92	82.19
Melosira sp.	0.26	0.00	0.79	0.33	0.90	83.08
Leptocyndricus danicus	0.46	0.00	0.69	0.59	0.78	83.86
Cryptomonas erosa	0.00	0.37	0.69	0.49	0.78	84.64

Amphora sp.	0.41	0.00	0.66	0.44	0.75	85.39
Biddulphia sinensis	0.00	0.29	0.56	0.38	0.63	86.02
Scenedesmus quadricauda v. Westii	0.00	0.30	0.54	0.40	0.61	86.63
Rhizosolenia calcar-avis	0.22	0.13	0.54	0.46	0.61	87.24
Chaetoceros curvisetus	0.43	0.00	0.52	0.33	0.58	87.82
Thalassiosira pseudonana	0.37	0.00	0.51	0.39	0.58	88.40
Gonyaulax polygramma	0.22	0.00	0.50	0.35	0.57	88.97
Pleurosigma sp.	0.27	0.00	0.49	0.47	0.56	89.52
Chaetoceros lorenzianum	0.32	0.00	0.47	0.43	0.53	90.06

Groups 70%Grp1 & 70%Grp2

Average dissimilarity = 65.48

Species	Group 70%Grp1 Av.Abund	Group 70%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	1.15	3.66	6.18	1.47	9.43	9.43
Synechocystis aquaticus Sauvageau	3.49	2.84	4.46	1.14	6.81	16.24
Scenedesmus quadricauda v. Westii	2.19	0.30	4.27	1.30	6.52	22.76
Gonyaulax palustre	1.82	0.53	3.28	1.38	5.01	27.77
Spermatozoopsis exultans	1.79	0.63	3.27	1.18	5.00	32.78
Cryptomonas erosa	1.46	0.37	2.77	1.20	4.23	37.01
Chlymentomonas sp.	1.14	0.92	2.49	1.10	3.80	40.81
Cryptomonas sp.1	3.26	2.86	2.49	1.24	3.80	44.61
Cryptomonas ovata	1.01	0.59	2.28	0.99	3.48	48.09
Eutreptiella sp.	0.80	0.75	2.01	1.01	3.06	51.16
Chroococcus minutus	0.56	0.62	1.99	0.59	3.04	54.19
Coelosphaerium sp.	0.90	0.18	1.92	0.64	2.94	57.13
Peridinium cerasus	0.00	0.89	1.81	0.67	2.76	59.89
Cyclotella sp.	0.73	0.42	1.73	0.82	2.64	62.53
Gymnodinium simplex	0.20	0.75	1.65	0.82	2.51	65.05
Unknown flagellate sp. 1	0.56	0.45	1.58	0.81	2.41	67.46
Gymnodinium splendens	0.12	0.71	1.57	0.53	2.39	69.85
Nitzschia palea	0.70	0.18	1.44	0.89	2.20	72.05
Ceratium hircus	0.00	0.57	1.22	0.50	1.86	73.90
Cyclotella undulata	0.37	0.16	1.05	0.39	1.60	75.50
Calycomonas ovalis	0.05	0.44	0.92	0.48	1.41	76.91
Chaetoceros subtilis	0.16	0.34	0.92	0.48	1.41	78.32
Euglena acus	0.35	0.04	0.72	0.37	1.10	79.42
Rhizosolenia setigera	0.00	0.35	0.71	0.41	1.08	80.50
Merismopedia glauca	0.32	0.03	0.62	0.39	0.95	81.45
Scenedesmus abundans v. brevicauda	0.35	0.00	0.61	0.37	0.93	82.38
Nitzschia fruticosa	0.30	0.02	0.59	0.37	0.90	83.27

Biddulphia sinensis	0.00	0.29	0.57	0.39	0.87	84.14
Chaetoceros compressum	0.00	0.26	0.51	0.33	0.78	84.93
Stephanodiscus sp.	0.26	0.00	0.51	0.34	0.78	85.70
Prorocentrum micans	0.00	0.25	0.51	0.41	0.77	86.48
Oscillatoria rubescens (trichome)	0.15	0.14	0.50	0.40	0.76	87.24
Nitzschia sp.	0.10	0.13	0.49	0.36	0.75	87.99
Chaetoceros decipiens	0.00	0.23	0.47	0.34	0.72	88.71
Euglena sp.	0.21	0.00	0.47	0.21	0.72	89.43
Spirulina sp.1	0.24	0.02	0.47	0.37	0.72	90.15

Appendix H. SIMPER test results for the combined river species that account for 3% or more of the total abundance in any one sample averaged by the 75% groupings level.

SIMPER

Similarity Percentages - species contributions

Worksheet

File: F:\3 Rivers\Combined Files\combspecies0KwithchemBIOENVtransformedreduced.pri

Sample selection: All

Variable selection: All

Parameters

Standardise data: No

Transform: None

Cut off for low contributions: 90.00%

Factor name: Sim75%GRPC

Factor groups

75%Grp4 ALA0
 75%Grp7 ALA6-12-18
 75%Grp6 ALASFB-TB
 75%Grp5 ALASFC
 75%Grp8 LMR0
 75%Grp10 LMR12
 75%Grp12 LMR6
 75%Grp13 LMRRUSK
 75%Grp9 LMRTB
 75%Grp11 LMR6
 75%Grp1 PR1
 75%Grp3 PR2-3
 75%Grp2 PR4

Group 75%Grp4

Average similarity: 40.67

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	10.45	1.93	25.69	25.69
Unknown diatom sp.	3.09	7.85	2.15	19.30	44.99
Unknown diatom sp. D	2.34	4.70	1.20	11.55	56.54

Thalassiosira sp.	2.01	4.63	1.51	11.39	67.93
Unknown Dinoflagellate sp.	1.73	2.61	0.76	6.41	74.34
Scenedesmus sp.	1.47	2.13	0.69	5.23	79.57
Navicula sp. small	1.23	1.41	0.48	3.46	83.03
Prorocentrum micans	1.61	1.05	0.27	2.59	85.61
Unknown bluegreen sp.	0.83	1.04	0.49	2.55	88.16
Pyramimonas sp.	0.84	0.88	0.49	2.15	90.32

Group 75%Grp7

Average similarity: 39.79

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	6.29	10.62	2.88	26.68	26.68
Unknown diatom sp. D	6.79	8.71	1.42	21.89	48.57
Unknown diatom sp.	3.30	4.43	1.16	11.12	59.69
Thalassiosira sp.	3.51	3.76	0.95	9.46	69.15
Unknown Dinoflagellate sp.	3.01	3.75	0.91	9.43	78.58
Skeletonema costatum	3.34	2.45	0.54	6.15	84.73
Pyramimonas sp.	1.63	1.23	0.53	3.10	87.83
Peridinium sp.	1.80	1.06	0.41	2.67	90.50

Group 75%Grp6

Average similarity: 52.66

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	7.46	9.64	1.27	18.31	18.31
Unknown Cryptophyte sp.	5.10	8.88	3.17	16.87	35.18
Unknown diatom sp. D	6.13	7.74	2.11	14.70	49.88
Thalassiosira sp.	4.15	5.54	2.00	10.52	60.40
Nitzschia closterium	3.83	5.24	1.92	9.94	70.34
Unknown diatom sp.	3.67	5.01	1.68	9.51	79.85
Nitzschia pungens	2.56	2.48	0.79	4.70	84.55
Unknown Dinoflagellate sp.	2.35	2.27	0.87	4.32	88.87
Chaetoceros sp.	2.39	1.99	0.71	3.79	92.66

Group 75%Grp5

Average similarity: 57.63

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	7.43	9.86	#####	17.11	17.11

Unknown Dinoflagellate sp.	9.23	9.06	#####	15.73	32.83
Skeletonema costatum	5.96	8.19	#####	14.21	47.04
Thalassiosira sp.	4.72	6.89	#####	11.95	58.99
Unknown diatom sp. D	8.36	6.89	#####	11.95	70.94
Nitzschia closterium	4.12	5.79	#####	10.05	80.99
Unknown diatom sp.	4.70	5.48	#####	9.50	90.50

Group 75%Grp8

Average similarity: 28.35

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Unknown pennate diatom sp.	2.07	6.67	1.24	23.52	23.52
Skeletonema costatum	3.27	4.38	0.72	15.47	38.99
Scenedesmus quadricauda	1.15	2.04	0.64	7.21	46.20
Cyclotella sp.	1.76	1.88	0.39	6.62	52.82
Gymnodinium sp.	1.01	1.85	0.63	6.53	59.34
Schroederia setigera	1.04	1.79	0.63	6.32	65.67
Cyclotella sp. (small)	1.79	1.71	0.34	6.03	71.70
Eutreptia sp.	0.88	1.57	0.53	5.54	77.23
Scenedesmus bijinga	0.90	1.23	0.43	4.33	81.56
Nitzschia longissima	0.78	1.15	0.53	4.04	85.60
Cyclotella sp. (large)	1.45	0.93	0.26	3.28	88.88
Akistrodesmus falcatus	0.64	0.69	0.34	2.42	91.30

Group 75%Grp10

Average similarity: 37.59

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	3.94	15.57	2.21	41.42	41.42
Chaetoceros subtilis	2.19	7.39	0.93	19.67	61.10
Peridinium aciculiferum	1.12	2.35	0.49	6.26	67.35
Thalassiosira pseudonana	0.90	1.33	0.46	3.53	70.88
Nitzschia longissima	0.75	1.31	0.54	3.48	74.36
Nitzschia closterium	0.79	1.20	0.55	3.19	77.55
Unknown pennate diatom sp.	0.75	1.17	0.47	3.11	80.66
Thalassiosira sp.	0.84	1.07	0.38	2.85	83.51
Chaetoceros socialis	0.70	0.90	0.40	2.40	85.92
Eutreptia sp.	0.58	0.69	0.40	1.84	87.75
Leptocylindricus minimum	0.80	0.68	0.34	1.82	89.57
Schizothrix sp.	1.06	0.61	0.28	1.63	91.20

Group 75%Grp12

Average similarity: 38.12

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	4.06	13.46	4.42	35.32	35.32
Chaetoceros subtilis	2.80	7.32	1.24	19.20	54.52
Schroederia setigera	1.25	3.07	1.01	8.07	62.58
Nitzschia longissima	0.91	2.21	0.77	5.81	68.39
Peridinium aciculiferum	1.07	1.39	0.41	3.65	72.04
Cyclotella sp. (small)	1.40	1.38	0.35	3.62	75.66
Gymnodinium sp.	1.06	1.37	0.48	3.60	79.27
Thalassiosira pseudonana	1.15	1.26	0.37	3.30	82.57
Scenedesmus quadracauda	0.73	1.01	0.43	2.64	85.20
Unknown pennate diatom sp.	0.72	0.89	0.36	2.34	87.55
Thalassiosira decipiens	0.59	0.68	0.37	1.78	89.32
Gonyaulax polygramma	0.53	0.63	0.36	1.66	90.98

Group 75%Grp13

Average similarity: 33.11

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	5.90	14.96	1.53	45.19	45.19
Prorocentrum minimum	1.59	2.21	0.67	6.67	51.86
Eutreptia sp.	1.43	2.17	0.68	6.54	58.40
Thalassiosira pseudonana	1.56	1.71	0.46	5.16	63.56
Schroederia setigera	0.82	1.29	0.53	3.91	67.46
Nitzschia longissima	0.74	1.14	0.57	3.45	70.91
Thalassiosira sp.	1.38	1.10	0.36	3.32	74.23
Peridinium aciculiferum	0.84	1.01	0.46	3.04	77.27
Chaetoceros subtilis	0.83	0.88	0.36	2.65	79.92
Thalassiosira decipiens	0.84	0.83	0.45	2.51	82.43
Nitzschia closterium	0.62	0.78	0.52	2.36	84.79
Unknown pennate diatom sp.	0.81	0.76	0.34	2.28	87.07
Scrippsiella sp.	0.59	0.59	0.35	1.78	88.85
Gymnodinium sp.	0.53	0.44	0.36	1.33	90.19

Group 75%Grp9

Average similarity: 29.08

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
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Skeletonema costatum	5.07	7.71	1.12	26.52	26.52
Thalassionema nitzschoides	1.63	2.24	0.59	7.69	34.21
Ceratulina bergonii	1.39	2.14	0.78	7.36	41.57
Leptocylicus minimum	1.63	1.82	0.76	6.27	47.84
Schizothrix sp.	2.14	1.49	0.35	5.12	52.95
Chaetoceros neogracile	1.24	1.34	0.66	4.62	57.57
Prorocentrum micans	0.97	1.31	0.64	4.49	62.06
Unknown pennate diatom sp.	1.09	1.30	0.50	4.48	66.54
Chaetoceros socialis	1.47	1.07	0.47	3.67	70.21
Nitzschia closterium	1.37	1.07	0.51	3.66	73.87
Rhizosolenia setigera	0.93	0.97	0.46	3.34	77.21
Ceratium hircus	0.73	0.71	0.47	2.45	79.66
Nitzschia pungens	1.11	0.70	0.40	2.41	82.07
Prorocentrum minimum	0.72	0.66	0.55	2.26	84.33
Thalassiosira sp.	0.93	0.64	0.36	2.22	86.55
Thalassiosira decipiens	0.64	0.54	0.32	1.86	88.40
Nitzschia longissima	0.64	0.53	0.49	1.84	90.24

Group 75%Grp11

Average similarity: 33.88

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	4.09	16.36	2.26	48.29	48.29
Nitzschia closterium	1.55	4.56	1.37	13.46	61.75
Peridinium aciculiferum	0.79	1.70	0.41	5.01	66.76
Leptocylicus minimum	0.93	1.60	0.49	4.73	71.48
Chaetoceros socialis	0.99	1.52	0.51	4.49	75.98
Chaetoceros subtilis	0.83	1.30	0.33	3.85	79.83
Unknown pennate diatom sp.	0.84	1.11	0.44	3.28	83.11
Nitzschia longissima	0.53	0.91	0.43	2.68	85.78
Rhizosolenia setigera	0.54	0.72	0.34	2.11	87.90
Chaetoceros neogracile	0.63	0.67	0.36	1.98	89.87
Thalassiosira pseudonana	0.51	0.46	0.30	1.35	91.23

Group 75%Grp1

Average similarity: 46.53

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Cryptomonas sp.1	3.26	10.93	3.00	23.49	23.49
Synechocystis aquaticus Sauvageau	3.49	10.46	1.16	22.48	45.97
Scenedesmus quadricauda v. Westii	2.19	4.92	1.02	10.57	56.54

Gonyaulax palustre	1.82	4.32	1.14	9.28	65.82
Spermatozoopsis exultans	1.79	4.04	0.97	8.67	74.49
Cryptomonas erosa	1.46	2.64	0.75	5.68	80.17
Chlymentomonas sp.	1.14	1.76	0.58	3.77	83.94
Cryptomonas ovata	1.01	1.56	0.53	3.35	87.30
Skeletonema costatum	1.15	1.43	0.42	3.07	90.37

Group 75%Grp3

Average similarity: 42.77

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	3.76	12.84	1.46	30.02	30.02
Cryptomonas sp.1	2.99	10.32	2.19	24.13	54.15
Synechocystis aquaticus Sauvageau	2.77	7.95	1.10	18.58	72.73
Chlymentomonas sp.	0.99	1.69	0.52	3.95	76.68
Spermatozoopsis exultans	0.77	1.09	0.45	2.55	79.23
Cryptomonas ovata	0.76	1.03	0.42	2.42	81.65
Peridinium cerasus	0.90	1.03	0.38	2.40	84.05
Eutreptiella sp.	0.78	1.00	0.42	2.34	86.39
Gymnodinium splendens	0.94	0.99	0.30	2.32	88.72
Gonyaulax palustre	0.72	0.93	0.41	2.16	90.88

Group 75%Grp2

Average similarity: 38.63

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	3.45	11.01	1.26	28.50	28.50
Cryptomonas sp.1	2.59	9.32	2.37	24.13	52.63
Synechocystis aquaticus Sauvageau	2.99	8.48	1.07	21.94	74.57
Gymnodinium simplex	1.01	1.81	0.55	4.68	79.25
Peridinium cerasus	0.87	1.14	0.43	2.96	82.22
Chlymentomonas sp.	0.80	1.12	0.45	2.89	85.11
Ceratium hircus	0.97	1.08	0.38	2.79	87.90
Eutreptiella sp.	0.69	0.92	0.40	2.38	90.28

Groups 75%Grp4 & 75%Grp7

Average dissimilarity = 67.08

Species	Group 75%Grp4	Group 75%Grp7	Av.Diss	Diss/SD	Contrib%	Cum.%
	Av.Abund	Av.Abund				

Unknown diatom sp. D	2.34	6.79	6.39	1.25	9.52	9.52
Unknown Cryptophyte sp.	4.79	6.29	4.43	1.25	6.60	16.13
Skeletonema costatum	0.16	3.34	4.13	0.84	6.16	22.29
Thalassiosira sp.	2.01	3.51	3.40	1.00	5.06	27.35
Unknown Dinoflagellate sp.	1.73	3.01	3.35	1.27	4.99	32.34
Unknown diatom sp.	3.09	3.30	2.62	1.25	3.90	36.24
Prorocentrum micans	1.61	0.34	2.49	0.60	3.71	39.95
Prorocentrum minimum	0.16	1.60	2.33	0.37	3.47	43.43
Peridinium sp.	0.00	1.80	2.14	0.75	3.19	46.61
Pyramimonas sp.	0.84	1.63	2.08	1.19	3.10	49.72
Scenedesmus sp.	1.47	0.60	2.02	1.15	3.01	52.73
Eutreptia sp.	0.37	1.21	1.89	0.59	2.81	55.54
Skeletonema menezelli	0.14	1.46	1.76	0.37	2.62	58.16
Navicula sp. small	1.23	0.21	1.72	0.87	2.57	60.73
Nitzschia pungens	0.80	0.82	1.56	0.92	2.32	63.05
Chaetoceros sp.	0.13	1.28	1.50	0.64	2.24	65.29
Prorocentrum sp.	0.45	0.77	1.42	0.48	2.11	67.40
Coscinodiscus sp.	0.83	0.28	1.34	0.65	1.99	69.39
Unknown bluegreen sp.	0.83	0.33	1.33	0.89	1.98	71.37
Leptocylicus minimum	0.61	0.72	1.28	0.85	1.91	73.28
Nitzschia closterium	0.20	0.92	1.26	0.70	1.88	75.16
Eutreptiella sp.	0.35	0.69	1.24	0.46	1.85	77.01
Navicula sp. large	0.66	0.47	1.23	0.77	1.84	78.85
Tetraedron sp.	0.82	0.30	1.19	0.79	1.77	80.62
Akistrodesmus sp.	0.76	0.33	1.17	0.64	1.74	82.36
Leptocylicus danicus	0.27	0.65	1.01	0.50	1.50	83.86
Prorocentrum redfieldi	0.40	0.41	0.93	0.35	1.38	85.24
Unknown Katodinium sp.	0.11	0.54	0.89	0.33	1.33	86.57
Unknown diatom sp. A	0.20	0.52	0.80	0.42	1.19	87.75
Glenodinium sp.	0.13	0.50	0.75	0.37	1.11	88.87
Aphanocapsa sp.	0.36	0.36	0.73	0.51	1.09	89.96
Chaetoceros gracile	0.00	0.51	0.59	0.29	0.87	90.83

Groups 75%Grp4 & 75%Grp6

Average dissimilarity = 67.00

Species	Group 75%Grp4 Av.Abund	Group 75%Grp6 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	0.16	7.46	8.99	1.69	13.42	13.42
Unknown diatom sp. D	2.34	6.13	4.88	1.28	7.29	20.70
Nitzschia closterium	0.20	3.83	4.39	2.19	6.55	27.26
Unknown Cryptophyte sp.	4.79	5.10	3.31	1.28	4.94	32.20

Thalassiosira sp.	2.01	4.15	2.96	1.67	4.42	36.62
Nitzschia pungens	0.80	2.56	2.82	1.34	4.20	40.83
Chaetoceros sp.	0.13	2.39	2.70	1.13	4.03	44.86
Unknown Dinoflagellate sp.	1.73	2.35	2.50	1.29	3.72	48.58
Prorocentrum micans	1.61	0.32	2.22	0.61	3.32	51.90
Unknown diatom sp.	3.09	3.67	2.19	1.19	3.26	55.16
Skeletonema menezelli	0.14	2.03	2.17	0.43	3.24	58.40
Pyramimonas sp.	0.84	1.39	1.87	1.05	2.79	61.19
Leptocylicus minimum	0.61	1.46	1.82	0.96	2.72	63.91
Scenedesmus sp.	1.47	0.27	1.81	1.12	2.70	66.61
Navicula sp. small	1.23	0.46	1.75	0.90	2.61	69.23
Navicula sp. large	0.66	0.73	1.28	0.87	1.92	71.14
Thalassionema nitzschoides	0.35	0.96	1.20	0.77	1.79	72.94
Unknown bluegreen sp.	0.83	0.36	1.14	0.96	1.70	74.64
Peridinium sp.	0.00	1.06	1.12	0.58	1.68	76.31
Coscinodiscus sp.	0.83	0.12	1.10	0.60	1.64	77.95
Akistrodesmus sp.	0.76	0.28	1.08	0.62	1.62	79.57
Prorocentrum sp.	0.45	0.58	1.06	0.56	1.59	81.15
Leptocylicus danicus	0.27	0.69	1.05	0.65	1.56	82.72
Tetraedron sp.	0.82	0.12	1.02	0.75	1.52	84.24
Ceratium hircus	0.00	0.95	0.97	0.48	1.45	85.69
Unknown diatom sp. A	0.20	0.58	0.82	0.50	1.23	86.92
Rhizosolenia setigera	0.00	0.77	0.82	0.59	1.23	88.15
Aphanocapsa sp.	0.36	0.40	0.69	0.53	1.04	89.18
Nitzschia sp.	0.38	0.10	0.57	0.42	0.85	90.03

Groups 75%Grp7 & 75%Grp6

Average dissimilarity = 57.75

Species	Group 75%Grp7 Av.Abund	Group 75%Grp6 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.34	7.46	6.15	1.41	10.65	10.65
Unknown diatom sp. D	6.79	6.13	4.58	1.22	7.92	18.58
Nitzschia closterium	0.92	3.83	3.17	1.69	5.48	24.06
Thalassiosira sp.	3.51	4.15	2.91	1.05	5.04	29.10
Skeletonema menezelli	1.46	2.03	2.78	0.52	4.82	33.92
Unknown Dinoflagellate sp.	3.01	2.35	2.53	1.22	4.38	38.30
Nitzschia pungens	0.82	2.56	2.46	1.24	4.27	42.56
Chaetoceros sp.	1.28	2.39	2.44	1.17	4.23	46.79
Unknown Cryptophyte sp.	6.29	5.10	2.36	1.04	4.09	50.88
Unknown diatom sp.	3.30	3.67	2.19	1.12	3.80	54.68
Peridinium sp.	1.80	1.06	2.03	0.90	3.51	58.19

Pyramimonas sp.	1.63	1.39	1.87	1.09	3.23	61.43
Prorocentrum minimum	1.60	0.16	1.84	0.37	3.18	64.61
Leptocylicus minimum	0.72	1.46	1.58	0.89	2.73	67.34
Eutreptia sp.	1.21	0.08	1.31	0.52	2.26	69.60
Prorocentrum sp.	0.77	0.58	1.17	0.50	2.02	71.62
Leptocylicus danicus	0.65	0.69	1.12	0.62	1.94	73.56
Ceratium hircus	0.36	0.95	1.07	0.59	1.85	75.41
Navicula sp. large	0.47	0.73	0.97	0.73	1.68	77.09
Rhizosolenia setigera	0.51	0.77	0.96	0.75	1.66	78.75
Unknown diatom sp. A	0.52	0.58	0.93	0.53	1.60	80.35
Thalassionema nitzschoides	0.14	0.96	0.91	0.63	1.57	81.92
Eutreptiella sp.	0.69	0.12	0.81	0.37	1.41	83.33
Chaetoceros gracile	0.51	0.36	0.80	0.35	1.38	84.71
Scenedesmus sp.	0.60	0.27	0.78	0.52	1.34	86.05
Unknown Katodinium sp.	0.54	0.10	0.71	0.33	1.22	87.27
Navicula sp. small	0.21	0.46	0.62	0.46	1.08	88.36
Unknown bluegreen sp.	0.33	0.36	0.59	0.50	1.03	89.38
Prorocentrum micans	0.34	0.32	0.59	0.38	1.02	90.40

Groups 75%Grp4 & 75%Grp5

Average dissimilarity = 66.09

Species	Group 75%Grp4 Av.Abund	Group 75%Grp5 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	1.73	9.23	9.08	1.51	13.74	13.74
Skeletonema costatum	0.16	5.96	6.28	5.07	9.50	23.24
Unknown diatom sp. D	2.34	8.36	5.86	1.71	8.87	32.11
Nitzschia closterium	0.20	4.12	4.45	2.59	6.73	38.84
Unknown Cryptophyte sp.	4.79	7.43	3.82	1.90	5.78	44.62
Pyramimonas sp.	0.84	3.83	3.28	2.42	4.97	49.59
Thalassiosira sp.	2.01	4.72	2.98	2.15	4.51	54.10
Chaetoceros sp.	0.13	3.08	2.70	1.01	4.09	58.19
Gymnodinium sp.	0.09	2.63	2.30	1.02	3.49	61.67
Nitzschia pungens	0.80	2.29	2.17	1.32	3.28	64.95
Unknown diatom sp.	3.09	4.70	1.92	1.45	2.90	67.85
Prorocentrum micans	1.61	0.00	1.83	0.55	2.77	70.62
Leptocylicus minimum	0.61	1.88	1.77	1.23	2.68	73.30
Scenedesmus sp.	1.47	0.00	1.55	1.10	2.34	75.64
Prorocentrum sp.	0.45	1.50	1.47	0.98	2.23	77.87
Navicula sp. small	1.23	0.00	1.36	0.81	2.06	79.93
Peridinium sp.	0.00	1.50	1.30	0.98	1.97	81.90
Navicula sp. large	0.66	1.26	1.26	1.03	1.91	83.80

Leptocylindricus danicus	0.27	1.26	1.17	1.01	1.76	85.57
Rhizosolenia setigera	0.00	1.26	1.09	0.98	1.65	87.22
Coscinodiscus sp.	0.83	0.00	0.91	0.56	1.38	88.60
Unknown bluegreen sp.	0.83	0.00	0.91	0.86	1.38	89.98
Tetraedron sp.	0.82	0.00	0.83	0.71	1.26	91.24

Groups 75%Grp7 & 75%Grp5

Average dissimilarity = 52.16

Species	Group 75%Grp7 Av.Abund	Group 75%Grp5 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	3.01	9.23	6.51	1.31	12.49	12.49
Unknown diatom sp. D	6.79	8.36	4.38	1.34	8.41	20.89
Skeletonema costatum	3.34	5.96	3.82	1.54	7.33	28.22
Nitzschia closterium	0.92	4.12	3.12	1.82	5.99	34.21
Chaetoceros sp.	1.28	3.08	2.57	1.13	4.93	39.14
Thalassiosira sp.	3.51	4.72	2.48	1.07	4.75	43.89
Pyramimonas sp.	1.63	3.83	2.26	1.33	4.33	48.22
Unknown Cryptophyte sp.	6.29	7.43	2.21	1.28	4.24	52.46
Gymnodinium sp.	0.15	2.63	2.02	1.00	3.88	56.34
Unknown diatom sp.	3.30	4.70	1.93	1.18	3.71	60.04
Nitzschia pungens	0.82	2.29	1.90	1.12	3.64	63.69
Peridinium sp.	1.80	1.50	1.83	1.00	3.50	67.19
Leptocylindricus minimum	0.72	1.88	1.55	1.08	2.97	70.15
Prorocentrum minimum	1.60	0.00	1.53	0.34	2.93	73.09
Prorocentrum sp.	0.77	1.50	1.52	0.81	2.91	76.00
Leptocylindricus danicus	0.65	1.26	1.26	0.90	2.41	78.41
Skeletonema menezelli	1.46	0.00	1.19	0.33	2.29	80.70
Eutreptia sp.	1.21	0.00	1.12	0.48	2.15	82.85
Navicula sp. large	0.47	1.26	1.08	0.99	2.07	84.91
Rhizosolenia setigera	0.51	1.26	1.07	1.03	2.05	86.96
Eutreptiella sp.	0.69	0.00	0.65	0.33	1.24	88.21
Unknown Katodinium sp.	0.54	0.00	0.53	0.28	1.02	89.23
Scenedesmus sp.	0.60	0.00	0.52	0.44	1.00	90.23

Groups 75%Grp6 & 75%Grp5

Average dissimilarity = 44.33

Species	Group 75%Grp6 Av.Abund	Group 75%Grp5 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	2.35	9.23	6.86	1.42	15.47	15.47

Unknown diatom sp. D	6.13	8.36	3.80	1.37	8.58	24.06
Skeletonema costatum	7.46	5.96	3.44	1.58	7.76	31.82
Chaetoceros sp.	2.39	3.08	2.59	1.33	5.85	37.67
Pyramimonas sp.	1.39	3.83	2.29	1.73	5.17	42.84
Nitzschia pungens	2.56	2.29	2.17	1.21	4.90	47.74
Unknown Cryptophyte sp.	5.10	7.43	2.15	2.64	4.84	52.58
Gymnodinium sp.	0.22	2.63	1.95	1.01	4.40	56.98
Leptocylindricus minimum	1.46	1.88	1.69	1.09	3.82	60.80
Unknown diatom sp.	3.67	4.70	1.56	1.13	3.52	64.32
Skeletonema menezelli	2.03	0.00	1.54	0.40	3.48	67.80
Peridinium sp.	1.06	1.50	1.39	1.00	3.14	70.94
Thalassiosira sp.	4.15	4.72	1.36	0.88	3.06	74.00
Nitzschia closterium	3.83	4.12	1.31	1.10	2.96	76.96
Prorocentrum sp.	0.58	1.50	1.25	0.98	2.82	79.78
Leptocylindricus danicus	0.69	1.26	1.11	0.99	2.51	82.29
Rhizosolenia setigera	0.77	1.26	1.10	1.02	2.47	84.77
Navicula sp. large	0.73	1.26	1.09	1.03	2.45	87.22
Thalassionema nitzschoides	0.96	0.00	0.74	0.58	1.67	88.88
Ceratium hircus	0.95	0.00	0.73	0.48	1.64	90.53

Groups 75%Grp4 & 75%Grp8

Average dissimilarity = 97.87

Species	Group 75%Grp4 Av.Abund	Group 75%Grp8 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	9.39	1.54	9.59	9.59
Unknown diatom sp.	3.09	0.00	5.96	2.27	6.09	15.69
Skeletonema costatum	0.16	3.27	5.48	0.94	5.60	21.28
Unknown diatom sp. D	2.34	0.00	4.41	1.52	4.50	25.79
Unknown pennate diatom sp.	0.00	2.07	3.98	1.75	4.07	29.86
Thalassiosira sp.	2.01	0.10	3.74	1.73	3.83	33.68
Unknown Dinoflagellate sp.	1.73	0.00	3.44	0.96	3.51	37.20
Prorocentrum micans	1.61	0.00	3.38	0.54	3.45	40.65
Cyclotella sp. (small)	0.00	1.79	3.28	0.70	3.35	44.00
Cyclotella sp.	0.00	1.76	3.26	0.73	3.33	47.33
Scenedesmus sp.	1.47	0.26	2.63	1.14	2.69	50.02
Cyclotella sp. (large)	0.00	1.45	2.57	0.59	2.62	52.64
Navicula sp. small	1.23	0.00	2.45	0.83	2.50	55.14
Scenedesmus quadracauda	0.00	1.15	2.08	1.08	2.12	57.26
Eutreptia sp.	0.37	0.88	2.01	0.95	2.06	59.32
Gymnodinium sp.	0.09	1.01	1.90	1.01	1.94	61.26
Schroederia setigera	0.00	1.04	1.86	1.05	1.90	63.16

Thalassiosira pseudonana	0.00	1.05	1.84	0.55	1.88	65.03
Unknown bluegreen sp.	0.83	0.00	1.63	0.87	1.67	66.70
Coscinodiscus sp.	0.83	0.00	1.63	0.57	1.67	68.37
Scenedesmus bijinga	0.00	0.90	1.62	0.83	1.66	70.03
Thalassiosira decipiens	0.00	0.91	1.55	0.49	1.59	71.61
Pyramimonas sp.	0.84	0.00	1.52	0.82	1.56	73.17
Nitzschia pungens	0.80	0.00	1.49	0.77	1.52	74.69
Tetraedron sp.	0.82	0.08	1.43	0.77	1.47	76.16
Navicula sp. large	0.66	0.00	1.40	0.63	1.43	77.59
Nitzschia longissima	0.00	0.78	1.37	0.94	1.40	78.99
Akistrodesmus sp.	0.76	0.00	1.30	0.57	1.33	80.32
Leptocylicus minimum	0.61	0.00	1.17	0.64	1.20	81.52
Akistrodesmus falcatus	0.00	0.64	1.17	0.69	1.19	82.71
Nitzschia sp.	0.38	0.09	0.96	0.46	0.98	83.69
Melosira sp.	0.20	0.36	0.91	0.56	0.93	84.62
Prorocentrum sp.	0.45	0.00	0.87	0.38	0.89	85.51
Bluegreen filamentous sp.	0.00	0.41	0.81	0.61	0.83	86.34
Chaetoceros subtilis	0.00	0.44	0.77	0.50	0.79	87.12
Crucigenia sp.	0.21	0.22	0.77	0.64	0.78	87.91
Prorocentrum redfieldi	0.40	0.00	0.70	0.36	0.72	88.62
Cyclotella meneghiniana	0.00	0.40	0.63	0.27	0.65	89.27
Thalassionema nitzschoides	0.35	0.00	0.63	0.48	0.64	89.91
Eutreptiella sp.	0.35	0.00	0.62	0.38	0.64	90.55

Groups 75%Grp7 & 75%Grp8

Average dissimilarity = 95.46

Species	Group 75%Grp7 Av.Abund	Group 75%Grp8 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	9.60	1.54	10.06	10.06
Unknown Cryptophyte sp.	6.29	0.00	9.35	2.17	9.79	19.85
Skeletonema costatum	3.34	3.27	5.71	1.06	5.98	25.83
Thalassiosira sp.	3.51	0.10	4.92	1.05	5.15	30.99
Unknown diatom sp.	3.30	0.00	4.66	1.60	4.88	35.87
Unknown Dinoflagellate sp.	3.01	0.00	4.52	1.21	4.74	40.61
Unknown pennate diatom sp.	0.00	2.07	3.08	1.70	3.23	43.83
Prorocentrum minimum	1.60	0.16	2.67	0.37	2.79	46.63
Cyclotella sp. (small)	0.00	1.79	2.57	0.68	2.69	49.32
Cyclotella sp.	0.00	1.76	2.54	0.71	2.66	51.98
Eutreptia sp.	1.21	0.88	2.51	0.81	2.63	54.61
Peridinium sp.	1.80	0.00	2.37	0.74	2.48	57.09
Pyramimonas sp.	1.63	0.00	2.15	0.92	2.26	59.35

Cyclotella sp. (large)	0.00	1.45	2.03	0.57	2.12	61.47
Skeletonema menezelli	1.46	0.00	1.77	0.34	1.86	63.33
Scenedesmus quadricauda	0.00	1.15	1.63	1.04	1.71	65.04
Chaetoceros sp.	1.28	0.00	1.58	0.60	1.66	66.70
Gymnodinium sp.	0.15	1.01	1.56	0.99	1.64	68.33
Schroederia setigera	0.00	1.04	1.46	1.03	1.53	69.86
Thalassiosira pseudonana	0.00	1.05	1.45	0.54	1.52	71.38
Nitzschia closterium	0.92	0.08	1.36	0.70	1.43	72.81
Scenedesmus bijinga	0.00	0.90	1.27	0.82	1.33	74.15
Thalassiosira decipiens	0.00	0.91	1.24	0.48	1.29	75.44
Nitzschia pungens	0.82	0.00	1.12	0.55	1.18	76.62
Nitzschia longissima	0.00	0.78	1.08	0.92	1.13	77.75
Prorocentrum sp.	0.77	0.00	1.08	0.33	1.13	78.88
Eutreptiella sp.	0.69	0.00	1.07	0.35	1.12	80.00
Scenedesmus sp.	0.60	0.26	1.05	0.57	1.10	81.09
Akistrodesmus falcatus	0.00	0.64	0.91	0.68	0.96	82.05
Unknown Katodinium sp.	0.54	0.00	0.89	0.28	0.94	82.99
Leptocylicus minimum	0.72	0.00	0.88	0.54	0.92	83.91
Chaetoceros subtilis	0.16	0.44	0.76	0.47	0.80	84.70
Leptocylicus danicus	0.65	0.00	0.75	0.35	0.78	85.49
Glenodinium sp.	0.50	0.00	0.67	0.30	0.71	86.19
Navicula sp. large	0.47	0.00	0.66	0.44	0.69	86.88
Chaetoceros gracile	0.51	0.00	0.65	0.29	0.68	87.56
Unknown diatom sp. A	0.52	0.00	0.64	0.33	0.67	88.23
Bluegreen filamentous sp.	0.00	0.41	0.62	0.60	0.65	88.89
Rhizosolenia setigera	0.51	0.00	0.61	0.48	0.64	89.53
Melosira sp.	0.00	0.36	0.53	0.48	0.55	90.08

Groups 75%Grp6 & 75%Grp8

Average dissimilarity = 93.13

Species	Group 75%Grp6 Av.Abund	Group 75%Grp8 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	7.46	3.27	8.28	1.41	8.89	8.89
Unknown diatom sp. D	6.13	0.00	8.01	1.92	8.60	17.49
Unknown Cryptophyte sp.	5.10	0.00	7.33	2.25	7.87	25.35
Thalassiosira sp.	4.15	0.10	5.16	2.41	5.54	30.90
Nitzschia closterium	3.83	0.08	4.94	2.35	5.30	36.20
Unknown diatom sp.	3.67	0.00	4.84	2.14	5.20	41.40
Nitzschia pungens	2.56	0.00	3.40	1.23	3.65	45.05
Unknown Dinoflagellate sp.	2.35	0.00	3.01	1.29	3.23	48.28
Chaetoceros sp.	2.39	0.00	3.00	1.10	3.22	51.50

Unknown pennate diatom sp.	0.00	2.07	2.85	1.73	3.06	54.56
Cyclotella sp. (small)	0.00	1.79	2.38	0.67	2.56	57.12
Cyclotella sp.	0.00	1.76	2.36	0.71	2.53	59.65
Skeletonema menezelli	2.03	0.00	2.23	0.40	2.40	62.05
Pyramimonas sp.	1.39	0.00	1.95	0.78	2.10	64.14
Cyclotella sp. (large)	0.00	1.45	1.89	0.57	2.02	66.17
Leptocylindricus minimum	1.46	0.00	1.76	0.74	1.89	68.06
Scenedesmus quadracauda	0.00	1.15	1.52	1.04	1.63	69.68
Gymnodinium sp.	0.22	1.01	1.45	1.01	1.55	71.24
Schroederia setigera	0.00	1.04	1.36	1.03	1.46	72.69
Thalassiosira pseudonana	0.00	1.05	1.35	0.54	1.45	74.15
Eutreptia sp.	0.08	0.88	1.24	0.93	1.33	75.48
Peridinium sp.	1.06	0.00	1.23	0.57	1.32	76.80
Scenedesmus bijinga	0.00	0.90	1.18	0.82	1.27	78.07
Thalassiosira decipiens	0.00	0.91	1.15	0.48	1.24	79.31
Thalassionema nitzschoides	0.96	0.00	1.07	0.60	1.15	80.46
Ceratium hircus	0.95	0.00	1.06	0.48	1.14	81.60
Nitzschia longissima	0.00	0.78	1.01	0.92	1.08	82.69
Leptocylindricus danicus	0.69	0.00	0.95	0.52	1.02	83.71
Navicula sp. large	0.73	0.00	0.94	0.59	1.01	84.71
Rhizosolenia setigera	0.77	0.00	0.90	0.59	0.97	85.68
Akistrodesmus falcatus	0.00	0.64	0.85	0.68	0.91	86.59
Chaetoceros subtilis	0.27	0.44	0.83	0.48	0.89	87.48
Unknown diatom sp. A	0.58	0.00	0.72	0.42	0.78	88.26
Prorocentrum sp.	0.58	0.00	0.71	0.41	0.76	89.02
Scenedesmus sp.	0.27	0.26	0.65	0.46	0.70	89.72
Bluegreen filamentous sp.	0.00	0.41	0.58	0.60	0.62	90.34

Groups 75%Grp5 & 75%Grp8

Average dissimilarity = 92.80

Species	Group 75%Grp5 Av.Abund	Group 75%Grp8 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	12.20	1.71	13.15	13.15
Unknown diatom sp. D	8.36	0.00	9.08	3.49	9.78	22.93
Unknown Cryptophyte sp.	7.43	0.00	8.76	5.99	9.44	32.37
Thalassiosira sp.	4.72	0.10	5.56	3.89	6.00	38.36
Unknown diatom sp.	4.70	0.00	5.40	7.98	5.82	44.18
Nitzschia closterium	4.12	0.08	5.01	2.81	5.40	49.58
Skeletonema costatum	5.96	3.27	4.85	1.52	5.23	54.80
Pyramimonas sp.	3.83	0.00	4.59	4.57	4.94	59.75
Chaetoceros sp.	3.08	0.00	2.87	0.97	3.10	62.84

Gymnodinium sp.	2.63	1.01	2.72	1.51	2.93	65.78
Unknown pennate diatom sp.	0.00	2.07	2.47	1.76	2.66	68.43
Nitzschia pungens	2.29	0.00	2.14	0.97	2.30	70.74
Cyclotella sp. (small)	0.00	1.79	2.07	0.66	2.23	72.97
Cyclotella sp.	0.00	1.76	2.05	0.69	2.20	75.18
Leptocylicus minimum	1.88	0.00	1.75	0.97	1.89	77.07
Cyclotella sp. (large)	0.00	1.45	1.65	0.56	1.77	78.84
Prorocentrum sp.	1.50	0.00	1.39	0.97	1.50	80.34
Peridinium sp.	1.50	0.00	1.39	0.97	1.50	81.85
Scenedesmus quadracauda	0.00	1.15	1.32	1.03	1.42	83.27
Schroederia setigera	0.00	1.04	1.18	1.02	1.28	84.55
Thalassiosira pseudonana	0.00	1.05	1.18	0.53	1.27	85.82
Rhizosolenia setigera	1.26	0.00	1.17	0.97	1.26	87.08
Navicula sp. large	1.26	0.00	1.17	0.97	1.26	88.35
Leptocylicus danicus	1.26	0.00	1.17	0.97	1.26	89.61
Eutreptia sp.	0.00	0.88	1.05	0.91	1.13	90.75

Groups 75%Grp4 & 75%Grp10

Average dissimilarity = 94.56

Species	Group 75%Grp4 Av.Abund	Group 75%Grp10 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	9.62	1.56	10.18	10.18
Skeletonema costatum	0.16	3.94	7.53	2.54	7.96	18.14
Unknown diatom sp.	3.09	0.00	6.11	2.33	6.46	24.59
Chaetoceros subtilis	0.00	2.19	4.72	1.24	4.99	29.58
Unknown diatom sp. D	2.34	0.00	4.51	1.54	4.77	34.35
Prorocentrum micans	1.61	0.24	3.60	0.59	3.81	38.16
Unknown Dinoflagellate sp.	1.73	0.00	3.52	0.97	3.73	41.89
Thalassiosira sp.	2.01	0.84	3.22	1.41	3.41	45.30
Scenedesmus sp.	1.47	0.07	2.72	1.14	2.87	48.17
Navicula sp. small	1.23	0.00	2.51	0.84	2.65	50.82
Peridinium aciculiferum	0.00	1.12	2.37	0.85	2.50	53.33
Leptocylicus minimum	0.61	0.80	1.89	0.93	2.00	55.33
Schizothrix sp.	0.00	1.06	1.78	0.56	1.88	57.21
Nitzschia pungens	0.80	0.45	1.77	0.93	1.87	59.08
Thalassiosira pseudonana	0.00	0.90	1.70	0.83	1.79	60.87
Unknown bluegreen sp.	0.83	0.00	1.67	0.88	1.77	62.64
Coscinodiscus sp.	0.83	0.00	1.67	0.57	1.77	64.41
Nitzschia closterium	0.20	0.79	1.61	0.92	1.70	66.11
Pyramimonas sp.	0.84	0.00	1.56	0.83	1.65	67.76
Eutreptia sp.	0.37	0.58	1.53	0.72	1.62	69.38

Navicula sp. large	0.66	0.00	1.43	0.63	1.51	70.90
Tetraedron sp.	0.82	0.00	1.43	0.74	1.51	72.41
Nitzschia longissima	0.00	0.75	1.40	0.93	1.48	73.89
Unknown pennate diatom sp.	0.00	0.75	1.38	0.86	1.46	75.36
Akistrodesmus sp.	0.76	0.05	1.38	0.60	1.46	76.81
Chaetoceros socialis	0.00	0.70	1.28	0.76	1.36	78.17
Schroederia setigera	0.00	0.53	1.08	0.62	1.15	79.32
Thalassionema nitzschoides	0.35	0.32	0.99	0.67	1.04	80.36
Nitzschia sp.	0.38	0.11	0.96	0.47	1.02	81.38
Prorocentrum sp.	0.45	0.00	0.89	0.38	0.94	82.32
Prorocentrum minimum	0.16	0.38	0.86	0.61	0.90	83.22
Leptocylicus danicus	0.27	0.18	0.84	0.49	0.89	84.11
Gymnodinium sp.	0.09	0.37	0.82	0.61	0.87	84.98
Cyclotella sp.	0.00	0.45	0.78	0.49	0.82	85.80
Cyclotella sp. (small)	0.00	0.35	0.75	0.32	0.79	86.59
Ceratulina bergonii	0.00	0.40	0.72	0.45	0.76	87.36
Prorocentrum redfieldi	0.40	0.00	0.72	0.36	0.76	88.12
Chaetoceros neogracile	0.00	0.39	0.65	0.55	0.69	88.80
Eutreptiella sp.	0.35	0.00	0.64	0.39	0.67	89.48
Gonyaulax monilata	0.00	0.33	0.60	0.47	0.64	90.11

Groups 75%Grp7 & 75%Grp10

Average dissimilarity = 89.96

Species	Group 75%Grp7 Av.Abund	Group 75%Grp10 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	9.79	1.55	10.88	10.88
Unknown Cryptophyte sp.	6.29	0.00	9.54	2.20	10.60	21.49
Skeletonema costatum	3.34	3.94	5.21	1.34	5.79	27.28
Unknown diatom sp.	3.30	0.00	4.75	1.61	5.28	32.56
Unknown Dinoflagellate sp.	3.01	0.00	4.62	1.22	5.13	37.69
Thalassiosira sp.	3.51	0.84	4.58	1.02	5.09	42.78
Chaetoceros subtilis	0.16	2.19	3.64	1.23	4.04	46.82
Prorocentrum minimum	1.60	0.38	2.88	0.40	3.20	50.03
Peridinium sp.	1.80	0.20	2.50	0.80	2.78	52.81
Eutreptia sp.	1.21	0.58	2.27	0.67	2.53	55.33
Pyramimonas sp.	1.63	0.00	2.19	0.92	2.44	57.77
Skeletonema menezelli	1.46	0.00	1.80	0.34	2.00	59.78
Peridinium aciculiferum	0.00	1.12	1.80	0.83	2.00	61.78
Nitzschia closterium	0.92	0.79	1.80	1.04	2.00	63.78
Chaetoceros sp.	1.28	0.12	1.69	0.65	1.88	65.66
Leptocylicus minimum	0.72	0.80	1.56	0.86	1.73	67.39

Schizothrix sp.	0.11	1.06	1.50	0.57	1.67	69.05
Nitzschia pungens	0.82	0.45	1.48	0.74	1.64	70.69
Thalassiosira pseudonana	0.00	0.90	1.33	0.81	1.47	72.17
Prorocentrum sp.	0.77	0.00	1.10	0.33	1.22	73.39
Nitzschia longissima	0.00	0.75	1.10	0.91	1.22	74.60
Eutreptiella sp.	0.69	0.00	1.09	0.35	1.21	75.82
Unknown pennate diatom sp.	0.00	0.75	1.08	0.84	1.21	77.02
Chaetoceros socialis	0.00	0.70	1.01	0.75	1.12	78.14
Leptocylicus danicus	0.65	0.18	0.95	0.44	1.06	79.20
Unknown Katodinium sp.	0.54	0.00	0.91	0.28	1.02	80.21
Rhizosolenia setigera	0.51	0.28	0.89	0.67	0.99	81.20
Scenedesmus sp.	0.60	0.07	0.88	0.48	0.98	82.19
Schroederia setigera	0.00	0.53	0.83	0.60	0.92	83.11
Prorocentrum micans	0.34	0.24	0.81	0.37	0.90	84.01
Ceratium hircus	0.36	0.22	0.74	0.44	0.83	84.83
Gymnodinium sp.	0.15	0.37	0.70	0.58	0.78	85.61
Glenodinium sp.	0.50	0.00	0.69	0.30	0.76	86.37
Navicula sp. large	0.47	0.00	0.67	0.44	0.75	87.12
Chaetoceros gracile	0.51	0.00	0.66	0.29	0.73	87.85
Unknown diatom sp. A	0.52	0.00	0.65	0.33	0.72	88.57
Cyclotella sp.	0.00	0.45	0.62	0.48	0.69	89.26
Cyclotella sp. (small)	0.00	0.35	0.57	0.32	0.63	89.89
Ceratulina bergonii	0.00	0.40	0.57	0.44	0.63	90.52

Groups 75%Grp6 & 75%Grp10

Average dissimilarity = 84.30

Species	Group 75%Grp6 Av.Abund	Group 75%Grp10 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.13	0.00	8.16	1.94	9.68	9.68
Unknown Cryptophyte sp.	5.10	0.00	7.47	2.28	8.87	18.54
Skeletonema costatum	7.46	3.94	6.84	1.59	8.11	26.65
Unknown diatom sp.	3.67	0.00	4.93	2.17	5.85	32.51
Thalassiosira sp.	4.15	0.84	4.52	1.96	5.36	37.86
Nitzschia closterium	3.83	0.79	4.32	1.92	5.13	42.99
Chaetoceros subtilis	0.27	2.19	3.38	1.26	4.01	47.00
Nitzschia pungens	2.56	0.45	3.31	1.27	3.92	50.92
Unknown Dinoflagellate sp.	2.35	0.00	3.07	1.30	3.64	54.55
Chaetoceros sp.	2.39	0.12	3.04	1.13	3.60	58.16
Skeletonema menezelli	2.03	0.00	2.27	0.40	2.69	60.85
Leptocylicus minimum	1.46	0.80	2.11	0.96	2.50	63.35
Pyramimonas sp.	1.39	0.00	1.99	0.79	2.36	65.71

Peridinium aciculiferum	0.00	1.12	1.66	0.84	1.96	67.68
Peridinium sp.	1.06	0.20	1.39	0.66	1.65	69.33
Schizothrix sp.	0.00	1.06	1.32	0.54	1.57	70.90
Thalassionema nitzschoides	0.96	0.32	1.30	0.75	1.54	72.44
Ceratium hircus	0.95	0.22	1.26	0.56	1.50	73.94
Thalassiosira pseudonana	0.00	0.90	1.23	0.81	1.46	75.40
Rhizosolenia setigera	0.77	0.28	1.11	0.74	1.31	76.71
Leptocylindricus danicus	0.69	0.18	1.09	0.59	1.29	78.00
Nitzschia longissima	0.00	0.75	1.02	0.91	1.21	79.21
Unknown pennate diatom sp.	0.00	0.75	1.01	0.84	1.19	80.40
Navicula sp. large	0.73	0.00	0.96	0.59	1.14	81.54
Chaetoceros socialis	0.00	0.70	0.94	0.75	1.11	82.65
Eutreptia sp.	0.08	0.58	0.84	0.74	1.00	83.64
Schroederia setigera	0.00	0.53	0.77	0.60	0.91	84.55
Unknown diatom sp. A	0.58	0.00	0.74	0.42	0.87	85.43
Prorocentrum sp.	0.58	0.00	0.72	0.41	0.86	86.28
Prorocentrum minimum	0.16	0.38	0.71	0.49	0.84	87.12
Gymnodinium sp.	0.22	0.37	0.69	0.64	0.82	87.94
Prorocentrum micans	0.32	0.24	0.59	0.54	0.70	88.64
Cyclotella sp.	0.00	0.45	0.58	0.48	0.68	89.32
Navicula sp. small	0.46	0.00	0.57	0.36	0.68	89.99
Ceratulina bergonii	0.00	0.40	0.53	0.44	0.63	90.62

Groups 75%Grp5 & 75%Grp10

Average dissimilarity = 84.57

Species	Group 75%Grp5 Av.Abund	Group 75%Grp10 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	12.43	1.73	14.70	14.70
Unknown diatom sp. D	8.36	0.00	9.22	3.61	10.91	25.61
Unknown Cryptophyte sp.	7.43	0.00	8.91	6.42	10.54	36.14
Unknown diatom sp.	4.70	0.00	5.49	9.17	6.49	42.64
Thalassiosira sp.	4.72	0.84	4.77	2.52	5.64	48.27
Pyramimonas sp.	3.83	0.00	4.67	4.76	5.52	53.79
Nitzschia closterium	4.12	0.79	4.30	2.05	5.08	58.87
Chaetoceros sp.	3.08	0.12	2.94	1.02	3.48	62.35
Chaetoceros subtilis	0.00	2.19	2.80	1.25	3.32	65.67
Gymnodinium sp.	2.63	0.37	2.59	1.16	3.06	68.73
Skeletonema costatum	5.96	3.94	2.51	1.41	2.97	71.70
Nitzschia pungens	2.29	0.45	2.28	1.16	2.69	74.39
Leptocylindricus minimum	1.88	0.80	1.96	1.18	2.32	76.71
Peridinium sp.	1.50	0.20	1.47	1.08	1.73	78.45

Peridinium aciculiferum	0.00	1.12	1.42	0.84	1.68	80.12
Prorocentrum sp.	1.50	0.00	1.41	0.98	1.67	81.79
Rhizosolenia setigera	1.26	0.28	1.26	1.11	1.49	83.28
Leptocylicus danicus	1.26	0.18	1.23	1.03	1.46	84.74
Navicula sp. large	1.26	0.00	1.19	0.98	1.41	86.14
Schizothrix sp.	0.00	1.06	1.16	0.54	1.37	87.52
Thalassiosira pseudonana	0.00	0.90	1.07	0.80	1.26	88.78
Nitzschia longissima	0.00	0.75	0.88	0.91	1.04	89.82
Unknown pennate diatom sp.	0.00	0.75	0.88	0.84	1.04	90.86

Groups 75%Grp8 & 75%Grp10

Average dissimilarity = 79.34

Species	Group 75%Grp8 Av.Abund	Group 75%Grp10 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	3.94	7.79	1.37	9.82	9.82
Chaetoceros subtilis	0.44	2.19	5.38	1.05	6.78	16.60
Cyclotella sp. (small)	1.79	0.35	4.33	0.76	5.46	22.06
Cyclotella sp.	1.76	0.45	4.23	0.82	5.33	27.40
Unknown pennate diatom sp.	2.07	0.75	3.91	1.18	4.93	32.33
Thalassiosira pseudonana	1.05	0.90	3.29	0.91	4.15	36.48
Cyclotella sp. (large)	1.45	0.08	3.19	0.61	4.02	40.50
Peridinium aciculiferum	0.11	1.12	2.92	0.84	3.68	44.18
Scenedesmus quadracauda	1.15	0.16	2.52	1.07	3.17	47.35
Schroederia setigera	1.04	0.53	2.41	1.07	3.04	50.39
Gymnodinium sp.	1.01	0.37	2.34	1.00	2.95	53.34
Eutreptia sp.	0.88	0.58	2.21	1.07	2.78	56.12
Schizothrix sp.	0.00	1.06	2.07	0.56	2.61	58.73
Thalassiosira sp.	0.10	0.84	2.01	0.72	2.53	61.26
Nitzschia longissima	0.78	0.75	2.00	1.07	2.52	63.78
Scenedesmus bijinga	0.90	0.00	1.97	0.82	2.49	66.27
Thalassiosira decipiens	0.91	0.06	1.94	0.52	2.45	68.72
Nitzschia closterium	0.08	0.79	1.75	0.89	2.21	70.93
Leptocylicus minimum	0.00	0.80	1.54	0.68	1.95	72.87
Chaetoceros socialis	0.00	0.70	1.52	0.74	1.91	74.79
Akistrodesmus falcatus	0.64	0.00	1.43	0.66	1.80	76.58
Prorocentrum minimum	0.16	0.38	1.03	0.66	1.30	77.88
Bluegreen filamentous sp.	0.41	0.00	1.01	0.60	1.28	79.16
Nitzschia pungens	0.00	0.45	0.94	0.55	1.19	80.34
Scenedesmus acutus	0.34	0.10	0.89	0.46	1.12	81.47
Ceratulina bergonii	0.00	0.40	0.86	0.43	1.08	82.54
Melosira sp.	0.36	0.00	0.84	0.49	1.05	83.60

Chaetoceros neogracile	0.00	0.39	0.75	0.54	0.95	84.55
Cyclotella meneghiniana	0.40	0.00	0.74	0.27	0.94	85.49
Scrippsiella sp.	0.08	0.29	0.74	0.54	0.94	86.43
Crucigenia sp.	0.22	0.00	0.72	0.49	0.91	87.34
Merismopedia punctata	0.29	0.00	0.72	0.38	0.91	88.24
Gonyaulax monilata	0.00	0.33	0.71	0.47	0.90	89.14
Pleurosigma sp.	0.24	0.00	0.66	0.49	0.83	89.97
Scenedesmus sp.	0.26	0.07	0.61	0.45	0.77	90.74

Groups 75%Grp4 & 75%Grp12

Average dissimilarity = 97.18

Species	Group 75%Grp4 Av.Abund	Group 75%Grp12 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	9.01	1.62	9.27	9.27
Skeletonema costatum	0.16	4.06	7.28	2.63	7.49	16.76
Unknown diatom sp.	3.09	0.00	5.72	2.50	5.89	22.65
Chaetoceros subtilis	0.00	2.80	5.21	1.58	5.36	28.01
Unknown diatom sp. D	2.34	0.00	4.24	1.60	4.36	32.37
Thalassiosira sp.	2.01	0.31	3.35	1.67	3.45	35.82
Unknown Dinoflagellate sp.	1.73	0.00	3.29	0.99	3.39	39.21
Prorocentrum micans	1.61	0.00	3.22	0.56	3.32	42.53
Cyclotella sp. (small)	0.00	1.40	2.59	0.68	2.66	45.19
Scenedesmus sp.	1.47	0.00	2.57	1.15	2.65	47.84
Navicula sp. small	1.23	0.00	2.34	0.85	2.41	50.25
Schroederia setigera	0.00	1.25	2.29	1.43	2.36	52.61
Thalassiosira pseudonana	0.00	1.15	2.14	0.70	2.20	54.81
Peridinium aciculiferum	0.00	1.07	2.07	0.72	2.13	56.94
Gymnodinium sp.	0.09	1.06	1.94	0.86	2.00	58.93
Nitzschia longissima	0.00	0.91	1.76	1.22	1.81	60.74
Coscinodiscus sp.	0.83	0.00	1.57	0.58	1.61	62.35
Unknown bluegreen sp.	0.83	0.00	1.56	0.90	1.61	63.96
Nitzschia pungens	0.80	0.21	1.51	0.89	1.56	65.52
Pyramimonas sp.	0.84	0.06	1.49	0.87	1.53	67.05
Schizothrix sp.	0.00	0.71	1.40	0.47	1.44	68.49
Cyclotella sp.	0.00	0.79	1.39	0.53	1.43	69.93
Unknown pennate diatom sp.	0.00	0.72	1.36	0.73	1.40	71.33
Tetraedron sp.	0.82	0.00	1.35	0.75	1.39	72.72
Scenedesmus quadracauda	0.00	0.73	1.34	0.81	1.38	74.10
Leptocylindricus minimum	0.61	0.29	1.34	0.76	1.38	75.48
Navicula sp. large	0.66	0.00	1.33	0.65	1.37	76.86
Eutreptia sp.	0.37	0.42	1.28	0.63	1.31	78.17

Akistrodesmus sp.	0.76	0.00	1.26	0.58	1.29	79.46
Thalassiosira decipiens	0.00	0.59	1.08	0.73	1.11	80.57
Gonyaulax polygramma	0.00	0.53	1.01	0.68	1.04	81.62
Nitzschia closterium	0.20	0.40	0.96	0.64	0.99	82.60
Prorocentrum sp.	0.45	0.00	0.84	0.38	0.86	83.47
Leptocylicus danicus	0.27	0.20	0.82	0.50	0.85	84.31
Akistrodesmus falcatus	0.00	0.46	0.81	0.56	0.83	85.15
Scenedesmus bijinga	0.00	0.43	0.79	0.50	0.82	85.96
Nitzschia sp.	0.38	0.00	0.74	0.38	0.76	86.72
Euglena sp.	0.00	0.38	0.72	0.49	0.74	87.46
Thalassionema nitzschoides	0.35	0.09	0.71	0.54	0.73	88.19
Peridinium sp.	0.00	0.41	0.70	0.55	0.72	88.92
Prorocentrum minimum	0.16	0.29	0.70	0.56	0.72	89.63
Prorocentrum redfieldi	0.40	0.00	0.68	0.36	0.70	90.33

Groups 75%Grp7 & 75%Grp12

Average dissimilarity = 92.20

Species	Group 75%Grp7 Av.Abund	Group 75%Grp12 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	9.35	1.58	10.14	10.14
Unknown Cryptophyte sp.	6.29	0.00	9.08	2.31	9.85	19.98
Skeletonema costatum	3.34	4.06	5.12	1.46	5.56	25.54
Thalassiosira sp.	3.51	0.31	4.66	1.06	5.06	30.60
Unknown diatom sp.	3.30	0.00	4.54	1.64	4.92	35.52
Unknown Dinoflagellate sp.	3.01	0.00	4.39	1.25	4.77	40.29
Chaetoceros subtilis	0.16	2.80	4.12	1.51	4.47	44.76
Prorocentrum minimum	1.60	0.29	2.68	0.39	2.90	47.66
Peridinium sp.	1.80	0.41	2.47	0.87	2.68	50.34
Pyramimonas sp.	1.63	0.06	2.12	0.96	2.30	52.64
Eutreptia sp.	1.21	0.42	2.07	0.63	2.25	54.88
Cyclotella sp. (small)	0.00	1.40	2.03	0.66	2.20	57.08
Schroederia setigera	0.00	1.25	1.80	1.37	1.95	59.03
Skeletonema menezelli	1.46	0.00	1.74	0.34	1.89	60.92
Thalassiosira pseudonana	0.00	1.15	1.67	0.68	1.82	62.74
Peridinium aciculiferum	0.00	1.07	1.61	0.71	1.74	64.48
Gymnodinium sp.	0.15	1.06	1.58	0.83	1.72	66.19
Chaetoceros sp.	1.28	0.00	1.55	0.60	1.68	67.88
Nitzschia closterium	0.92	0.40	1.50	0.86	1.62	69.50
Nitzschia longissima	0.00	0.91	1.37	1.17	1.48	70.98
Nitzschia pungens	0.82	0.21	1.26	0.67	1.37	72.34
Schizothrix sp.	0.11	0.71	1.17	0.48	1.27	73.61

Cyclotella sp.	0.00	0.79	1.10	0.52	1.19	74.80
Leptocylicus minimum	0.72	0.29	1.09	0.68	1.18	75.99
Unknown pennate diatom sp.	0.00	0.72	1.06	0.71	1.15	77.14
Scenedesmus quadracauda	0.00	0.73	1.06	0.79	1.15	78.28
Prorocentrum sp.	0.77	0.00	1.05	0.34	1.14	79.42
Eutreptiella sp.	0.69	0.00	1.03	0.35	1.12	80.54
Leptocylicus danicus	0.65	0.20	0.95	0.45	1.03	81.57
Unknown Katodinium sp.	0.54	0.00	0.86	0.29	0.94	82.51
Thalassiosira decipiens	0.00	0.59	0.85	0.71	0.92	83.43
Scenedesmus sp.	0.60	0.00	0.79	0.44	0.86	84.29
Gonyaulax polygramma	0.00	0.53	0.79	0.67	0.85	85.14
Glenodinium sp.	0.50	0.00	0.66	0.30	0.71	85.86
Rhizosolenia setigera	0.51	0.06	0.66	0.53	0.71	86.57
Navicula sp. large	0.47	0.00	0.64	0.44	0.70	87.27
Akistrodesmus falcatus	0.00	0.46	0.64	0.55	0.69	87.96
Chaetoceros gracile	0.51	0.00	0.63	0.29	0.69	88.65
Unknown diatom sp. A	0.52	0.00	0.63	0.33	0.68	89.33
Scenedesmus bijinga	0.00	0.43	0.62	0.49	0.67	90.00

Groups 75%Grp6 & 75%Grp12

Average dissimilarity = 87.82

Species	Group 75%Grp6 Av.Abund	Group 75%Grp12 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.13	0.00	7.82	1.97	8.91	8.91
Unknown Cryptophyte sp.	5.10	0.00	7.13	2.43	8.12	17.02
Skeletonema costatum	7.46	4.06	6.53	1.70	7.43	24.46
Thalassiosira sp.	4.15	0.31	4.84	2.38	5.52	29.97
Unknown diatom sp.	3.67	0.00	4.73	2.22	5.39	35.36
Nitzschia closterium	3.83	0.40	4.49	2.19	5.11	40.47
Chaetoceros subtilis	0.27	2.80	3.83	1.52	4.36	44.83
Nitzschia pungens	2.56	0.21	3.24	1.31	3.69	48.52
Unknown Dinoflagellate sp.	2.35	0.00	2.94	1.31	3.35	51.87
Chaetoceros sp.	2.39	0.00	2.94	1.12	3.34	55.22
Skeletonema menezelli	2.03	0.00	2.20	0.40	2.50	57.72
Pyramimonas sp.	1.39	0.06	1.90	0.82	2.17	59.88
Cyclotella sp. (small)	0.00	1.40	1.88	0.66	2.14	62.03
Leptocylicus minimum	1.46	0.29	1.83	0.84	2.09	64.11
Schroederia setigera	0.00	1.25	1.67	1.37	1.90	66.01
Thalassiosira pseudonana	0.00	1.15	1.55	0.68	1.77	67.78
Peridinium aciculiferum	0.00	1.07	1.49	0.71	1.69	69.48
Peridinium sp.	1.06	0.41	1.48	0.76	1.69	71.16

Gymnodinium sp.	0.22	1.06	1.47	0.85	1.68	72.84
Nitzschia longissima	0.00	0.91	1.26	1.17	1.44	74.28
Thalassionema nitzschoides	0.96	0.09	1.12	0.64	1.27	75.55
Leptocylicus danicus	0.69	0.20	1.06	0.61	1.21	76.76
Ceratium hircus	0.95	0.00	1.04	0.48	1.19	77.95
Cyclotella sp.	0.00	0.79	1.02	0.52	1.16	79.11
Schizothrix sp.	0.00	0.71	1.00	0.46	1.14	80.25
Unknown pennate diatom sp.	0.00	0.72	0.99	0.71	1.12	81.37
Scenedesmus quadricauda	0.00	0.73	0.98	0.79	1.12	82.49
Rhizosolenia setigera	0.77	0.06	0.92	0.63	1.05	83.54
Navicula sp. large	0.73	0.00	0.92	0.60	1.04	84.59
Thalassiosira decipiens	0.00	0.59	0.79	0.71	0.90	85.49
Gonyaulax polygramma	0.00	0.53	0.73	0.67	0.83	86.32
Unknown diatom sp. A	0.58	0.00	0.71	0.42	0.80	87.12
Prorocentrum sp.	0.58	0.00	0.69	0.41	0.79	87.91
Eutreptia sp.	0.08	0.42	0.64	0.59	0.73	88.65
Akistrodesmus falcatus	0.00	0.46	0.60	0.55	0.68	89.32
Prorocentrum minimum	0.16	0.29	0.59	0.44	0.67	89.99
Scenedesmus bijinga	0.00	0.43	0.58	0.49	0.66	90.65

Groups 75%Grp5 & 75%Grp12

Average dissimilarity = 87.00

Species	Group 75%Grp5 Av.Abund	Group 75%Grp12 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	11.92	1.78	13.70	13.70
Unknown diatom sp. D	8.36	0.00	8.92	3.63	10.25	23.95
Unknown Cryptophyte sp.	7.43	0.00	8.58	8.27	9.87	33.82
Unknown diatom sp.	4.70	0.00	5.30	13.88	6.09	39.91
Thalassiosira sp.	4.72	0.31	5.21	3.80	5.99	45.90
Nitzschia closterium	4.12	0.40	4.54	2.58	5.22	51.12
Pyramimonas sp.	3.83	0.06	4.42	5.31	5.08	56.20
Chaetoceros subtilis	0.00	2.80	3.29	1.49	3.78	59.98
Chaetoceros sp.	3.08	0.00	2.84	0.98	3.26	63.24
Gymnodinium sp.	2.63	1.06	2.69	1.36	3.09	66.33
Skeletonema costatum	5.96	4.06	2.45	1.69	2.82	69.15
Nitzschia pungens	2.29	0.21	2.17	1.10	2.49	71.64
Leptocylicus minimum	1.88	0.29	1.80	1.08	2.07	73.71
Cyclotella sp. (small)	0.00	1.40	1.64	0.65	1.88	75.59
Peridinium sp.	1.50	0.41	1.47	1.15	1.69	77.29
Schroederia setigera	0.00	1.25	1.45	1.36	1.67	78.96
Prorocentrum sp.	1.50	0.00	1.38	0.98	1.58	80.54

Thalassiosira pseudonana	0.00	1.15	1.35	0.67	1.55	82.09
Peridinium aciculiferum	0.00	1.07	1.29	0.71	1.48	83.57
Leptocylicus danicus	1.26	0.20	1.21	1.03	1.39	84.96
Rhizosolenia setigera	1.26	0.06	1.17	1.02	1.35	86.31
Navicula sp. large	1.26	0.00	1.16	0.98	1.33	87.64
Nitzschia longissima	0.00	0.91	1.10	1.17	1.26	88.90
Cyclotella sp.	0.00	0.79	0.89	0.51	1.03	89.92
Schizothrix sp.	0.00	0.71	0.86	0.46	0.99	90.92

Groups 75%Grp8 & 75%Grp12

Average dissimilarity = 72.69

Species	Group 75%Grp8 Av.Abund	Group 75%Grp12 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	4.06	7.20	1.40	9.90	9.90
Chaetoceros subtilis	0.44	2.80	5.69	1.39	7.83	17.73
Cyclotella sp. (small)	1.79	1.40	4.97	0.97	6.84	24.57
Cyclotella sp.	1.76	0.79	4.24	0.91	5.83	30.40
Unknown pennate diatom sp.	2.07	0.72	3.61	1.35	4.97	35.37
Thalassiosira pseudonana	1.05	1.15	3.58	0.89	4.92	40.29
Cyclotella sp. (large)	1.45	0.11	3.00	0.63	4.13	44.42
Gymnodinium sp.	1.01	1.06	2.73	1.14	3.76	48.18
Thalassiosira decipiens	0.91	0.59	2.53	0.79	3.48	51.66
Peridinium aciculiferum	0.11	1.07	2.52	0.73	3.46	55.12
Scenedesmus quadricauda	1.15	0.73	2.38	1.14	3.27	58.39
Schroederia setigera	1.04	1.25	2.34	1.20	3.21	61.60
Scenedesmus bijinga	0.90	0.43	2.08	0.92	2.87	64.47
Eutreptia sp.	0.88	0.42	2.01	1.05	2.76	67.23
Nitzschia longissima	0.78	0.91	1.94	1.16	2.67	69.91
Akistrodesmus falcatus	0.64	0.46	1.72	0.85	2.37	72.27
Schizothrix sp.	0.00	0.71	1.69	0.46	2.32	74.60
Gonyaulax polygramma	0.00	0.53	1.22	0.66	1.67	76.27
Merismopedia punctata	0.29	0.23	1.10	0.50	1.51	77.78
Bluegreen filamentous sp.	0.41	0.15	1.09	0.69	1.49	79.28
Nitzschia closterium	0.08	0.40	0.99	0.64	1.37	80.64
Euglena sp.	0.09	0.38	0.96	0.54	1.33	81.97
Melosira sp.	0.36	0.15	0.94	0.59	1.30	83.27
Scenedesmus acutus	0.34	0.16	0.93	0.46	1.28	84.55
Pleurosigma sp.	0.24	0.16	0.87	0.57	1.19	85.74
Prorocentrum minimum	0.16	0.29	0.83	0.63	1.14	86.88
Peridinium sp.	0.00	0.41	0.82	0.55	1.12	88.00
Crucigenia sp.	0.22	0.10	0.77	0.57	1.06	89.06

Thalassiosira sp.	0.10	0.31	0.75	0.54	1.03	90.09
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Groups 75%Grp10 & 75%Grp12

Average dissimilarity = 64.14

Species	Group 75%Grp10 Av.Abund	Group 75%Grp12 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Chaetoceros subtilis	2.19	2.80	4.38	1.32	6.83	6.83
Skeletonema costatum	3.94	4.06	3.54	1.21	5.52	12.35
Cyclotella sp. (small)	0.35	1.40	3.48	0.75	5.43	17.78
Peridinium aciculiferum	1.12	1.07	3.33	1.04	5.19	22.98
Thalassiosira pseudonana	0.90	1.15	3.17	0.96	4.94	27.91
Schizothrix sp.	1.06	0.71	3.09	0.73	4.82	32.73
Schroederia setigera	0.53	1.25	2.53	1.29	3.95	36.68
Gymnodinium sp.	0.37	1.06	2.43	0.94	3.80	40.47
Cyclotella sp.	0.45	0.79	2.19	0.70	3.41	43.88
Unknown pennate diatom sp.	0.75	0.72	2.13	1.00	3.32	47.20
Thalassiosira sp.	0.84	0.31	2.03	0.83	3.17	50.37
Nitzschia longissima	0.75	0.91	1.96	1.12	3.05	53.43
Nitzschia closterium	0.79	0.40	1.83	1.00	2.86	56.28
Leptocylindricus minimum	0.80	0.29	1.75	0.80	2.73	59.01
Scenedesmus quadricauda	0.16	0.73	1.71	0.84	2.67	61.67
Eutreptia sp.	0.58	0.42	1.56	0.91	2.44	64.11
Chaetoceros socialis	0.70	0.00	1.45	0.77	2.26	66.37
Gonyaulax polygramma	0.21	0.53	1.43	0.76	2.23	68.60
Thalassiosira decipiens	0.06	0.59	1.35	0.75	2.10	70.70
Nitzschia pungens	0.45	0.21	1.20	0.70	1.87	72.57
Prorocentrum minimum	0.38	0.29	1.11	0.74	1.73	74.31
Peridinium sp.	0.20	0.41	1.08	0.67	1.68	75.99
Euglena sp.	0.14	0.38	1.05	0.57	1.63	77.62
Ceratulina bergonii	0.40	0.14	1.03	0.54	1.60	79.22
Akistrodesmus falcatus	0.00	0.46	0.98	0.56	1.52	80.74
Chaetoceros neogracile	0.39	0.17	0.96	0.64	1.50	82.25
Scenedesmus bijinga	0.00	0.43	0.96	0.49	1.50	83.74
Scrippsiella sp.	0.29	0.18	0.89	0.57	1.39	85.13
Thalassionema nitzschoides	0.32	0.09	0.73	0.53	1.14	86.27
Leptocylindricus danicus	0.18	0.20	0.69	0.46	1.07	87.34
Gonyaulax monilata	0.33	0.00	0.68	0.48	1.06	88.40
Rhizosolenia setigera	0.28	0.06	0.65	0.54	1.01	89.41
Nostoc sp.(trichomes)	0.05	0.21	0.62	0.45	0.96	90.37

Groups 75%Grp4 & 75%Grp13

Average dissimilarity = 94.51

Species	Group 75%Grp4 Av.Abund	Group 75%Grp13 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	0.16	5.90	10.18	1.64	10.78	10.78
Unknown Cryptophyte sp.	4.79	0.04	8.54	1.52	9.04	19.81
Unknown diatom sp.	3.09	0.00	5.47	2.26	5.79	25.60
Unknown diatom sp. D	2.34	0.00	4.05	1.52	4.29	29.89
Thalassiosira sp.	2.01	1.38	3.60	1.47	3.81	33.69
Unknown Dinoflagellate sp.	1.73	0.00	3.15	0.96	3.33	37.02
Prorocentrum micans	1.61	0.13	3.14	0.57	3.33	40.35
Prorocentrum minimum	0.16	1.59	2.65	0.98	2.81	43.16
Thalassiosira pseudonana	0.00	1.56	2.57	0.82	2.72	45.87
Eutreptia sp.	0.37	1.43	2.55	1.02	2.69	48.57
Scenedesmus sp.	1.47	0.05	2.45	1.13	2.59	51.16
Navicula sp. small	1.23	0.00	2.24	0.83	2.37	53.53
Leptocylicus minimum	0.61	0.75	1.73	0.83	1.84	55.37
Pyramimonas sp.	0.84	0.33	1.66	0.88	1.75	57.12
Coscinodiscus sp.	0.83	0.05	1.55	0.60	1.64	58.75
Unknown bluegreen sp.	0.83	0.00	1.50	0.87	1.58	60.34
Schroederia setigera	0.00	0.82	1.47	0.88	1.56	61.90
Peridinium aciculiferum	0.00	0.84	1.43	0.82	1.51	63.41
Chaetoceros subtilis	0.00	0.83	1.42	0.70	1.51	64.91
Nitzschia pungens	0.80	0.12	1.42	0.81	1.50	66.41
Unknown pennate diatom sp.	0.00	0.81	1.35	0.69	1.43	67.84
Thalassiosira decipiens	0.00	0.84	1.34	0.78	1.42	69.26
Tetraedron sp.	0.82	0.07	1.33	0.76	1.41	70.68
Navicula sp. large	0.66	0.00	1.27	0.63	1.35	72.02
Nitzschia longissima	0.00	0.74	1.26	0.97	1.34	73.36
Cyclotella sp.	0.00	0.83	1.26	0.50	1.33	74.69
Akistrodesmus sp.	0.76	0.04	1.25	0.60	1.33	76.02
Nitzschia closterium	0.20	0.62	1.18	0.91	1.25	77.27
Euglena sp.	0.00	0.69	1.12	0.44	1.19	78.46
Scrippsiella sp.	0.00	0.59	1.06	0.65	1.12	79.58
Ceratulina bergonii	0.00	0.53	0.97	0.43	1.03	80.61
Gymnodinium sp.	0.09	0.53	0.91	0.74	0.97	81.58
Merismopedia punctata	0.00	0.54	0.90	0.45	0.96	82.54
Thalassionema nitzschoides	0.35	0.20	0.84	0.58	0.89	83.42
Crucigenia sp.	0.21	0.38	0.83	0.60	0.87	84.30
Prorocentrum sp.	0.45	0.00	0.80	0.38	0.85	85.14
Schizothrix sp.	0.00	0.49	0.78	0.43	0.83	85.97
Scenedesmus quadracauda	0.00	0.46	0.74	0.48	0.78	86.75

Akistrodesmus falcatus	0.00	0.43	0.71	0.54	0.75	87.50
Nitzschia sp.	0.38	0.00	0.71	0.38	0.75	88.25
Prorocentrum redfieldi	0.40	0.00	0.65	0.36	0.69	88.94
Leptocylicus danicus	0.27	0.09	0.63	0.42	0.67	89.60
Oscillatoria sp.	0.32	0.10	0.62	0.48	0.66	90.26

Groups 75%Grp7 & 75%Grp13

Average dissimilarity = 88.48

Species	Group 75%Grp7 Av.Abund	Group 75%Grp13 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	8.98	1.53	10.15	10.15
Unknown Cryptophyte sp.	6.29	0.04	8.66	2.15	9.79	19.95
Skeletonema costatum	3.34	5.90	6.59	1.28	7.45	27.40
Thalassiosira sp.	3.51	1.38	4.44	1.07	5.01	32.41
Unknown diatom sp.	3.30	0.00	4.36	1.59	4.93	37.34
Unknown Dinoflagellate sp.	3.01	0.00	4.22	1.22	4.77	42.11
Prorocentrum minimum	1.60	1.59	3.67	0.60	4.15	46.27
Eutreptia sp.	1.21	1.43	2.74	0.94	3.10	49.36
Peridinium sp.	1.80	0.31	2.33	0.83	2.64	52.00
Pyramimonas sp.	1.63	0.33	2.11	0.96	2.38	54.39
Thalassiosira pseudonana	0.00	1.56	2.06	0.80	2.32	56.71
Skeletonema menezelli	1.46	0.00	1.68	0.34	1.90	58.60
Nitzschia closterium	0.92	0.62	1.53	1.00	1.73	60.34
Chaetoceros sp.	1.28	0.00	1.49	0.60	1.69	62.02
Leptocylicus minimum	0.72	0.75	1.45	0.78	1.64	63.66
Chaetoceros subtilis	0.16	0.83	1.26	0.69	1.42	65.08
Schroederia setigera	0.00	0.82	1.15	0.86	1.30	66.39
Nitzschia pungens	0.82	0.12	1.14	0.60	1.28	67.67
Peridinium aciculiferum	0.00	0.84	1.13	0.80	1.28	68.95
Thalassiosira decipiens	0.00	0.84	1.08	0.77	1.22	70.17
Unknown pennate diatom sp.	0.00	0.81	1.08	0.68	1.22	71.39
Cyclotella sp.	0.00	0.83	1.02	0.49	1.15	72.54
Prorocentrum sp.	0.77	0.00	1.01	0.33	1.14	73.68
Nitzschia longissima	0.00	0.74	1.00	0.95	1.13	74.82
Eutreptiella sp.	0.69	0.00	0.99	0.34	1.12	75.94
Euglena sp.	0.00	0.69	0.90	0.44	1.02	76.95
Scrippsiella sp.	0.00	0.59	0.83	0.65	0.94	77.89
Unknown Katodinium sp.	0.54	0.00	0.83	0.28	0.94	78.83
Scenedesmus sp.	0.60	0.05	0.81	0.47	0.91	79.74
Gymnodinium sp.	0.15	0.53	0.80	0.70	0.90	80.64
Leptocylicus danicus	0.65	0.09	0.78	0.38	0.88	81.52

Ceratulina bergonii	0.00	0.53	0.76	0.43	0.86	82.38
Schizothrix sp.	0.11	0.49	0.72	0.45	0.82	83.20
Merismopedia punctata	0.00	0.54	0.72	0.44	0.81	84.01
Rhizosolenia setigera	0.51	0.16	0.72	0.55	0.81	84.82
Glenodinium sp.	0.50	0.00	0.63	0.30	0.72	85.54
Prorocentrum micans	0.34	0.13	0.63	0.32	0.71	86.24
Navicula sp. large	0.47	0.00	0.62	0.44	0.70	86.94
Chaetoceros gracile	0.51	0.00	0.61	0.29	0.69	87.63
Unknown diatom sp. A	0.52	0.00	0.60	0.33	0.68	88.32
Scenedesmus quadracauda	0.00	0.46	0.59	0.47	0.67	88.99
Akistrodesmus falcatus	0.00	0.43	0.57	0.53	0.64	89.63
Ceratium hircus	0.36	0.08	0.53	0.37	0.60	90.22

Groups 75%Grp6 & 75%Grp13

Average dissimilarity = 83.00

Species	Group 75%Grp6 Av.Abund	Group 75%Grp13 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.13	0.00	7.53	1.90	9.07	9.07
Unknown Cryptophyte sp.	5.10	0.04	6.80	2.26	8.19	17.26
Skeletonema costatum	7.46	5.90	6.06	1.35	7.30	24.56
Unknown diatom sp.	3.67	0.00	4.55	2.13	5.49	30.05
Thalassiosira sp.	4.15	1.38	4.26	1.85	5.13	35.17
Nitzschia closterium	3.83	0.62	4.13	1.99	4.97	40.15
Nitzschia pungens	2.56	0.12	3.15	1.24	3.80	43.95
Unknown Dinoflagellate sp.	2.35	0.00	2.83	1.29	3.41	47.36
Chaetoceros sp.	2.39	0.00	2.83	1.10	3.41	50.77
Skeletonema menezelli	2.03	0.00	2.12	0.40	2.56	53.33
Prorocentrum minimum	0.16	1.59	2.05	0.96	2.46	55.79
Leptocylindricus minimum	1.46	0.75	1.99	0.92	2.40	58.19
Thalassiosira pseudonana	0.00	1.56	1.92	0.80	2.31	60.50
Pyramimonas sp.	1.39	0.33	1.91	0.84	2.30	62.80
Eutreptia sp.	0.08	1.43	1.78	0.99	2.14	64.95
Peridinium sp.	1.06	0.31	1.35	0.71	1.62	66.57
Chaetoceros subtilis	0.27	0.83	1.27	0.69	1.53	68.10
Thalassionema nitzschoides	0.96	0.20	1.17	0.69	1.41	69.51
Schroederia setigera	0.00	0.82	1.07	0.87	1.29	70.80
Ceratium hircus	0.95	0.08	1.06	0.51	1.27	72.08
Peridinium aciculiferum	0.00	0.84	1.05	0.80	1.27	73.35
Thalassiosira decipiens	0.00	0.84	1.01	0.77	1.22	74.57
Unknown pennate diatom sp.	0.00	0.81	1.00	0.68	1.21	75.77
Cyclotella sp.	0.00	0.83	0.96	0.49	1.15	76.93

Rhizosolenia setigera	0.77	0.16	0.95	0.65	1.15	78.08
Leptocylindricus danicus	0.69	0.09	0.93	0.55	1.13	79.20
Nitzschia longissima	0.00	0.74	0.93	0.95	1.13	80.33
Navicula sp. large	0.73	0.00	0.88	0.59	1.06	81.39
Euglena sp.	0.00	0.69	0.84	0.44	1.01	82.41
Gymnodinium sp.	0.22	0.53	0.78	0.75	0.94	83.35
Scrippsiella sp.	0.00	0.59	0.77	0.65	0.93	84.27
Ceratulina bergonii	0.00	0.53	0.70	0.43	0.85	85.12
Unknown diatom sp. A	0.58	0.00	0.68	0.42	0.82	85.94
Merismopedia punctata	0.00	0.54	0.67	0.44	0.81	86.75
Prorocentrum sp.	0.58	0.00	0.67	0.41	0.81	87.55
Schizothrix sp.	0.00	0.49	0.59	0.42	0.71	88.26
Scenedesmus quadracauda	0.00	0.46	0.56	0.47	0.67	88.93
Navicula sp. small	0.46	0.00	0.53	0.36	0.64	89.57
Akistrodesmus falcatus	0.00	0.43	0.53	0.53	0.64	90.21

Groups 75%Grp5 & 75%Grp13

Average dissimilarity = 83.34

Species	Group 75%Grp5 Av.Abund	Group 75%Grp13 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	11.48	1.74	13.77	13.77
Unknown diatom sp. D	8.36	0.00	8.62	3.36	10.34	24.11
Unknown Cryptophyte sp.	7.43	0.04	8.24	5.87	9.88	34.00
Unknown diatom sp.	4.70	0.00	5.11	7.55	6.14	40.13
Thalassiosira sp.	4.72	1.38	4.26	2.13	5.12	45.25
Nitzschia closterium	4.12	0.62	4.16	2.27	5.00	50.25
Pyramimonas sp.	3.83	0.33	3.98	2.77	4.77	55.02
Skeletonema costatum	5.96	5.90	2.96	1.09	3.56	58.58
Chaetoceros sp.	3.08	0.00	2.75	0.98	3.30	61.88
Gymnodinium sp.	2.63	0.53	2.46	1.21	2.95	64.83
Nitzschia pungens	2.29	0.12	2.07	1.03	2.49	67.32
Leptocylindricus minimum	1.88	0.75	1.89	1.12	2.26	69.59
Prorocentrum minimum	0.00	1.59	1.73	0.93	2.08	71.66
Thalassiosira pseudonana	0.00	1.56	1.69	0.79	2.03	73.69
Eutreptia sp.	0.00	1.43	1.57	0.98	1.88	75.57
Peridinium sp.	1.50	0.31	1.40	1.14	1.68	77.25
Prorocentrum sp.	1.50	0.00	1.34	0.98	1.60	78.85
Rhizosolenia setigera	1.26	0.16	1.17	1.01	1.40	80.25
Leptocylindricus danicus	1.26	0.09	1.14	0.99	1.36	81.62
Navicula sp. large	1.26	0.00	1.12	0.98	1.35	82.97
Schroederia setigera	0.00	0.82	0.93	0.86	1.12	84.08

Peridinium aciculiferum	0.00	0.84	0.92	0.80	1.11	85.19
Chaetoceros subtilis	0.00	0.83	0.92	0.70	1.10	86.30
Thalassiosira decipiens	0.00	0.84	0.89	0.76	1.07	87.37
Unknown pennate diatom sp.	0.00	0.81	0.88	0.68	1.06	88.43
Cyclotella sp.	0.00	0.83	0.85	0.48	1.02	89.44
Nitzschia longissima	0.00	0.74	0.82	0.95	0.98	90.43

Groups 75%Grp8 & 75%Grp13

Average dissimilarity = 76.80

Species	Group 75%Grp8 Av.Abund	Group 75%Grp13 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	5.90	9.85	1.22	12.83	12.83
Cyclotella sp.	1.76	0.83	4.06	0.86	5.29	18.12
Thalassiosira pseudonana	1.05	1.56	3.76	0.96	4.90	23.01
Cyclotella sp. (small)	1.79	0.13	3.61	0.71	4.71	27.72
Unknown pennate diatom sp.	2.07	0.81	3.55	1.21	4.63	32.35
Prorocentrum minimum	0.16	1.59	3.04	0.99	3.96	36.31
Eutreptia sp.	0.88	1.43	2.78	1.10	3.62	39.93
Cyclotella sp. (large)	1.45	0.00	2.75	0.58	3.59	43.52
Thalassiosira sp.	0.10	1.38	2.75	0.67	3.58	47.10
Thalassiosira decipiens	0.91	0.84	2.63	0.83	3.43	50.53
Scenedesmus quadricauda	1.15	0.46	2.39	1.10	3.11	53.64
Schroederia setigera	1.04	0.82	2.16	1.11	2.81	56.45
Gymnodinium sp.	1.01	0.53	2.08	1.03	2.71	59.15
Chaetoceros subtilis	0.44	0.83	1.97	0.81	2.57	61.72
Scenedesmus bijinga	0.90	0.28	1.86	0.88	2.42	64.14
Nitzschia longissima	0.78	0.74	1.73	1.07	2.25	66.39
Peridinium aciculiferum	0.11	0.84	1.72	0.84	2.24	68.63
Akistrodesmus falcatus	0.64	0.43	1.60	0.81	2.08	70.71
Merismopedia punctata	0.29	0.54	1.46	0.57	1.91	72.61
Euglena sp.	0.09	0.69	1.39	0.48	1.81	74.43
Leptocylindricus minimum	0.00	0.75	1.33	0.56	1.73	76.16
Scrippsiella sp.	0.08	0.59	1.32	0.66	1.71	77.87
Nitzschia closterium	0.08	0.62	1.22	0.89	1.59	79.46
Ceratulina bergonii	0.00	0.53	1.17	0.41	1.53	80.99
Crucigenia sp.	0.22	0.38	1.13	0.69	1.47	82.46
Bluegreen filamentous sp.	0.41	0.21	1.06	0.70	1.38	83.83
Schizothrix sp.	0.00	0.49	0.90	0.42	1.17	85.01
Cyclotella meneghiniana	0.40	0.10	0.82	0.32	1.07	86.08
Melosira sp.	0.36	0.00	0.74	0.48	0.96	87.03
Nostoc sp.(trichomes)	0.09	0.27	0.71	0.49	0.93	87.96

Chaetoceros neogracile	0.00	0.31	0.68	0.50	0.88	88.84
Scenedesmus acutus	0.34	0.00	0.63	0.40	0.82	89.67
Pyramimonas sp.	0.00	0.33	0.63	0.34	0.81	90.48

Groups 75%Grp10 & 75%Grp13

Average dissimilarity = 68.86

Species	Group 75%Grp10 Av.Abund	Group 75%Grp13 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.94	5.90	6.77	1.10	9.83	9.83
Chaetoceros subtilis	2.19	0.83	4.41	1.03	6.40	16.24
Thalassiosira pseudonana	0.90	1.56	3.44	1.07	5.00	21.24
Thalassiosira sp.	0.84	1.38	3.40	0.88	4.93	26.17
Prorocentrum minimum	0.38	1.59	3.11	1.01	4.52	30.69
Eutreptia sp.	0.58	1.43	2.80	1.04	4.07	34.75
Peridinium aciculiferum	1.12	0.84	2.74	1.00	3.98	38.74
Schizothrix sp.	1.06	0.49	2.44	0.70	3.54	42.28
Leptocylindricus minimum	0.80	0.75	2.18	0.86	3.17	45.45
Unknown pennate diatom sp.	0.75	0.81	2.17	0.99	3.15	48.60
Schroederia setigera	0.53	0.82	2.01	0.98	2.92	51.52
Cyclotella sp.	0.45	0.83	2.01	0.68	2.91	54.44
Nitzschia longissima	0.75	0.74	1.74	1.04	2.53	56.97
Nitzschia closterium	0.79	0.62	1.74	1.03	2.53	59.49
Ceratulina bergonii	0.40	0.53	1.71	0.57	2.49	61.98
Thalassiosira decipiens	0.06	0.84	1.62	0.80	2.35	64.33
Chaetoceros socialis	0.70	0.28	1.61	0.81	2.33	66.66
Scrippsiella sp.	0.29	0.59	1.50	0.74	2.18	68.84
Euglena sp.	0.14	0.69	1.48	0.50	2.15	70.99
Gymnodinium sp.	0.37	0.53	1.34	0.81	1.95	72.94
Chaetoceros neogracile	0.39	0.31	1.12	0.72	1.63	74.57
Scenedesmus quadracauda	0.16	0.46	1.09	0.58	1.58	76.15
Merismopedia punctata	0.00	0.54	1.08	0.45	1.57	77.72
Cyclotella sp. (small)	0.35	0.13	1.00	0.37	1.45	79.18
Nitzschia pungens	0.45	0.12	0.99	0.61	1.44	80.61
Thalassionema nitzschoides	0.32	0.20	0.92	0.54	1.34	81.95
Akistrodesmus falcatus	0.00	0.43	0.85	0.54	1.23	83.18
Peridinium sp.	0.20	0.31	0.80	0.66	1.16	84.34
Gonyaulax monilata	0.33	0.07	0.79	0.49	1.15	85.48
Rhizosolenia setigera	0.28	0.16	0.75	0.54	1.09	86.57
Crucigenia sp.	0.00	0.38	0.75	0.47	1.09	87.65
Gonyaulax polygramma	0.21	0.15	0.71	0.51	1.03	88.68
Pyramimonas sp.	0.00	0.33	0.64	0.34	0.93	89.61

Nostoc sp.(trichomes)	0.05	0.27	0.63	0.46	0.91	90.52
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Groups 75%Grp12 & 75%Grp13

Average dissimilarity = 68.56

Species	Group 75%Grp12 Av.Abund	Group 75%Grp13 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	4.06	5.90	6.30	1.19	9.19	9.19
Chaetoceros subtilis	2.80	0.83	4.75	1.30	6.93	16.12
Thalassiosira pseudonana	1.15	1.56	3.58	1.03	5.23	21.35
Prorocentrum minimum	0.29	1.59	2.91	1.02	4.24	25.59
Cyclotella sp. (small)	1.40	0.13	2.87	0.69	4.18	29.77
Thalassiosira sp.	0.31	1.38	2.75	0.74	4.01	33.78
Eutreptia sp.	0.42	1.43	2.62	1.04	3.83	37.61
Peridinium aciculiferum	1.07	0.84	2.60	0.94	3.79	41.40
Cyclotella sp.	0.79	0.83	2.42	0.74	3.52	44.92
Gymnodinium sp.	1.06	0.53	2.21	0.96	3.22	48.14
Unknown pennate diatom sp.	0.72	0.81	2.09	0.94	3.05	51.19
Schizothrix sp.	0.71	0.49	2.05	0.60	3.00	54.19
Schroederia setigera	1.25	0.82	2.05	1.19	2.99	57.18
Thalassiosira decipiens	0.59	0.84	1.86	1.00	2.71	59.89
Scenedesmus quadricauda	0.73	0.46	1.80	0.93	2.62	62.51
Euglena sp.	0.38	0.69	1.75	0.63	2.55	65.05
Nitzschia longissima	0.91	0.74	1.66	1.08	2.42	67.48
Leptocylindricus minimum	0.29	0.75	1.56	0.68	2.27	69.75
Nitzschia closterium	0.40	0.62	1.37	0.99	2.00	71.75
Merismopedia punctata	0.23	0.54	1.36	0.55	1.99	73.74
Scrippsiella sp.	0.18	0.59	1.35	0.72	1.97	75.71
Akistrodesmus falcatus	0.46	0.43	1.33	0.77	1.94	77.65
Ceratulina bergonii	0.14	0.53	1.29	0.50	1.88	79.52
Gonyaulax polygramma	0.53	0.15	1.19	0.72	1.73	81.25
Scenedesmus bijinga	0.43	0.28	1.14	0.63	1.67	82.92
Peridinium sp.	0.41	0.31	1.02	0.74	1.49	84.41
Nostoc sp.(trichomes)	0.21	0.27	0.87	0.59	1.26	85.67
Chaetoceros neogracile	0.17	0.31	0.85	0.61	1.24	86.91
Crucigenia sp.	0.10	0.38	0.81	0.53	1.19	88.10
Pyramimonas sp.	0.06	0.33	0.71	0.40	1.03	89.13
Bluegreen filamentous sp.	0.15	0.21	0.61	0.53	0.90	90.02

Groups 75%Grp4 & 75%Grp9

Average dissimilarity = 93.48

Species	Group 75%Grp4 Av.Abund	Group 75%Grp9 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	8.38	1.42	8.97	8.97
Skeletonema costatum	0.16	5.07	7.23	1.50	7.74	16.71
Unknown diatom sp.	3.09	0.00	5.33	1.96	5.70	22.40
Unknown diatom sp. D	2.34	0.00	3.94	1.41	4.22	26.62
Prorocentrum micans	1.61	0.97	3.55	0.71	3.79	30.42
Schizothrix sp.	0.00	2.14	3.24	0.68	3.46	33.88
Unknown Dinoflagellate sp.	1.73	0.00	3.07	0.91	3.28	37.16
Thalassiosira sp.	2.01	0.93	3.01	1.33	3.22	40.39
Thalassionema nitzschoides	0.35	1.63	2.74	0.73	2.93	43.31
Scenedesmus sp.	1.47	0.00	2.39	1.06	2.56	45.87
Ceratulina bergonii	0.00	1.39	2.32	0.80	2.48	48.36
Leptocylicus minimum	0.61	1.63	2.27	1.14	2.43	50.78
Navicula sp. small	1.23	0.00	2.18	0.80	2.34	53.12
Nitzschia pungens	0.80	1.11	2.07	0.99	2.21	55.33
Nitzschia closterium	0.20	1.37	2.00	0.84	2.14	57.47
Chaetoceros socialis	0.00	1.47	1.94	0.81	2.07	59.55
Chaetoceros neogracile	0.00	1.24	1.83	0.88	1.95	61.50
Unknown pennate diatom sp.	0.00	1.09	1.75	0.87	1.87	63.37
Coscinodiscus sp.	0.83	0.10	1.55	0.59	1.65	65.03
Unknown bluegreen sp.	0.83	0.00	1.46	0.83	1.56	66.59
Rhizosolenia setigera	0.00	0.93	1.43	0.80	1.53	68.12
Pyramimonas sp.	0.84	0.06	1.38	0.80	1.47	69.59
Tetraedron sp.	0.82	0.00	1.26	0.71	1.35	70.94
Navicula sp. large	0.66	0.00	1.24	0.60	1.33	72.27
Akistrodesmus sp.	0.76	0.00	1.17	0.55	1.25	73.52
Chaetoceros compressum	0.00	0.87	1.12	0.67	1.19	74.71
Asterionella glacialis	0.00	0.87	1.11	0.67	1.18	75.90
Chaetoceros sp.	0.13	0.56	1.11	0.38	1.18	77.08
Ceratium hircus	0.00	0.73	1.08	0.85	1.16	78.24
Prorocentrum minimum	0.16	0.72	1.08	0.93	1.16	79.40
Thalassiosira decipiens	0.00	0.64	1.02	0.62	1.10	80.49
Leptocylicus danicus	0.27	0.46	0.98	0.63	1.05	81.54
Eutreptia sp.	0.37	0.14	0.87	0.42	0.93	82.47
Melosira sp.	0.20	0.26	0.85	0.41	0.91	83.38
Nitzschia longissima	0.00	0.64	0.84	0.87	0.90	84.28
Prorocentrum sp.	0.45	0.00	0.78	0.37	0.83	85.12
Nitzschia sp.	0.38	0.05	0.75	0.40	0.80	85.92
Peridinium sp.	0.00	0.41	0.74	0.55	0.79	86.71
Chaetoceros subtilis	0.00	0.59	0.68	0.54	0.73	87.44
Prorocentrum redfieldi	0.40	0.00	0.63	0.35	0.68	88.12

Amphora sp.	0.00	0.41	0.59	0.44	0.63	88.75
Eutreptiella sp.	0.35	0.00	0.56	0.38	0.60	89.34
Pleurosigma sp.	0.09	0.27	0.52	0.54	0.55	89.90
Aphanocapsa sp.	0.36	0.00	0.51	0.38	0.55	90.45

Groups 75%Grp7 & 75%Grp9

Average dissimilarity = 89.88

Species	Group 75%Grp7 Av.Abund	Group 75%Grp9 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	8.73	1.45	9.71	9.71
Unknown Cryptophyte sp.	6.29	0.00	8.47	1.98	9.43	19.14
Skeletonema costatum	3.34	5.07	5.78	1.23	6.43	25.57
Unknown diatom sp.	3.30	0.00	4.24	1.51	4.71	30.29
Thalassiosira sp.	3.51	0.93	4.12	0.97	4.59	34.87
Unknown Dinoflagellate sp.	3.01	0.00	4.10	1.16	4.56	39.43
Prorocentrum minimum	1.60	0.72	2.75	0.43	3.06	42.50
Schizothrix sp.	0.11	2.14	2.66	0.68	2.96	45.46
Peridinium sp.	1.80	0.41	2.33	0.87	2.60	48.06
Thalassionema nitzschoides	0.14	1.63	2.22	0.73	2.47	50.53
Nitzschia closterium	0.92	1.37	2.00	0.97	2.23	52.75
Pyramimonas sp.	1.63	0.06	1.97	0.91	2.20	54.95
Leptocylicus minimum	0.72	1.63	1.96	1.12	2.18	57.13
Chaetoceros sp.	1.28	0.56	1.91	0.67	2.12	59.26
Ceratulina bergonii	0.00	1.39	1.83	0.83	2.04	61.30
Nitzschia pungens	0.82	1.11	1.76	0.86	1.96	63.26
Eutreptia sp.	1.21	0.14	1.74	0.52	1.94	65.20
Skeletonema menezelli	1.46	0.00	1.63	0.33	1.81	67.01
Chaetoceros socialis	0.00	1.47	1.61	0.80	1.79	68.80
Prorocentrum micans	0.34	0.97	1.54	0.79	1.72	70.51
Chaetoceros neogracile	0.00	1.24	1.48	0.87	1.65	72.16
Unknown pennate diatom sp.	0.00	1.09	1.39	0.86	1.55	73.71
Rhizosolenia setigera	0.51	0.93	1.36	0.92	1.52	75.23
Ceratium hircus	0.36	0.73	1.16	0.83	1.29	76.51
Leptocylicus danicus	0.65	0.46	1.09	0.56	1.21	77.73
Prorocentrum sp.	0.77	0.00	0.98	0.33	1.09	78.82
Eutreptiella sp.	0.69	0.00	0.97	0.34	1.07	79.89
Chaetoceros compressum	0.00	0.87	0.93	0.66	1.03	80.92
Asterionella glacialis	0.00	0.87	0.92	0.66	1.03	81.95
Thalassiosira decipiens	0.00	0.64	0.81	0.64	0.90	82.85
Unknown Katodinium sp.	0.54	0.00	0.81	0.28	0.90	83.75
Scenedesmus sp.	0.60	0.00	0.74	0.43	0.82	84.57

Amphora sp.	0.20	0.41	0.72	0.48	0.80	85.37
Chaetoceros subtilis	0.16	0.59	0.72	0.50	0.80	86.17
Nitzschia longissima	0.00	0.64	0.70	0.86	0.78	86.95
Chaetoceros gracile	0.51	0.05	0.63	0.30	0.70	87.65
Glenodinium sp.	0.50	0.00	0.62	0.29	0.68	88.33
Navicula sp. large	0.47	0.00	0.60	0.43	0.67	89.00
Unknown diatom sp. A	0.52	0.00	0.59	0.33	0.65	89.65
Coscinodiscus sp.	0.28	0.10	0.55	0.38	0.62	90.27

Groups 75%Grp6 & 75%Grp9

Average dissimilarity = 82.03

Species	Group 75%Grp6 Av.Abund	Group 75%Grp9 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.13	0.00	7.32	1.79	8.92	8.92
Unknown Cryptophyte sp.	5.10	0.00	6.66	2.06	8.11	17.03
Skeletonema costatum	7.46	5.07	6.60	1.21	8.05	25.08
Unknown diatom sp.	3.67	0.00	4.42	1.98	5.39	30.47
Thalassiosira sp.	4.15	0.93	4.08	1.69	4.97	35.44
Nitzschia closterium	3.83	1.37	3.75	1.51	4.57	40.01
Nitzschia pungens	2.56	1.11	2.92	1.19	3.56	43.57
Chaetoceros sp.	2.39	0.56	2.83	1.07	3.45	47.03
Unknown Dinoflagellate sp.	2.35	0.00	2.75	1.24	3.36	50.38
Schizothrix sp.	0.00	2.14	2.45	0.67	2.99	53.37
Thalassionema nitzschoides	0.96	1.63	2.27	0.84	2.77	56.14
Leptocylicus minimum	1.46	1.63	2.21	1.14	2.69	58.83
Skeletonema menezelli	2.03	0.00	2.06	0.40	2.51	61.35
Pyramimonas sp.	1.39	0.06	1.78	0.77	2.17	63.52
Ceratulina bergonii	0.00	1.39	1.71	0.85	2.08	65.60
Ceratium hircus	0.95	0.73	1.53	0.84	1.87	67.46
Chaetoceros socialis	0.00	1.47	1.52	0.80	1.85	69.31
Rhizosolenia setigera	0.77	0.93	1.42	0.97	1.73	71.04
Peridinium sp.	1.06	0.41	1.41	0.76	1.72	72.77
Chaetoceros neogracile	0.00	1.24	1.39	0.87	1.70	74.46
Unknown pennate diatom sp.	0.00	1.09	1.30	0.87	1.58	76.04
Prorocentrum micans	0.32	0.97	1.25	1.04	1.52	77.57
Leptocylicus danicus	0.69	0.46	1.12	0.70	1.36	78.93
Prorocentrum minimum	0.16	0.72	0.92	0.75	1.12	80.05
Chaetoceros compressum	0.00	0.87	0.88	0.66	1.07	81.11
Asterionella glacialis	0.00	0.87	0.87	0.66	1.06	82.18
Navicula sp. large	0.73	0.00	0.86	0.58	1.05	83.23
Chaetoceros subtilis	0.27	0.59	0.79	0.50	0.96	84.19

Thalassiosira decipiens	0.00	0.64	0.76	0.65	0.92	85.11
Unknown diatom sp. A	0.58	0.00	0.66	0.41	0.81	85.92
Nitzschia longissima	0.00	0.64	0.66	0.86	0.80	86.72
Prorocentrum sp.	0.58	0.00	0.65	0.40	0.79	87.51
Amphora sp.	0.08	0.41	0.54	0.49	0.66	88.17
Navicula sp. small	0.46	0.00	0.51	0.35	0.63	88.80
Chaetoceros gracile	0.36	0.05	0.48	0.22	0.58	89.38
Gymnodinium sp.	0.22	0.25	0.46	0.54	0.55	89.93
Melosira sp.	0.00	0.26	0.43	0.33	0.52	90.46

Groups 75%Grp5 & 75%Grp9

Average dissimilarity = 83.81

Species	Group 75%Grp5 Av.Abund	Group 75%Grp9 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	11.14	1.64	13.30	13.30
Unknown diatom sp. D	8.36	0.00	8.38	3.02	10.00	23.30
Unknown Cryptophyte sp.	7.43	0.00	8.05	4.38	9.60	32.90
Unknown diatom sp.	4.70	0.00	4.97	4.95	5.93	38.83
Thalassiosira sp.	4.72	0.93	4.28	2.01	5.11	43.94
Pyramimonas sp.	3.83	0.06	4.16	3.48	4.96	48.90
Skeletonema costatum	5.96	5.07	3.78	1.35	4.51	53.41
Nitzschia closterium	4.12	1.37	3.60	1.50	4.29	57.70
Chaetoceros sp.	3.08	0.56	2.82	1.02	3.36	61.06
Gymnodinium sp.	2.63	0.25	2.33	1.06	2.78	63.85
Nitzschia pungens	2.29	1.11	2.21	1.17	2.64	66.48
Schizothrix sp.	0.00	2.14	2.17	0.66	2.59	69.07
Leptocylicus minimum	1.88	1.63	2.01	1.33	2.39	71.47
Thalassionema nitzschoides	0.00	1.63	1.78	0.74	2.12	73.59
Ceratulina bergonii	0.00	1.39	1.49	0.88	1.78	75.37
Peridinium sp.	1.50	0.41	1.41	1.17	1.68	77.05
Chaetoceros socialis	0.00	1.47	1.36	0.79	1.62	78.68
Rhizosolenia setigera	1.26	0.93	1.31	1.12	1.56	80.24
Prorocentrum sp.	1.50	0.00	1.30	0.97	1.55	81.79
Chaetoceros neogracile	0.00	1.24	1.24	0.87	1.47	83.26
Leptocylicus danicus	1.26	0.46	1.17	1.11	1.40	84.66
Unknown pennate diatom sp.	0.00	1.09	1.14	0.87	1.36	86.02
Navicula sp. large	1.26	0.00	1.09	0.97	1.31	87.33
Prorocentrum micans	0.00	0.97	1.02	0.97	1.21	88.54
Chaetoceros compressum	0.00	0.87	0.79	0.66	0.94	89.48
Asterionella glacialis	0.00	0.87	0.79	0.65	0.94	90.42

Groups 75%Grp8 & 75%Grp9

Average dissimilarity = 86.73

Species	Group 75%Grp8 Av.Abund	Group 75%Grp9 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	5.07	8.12	1.31	9.36	9.36
Schizothrix sp.	0.00	2.14	3.73	0.68	4.30	13.66
Cyclotella sp.	1.76	0.00	3.47	0.68	4.00	17.67
Cyclotella sp. (small)	1.79	0.00	3.46	0.66	3.99	21.66
Thalassionema nitzschoides	0.00	1.63	3.35	0.68	3.87	25.52
Unknown pennate diatom sp.	2.07	1.09	3.28	1.11	3.78	29.30
Ceratulina bergonii	0.00	1.39	2.75	0.73	3.17	32.48
Cyclotella sp. (large)	1.45	0.00	2.69	0.56	3.10	35.58
Leptocylicus minimum	0.00	1.63	2.49	1.10	2.87	38.44
Thalassiosira decipiens	0.91	0.64	2.38	0.70	2.75	41.19
Nitzschia closterium	0.08	1.37	2.21	0.83	2.55	43.74
Thalassiosira pseudonana	1.05	0.37	2.20	0.62	2.53	46.27
Scenedesmus quadracauda	1.15	0.06	2.18	0.98	2.52	48.79
Chaetoceros socialis	0.00	1.47	2.17	0.80	2.51	51.29
Chaetoceros neogracile	0.00	1.24	2.10	0.85	2.42	53.71
Gymnodinium sp.	1.01	0.25	1.99	0.91	2.30	56.01
Schroederia setigera	1.04	0.09	1.95	0.97	2.24	58.26
Eutreptia sp.	0.88	0.14	1.87	0.88	2.15	60.41
Prorocentrum micans	0.00	0.97	1.79	0.95	2.07	62.47
Scenedesmus bijinga	0.90	0.06	1.74	0.79	2.01	64.48
Nitzschia pungens	0.00	1.11	1.70	0.70	1.96	66.44
Rhizosolenia setigera	0.00	0.93	1.68	0.75	1.94	68.38
Thalassiosira sp.	0.10	0.93	1.67	0.66	1.92	70.30
Nitzschia longissima	0.78	0.64	1.58	0.98	1.82	72.12
Melosira sp.	0.36	0.26	1.33	0.49	1.53	73.65
Chaetoceros subtilis	0.44	0.59	1.33	0.70	1.53	75.18
Akistrodesmus falcatus	0.64	0.05	1.27	0.65	1.47	76.65
Chaetoceros compressum	0.00	0.87	1.25	0.66	1.44	78.09
Ceratium hircus	0.00	0.73	1.24	0.83	1.43	79.53
Asterionella glacialis	0.00	0.87	1.24	0.66	1.43	80.95
Prorocentrum minimum	0.16	0.72	1.19	0.92	1.38	82.33
Chaetoceros sp.	0.00	0.56	1.18	0.32	1.36	83.69
Bluegreen filamentous sp.	0.41	0.06	0.92	0.59	1.06	84.75
Peridinium sp.	0.00	0.41	0.89	0.52	1.02	85.77
Pleurosigma sp.	0.24	0.27	0.87	0.62	1.01	86.78
Merismopedia punctata	0.29	0.09	0.77	0.41	0.89	87.67
Leptocylicus danicus	0.00	0.46	0.69	0.58	0.80	88.47

Amphora sp.	0.00	0.41	0.67	0.43	0.77	89.24
Cyclotella meneghiniana	0.40	0.00	0.65	0.27	0.75	89.99
Scenedesmus acutus	0.34	0.00	0.62	0.38	0.71	90.71

Groups 75%Grp10 & 75%Grp9

Average dissimilarity = 75.47

Species	Group 75%Grp10 Av.Abund	Group 75%Grp9 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.94	5.07	6.61	1.23	8.75	8.75
Chaetoceros subtilis	2.19	0.59	4.86	0.94	6.44	15.19
Schizothrix sp.	1.06	2.14	4.61	0.85	6.11	21.30
Thalassionema nitzschoides	0.32	1.63	3.39	0.69	4.49	25.79
Ceratulina bergonii	0.40	1.39	2.85	0.74	3.77	29.56
Leptocylicus minimum	0.80	1.63	2.72	1.13	3.60	33.16
Chaetoceros socialis	0.70	1.47	2.67	1.04	3.54	36.70
Nitzschia closterium	0.79	1.37	2.62	1.04	3.48	40.18
Peridinium aciculiferum	1.12	0.06	2.57	0.77	3.41	43.59
Thalassiosira sp.	0.84	0.93	2.46	0.85	3.26	46.85
Unknown pennate diatom sp.	0.75	1.09	2.29	0.94	3.04	49.89
Chaetoceros neogracile	0.39	1.24	2.21	0.91	2.92	52.82
Nitzschia pungens	0.45	1.11	2.08	0.85	2.76	55.58
Thalassiosira pseudonana	0.90	0.37	1.98	0.84	2.62	58.19
Prorocentrum micans	0.24	0.97	1.86	0.98	2.47	60.66
Rhizosolenia setigera	0.28	0.93	1.82	0.83	2.41	63.08
Nitzschia longissima	0.75	0.64	1.60	0.96	2.12	65.20
Ceratium hircus	0.22	0.73	1.46	0.86	1.94	67.13
Prorocentrum minimum	0.38	0.72	1.36	0.96	1.80	68.93
Chaetoceros sp.	0.12	0.56	1.35	0.37	1.79	70.72
Thalassiosira decipiens	0.06	0.64	1.30	0.59	1.72	72.44
Chaetoceros compressum	0.00	0.87	1.28	0.67	1.69	74.14
Eutreptia sp.	0.58	0.14	1.26	0.72	1.68	75.81
Asterionella glacialis	0.00	0.87	1.26	0.67	1.67	77.48
Schroederia setigera	0.53	0.09	1.23	0.61	1.63	79.11
Peridinium sp.	0.20	0.41	1.10	0.61	1.46	80.57
Gymnodinium sp.	0.37	0.25	0.98	0.60	1.30	81.87
Gonyaulax monilata	0.33	0.19	0.93	0.55	1.23	83.10
Leptocylicus danicus	0.18	0.46	0.90	0.65	1.20	84.29
Gonyaulax polygramma	0.21	0.22	0.89	0.49	1.18	85.48
Melosira sp.	0.00	0.26	0.86	0.31	1.14	86.62
Cyclotella sp.	0.45	0.00	0.81	0.47	1.07	87.69
Scrippsiella sp.	0.29	0.24	0.81	0.61	1.07	88.77

Cyclotella sp. (small)	0.35	0.00	0.80	0.30	1.06	89.83
Amphora sp.	0.06	0.41	0.77	0.47	1.02	90.85

Groups 75%Grp12 & 75%Grp9

Average dissimilarity = 79.79

Species	Group 75%Grp12 Av.Abund	Group 75%Grp9 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	4.06	5.07	6.23	1.37	7.80	7.80
Chaetoceros subtilis	2.80	0.59	5.12	1.23	6.41	14.22
Schizothrix sp.	0.71	2.14	4.22	0.82	5.28	19.50
Thalassionema nitzschoides	0.09	1.63	3.15	0.71	3.94	23.44
Cyclotella sp. (small)	1.40	0.00	2.72	0.64	3.41	26.85
Ceratulina bergonii	0.14	1.39	2.57	0.78	3.22	30.06
Leptocylindricus minimum	0.29	1.63	2.44	1.13	3.06	33.13
Thalassiosira pseudonana	1.15	0.37	2.43	0.72	3.04	36.17
Schroederia setigera	1.25	0.09	2.34	1.24	2.93	39.10
Nitzschia closterium	0.40	1.37	2.27	0.92	2.85	41.95
Unknown pennate diatom sp.	0.72	1.09	2.23	1.01	2.79	44.74
Peridinium aciculiferum	1.07	0.06	2.21	0.68	2.77	47.51
Chaetoceros socialis	0.00	1.47	2.12	0.82	2.65	50.16
Chaetoceros neogracile	0.17	1.24	2.06	0.90	2.58	52.74
Gymnodinium sp.	1.06	0.25	2.05	0.83	2.57	55.31
Nitzschia pungens	0.21	1.11	1.82	0.81	2.28	57.59
Thalassiosira sp.	0.31	0.93	1.76	0.76	2.20	59.79
Prorocentrum micans	0.00	0.97	1.72	0.99	2.15	61.94
Nitzschia longissima	0.91	0.64	1.71	0.99	2.14	64.08
Rhizosolenia setigera	0.06	0.93	1.62	0.82	2.03	66.11
Thalassiosira decipiens	0.59	0.64	1.61	0.83	2.02	68.13
Cyclotella sp.	0.79	0.00	1.46	0.51	1.83	69.96
Scenedesmus quadracauda	0.73	0.06	1.44	0.77	1.81	71.77
Gonyaulax polygramma	0.53	0.22	1.29	0.70	1.62	73.39
Peridinium sp.	0.41	0.41	1.22	0.73	1.53	74.92
Prorocentrum minimum	0.29	0.72	1.22	0.99	1.53	76.45
Chaetoceros compressum	0.00	0.87	1.22	0.67	1.53	77.98
Asterionella glacialis	0.00	0.87	1.21	0.67	1.51	79.49
Ceratium hircus	0.00	0.73	1.20	0.85	1.50	80.99
Chaetoceros sp.	0.00	0.56	1.12	0.34	1.40	82.39
Eutreptia sp.	0.42	0.14	0.99	0.60	1.24	83.63
Melosira sp.	0.15	0.26	0.93	0.40	1.17	84.80
Scenedesmus bijinga	0.43	0.06	0.92	0.51	1.15	85.94
Leptocylindricus danicus	0.20	0.46	0.91	0.64	1.14	87.08

Akistrodesmus falcatus	0.46	0.05	0.90	0.57	1.12	88.21
Euglena sp.	0.38	0.00	0.77	0.47	0.96	89.17
Pleurosigma sp.	0.16	0.27	0.74	0.51	0.93	90.09

Groups 75%Grp13 & 75%Grp9

Average dissimilarity = 76.92

Species	Group 75%Grp13 Av.Abund	Group 75%Grp9 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.90	5.07	7.94	1.06	10.32	10.32
Schizothrix sp.	0.49	2.14	3.74	0.76	4.86	15.18
Thalassionema nitzschooides	0.20	1.63	3.00	0.70	3.90	19.09
Thalassiosira sp.	1.38	0.93	2.99	0.82	3.88	22.97
Thalassiosira pseudonana	1.56	0.37	2.77	0.83	3.60	26.57
Ceratulina bergonii	0.53	1.39	2.73	0.78	3.55	30.12
Prorocentrum minimum	1.59	0.72	2.65	0.95	3.45	33.56
Leptocylicus minimum	0.75	1.63	2.59	1.11	3.37	36.93
Eutryptia sp.	1.43	0.14	2.50	0.92	3.24	40.18
Unknown pennate diatom sp.	0.81	1.09	2.24	0.96	2.91	43.08
Nitzschia closterium	0.62	1.37	2.21	0.99	2.87	45.96
Chaetoceros socialis	0.28	1.47	2.17	0.86	2.83	48.79
Chaetoceros neogracile	0.31	1.24	1.98	0.90	2.58	51.36
Chaetoceros subtilis	0.83	0.59	1.78	0.79	2.31	53.67
Thalassiosira decipiens	0.84	0.64	1.77	0.84	2.30	55.97
Nitzschia pungens	0.12	1.11	1.66	0.74	2.15	58.13
Prorocentrum micans	0.13	0.97	1.63	0.97	2.12	60.24
Rhizosolenia setigera	0.16	0.93	1.62	0.80	2.10	62.35
Schroederia setigera	0.82	0.09	1.56	0.80	2.03	64.38
Peridinium aciculiferum	0.84	0.06	1.52	0.78	1.97	66.35
Nitzschia longissima	0.74	0.64	1.40	0.96	1.82	68.17
Cyclotella sp.	0.83	0.00	1.30	0.48	1.69	69.86
Scrippsiella sp.	0.59	0.24	1.25	0.67	1.63	71.48
Ceratium hircus	0.08	0.73	1.18	0.85	1.54	73.02
Chaetoceros compressum	0.00	0.87	1.17	0.66	1.52	74.54
Euglena sp.	0.69	0.00	1.16	0.43	1.51	76.05
Asterionella glacialis	0.00	0.87	1.16	0.66	1.51	77.56
Chaetoceros sp.	0.00	0.56	1.07	0.33	1.39	78.95
Merismopedia punctata	0.54	0.09	1.07	0.47	1.39	80.33
Gymnodinium sp.	0.53	0.25	1.01	0.79	1.32	81.65
Peridinium sp.	0.31	0.41	1.01	0.67	1.31	82.97
Scenedesmus quadricauda	0.46	0.06	0.85	0.50	1.10	84.07
Akistrodesmus falcatus	0.43	0.05	0.79	0.55	1.03	85.10

Amphora sp.	0.13	0.41	0.75	0.52	0.98	86.08
Melosira sp.	0.00	0.26	0.73	0.31	0.94	87.02
Leptocylicus danicus	0.09	0.46	0.72	0.62	0.93	87.95
Nostoc sp.(trichomes)	0.27	0.17	0.68	0.52	0.88	88.83
Crucigenia sp.	0.38	0.00	0.65	0.45	0.85	89.68
Gonyaulax polygramma	0.15	0.22	0.65	0.46	0.85	90.53

Groups 75%Grp4 & 75%Grp11

Average dissimilarity = 95.46

Species	Group 75%Grp4 Av.Abund	Group 75%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	9.95	1.57	10.42	10.42
Skeletonema costatum	0.16	4.09	8.04	2.24	8.42	18.84
Unknown diatom sp.	3.09	0.00	6.31	2.35	6.61	25.45
Unknown diatom sp. D	2.34	0.00	4.66	1.55	4.88	30.33
Thalassiosira sp.	2.01	0.36	3.78	1.66	3.96	34.29
Prorocentrum micans	1.61	0.25	3.75	0.59	3.93	38.22
Unknown Dinoflagellate sp.	1.73	0.00	3.64	0.97	3.82	42.04
Nitzschia closterium	0.20	1.55	3.04	1.52	3.18	45.22
Scenedesmus sp.	1.47	0.07	2.80	1.14	2.93	48.15
Navicula sp. small	1.23	0.00	2.60	0.84	2.72	50.87
Leptocylicus minimum	0.61	0.93	2.07	1.02	2.17	53.04
Chaetoceros subtilis	0.00	0.83	1.87	0.64	1.96	54.99
Chaetoceros socialis	0.00	0.99	1.84	0.87	1.92	56.92
Nitzschia pungens	0.80	0.30	1.76	0.87	1.85	58.76
Peridinium aciculiferum	0.00	0.79	1.75	0.79	1.83	60.59
Unknown bluegreen sp.	0.83	0.00	1.73	0.88	1.81	62.41
Coscinodiscus sp.	0.83	0.00	1.73	0.57	1.81	64.22
Pyramimonas sp.	0.84	0.15	1.71	0.86	1.79	66.01
Unknown pennate diatom sp.	0.00	0.84	1.55	0.80	1.63	67.64
Navicula sp. large	0.66	0.00	1.48	0.64	1.55	69.19
Tetraedron sp.	0.82	0.00	1.47	0.75	1.54	70.73
Akistrodesmus sp.	0.76	0.05	1.42	0.60	1.48	72.22
Schizothrix sp.	0.00	0.67	1.33	0.43	1.39	73.61
Thalassionema nitzschoides	0.35	0.48	1.30	0.74	1.36	74.96
Ceratulina bergonii	0.00	0.59	1.28	0.43	1.34	76.30
Eutreptia sp.	0.37	0.31	1.21	0.54	1.27	77.57
Chaetoceros neogracile	0.00	0.63	1.21	0.63	1.26	78.84
Rhizosolenia setigera	0.00	0.54	1.10	0.67	1.16	79.99
Nitzschia longissima	0.00	0.53	1.05	0.81	1.11	81.10
Prorocentrum sp.	0.45	0.00	0.92	0.38	0.97	82.06

Thalassiosira pseudonana	0.00	0.51	0.90	0.65	0.94	83.00
Leptocylicus danicus	0.27	0.15	0.84	0.49	0.88	83.88
Prorocentrum minimum	0.16	0.35	0.82	0.61	0.86	84.74
Nitzschia sp.	0.38	0.00	0.82	0.38	0.86	85.60
Prorocentrum redfieldi	0.40	0.00	0.74	0.36	0.77	86.37
Gymnodinium sp.	0.09	0.30	0.70	0.54	0.74	87.11
Eutreptiella sp.	0.35	0.00	0.66	0.39	0.69	87.79
Peridinium sp.	0.00	0.32	0.65	0.41	0.68	88.47
Chaetoceros compressum	0.00	0.31	0.63	0.41	0.66	89.14
Asterionella glacialis	0.00	0.35	0.62	0.42	0.65	89.79
Aphanocapsa sp.	0.36	0.00	0.60	0.39	0.62	90.41

Groups 75%Grp7 & 75%Grp11

Average dissimilarity = 89.91

Species	Group 75%Grp7 Av.Abund	Group 75%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	10.04	1.55	11.17	11.17
Unknown Cryptophyte sp.	6.29	0.00	9.79	2.21	10.89	22.06
Skeletonema costatum	3.34	4.09	5.55	1.34	6.17	28.24
Thalassiosira sp.	3.51	0.36	4.98	1.04	5.53	33.77
Unknown diatom sp.	3.30	0.00	4.87	1.61	5.42	39.19
Unknown Dinoflagellate sp.	3.01	0.00	4.74	1.22	5.28	44.46
Prorocentrum minimum	1.60	0.35	2.93	0.40	3.26	47.72
Peridinium sp.	1.80	0.32	2.62	0.83	2.91	50.64
Nitzschia closterium	0.92	1.55	2.42	1.48	2.69	53.33
Pyramimonas sp.	1.63	0.15	2.28	0.94	2.53	55.86
Eutreptia sp.	1.21	0.31	2.12	0.58	2.36	58.22
Skeletonema menezelli	1.46	0.00	1.84	0.34	2.05	60.27
Leptocylicus minimum	0.72	0.93	1.76	1.00	1.96	62.22
Chaetoceros sp.	1.28	0.11	1.74	0.64	1.93	64.16
Chaetoceros subtilis	0.16	0.83	1.54	0.64	1.71	65.87
Chaetoceros socialis	0.00	0.99	1.44	0.85	1.60	67.47
Nitzschia pungens	0.82	0.30	1.41	0.67	1.57	69.04
Peridinium aciculiferum	0.00	0.79	1.31	0.77	1.46	70.50
Rhizosolenia setigera	0.51	0.54	1.22	0.83	1.36	71.86
Unknown pennate diatom sp.	0.00	0.84	1.22	0.78	1.35	73.21
Prorocentrum sp.	0.77	0.00	1.13	0.33	1.25	74.46
Eutreptiella sp.	0.69	0.00	1.12	0.35	1.25	75.71
Schizothrix sp.	0.11	0.67	1.12	0.45	1.24	76.95
Ceratulina bergonii	0.00	0.59	0.97	0.42	1.08	78.03
Leptocylicus danicus	0.65	0.15	0.94	0.43	1.05	79.08

Unknown Katodinium sp.	0.54	0.00	0.94	0.29	1.05	80.12
Chaetoceros neogracile	0.00	0.63	0.94	0.62	1.04	81.17
Scenedesmus sp.	0.60	0.07	0.91	0.48	1.02	82.18
Prorocentrum micans	0.34	0.25	0.86	0.37	0.95	83.14
Thalassionema nitzschoides	0.14	0.48	0.82	0.60	0.92	84.05
Nitzschia longissima	0.00	0.53	0.81	0.79	0.91	84.96
Thalassiosira pseudonana	0.00	0.51	0.71	0.64	0.79	85.75
Glenodinium sp.	0.50	0.00	0.70	0.30	0.78	86.53
Ceratium hircus	0.36	0.14	0.69	0.43	0.77	87.30
Navicula sp. large	0.47	0.00	0.69	0.44	0.76	88.06
Chaetoceros gracile	0.51	0.00	0.67	0.29	0.75	88.81
Unknown diatom sp. A	0.52	0.00	0.67	0.33	0.74	89.55
Amphora sp.	0.20	0.21	0.60	0.41	0.67	90.22

Groups 75%Grp6 & 75%Grp11

Average dissimilarity = 82.84

Species	Group 75%Grp6 Av.Abund	Group 75%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.13	0.00	8.35	1.95	10.08	10.08
Unknown Cryptophyte sp.	5.10	0.00	7.67	2.27	9.26	19.33
Skeletonema costatum	7.46	4.09	7.02	1.56	8.47	27.80
Thalassiosira sp.	4.15	0.36	5.10	2.24	6.16	33.96
Unknown diatom sp.	3.67	0.00	5.05	2.17	6.10	40.06
Nitzschia closterium	3.83	1.55	3.72	1.77	4.49	44.55
Nitzschia pungens	2.56	0.30	3.43	1.26	4.15	48.69
Unknown Dinoflagellate sp.	2.35	0.00	3.14	1.30	3.79	52.48
Chaetoceros sp.	2.39	0.11	3.11	1.12	3.75	56.23
Skeletonema menezelli	2.03	0.00	2.31	0.40	2.79	59.02
Leptocylindricus minimum	1.46	0.93	2.22	1.07	2.68	61.70
Pyramimonas sp.	1.39	0.15	2.07	0.80	2.50	64.21
Peridinium sp.	1.06	0.32	1.53	0.70	1.84	66.05
Chaetoceros subtilis	0.27	0.83	1.52	0.66	1.83	67.88
Thalassionema nitzschoides	0.96	0.48	1.48	0.83	1.79	69.67
Rhizosolenia setigera	0.77	0.54	1.36	0.89	1.64	71.31
Chaetoceros socialis	0.00	0.99	1.33	0.85	1.61	72.92
Ceratium hircus	0.95	0.14	1.23	0.55	1.49	74.41
Peridinium aciculiferum	0.00	0.79	1.20	0.77	1.45	75.86
Unknown pennate diatom sp.	0.00	0.84	1.13	0.77	1.36	77.23
Leptocylindricus danicus	0.69	0.15	1.09	0.59	1.32	78.55
Navicula sp. large	0.73	0.00	0.98	0.59	1.18	79.73
Schizothrix sp.	0.00	0.67	0.95	0.42	1.14	80.87

Ceratulina bergonii	0.00	0.59	0.89	0.42	1.07	81.95
Chaetoceros neogracile	0.00	0.63	0.87	0.62	1.05	82.99
Unknown diatom sp. A	0.58	0.00	0.75	0.42	0.91	83.91
Nitzschia longissima	0.00	0.53	0.75	0.80	0.91	84.81
Prorocentrum sp.	0.58	0.00	0.74	0.41	0.89	85.71
Prorocentrum minimum	0.16	0.35	0.68	0.48	0.83	86.53
Thalassiosira pseudonana	0.00	0.51	0.66	0.64	0.80	87.33
Prorocentrum micans	0.32	0.25	0.63	0.54	0.76	88.09
Gymnodinium sp.	0.22	0.30	0.60	0.55	0.73	88.81
Navicula sp. small	0.46	0.00	0.58	0.36	0.70	89.52
Eutreptia sp.	0.08	0.31	0.53	0.50	0.64	90.16

Groups 75%Grp5 & 75%Grp11

Average dissimilarity = 82.94

Species	Group 75%Grp5 Av.Abund	Group 75%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	12.72	1.72	15.34	15.34
Unknown diatom sp. D	8.36	0.00	9.40	3.69	11.34	26.68
Unknown Cryptophyte sp.	7.43	0.00	9.10	6.44	10.97	37.65
Unknown diatom sp.	4.70	0.00	5.61	9.63	6.76	44.41
Thalassiosira sp.	4.72	0.36	5.44	3.21	6.56	50.97
Pyramimonas sp.	3.83	0.15	4.61	3.55	5.56	56.53
Nitzschia closterium	4.12	1.55	3.51	1.64	4.23	60.76
Chaetoceros sp.	3.08	0.11	2.99	1.02	3.61	64.37
Skeletonema costatum	5.96	4.09	2.71	1.43	3.27	67.64
Gymnodinium sp.	2.63	0.30	2.60	1.11	3.14	70.78
Nitzschia pungens	2.29	0.30	2.28	1.09	2.75	73.53
Leptocylindricus minimum	1.88	0.93	2.06	1.37	2.49	76.02
Peridinium sp.	1.50	0.32	1.53	1.06	1.85	77.86
Prorocentrum sp.	1.50	0.00	1.44	0.98	1.73	79.59
Rhizosolenia setigera	1.26	0.54	1.37	1.19	1.65	81.25
Leptocylindricus danicus	1.26	0.15	1.25	1.05	1.50	82.75
Navicula sp. large	1.26	0.00	1.21	0.98	1.46	84.20
Chaetoceros socialis	0.00	0.99	1.16	0.84	1.40	85.60
Chaetoceros subtilis	0.00	0.83	1.10	0.63	1.32	86.92
Peridinium aciculiferum	0.00	0.79	1.03	0.77	1.24	88.16
Unknown pennate diatom sp.	0.00	0.84	0.98	0.77	1.19	89.35
Schizothrix sp.	0.00	0.67	0.82	0.42	0.99	90.33

Groups 75%Grp8 & 75%Grp11

Average dissimilarity = 82.99

Species	Group 75%Grp8 Av.Abund	Group 75%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	4.09	8.39	1.35	10.11	10.11
Cyclotella sp. (small)	1.79	0.15	4.29	0.73	5.17	15.28
Cyclotella sp.	1.76	0.17	4.26	0.77	5.13	20.41
Unknown pennate diatom sp.	2.07	0.84	4.18	1.19	5.04	25.45
Nitzschia closterium	0.08	1.55	3.45	1.41	4.16	29.62
Cyclotella sp. (large)	1.45	0.00	3.21	0.59	3.87	33.48
Thalassiosira pseudonana	1.05	0.51	2.82	0.74	3.40	36.89
Chaetoceros subtilis	0.44	0.83	2.66	0.72	3.21	40.09
Scenedesmus quadracauda	1.15	0.09	2.62	1.07	3.16	43.25
Gymnodinium sp.	1.01	0.30	2.46	1.01	2.96	46.21
Schroederia setigera	1.04	0.00	2.34	1.03	2.82	49.03
Eutreptia sp.	0.88	0.31	2.24	1.01	2.70	51.73
Peridinium aciculiferum	0.11	0.79	2.22	0.78	2.68	54.40
Chaetoceros socialis	0.00	0.99	2.18	0.86	2.63	57.03
Leptocylindricus minimum	0.00	0.93	2.16	0.83	2.61	59.64
Thalassiosira decipiens	0.91	0.12	2.14	0.56	2.57	62.22
Scenedesmus bijinga	0.90	0.00	2.05	0.82	2.47	64.68
Nitzschia longissima	0.78	0.53	1.91	1.06	2.30	66.99
Ceratulina bergonii	0.00	0.59	1.59	0.42	1.92	68.91
Schizothrix sp.	0.00	0.67	1.59	0.42	1.92	70.83
Akistrodesmus falcatus	0.64	0.00	1.48	0.66	1.78	72.61
Chaetoceros neogracile	0.00	0.63	1.44	0.62	1.74	74.35
Rhizosolenia setigera	0.00	0.54	1.36	0.63	1.63	75.99
Thalassionema nitzschoides	0.00	0.48	1.13	0.56	1.36	77.35
Thalassiosira sp.	0.10	0.36	1.08	0.43	1.30	78.65
Bluegreen filamentous sp.	0.41	0.00	1.05	0.60	1.27	79.92
Prorocentrum minimum	0.16	0.35	1.00	0.65	1.20	81.12
Melosira sp.	0.36	0.00	0.87	0.49	1.05	82.17
Pleurosigma sp.	0.24	0.11	0.84	0.57	1.01	83.18
Peridinium sp.	0.00	0.32	0.79	0.41	0.95	84.13
Chaetoceros compressum	0.00	0.31	0.77	0.40	0.93	85.06
Cyclotella meneghiniana	0.40	0.00	0.77	0.27	0.92	85.99
Crucigenia sp.	0.22	0.00	0.76	0.49	0.92	86.90
Merismopedia punctata	0.29	0.00	0.75	0.38	0.90	87.81
Scenedesmus acutus	0.34	0.00	0.74	0.40	0.89	88.69
Asterionella glacialis	0.00	0.35	0.73	0.42	0.87	89.57
Gonyaulax polygramma	0.00	0.27	0.71	0.41	0.85	90.42

Groups 75%Grp10 & 75%Grp11

Average dissimilarity = 65.20

Species	Group 75%Grp10 Av.Abund	Group 75%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Chaetoceros subtilis	2.19	0.83	5.33	1.11	8.17	8.17
Skeletonema costatum	3.94	4.09	4.25	0.93	6.52	14.69
Peridinium aciculiferum	1.12	0.79	3.26	1.07	5.00	19.69
Schizothrix sp.	1.06	0.67	3.26	0.70	5.00	24.68
Nitzschia closterium	0.79	1.55	3.10	1.20	4.75	29.44
Leptocylindricus minimum	0.80	0.93	2.72	1.00	4.17	33.61
Chaetoceros socialis	0.70	0.99	2.59	1.02	3.97	37.58
Thalassiosira sp.	0.84	0.36	2.49	0.77	3.81	41.39
Unknown pennate diatom sp.	0.75	0.84	2.41	1.03	3.69	45.09
Thalassiosira pseudonana	0.90	0.51	2.39	0.95	3.66	48.75
Ceratulina bergonii	0.40	0.59	2.18	0.55	3.34	52.09
Nitzschia longissima	0.75	0.53	1.95	1.04	2.99	55.08
Chaetoceros neogracile	0.39	0.63	1.82	0.77	2.80	57.87
Rhizosolenia setigera	0.28	0.54	1.63	0.75	2.50	60.37
Eutreptia sp.	0.58	0.31	1.59	0.87	2.44	62.82
Thalassionema nitzschoides	0.32	0.48	1.52	0.71	2.32	65.14
Nitzschia pungens	0.45	0.30	1.43	0.67	2.20	67.34
Schroederia setigera	0.53	0.00	1.42	0.61	2.17	69.51
Gymnodinium sp.	0.37	0.30	1.34	0.67	2.06	71.57
Cyclotella sp. (small)	0.35	0.15	1.32	0.39	2.02	73.59
Prorocentrum minimum	0.38	0.35	1.28	0.76	1.97	75.56
Cyclotella sp.	0.45	0.17	1.26	0.59	1.94	77.50
Gonyaulax polygramma	0.21	0.27	1.14	0.56	1.75	79.25
Peridinium sp.	0.20	0.32	1.13	0.55	1.74	80.99
Prorocentrum micans	0.24	0.25	0.94	0.55	1.44	82.43
Scrippsiella sp.	0.29	0.19	0.89	0.62	1.36	83.79
Chaetoceros compressum	0.00	0.31	0.79	0.40	1.22	85.01
Euglena sp.	0.14	0.26	0.77	0.45	1.18	86.18
Gonyaulax monilata	0.33	0.00	0.76	0.47	1.16	87.35
Asterionella glacialis	0.00	0.35	0.74	0.42	1.14	88.49
Ceratium hircus	0.22	0.14	0.73	0.43	1.12	89.61
Leptocylindricus danicus	0.18	0.15	0.64	0.46	0.98	90.59

Groups 75%Grp12 & 75%Grp11

Average dissimilarity = 70.96

Group 75%Grp12 Group 75%Grp11

Species	Av.Abund	Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Chaetoceros subtilis	2.80	0.83	5.59	1.42	7.87	7.87
Skeletonema costatum	4.06	4.09	4.11	1.15	5.79	13.66
Cyclotella sp. (small)	1.40	0.15	3.40	0.71	4.79	18.45
Peridinium aciculiferum	1.07	0.79	3.08	0.99	4.34	22.79
Nitzschia closterium	0.40	1.55	3.04	1.36	4.28	27.07
Thalassiosira pseudonana	1.15	0.51	2.97	0.84	4.19	31.26
Schroederia setigera	1.25	0.00	2.89	1.42	4.07	35.33
Schizothrix sp.	0.71	0.67	2.81	0.63	3.96	39.29
Gymnodinium sp.	1.06	0.30	2.51	0.91	3.54	42.82
Unknown pennate diatom sp.	0.72	0.84	2.38	1.01	3.35	46.17
Leptocylindricus minimum	0.29	0.93	2.17	0.93	3.06	49.23
Chaetoceros socialis	0.00	0.99	2.08	0.88	2.93	52.16
Cyclotella sp.	0.79	0.17	1.96	0.61	2.76	54.92
Nitzschia longissima	0.91	0.53	1.95	1.11	2.75	57.67
Scenedesmus quadricauda	0.73	0.09	1.75	0.83	2.47	60.14
Ceratulina bergonii	0.14	0.59	1.66	0.49	2.34	62.47
Gonyaulax polygramma	0.53	0.27	1.57	0.77	2.22	64.69
Chaetoceros neogracile	0.17	0.63	1.54	0.71	2.17	66.86
Thalassiosira decipiens	0.59	0.12	1.46	0.79	2.05	68.91
Peridinium sp.	0.41	0.32	1.36	0.68	1.92	70.83
Thalassiosira sp.	0.31	0.36	1.34	0.58	1.89	72.71
Eutreptia sp.	0.42	0.31	1.31	0.75	1.84	74.56
Rhizosolenia setigera	0.06	0.54	1.31	0.70	1.84	76.40
Euglena sp.	0.38	0.26	1.27	0.61	1.79	78.19
Thalassionema nitzschoides	0.09	0.48	1.18	0.62	1.66	79.85
Prorocentrum minimum	0.29	0.35	1.09	0.74	1.53	81.38
Nitzschia pungens	0.21	0.30	1.03	0.59	1.46	82.84
Akistrodesmus falcatus	0.46	0.00	1.01	0.56	1.42	84.26
Scenedesmus bijinga	0.43	0.00	1.00	0.50	1.40	85.67
Chaetoceros compressum	0.00	0.31	0.73	0.41	1.02	86.69
Scrippsiella sp.	0.18	0.19	0.72	0.50	1.01	87.70
Asterionella glacialis	0.00	0.35	0.69	0.42	0.98	88.68
Leptocylindricus danicus	0.20	0.15	0.67	0.46	0.95	89.63
Merismopedia punctata	0.23	0.00	0.64	0.32	0.91	90.53

Groups 75%Grp13 & 75%Grp11

Average dissimilarity = 71.57

Species	Group 75%Grp13 Av.Abund	Group 75%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.90	4.09	7.24	1.09	10.11	10.11

Thalassiosira pseudonana	1.56	0.51	3.34	0.96	4.66	14.78
Prorocentrum minimum	1.59	0.35	3.21	1.00	4.48	19.25
Thalassiosira sp.	1.38	0.36	3.17	0.74	4.43	23.69
Eutreptia sp.	1.43	0.31	2.92	1.00	4.09	27.77
Chaetoceros subtilis	0.83	0.83	2.73	0.85	3.81	31.58
Nitzschia closterium	0.62	1.55	2.63	1.12	3.67	35.25
Leptocylindricus minimum	0.75	0.93	2.50	0.96	3.49	38.74
Unknown pennate diatom sp.	0.81	0.84	2.37	0.97	3.31	42.05
Peridinium aciculiferum	0.84	0.79	2.35	1.00	3.28	45.33
Ceratulina bergonii	0.53	0.59	2.26	0.58	3.16	48.49
Chaetoceros socialis	0.28	0.99	2.13	0.91	2.98	51.47
Schizothrix sp.	0.49	0.67	2.09	0.58	2.92	54.39
Schroederia setigera	0.82	0.00	1.88	0.86	2.62	57.01
Cyclotella sp.	0.83	0.17	1.76	0.59	2.46	59.47
Thalassiosira decipiens	0.84	0.12	1.72	0.82	2.40	61.87
Euglena sp.	0.69	0.26	1.69	0.54	2.36	64.23
Nitzschia longissima	0.74	0.53	1.65	1.02	2.31	66.54
Chaetoceros neogracile	0.31	0.63	1.59	0.75	2.22	68.76
Scrippsiella sp.	0.59	0.19	1.45	0.69	2.03	70.78
Rhizosolenia setigera	0.16	0.54	1.36	0.69	1.90	72.69
Gymnodinium sp.	0.53	0.30	1.32	0.82	1.84	74.53
Thalassionema nitzschoides	0.20	0.48	1.31	0.63	1.83	76.36
Merismopedia punctata	0.54	0.00	1.12	0.45	1.56	77.92
Peridinium sp.	0.31	0.32	1.09	0.62	1.52	79.44
Scenedesmus quadracauda	0.46	0.09	1.04	0.53	1.46	80.90
Akistrodesmus falcatus	0.43	0.00	0.88	0.54	1.22	82.12
Pyramimonas sp.	0.33	0.15	0.86	0.41	1.20	83.32
Gonyaulax polygramma	0.15	0.27	0.84	0.52	1.17	84.49
Nitzschia pungens	0.12	0.30	0.78	0.49	1.10	85.59
Crucigenia sp.	0.38	0.00	0.77	0.47	1.08	86.67
Chaetoceros compressum	0.00	0.31	0.69	0.40	0.97	87.63
Prorocentrum micans	0.13	0.25	0.68	0.50	0.94	88.58
Asterionella glacialis	0.00	0.35	0.66	0.42	0.93	89.50
Cyclotella sp. (small)	0.13	0.15	0.59	0.30	0.82	90.32

Groups 75%Grp9 & 75%Grp11

Average dissimilarity = 72.77

Species	Group 75%Grp9 Av.Abund	Group 75%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.07	4.09	7.06	1.20	9.70	9.70
Schizothrix sp.	2.14	0.67	4.55	0.79	6.25	15.95

Thalassionema nitzschoides	1.63	0.48	3.52	0.70	4.83	20.78
Nitzschia closterium	1.37	1.55	3.38	1.25	4.64	25.42
Ceratulina bergonii	1.39	0.59	3.26	0.74	4.48	29.90
Chaetoceros socialis	1.47	0.99	3.00	1.09	4.12	34.02
Leptocylicus minimum	1.63	0.93	2.82	1.07	3.87	37.89
Unknown pennate diatom sp.	1.09	0.84	2.53	0.95	3.48	41.38
Chaetoceros neogracile	1.24	0.63	2.48	0.92	3.41	44.78
Chaetoceros subtilis	0.59	0.83	2.37	0.67	3.25	48.03
Thalassiosira sp.	0.93	0.36	2.11	0.70	2.90	50.93
Rhizosolenia setigera	0.93	0.54	2.09	0.88	2.88	53.81
Nitzschia pungens	1.11	0.30	2.04	0.79	2.81	56.62
Prorocentrum micans	0.97	0.25	1.97	0.97	2.70	59.32
Peridinium aciculiferum	0.06	0.79	1.95	0.70	2.67	61.99
Chaetoceros compressum	0.87	0.31	1.69	0.75	2.33	64.32
Asterionella glacialis	0.87	0.35	1.65	0.77	2.27	66.59
Chaetoceros sp.	0.56	0.11	1.43	0.37	1.97	68.56
Nitzschia longissima	0.64	0.53	1.43	0.93	1.96	70.52
Thalassiosira decipiens	0.64	0.12	1.42	0.62	1.94	72.46
Ceratium hircus	0.73	0.14	1.40	0.86	1.92	74.38
Peridinium sp.	0.41	0.32	1.37	0.64	1.88	76.26
Prorocentrum minimum	0.72	0.35	1.34	0.97	1.84	78.11
Thalassiosira pseudonana	0.37	0.51	1.28	0.72	1.75	79.86
Gonyaulax polygramma	0.22	0.27	1.02	0.51	1.40	81.26
Amphora sp.	0.41	0.21	0.94	0.55	1.30	82.55
Melosira sp.	0.26	0.00	0.91	0.31	1.25	83.80
Leptocylicus danicus	0.46	0.15	0.89	0.65	1.22	85.02
Gymnodinium sp.	0.25	0.30	0.88	0.62	1.21	86.23
Eutreptia sp.	0.14	0.31	0.86	0.51	1.19	87.42
Chaetoceros curvisetus	0.43	0.11	0.71	0.40	0.98	88.39
Pleurosigma sp.	0.27	0.11	0.68	0.56	0.94	89.33
Chaetoceros lorenzianum	0.32	0.13	0.66	0.48	0.91	90.24

Groups 75%Grp4 & 75%Grp1

Average dissimilarity = 99.17

Species	Group 75%Grp4 Av.Abund	Group 75%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	8.61	1.60	8.68	8.68
Synechocystis aquaticus Sauvageau	0.00	3.49	6.61	1.63	6.67	15.35
Cryptomonas sp.1	0.00	3.26	5.92	3.21	5.97	21.31
Unknown diatom sp.	3.09	0.00	5.47	2.44	5.51	26.83
Unknown diatom sp. D	2.34	0.00	4.05	1.58	4.09	30.91

Scenedesmus quadricauda v. Westii	0.00	2.19	3.89	1.35	3.92	34.84
Thalassiosira sp.	2.01	0.00	3.54	1.93	3.57	38.41
Spermatozoopsis exultans	0.00	1.79	3.22	1.30	3.25	41.66
Gonyaulax palustre	0.00	1.82	3.22	1.53	3.25	44.90
Unknown Dinoflagellate sp.	1.73	0.00	3.14	0.99	3.17	48.07
Prorocentrum micans	1.61	0.00	3.07	0.56	3.10	51.17
Cryptomonas erosa	0.00	1.46	2.50	1.18	2.52	53.69
Scenedesmus sp.	1.47	0.00	2.46	1.14	2.48	56.18
Navicula sp. small	1.23	0.00	2.24	0.85	2.26	58.43
Skeletonema costatum	0.16	1.15	2.17	0.77	2.19	60.62
Chlymentomonas sp.	0.00	1.14	1.96	0.96	1.98	62.60
Cryptomonas ovata	0.00	1.01	1.83	0.87	1.85	64.44
Eutreptiella sp.	0.35	0.80	1.60	0.93	1.62	66.06
Coelosphaerium sp.	0.00	0.90	1.53	0.59	1.55	67.61
Coscinodiscus sp.	0.83	0.00	1.50	0.58	1.51	69.12
Unknown bluegreen sp.	0.83	0.00	1.49	0.89	1.51	70.62
Pyramimonas sp.	0.84	0.00	1.41	0.84	1.42	72.04
Nitzschia pungens	0.80	0.12	1.41	0.83	1.42	73.46
Tetraedron sp.	0.82	0.05	1.32	0.76	1.33	74.79
Navicula sp. large	0.66	0.00	1.27	0.64	1.28	76.07
Akistrodesmus sp.	0.76	0.00	1.21	0.57	1.22	77.29
Cyclotella sp.	0.00	0.73	1.17	0.66	1.18	78.47
Nitzschia palea	0.00	0.70	1.17	0.83	1.18	79.65
Leptocylindricus minimum	0.61	0.00	1.07	0.66	1.08	80.73
Unknown flagellate sp. 1	0.00	0.56	0.99	0.60	1.00	81.73
Chroococcus minutus	0.00	0.56	0.87	0.43	0.88	82.62
Nitzschia sp.	0.38	0.10	0.84	0.46	0.85	83.47
Prorocentrum sp.	0.45	0.00	0.80	0.38	0.81	84.27
Eutreptia sp.	0.37	0.00	0.68	0.35	0.69	84.96
Cyclotella undulata	0.00	0.37	0.67	0.29	0.68	85.64
Prorocentrum redfieldi	0.40	0.00	0.65	0.36	0.66	86.29
Aphanocapsa sp.	0.36	0.08	0.63	0.44	0.63	86.92
Euglena acus	0.00	0.35	0.58	0.34	0.58	87.51
Thalassionema nitzschoides	0.35	0.00	0.58	0.49	0.58	88.09
Leptocylindricus danicus	0.27	0.00	0.55	0.39	0.56	88.65
Scenedesmus abundans v. brevicauda	0.00	0.35	0.54	0.37	0.54	89.19
Merismopedia sp.	0.18	0.20	0.50	0.40	0.50	89.69
Merismopedia glauca	0.00	0.32	0.50	0.36	0.50	90.19

Groups 75%Grp7 & 75%Grp1

Average dissimilarity = 97.95

Species	Group 75%Grp7 Av.Abund	Group 75%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	9.01	1.57	9.20	9.20
Unknown Cryptophyte sp.	6.29	0.00	8.74	2.28	8.92	18.13
Synechocystis aquaticus Sauvageau	0.00	3.49	5.15	1.56	5.26	23.39
Thalassiosira sp.	3.51	0.00	4.67	1.07	4.76	28.15
Cryptomonas sp.1	0.00	3.26	4.65	2.82	4.74	32.89
Skeletonema costatum	3.34	1.15	4.42	0.97	4.51	37.41
Unknown diatom sp.	3.30	0.00	4.38	1.63	4.47	41.88
Unknown Dinoflagellate sp.	3.01	0.00	4.23	1.24	4.32	46.20
Scenedesmus quadricauda v. Westii	0.00	2.19	3.07	1.32	3.13	49.33
Gonyaulax palustre	0.00	1.82	2.54	1.47	2.60	51.92
Spermatozoopsis exultans	0.00	1.79	2.53	1.27	2.59	54.51
Prorocentrum minimum	1.60	0.00	2.34	0.35	2.39	56.90
Peridinium sp.	1.80	0.00	2.24	0.75	2.29	59.19
Pyramimonas sp.	1.63	0.00	2.03	0.92	2.08	61.27
Cryptomonas erosa	0.00	1.46	1.99	1.14	2.03	63.29
Eutreptiella sp.	0.69	0.80	1.72	0.66	1.76	65.05
Skeletonema menezelli	1.46	0.00	1.69	0.34	1.72	66.78
Eutreptia sp.	1.21	0.00	1.68	0.49	1.72	68.50
Chlymentomonas sp.	0.00	1.14	1.56	0.95	1.59	70.09
Chaetoceros sp.	1.28	0.00	1.50	0.60	1.53	71.62
Cryptomonas ovata	0.00	1.01	1.44	0.86	1.47	73.09
Nitzschia closterium	0.92	0.00	1.22	0.66	1.25	74.34
Coelosphaerium sp.	0.00	0.90	1.22	0.58	1.25	75.58
Nitzschia pungens	0.82	0.12	1.13	0.60	1.16	76.74
Prorocentrum sp.	0.77	0.00	1.01	0.34	1.03	77.77
Cyclotella sp.	0.00	0.73	0.94	0.65	0.96	78.73
Nitzschia palea	0.00	0.70	0.93	0.82	0.95	79.68
Unknown Katodinium sp.	0.54	0.07	0.89	0.31	0.91	80.59
Leptocylindricus minimum	0.72	0.00	0.83	0.54	0.85	81.44
Unknown flagellate sp. 1	0.00	0.56	0.78	0.59	0.80	82.24
Scenedesmus sp.	0.60	0.00	0.76	0.44	0.78	83.01
Leptocylindricus danicus	0.65	0.00	0.71	0.35	0.73	83.74
Chroococcus minutus	0.00	0.56	0.71	0.43	0.72	84.46
Glenodinium sp.	0.50	0.00	0.64	0.30	0.65	85.11
Navicula sp. large	0.47	0.00	0.62	0.44	0.63	85.74
Chaetoceros gracile	0.51	0.00	0.61	0.29	0.63	86.37
Unknown diatom sp. A	0.52	0.00	0.61	0.33	0.62	86.99
Rhizosolenia setigera	0.51	0.00	0.58	0.48	0.59	87.58
Cyclotella undulata	0.00	0.37	0.53	0.29	0.54	88.12
Aphanocapsa sp.	0.36	0.08	0.49	0.39	0.50	88.62
Prorocentrum redfieldi	0.41	0.00	0.48	0.19	0.49	89.12

Prorocentrum micans	0.34	0.00	0.48	0.24	0.49	89.61
Ceratium hircus	0.36	0.00	0.47	0.34	0.48	90.08

Groups 75%Grp6 & 75%Grp1

Average dissimilarity = 97.16

Species	Group 75%Grp6 Av.Abund	Group 75%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	7.46	1.15	8.56	1.68	8.81	8.81
Unknown diatom sp. D	6.13	0.00	7.56	1.95	7.78	16.59
Unknown Cryptophyte sp.	5.10	0.00	6.87	2.42	7.07	23.66
Thalassiosira sp.	4.15	0.00	4.98	2.57	5.12	28.79
Synechocystis aquaticus Sauvageau	0.00	3.49	4.78	1.57	4.92	33.70
Nitzschia closterium	3.83	0.00	4.76	2.42	4.90	38.60
Unknown diatom sp.	3.67	0.00	4.57	2.19	4.71	43.31
Cryptomonas sp.1	0.00	3.26	4.31	2.85	4.44	47.75
Nitzschia pungens	2.56	0.12	3.17	1.25	3.26	51.01
Scenedesmus quadricauda v. Westii	0.00	2.19	2.85	1.32	2.94	53.95
Unknown Dinoflagellate sp.	2.35	0.00	2.84	1.30	2.93	56.88
Chaetoceros sp.	2.39	0.00	2.84	1.11	2.93	59.80
Gonyaulax palustre	0.00	1.82	2.37	1.48	2.44	62.24
Spermatozoopsis exultans	0.00	1.79	2.35	1.28	2.42	64.66
Skeletonema menezelli	2.03	0.00	2.13	0.40	2.20	66.86
Cryptomonas erosa	0.00	1.46	1.85	1.14	1.91	68.76
Pyramimonas sp.	1.39	0.00	1.83	0.80	1.88	70.64
Leptocylindricus minimum	1.46	0.00	1.67	0.75	1.72	72.36
Chlymentomonas sp.	0.00	1.14	1.45	0.95	1.49	73.86
Cryptomonas ovata	0.00	1.01	1.34	0.86	1.38	75.23
Peridinium sp.	1.06	0.00	1.17	0.57	1.21	76.44
Coelosphaerium sp.	0.00	0.90	1.14	0.58	1.17	77.61
Eutreptiella sp.	0.12	0.80	1.08	0.86	1.11	78.72
Thalassionema nitzschoides	0.96	0.00	1.02	0.60	1.05	79.78
Ceratium hircus	0.95	0.00	1.01	0.48	1.04	80.82
Leptocylindricus danicus	0.69	0.00	0.89	0.53	0.92	81.74
Navicula sp. large	0.73	0.00	0.89	0.60	0.91	82.65
Cyclotella sp.	0.00	0.73	0.88	0.65	0.91	83.55
Nitzschia palea	0.00	0.70	0.87	0.82	0.89	84.45
Rhizosolenia setigera	0.77	0.00	0.86	0.59	0.88	85.33
Unknown flagellate sp. 1	0.00	0.56	0.73	0.59	0.75	86.08
Unknown diatom sp. A	0.58	0.00	0.68	0.42	0.70	86.78
Prorocentrum sp.	0.58	0.00	0.67	0.41	0.69	87.47
Chroococcus minutus	0.00	0.56	0.66	0.43	0.68	88.15

Navicula sp. small	0.46	0.00	0.53	0.36	0.55	88.70
Cyclotella undulata	0.00	0.37	0.49	0.29	0.51	89.21
Chaetoceros subtilis	0.27	0.16	0.47	0.28	0.48	89.69
Aphanocapsa sp.	0.40	0.08	0.47	0.42	0.48	90.17

Groups 75%Grp5 & 75%Grp1

Average dissimilarity = 97.22

Species	Group 75%Grp5 Av.Abund	Group 75%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	11.52	1.78	11.85	11.85
Unknown diatom sp. D	8.36	0.00	8.66	3.50	8.91	20.76
Unknown Cryptophyte sp.	7.43	0.00	8.32	7.57	8.56	29.32
Thalassiosira sp.	4.72	0.00	5.39	4.92	5.54	34.86
Skeletonema costatum	5.96	1.15	5.38	2.81	5.53	40.39
Unknown diatom sp.	4.70	0.00	5.14	10.49	5.28	45.67
Nitzschia closterium	4.12	0.00	4.85	3.07	4.99	50.66
Pyramimonas sp.	3.83	0.00	4.35	5.36	4.48	55.14
Synechocystis aquaticus Sauvageau	0.00	3.49	4.14	1.59	4.26	59.40
Cryptomonas sp.1	0.00	3.26	3.76	2.93	3.87	63.27
Chaetoceros sp.	3.08	0.00	2.77	0.98	2.85	66.12
Scenedesmus quadricauda v. Westii	0.00	2.19	2.49	1.33	2.56	68.68
Gymnodinium sp.	2.63	0.00	2.36	0.98	2.43	71.11
Nitzschia pungens	2.29	0.12	2.08	1.03	2.14	73.25
Gonyaulax palustre	0.00	1.82	2.07	1.48	2.13	75.37
Spermatozoopsis exultans	0.00	1.79	2.05	1.30	2.11	77.48
Leptocylindricus minimum	1.88	0.00	1.69	0.98	1.74	79.22
Cryptomonas erosa	0.00	1.46	1.62	1.14	1.67	80.89
Prorocentrum sp.	1.50	0.00	1.34	0.98	1.38	82.27
Peridinium sp.	1.50	0.00	1.34	0.98	1.38	83.66
Chlymentomonas sp.	0.00	1.14	1.27	0.95	1.31	84.96
Cryptomonas ovata	0.00	1.01	1.17	0.86	1.20	86.16
Rhizosolenia setigera	1.26	0.00	1.13	0.98	1.16	87.32
Navicula sp. large	1.26	0.00	1.13	0.98	1.16	88.49
Leptocylindricus danicus	1.26	0.00	1.13	0.98	1.16	89.65
Coelosphaerium sp.	0.00	0.90	1.00	0.58	1.03	90.67

Groups 75%Grp8 & 75%Grp1

Average dissimilarity = 96.08

Group 75%Grp8 Group 75%Grp1

Species	Av.Abund	Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	3.49	7.90	1.52	8.22	8.22
Cryptomonas sp.1	0.00	3.26	7.01	2.77	7.29	15.51
Skeletonema costatum	3.27	1.15	5.87	1.04	6.11	21.62
Scenedesmus quadricauda v. Westii	0.00	2.19	4.58	1.29	4.77	26.39
Unknown pennate diatom sp.	2.07	0.00	4.30	1.73	4.48	30.87
Cyclotella sp.	1.76	0.73	3.84	0.90	3.99	34.86
Spermatozoopsis exultans	0.00	1.79	3.81	1.22	3.97	38.83
Gonyaulax palustre	0.00	1.82	3.78	1.48	3.94	42.77
Cyclotella sp. (small)	1.79	0.00	3.52	0.70	3.67	46.43
Cryptomonas erosa	0.00	1.46	2.92	1.15	3.04	49.48
Cyclotella sp. (large)	1.45	0.00	2.75	0.59	2.86	52.34
Chlymentomonas sp.	0.00	1.14	2.30	0.94	2.39	54.73
Scenedesmus quadracauda	1.15	0.00	2.23	1.08	2.32	57.05
Cryptomonas ovata	0.00	1.01	2.16	0.85	2.25	59.30
Gymnodinium sp.	1.01	0.00	2.06	0.99	2.14	61.44
Schroederia setigera	1.04	0.00	1.99	1.05	2.07	63.52
Thalassiosira pseudonana	1.05	0.00	1.97	0.55	2.05	65.56
Eutreptia sp.	0.88	0.00	1.83	0.96	1.90	67.47
Scenedesmus bijinga	0.90	0.17	1.80	0.86	1.87	69.34
Coelosphaerium sp.	0.00	0.90	1.79	0.58	1.87	71.20
Thalassiosira decipiens	0.91	0.00	1.66	0.49	1.73	72.93
Eutreptiella sp.	0.00	0.80	1.58	0.84	1.64	74.57
Nitzschia longissima	0.78	0.00	1.47	0.94	1.53	76.11
Nitzschia palea	0.00	0.70	1.36	0.81	1.42	77.53
Akistrodesmus falcatus	0.64	0.00	1.25	0.68	1.30	78.83
Unknown flagellate sp. 1	0.00	0.56	1.17	0.58	1.22	80.05
Chaetoceros subtilis	0.44	0.16	1.06	0.53	1.10	81.15
Chroococcus minutus	0.00	0.56	1.01	0.43	1.05	82.19
Bluegreen filamentous sp.	0.41	0.00	0.88	0.61	0.91	83.11
Cyclotella undulata	0.00	0.37	0.79	0.29	0.82	83.93
Melosira sp.	0.36	0.00	0.73	0.49	0.76	84.69
Euglena acus	0.00	0.35	0.68	0.34	0.70	85.39
Cyclotella meneghiniana	0.40	0.00	0.67	0.27	0.70	86.09
Scenedesmus acutus	0.34	0.00	0.63	0.40	0.66	86.75
Euglena sp.	0.09	0.21	0.63	0.26	0.66	87.41
Merismopedia punctata	0.29	0.00	0.62	0.39	0.65	88.06
Scenedesmus abundans v. brevicauda	0.00	0.35	0.61	0.37	0.64	88.69
Crucigenia sp.	0.22	0.00	0.60	0.50	0.62	89.31
Merismopedia glauca	0.00	0.32	0.57	0.36	0.59	89.91
Nitzschia fruticosa	0.00	0.30	0.57	0.35	0.59	90.49

Groups 75%Grp10 & 75%Grp1

Average dissimilarity = 94.44

Species	Group 75%Grp10 Av.Abund	Group 75%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	3.49	8.11	1.55	8.59	8.59
Cryptomonas sp.1	0.00	3.26	7.19	2.90	7.61	16.20
Skeletonema costatum	3.94	1.15	6.34	1.73	6.72	22.92
Chaetoceros subtilis	2.19	0.16	5.10	1.23	5.40	28.31
Scenedesmus quadricauda v. Westii	0.00	2.19	4.70	1.30	4.98	33.29
Spermatozoopsis exultans	0.00	1.79	3.91	1.23	4.14	37.44
Gonyaulax palustre	0.00	1.82	3.88	1.50	4.11	41.54
Cryptomonas erosa	0.00	1.46	3.00	1.16	3.17	44.72
Peridinium aciculiferum	1.12	0.00	2.58	0.85	2.73	47.44
Chlymentomonas sp.	0.00	1.14	2.36	0.94	2.50	49.94
Cryptomonas ovata	0.00	1.01	2.22	0.85	2.35	52.29
Schizothrix sp.	1.06	0.00	1.90	0.56	2.01	54.30
Coelosphaerium sp.	0.00	0.90	1.84	0.58	1.95	56.25
Thalassiosira pseudonana	0.90	0.00	1.82	0.83	1.93	58.18
Cyclotella sp.	0.45	0.73	1.79	0.81	1.89	60.07
Thalassiosira sp.	0.84	0.00	1.75	0.71	1.85	61.93
Eutreptiella sp.	0.00	0.80	1.62	0.84	1.72	63.64
Nitzschia closterium	0.79	0.00	1.55	0.88	1.65	65.29
Nitzschia longissima	0.75	0.00	1.51	0.93	1.60	66.88
Unknown pennate diatom sp.	0.75	0.00	1.49	0.86	1.57	68.46
Leptocylindricus minimum	0.80	0.00	1.42	0.69	1.50	69.96
Nitzschia palea	0.00	0.70	1.39	0.82	1.48	71.43
Chaetoceros socialis	0.70	0.00	1.38	0.76	1.46	72.89
Unknown flagellate sp. 1	0.00	0.56	1.20	0.59	1.27	74.16
Schroederia setigera	0.53	0.00	1.17	0.62	1.24	75.40
Eutreptia sp.	0.58	0.00	1.12	0.76	1.19	76.59
Chroococcus minutus	0.00	0.56	1.03	0.43	1.09	77.68
Nitzschia pungens	0.45	0.12	0.97	0.62	1.03	78.71
Cyclotella undulata	0.00	0.37	0.81	0.29	0.86	79.57
Cyclotella sp. (small)	0.35	0.00	0.81	0.32	0.86	80.43
Gymnodinium sp.	0.37	0.00	0.79	0.55	0.83	81.26
Ceratulina bergonii	0.40	0.00	0.78	0.44	0.82	82.08
Euglena sp.	0.14	0.21	0.73	0.29	0.77	82.85
Prorocentrum minimum	0.38	0.00	0.71	0.55	0.75	83.61
Euglena acus	0.00	0.35	0.69	0.34	0.73	84.34
Chaetoceros neogracile	0.39	0.00	0.69	0.55	0.73	85.07
Gonyaulax monilata	0.33	0.00	0.65	0.47	0.68	85.76
Scenedesmus abundans v. brevicauda	0.00	0.35	0.63	0.37	0.66	86.42

Merismopedia glauca	0.00	0.32	0.58	0.36	0.62	87.04
Nitzschia fruticosa	0.00	0.30	0.58	0.35	0.61	87.65
Thalassionema nitzschoides	0.32	0.00	0.56	0.47	0.60	88.25
Scrippsiella sp.	0.29	0.00	0.55	0.47	0.58	88.83
Rhizosolenia setigera	0.28	0.00	0.53	0.48	0.56	89.39
Stephanodiscus sp.	0.00	0.26	0.53	0.34	0.56	89.95
Gonyaulax polygramma	0.21	0.00	0.50	0.40	0.53	90.48

Groups 75%Grp12 & 75%Grp1

Average dissimilarity = 94.43

Species	Group 75%Grp12 Av.Abund	Group 75%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	3.49	7.49	1.65	7.94	7.94
Cryptomonas sp.1	0.00	3.26	6.67	3.37	7.07	15.00
Skeletonema costatum	4.06	1.15	6.06	1.73	6.42	21.42
Chaetoceros subtilis	2.80	0.16	5.52	1.56	5.85	27.27
Scenedesmus quadricauda v. Westii	0.00	2.19	4.38	1.36	4.63	31.90
Spermatozoopsis exultans	0.00	1.79	3.63	1.30	3.85	35.75
Gonyaulax palustre	0.00	1.82	3.62	1.56	3.83	39.58
Cryptomonas erosa	0.00	1.46	2.80	1.19	2.97	42.55
Cyclotella sp. (small)	1.40	0.00	2.78	0.68	2.94	45.49
Schroederia setigera	1.25	0.00	2.46	1.44	2.60	48.09
Thalassiosira pseudonana	1.15	0.00	2.30	0.70	2.44	50.53
Cyclotella sp.	0.79	0.73	2.24	0.83	2.37	52.90
Peridinium aciculiferum	1.07	0.00	2.23	0.72	2.36	55.26
Chlymentomonas sp.	0.00	1.14	2.20	0.97	2.33	57.59
Cryptomonas ovata	0.00	1.01	2.06	0.88	2.18	59.78
Gymnodinium sp.	1.06	0.00	2.05	0.83	2.18	61.95
Nitzschia longissima	0.91	0.00	1.89	1.22	2.00	63.96
Coelosphaerium sp.	0.00	0.90	1.72	0.59	1.82	65.78
Eutreptiella sp.	0.00	0.80	1.52	0.86	1.61	67.38
Schizothrix sp.	0.71	0.00	1.51	0.47	1.60	68.99
Unknown pennate diatom sp.	0.72	0.00	1.46	0.73	1.55	70.53
Scenedesmus quadricauda	0.73	0.00	1.44	0.81	1.53	72.06
Nitzschia palea	0.00	0.70	1.31	0.84	1.38	73.45
Euglena sp.	0.38	0.21	1.17	0.47	1.24	74.68
Thalassiosira decipiens	0.59	0.00	1.16	0.73	1.23	75.91
Unknown flagellate sp. 1	0.00	0.56	1.12	0.60	1.18	77.09
Gonyaulax polygramma	0.53	0.00	1.09	0.68	1.16	78.25
Scenedesmus bijinga	0.43	0.17	1.00	0.57	1.06	79.30
Chroococcus minutus	0.00	0.56	0.97	0.44	1.03	80.33

Akistrodesmus falcatus	0.46	0.00	0.87	0.56	0.92	81.25
Eutreptia sp.	0.42	0.00	0.82	0.58	0.87	82.12
Nitzschia closterium	0.40	0.00	0.80	0.59	0.84	82.97
Cyclotella undulata	0.00	0.37	0.76	0.30	0.80	83.77
Peridinium sp.	0.41	0.00	0.75	0.55	0.79	84.56
Euglena acus	0.00	0.35	0.65	0.34	0.69	85.24
Scenedesmus abundans v. brevicauda	0.00	0.35	0.59	0.37	0.63	85.87
Nitzschia pungens	0.21	0.12	0.58	0.51	0.62	86.49
Thalassiosira sp.	0.31	0.00	0.57	0.48	0.60	87.09
Merismopedia glauca	0.00	0.32	0.55	0.37	0.58	87.67
Nitzschia fruticosa	0.00	0.30	0.54	0.36	0.58	88.25
Prorocentrum minimum	0.29	0.00	0.54	0.50	0.57	88.82
Merismopedia punctata	0.23	0.00	0.53	0.33	0.56	89.38
Leptocylindricus minimum	0.29	0.00	0.51	0.40	0.54	89.92
Stephanodiscus sp.	0.00	0.26	0.50	0.34	0.52	90.44

Groups 75%Grp13 & 75%Grp1

Average dissimilarity = 95.19

Species	Group 75%Grp13 Av.Abund	Group 75%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.90	1.15	9.37	1.45	9.85	9.85
Synechocystis aquaticus Sauvageau	0.00	3.49	7.15	1.52	7.51	17.36
Cryptomonas sp.1	0.00	3.26	6.37	2.77	6.69	24.05
Scenedesmus quadricauda v. Westii	0.00	2.19	4.18	1.29	4.39	28.44
Spermatozoopsis exultans	0.00	1.79	3.47	1.23	3.64	32.08
Gonyaulax palustre	0.00	1.82	3.45	1.47	3.63	35.71
Prorocentrum minimum	1.59	0.00	2.82	0.97	2.97	38.68
Thalassiosira pseudonana	1.56	0.00	2.74	0.82	2.88	41.55
Cryptomonas erosa	0.00	1.46	2.68	1.15	2.81	44.36
Eutreptia sp.	1.43	0.00	2.56	0.99	2.69	47.05
Thalassiosira sp.	1.38	0.00	2.47	0.65	2.59	49.65
Cyclotella sp.	0.83	0.73	2.12	0.80	2.23	51.88
Chlymentomonas sp.	0.00	1.14	2.10	0.94	2.21	54.09
Cryptomonas ovata	0.00	1.01	1.97	0.85	2.07	56.15
Chaetoceros subtilis	0.83	0.16	1.68	0.73	1.77	57.92
Coelosphaerium sp.	0.00	0.90	1.64	0.58	1.72	59.65
Schroederia setigera	0.82	0.00	1.58	0.88	1.66	61.31
Euglena sp.	0.69	0.21	1.53	0.48	1.61	62.92
Peridinium aciculiferum	0.84	0.00	1.53	0.82	1.60	64.52
Eutreptiella sp.	0.00	0.80	1.45	0.84	1.52	66.04
Unknown pennate diatom sp.	0.81	0.00	1.44	0.69	1.52	67.56

Thalassiosira decipiens	0.84	0.00	1.43	0.78	1.50	69.06
Nitzschia longissima	0.74	0.00	1.35	0.97	1.42	70.48
Nitzschia palea	0.00	0.70	1.25	0.82	1.31	71.79
Leptocylindricus minimum	0.75	0.00	1.23	0.57	1.29	73.08
Scrippsiella sp.	0.59	0.00	1.14	0.65	1.20	74.28
Nitzschia closterium	0.62	0.00	1.08	0.90	1.13	75.41
Unknown flagellate sp. 1	0.00	0.56	1.07	0.58	1.12	76.53
Ceratulina bergonii	0.53	0.00	1.05	0.42	1.10	77.63
Merismopedia punctata	0.54	0.00	0.97	0.45	1.01	78.65
Chroococcus minutus	0.00	0.56	0.93	0.43	0.97	79.62
Gymnodinium sp.	0.53	0.00	0.90	0.70	0.94	80.56
Schizothrix sp.	0.49	0.00	0.83	0.43	0.87	81.44
Scenedesmus quadracauda	0.46	0.00	0.78	0.48	0.82	82.26
Akistrodesmus falcatus	0.43	0.00	0.76	0.54	0.80	83.06
Cyclotella undulata	0.00	0.37	0.72	0.29	0.76	83.81
Crucigenia sp.	0.38	0.00	0.67	0.47	0.70	84.52
Scenedesmus bijinga	0.28	0.17	0.64	0.52	0.67	85.18
Euglena acus	0.00	0.35	0.62	0.34	0.65	85.83
Chaetoceros neogracile	0.31	0.00	0.61	0.52	0.64	86.48
Pyramimonas sp.	0.33	0.00	0.58	0.35	0.61	87.08
Scenedesmus abundans v. brevicauda	0.00	0.35	0.57	0.37	0.60	87.68
Merismopedia glauca	0.00	0.32	0.53	0.36	0.55	88.23
Nitzschia fruticosa	0.00	0.30	0.52	0.35	0.55	88.77
Nostoc sp.(trichomes)	0.27	0.00	0.50	0.42	0.53	89.30
Peridinium sp.	0.31	0.00	0.49	0.55	0.51	89.81
Stephanodiscus sp.	0.00	0.26	0.47	0.34	0.50	90.31

Groups 75%Grp9 & 75%Grp1

Average dissimilarity = 96.78

Species	Group 75%Grp9 Av.Abund	Group 75%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.07	1.15	7.00	1.48	7.24	7.24
Synechocystis aquaticus Sauvageau	0.00	3.49	7.00	1.36	7.23	14.47
Cryptomonas sp.1	0.00	3.26	6.22	2.20	6.43	20.90
Scenedesmus quadracauda v. Westii	0.00	2.19	4.08	1.19	4.21	25.11
Schizothrix sp.	2.14	0.00	3.44	0.68	3.56	28.67
Spermatozoopsis exultans	0.00	1.79	3.39	1.12	3.50	32.17
Gonyaulax palustre	0.00	1.82	3.37	1.35	3.48	35.65
Thalassionema nitzschoides	1.63	0.00	3.01	0.71	3.11	38.76
Cryptomonas erosa	0.00	1.46	2.61	1.08	2.69	41.45
Ceratulina bergonii	1.39	0.00	2.49	0.79	2.57	44.02

Leptocylindricus minimum	1.63	0.00	2.32	1.11	2.40	46.42
Chlymentomonas sp.	0.00	1.14	2.05	0.89	2.12	48.54
Chaetoceros socialis	1.47	0.00	2.04	0.81	2.11	50.65
Nitzschia closterium	1.37	0.00	2.00	0.80	2.07	52.71
Chaetoceros neogracile	1.24	0.00	1.94	0.87	2.00	54.72
Cryptomonas ovata	0.00	1.01	1.92	0.80	1.99	56.70
Unknown pennate diatom sp.	1.09	0.00	1.88	0.86	1.94	58.64
Nitzschia pungens	1.11	0.12	1.65	0.75	1.70	60.35
Prorocentrum micans	0.97	0.00	1.64	0.98	1.70	62.04
Coelosphaerium sp.	0.00	0.90	1.60	0.56	1.65	63.69
Rhizosolenia setigera	0.93	0.00	1.53	0.80	1.58	65.27
Thalassiosira sp.	0.93	0.00	1.48	0.65	1.53	66.80
Eutreptiella sp.	0.00	0.80	1.41	0.80	1.46	68.26
Cyclotella sp.	0.00	0.73	1.22	0.63	1.26	69.52
Nitzschia palea	0.00	0.70	1.22	0.78	1.26	70.77
Chaetoceros compressum	0.87	0.00	1.17	0.67	1.21	71.98
Asterionella glacialis	0.87	0.00	1.16	0.67	1.20	73.19
Ceratium hircus	0.73	0.00	1.15	0.85	1.19	74.37
Thalassiosira decipiens	0.64	0.00	1.10	0.61	1.14	75.51
Chaetoceros sp.	0.56	0.00	1.06	0.34	1.10	76.61
Unknown flagellate sp. 1	0.00	0.56	1.04	0.56	1.08	77.68
Prorocentrum minimum	0.72	0.00	1.01	0.94	1.05	78.73
Chaetoceros subtilis	0.59	0.16	0.92	0.54	0.95	79.68
Chroococcus minutus	0.00	0.56	0.90	0.42	0.93	80.62
Nitzschia longissima	0.64	0.00	0.89	0.86	0.92	81.53
Peridinium sp.	0.41	0.00	0.80	0.54	0.82	82.36
Melosira sp.	0.26	0.00	0.71	0.33	0.73	83.09
Cyclotella undulata	0.00	0.37	0.70	0.28	0.73	83.81
Leptocylindricus danicus	0.46	0.00	0.65	0.59	0.67	84.48
Amphora sp.	0.41	0.00	0.62	0.44	0.64	85.13
Euglena acus	0.00	0.35	0.60	0.33	0.62	85.75
Scenedesmus abundans v. brevicauda	0.00	0.35	0.55	0.36	0.57	86.32
Merismopedia glauca	0.00	0.32	0.51	0.35	0.53	86.85
Nitzschia fruticosa	0.00	0.30	0.51	0.34	0.52	87.37
Chaetoceros curvisetus	0.43	0.00	0.49	0.33	0.51	87.88
Thalassiosira pseudonana	0.37	0.00	0.48	0.39	0.50	88.38
Stephanodiscus sp.	0.00	0.26	0.46	0.33	0.48	88.85
Gonyaulax polygramma	0.22	0.00	0.46	0.35	0.47	89.33
Pleurosigma sp.	0.27	0.00	0.46	0.47	0.47	89.80
Chaetoceros lorenzianum	0.32	0.00	0.45	0.43	0.46	90.26

Groups 75%Grp11 & 75%Grp1

Average dissimilarity = 94.82

Species	Group 75%Grp11 Av.Abund	Group 75%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	3.49	8.42	1.55	8.88	8.88
Cryptomonas sp.1	0.00	3.26	7.46	2.93	7.86	16.75
Skeletonema costatum	4.09	1.15	6.90	1.63	7.28	24.03
Scenedesmus quadricauda v. Westii	0.00	2.19	4.87	1.31	5.14	29.16
Spermatozoopsis exultans	0.00	1.79	4.06	1.23	4.28	33.44
Gonyaulax palustre	0.00	1.82	4.02	1.51	4.24	37.68
Nitzschia closterium	1.55	0.00	3.24	1.51	3.42	41.10
Cryptomonas erosa	0.00	1.46	3.10	1.16	3.27	44.37
Chlymentomonas sp.	0.00	1.14	2.44	0.94	2.57	46.94
Cryptomonas ovata	0.00	1.01	2.30	0.86	2.42	49.36
Chaetoceros subtilis	0.83	0.16	2.21	0.67	2.33	51.69
Chaetoceros socialis	0.99	0.00	1.97	0.88	2.08	53.77
Leptocylicus minimum	0.93	0.00	1.93	0.87	2.04	55.81
Peridinium aciculiferum	0.79	0.00	1.91	0.79	2.01	57.82
Coelosphaerium sp.	0.00	0.90	1.90	0.58	2.01	59.83
Eutreptiella sp.	0.00	0.80	1.67	0.84	1.77	61.59
Unknown pennate diatom sp.	0.84	0.00	1.67	0.80	1.76	63.35
Cyclotella sp.	0.17	0.73	1.60	0.74	1.69	65.05
Nitzschia palea	0.00	0.70	1.44	0.82	1.52	66.57
Schizothrix sp.	0.67	0.00	1.43	0.43	1.51	68.08
Ceratulina bergonii	0.59	0.00	1.39	0.43	1.47	69.55
Chaetoceros neogracile	0.63	0.00	1.30	0.63	1.37	70.92
Unknown flagellate sp. 1	0.00	0.56	1.24	0.59	1.31	72.23
Rhizosolenia setigera	0.54	0.00	1.20	0.66	1.26	73.49
Nitzschia longissima	0.53	0.00	1.14	0.81	1.20	74.69
Chroococcus minutus	0.00	0.56	1.06	0.43	1.12	75.81
Thalassionema nitzschoides	0.48	0.00	1.01	0.57	1.07	76.88
Thalassiosira pseudonana	0.51	0.00	0.96	0.65	1.01	77.89
Euglena sp.	0.26	0.21	0.94	0.35	0.99	78.88
Cyclotella undulata	0.00	0.37	0.84	0.29	0.89	79.77
Thalassiosira sp.	0.36	0.00	0.83	0.39	0.87	80.64
Nitzschia pungens	0.30	0.12	0.76	0.50	0.81	81.45
Euglena acus	0.00	0.35	0.72	0.34	0.76	82.20
Peridinium sp.	0.32	0.00	0.70	0.41	0.74	82.95
Chaetoceros compressum	0.31	0.00	0.69	0.41	0.72	83.67
Asterionella glacialis	0.35	0.00	0.66	0.42	0.70	84.37
Prorocentrum minimum	0.35	0.00	0.66	0.55	0.70	85.07
Scenedesmus abundans v. brevicauda	0.00	0.35	0.64	0.37	0.68	85.75
Gonyaulax polygramma	0.27	0.00	0.63	0.41	0.66	86.41

Eutreptia sp.	0.31	0.00	0.62	0.49	0.65	87.06
Gymnodinium sp.	0.30	0.00	0.62	0.48	0.65	87.71
Merismopedia glauca	0.00	0.32	0.60	0.36	0.63	88.34
Nitzschia fruticosa	0.00	0.30	0.60	0.35	0.63	88.97
Stephanodiscus sp.	0.00	0.26	0.55	0.34	0.58	89.55
Prorocentrum micans	0.25	0.00	0.49	0.39	0.52	90.07

Groups 75%Grp4 & 75%Grp3

Average dissimilarity = 98.81

Species	Group 75%Grp4 Av.Abund	Group 75%Grp3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	9.25	1.61	9.36	9.36
Skeletonema costatum	0.16	3.76	7.16	1.79	7.25	16.61
Unknown diatom sp.	3.09	0.00	5.87	2.47	5.94	22.55
Cryptomonas sp.1	0.00	2.99	5.77	2.20	5.84	28.39
Synechocystis aquaticus Sauvageau	0.00	2.77	5.32	1.54	5.38	33.77
Unknown diatom sp. D	2.34	0.00	4.35	1.59	4.40	38.17
Thalassiosira sp.	2.01	0.00	3.80	1.94	3.85	42.02
Prorocentrum micans	1.61	0.22	3.46	0.60	3.50	45.52
Unknown Dinoflagellate sp.	1.73	0.00	3.38	0.99	3.42	48.94
Scenedesmus sp.	1.47	0.00	2.64	1.15	2.67	51.61
Navicula sp. small	1.23	0.00	2.41	0.85	2.44	54.04
Chlymentomonas sp.	0.00	0.99	1.90	0.84	1.92	55.96
Gymnodinium splendens	0.00	0.94	1.85	0.58	1.87	57.83
Eutreptiella sp.	0.35	0.78	1.72	0.83	1.74	59.57
Peridinium cerasus	0.00	0.90	1.69	0.64	1.71	61.28
Coscinodiscus sp.	0.83	0.00	1.61	0.58	1.63	62.91
Unknown bluegreen sp.	0.83	0.00	1.61	0.89	1.63	64.54
Pyramimonas sp.	0.84	0.00	1.51	0.84	1.52	66.06
Nitzschia pungens	0.80	0.03	1.48	0.80	1.50	67.56
Cryptomonas ovata	0.00	0.76	1.41	0.76	1.42	68.99
Spermatozoopsis exultans	0.00	0.77	1.39	0.81	1.41	70.39
Tetraedron sp.	0.82	0.00	1.38	0.75	1.40	71.80
Navicula sp. large	0.66	0.00	1.37	0.64	1.39	73.18
Gonyaulax palustre	0.00	0.72	1.33	0.75	1.34	74.53
Chroococcus minutus	0.00	0.70	1.29	0.44	1.31	75.83
Akistrodesmus sp.	0.76	0.00	1.29	0.58	1.30	77.13
Gymnodinium simplex	0.00	0.62	1.18	0.65	1.19	78.32
Leptocylindricus minimum	0.61	0.00	1.16	0.66	1.17	79.49
Cyclotella sp.	0.00	0.55	1.02	0.58	1.03	80.52
Nitzschia sp.	0.38	0.10	0.92	0.44	0.93	81.45

Unknown flagellate sp. 1	0.00	0.50	0.92	0.57	0.93	82.38
Cryptomonas erosa	0.00	0.49	0.88	0.62	0.89	83.27
Prorocentrum sp.	0.45	0.00	0.86	0.38	0.87	84.14
Calycomonas ovalis	0.00	0.45	0.83	0.44	0.84	84.99
Ceratium hircus	0.00	0.38	0.76	0.45	0.77	85.75
Eutreptia sp.	0.37	0.00	0.73	0.35	0.74	86.49
Prorocentrum redfieldi	0.40	0.00	0.69	0.36	0.70	87.19
Thalassionema nitzschoides	0.35	0.05	0.69	0.51	0.69	87.89
Scenedesmus quadricauda v. Westii	0.00	0.39	0.68	0.50	0.69	88.57
Chaetoceros subtilis	0.00	0.33	0.62	0.42	0.62	89.20
Leptocylindricus danicus	0.27	0.00	0.60	0.39	0.60	89.80
Aphanocapsa sp.	0.36	0.00	0.56	0.39	0.57	90.37

Groups 75%Grp7 & 75%Grp3

Average dissimilarity = 94.18

Species	Group 75%Grp7 Av.Abund	Group 75%Grp3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	9.53	1.58	10.12	10.12
Unknown Cryptophyte sp.	6.29	0.00	9.26	2.29	9.84	19.95
Skeletonema costatum	3.34	3.76	5.15	1.27	5.47	25.43
Thalassiosira sp.	3.51	0.00	4.94	1.07	5.24	30.67
Unknown diatom sp.	3.30	0.00	4.63	1.64	4.91	35.58
Unknown Dinoflagellate sp.	3.01	0.00	4.49	1.24	4.76	40.34
Cryptomonas sp.1	0.00	2.99	4.48	2.04	4.75	45.10
Synechocystis aquaticus Sauvageau	0.00	2.77	4.14	1.46	4.39	49.49
Prorocentrum minimum	1.60	0.00	2.49	0.35	2.64	52.13
Peridinium sp.	1.80	0.00	2.36	0.75	2.50	54.63
Pyramimonas sp.	1.63	0.00	2.14	0.93	2.27	56.91
Eutreptiella sp.	0.69	0.78	1.82	0.64	1.94	58.84
Eutreptia sp.	1.21	0.00	1.78	0.49	1.89	60.74
Skeletonema menezelli	1.46	0.00	1.77	0.34	1.88	62.61
Chaetoceros sp.	1.28	0.00	1.58	0.60	1.67	64.29
Chlymentomonas sp.	0.00	0.99	1.47	0.82	1.56	65.85
Gymnodinium splendens	0.00	0.94	1.43	0.57	1.52	67.37
Nitzschia closterium	0.92	0.08	1.34	0.69	1.42	68.79
Peridinium cerasus	0.00	0.90	1.32	0.63	1.40	70.19
Nitzschia pungens	0.82	0.03	1.14	0.57	1.21	71.40
Cryptomonas ovata	0.00	0.76	1.10	0.75	1.17	72.58
Spermatozoopsis exultans	0.00	0.77	1.09	0.79	1.16	73.74
Prorocentrum sp.	0.77	0.00	1.07	0.34	1.13	74.87
Gonyaulax palustre	0.00	0.72	1.04	0.73	1.11	75.98

Chroococcus minutus	0.00	0.70	1.01	0.43	1.07	77.05
Ceratium hircus	0.36	0.38	0.96	0.56	1.02	78.07
Gymnodinium simplex	0.00	0.62	0.91	0.64	0.97	79.05
Unknown Katodinium sp.	0.54	0.00	0.88	0.29	0.94	79.98
Leptocylindricus minimum	0.72	0.00	0.87	0.54	0.93	80.91
Scenedesmus sp.	0.60	0.00	0.80	0.44	0.85	81.76
Cyclotella sp.	0.00	0.55	0.80	0.57	0.85	82.61
Prorocentrum micans	0.34	0.22	0.79	0.36	0.83	83.44
Rhizosolenia setigera	0.51	0.16	0.77	0.58	0.82	84.26
Leptocylindricus danicus	0.65	0.00	0.74	0.35	0.79	85.05
Unknown flagellate sp. 1	0.00	0.50	0.72	0.56	0.76	85.81
Cryptomonas erosa	0.00	0.49	0.70	0.61	0.74	86.55
Glenodinium sp.	0.50	0.00	0.67	0.30	0.71	87.26
Calycomonas ovalis	0.00	0.45	0.65	0.43	0.69	87.96
Navicula sp. large	0.47	0.00	0.65	0.44	0.69	88.65
Chaetoceros gracile	0.51	0.00	0.64	0.29	0.68	89.34
Chaetoceros subtilis	0.16	0.33	0.64	0.41	0.68	90.01

Groups 75%Grp6 & 75%Grp3

Average dissimilarity = 90.70

Species	Group 75%Grp6 Av.Abund	Group 75%Grp3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.13	0.00	7.96	1.97	8.78	8.78
Unknown Cryptophyte sp.	5.10	0.00	7.27	2.40	8.01	16.79
Skeletonema costatum	7.46	3.76	6.78	1.59	7.47	24.26
Thalassiosira sp.	4.15	0.00	5.23	2.60	5.77	30.03
Nitzschia closterium	3.83	0.08	4.93	2.39	5.44	35.47
Unknown diatom sp.	3.67	0.00	4.82	2.21	5.31	40.78
Cryptomonas sp.1	0.00	2.99	4.14	2.06	4.57	45.35
Synechocystis aquaticus Sauvageau	0.00	2.77	3.83	1.47	4.22	49.57
Nitzschia pungens	2.56	0.03	3.36	1.25	3.71	53.28
Unknown Dinoflagellate sp.	2.35	0.00	2.99	1.31	3.30	56.58
Chaetoceros sp.	2.39	0.00	2.99	1.11	3.29	59.87
Skeletonema menezelli	2.03	0.00	2.23	0.40	2.46	62.33
Pyramimonas sp.	1.39	0.00	1.93	0.80	2.13	64.46
Leptocylindricus minimum	1.46	0.00	1.75	0.75	1.93	66.39
Ceratium hircus	0.95	0.38	1.43	0.66	1.57	67.96
Chlymentomonas sp.	0.00	0.99	1.36	0.83	1.50	69.47
Gymnodinium splendens	0.00	0.94	1.32	0.58	1.46	70.93
Peridinium sp.	1.06	0.00	1.23	0.57	1.35	72.28
Peridinium cerasus	0.00	0.90	1.23	0.64	1.35	73.63

Eutreptiella sp.	0.12	0.78	1.12	0.74	1.24	74.87
Thalassionema nitzschoides	0.96	0.05	1.11	0.62	1.22	76.09
Cryptomonas ovata	0.00	0.76	1.02	0.75	1.13	77.22
Spermatozoopsis exultans	0.00	0.77	1.02	0.80	1.12	78.34
Rhizosolenia setigera	0.77	0.16	1.01	0.67	1.12	79.46
Gonyaulax palustre	0.00	0.72	0.97	0.73	1.07	80.52
Leptocylindricus danicus	0.69	0.00	0.94	0.53	1.04	81.56
Chroococcus minutus	0.00	0.70	0.94	0.43	1.03	82.60
Navicula sp. large	0.73	0.00	0.93	0.60	1.03	83.63
Gymnodinium simplex	0.00	0.62	0.85	0.64	0.93	84.56
Cyclotella sp.	0.00	0.55	0.74	0.57	0.82	85.37
Unknown diatom sp. A	0.58	0.00	0.72	0.42	0.79	86.17
Chaetoceros subtilis	0.27	0.33	0.72	0.42	0.79	86.96
Prorocentrum sp.	0.58	0.00	0.71	0.41	0.78	87.74
Unknown flagellate sp. 1	0.00	0.50	0.67	0.56	0.73	88.47
Cryptomonas erosa	0.00	0.49	0.65	0.61	0.71	89.19
Calycomonas ovalis	0.00	0.45	0.61	0.43	0.67	89.85
Prorocentrum micans	0.32	0.22	0.58	0.52	0.64	90.49

Groups 75%Grp5 & 75%Grp3

Average dissimilarity = 90.57

Species	Group 75%Grp5 Av.Abund	Group 75%Grp3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	12.14	1.78	13.40	13.40
Unknown diatom sp. D	8.36	0.00	9.05	3.69	9.99	23.39
Unknown Cryptophyte sp.	7.43	0.00	8.72	7.84	9.63	33.02
Thalassiosira sp.	4.72	0.00	5.65	4.92	6.24	39.26
Unknown diatom sp.	4.70	0.00	5.38	12.86	5.94	45.20
Nitzschia closterium	4.12	0.08	5.01	2.93	5.53	50.72
Pyramimonas sp.	3.83	0.00	4.57	5.38	5.04	55.77
Cryptomonas sp.1	0.00	2.99	3.59	2.12	3.96	59.73
Synechocystis aquaticus Sauvageau	0.00	2.77	3.32	1.48	3.66	63.39
Chaetoceros sp.	3.08	0.00	2.87	0.99	3.17	66.56
Skeletonema costatum	5.96	3.76	2.53	1.17	2.79	69.35
Gymnodinium sp.	2.63	0.00	2.45	0.99	2.70	72.05
Nitzschia pungens	2.29	0.03	2.14	1.00	2.37	74.42
Leptocylindricus minimum	1.88	0.00	1.75	0.99	1.93	76.35
Prorocentrum sp.	1.50	0.00	1.39	0.99	1.54	77.89
Peridinium sp.	1.50	0.00	1.39	0.99	1.54	79.43
Rhizosolenia setigera	1.26	0.16	1.21	1.05	1.34	80.77
Chlymentomonas sp.	0.00	0.99	1.18	0.83	1.31	82.08

Navicula sp. large	1.26	0.00	1.17	0.99	1.29	83.37
Leptocylindricus danicus	1.26	0.00	1.17	0.99	1.29	84.66
Gymnodinium splendens	0.00	0.94	1.14	0.58	1.26	85.93
Peridinium cerasus	0.00	0.90	1.06	0.64	1.17	87.10
Eutreptiella sp.	0.00	0.78	0.91	0.71	1.00	88.10
Cryptomonas ovata	0.00	0.76	0.89	0.75	0.98	89.08
Spermatozoopsis exultans	0.00	0.77	0.89	0.80	0.98	90.06

Groups 75%Grp8 & 75%Grp3

Average dissimilarity = 91.16

Species	Group 75%Grp8 Av.Abund	Group 75%Grp3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	3.76	7.60	1.26	8.33	8.33
Cryptomonas sp.1	0.00	2.99	6.92	1.99	7.59	15.92
Synechocystis aquaticus Sauvageau	0.00	2.77	6.36	1.47	6.98	22.90
Unknown pennate diatom sp.	2.07	0.00	4.69	1.72	5.14	28.04
Cyclotella sp.	1.76	0.55	4.09	0.88	4.48	32.53
Cyclotella sp. (small)	1.79	0.00	3.82	0.71	4.19	36.71
Cyclotella sp. (large)	1.45	0.00	2.97	0.59	3.25	39.97
Scenedesmus quadracauda	1.15	0.00	2.41	1.08	2.64	42.61
Chlymentomonas sp.	0.00	0.99	2.27	0.80	2.49	45.10
Gymnodinium sp.	1.01	0.00	2.23	1.00	2.45	47.55
Gymnodinium splendens	0.00	0.94	2.23	0.56	2.44	49.99
Schroederia setigera	1.04	0.00	2.15	1.06	2.36	52.36
Thalassiosira pseudonana	1.05	0.00	2.12	0.56	2.32	54.68
Peridinium cerasus	0.00	0.90	2.02	0.61	2.22	56.90
Eutreptia sp.	0.88	0.00	1.99	0.96	2.18	59.08
Scenedesmus bijinga	0.90	0.00	1.88	0.84	2.07	61.15
Thalassiosira decipiens	0.91	0.00	1.79	0.49	1.96	63.11
Eutreptiella sp.	0.00	0.78	1.69	0.71	1.85	64.96
Cryptomonas ovata	0.00	0.76	1.67	0.75	1.83	66.79
Spermatozoopsis exultans	0.00	0.77	1.64	0.80	1.80	68.59
Nitzschia longissima	0.78	0.00	1.59	0.95	1.75	70.34
Gonyaulax palustre	0.00	0.72	1.57	0.74	1.72	72.06
Chroococcus minutus	0.00	0.70	1.53	0.43	1.68	73.74
Gymnodinium simplex	0.00	0.62	1.40	0.64	1.54	75.28
Chaetoceros subtilis	0.44	0.33	1.38	0.64	1.52	76.80
Akistrodesmus falcatus	0.64	0.00	1.36	0.68	1.49	78.29
Unknown flagellate sp. 1	0.00	0.50	1.09	0.56	1.19	79.48
Cryptomonas erosa	0.00	0.49	1.04	0.61	1.14	80.62
Calycomonas ovalis	0.00	0.45	0.99	0.43	1.08	81.71

Bluegreen filamentous sp.	0.41	0.00	0.96	0.61	1.05	82.76
Ceratium hircus	0.00	0.38	0.92	0.43	1.01	83.76
Scenedesmus quadricauda v. Westii	0.00	0.39	0.80	0.49	0.87	84.63
Melosira sp.	0.36	0.00	0.79	0.50	0.87	85.51
Cyclotella meneghiniana	0.40	0.00	0.72	0.28	0.79	86.29
Scenedesmus acutus	0.34	0.00	0.68	0.40	0.75	87.04
Merismopedia punctata	0.29	0.00	0.68	0.39	0.74	87.79
Crucigenia sp.	0.22	0.00	0.67	0.51	0.73	88.52
Pleurosigma sp.	0.24	0.00	0.62	0.50	0.68	89.19
Nitzschia sp.	0.09	0.10	0.55	0.34	0.61	89.80
Kirchneriella sp.	0.11	0.09	0.50	0.34	0.54	90.34

Groups 75%Grp10 & 75%Grp3

Average dissimilarity = 83.78

Species	Group 75%Grp10 Av.Abund	Group 75%Grp3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Cryptomonas sp.1	0.00	2.99	7.11	2.05	8.48	8.48
Synechocystis aquaticus Sauvageau	0.00	2.77	6.53	1.50	7.80	16.28
Chaetoceros subtilis	2.19	0.33	5.26	1.18	6.27	22.55
Skeletonema costatum	3.94	3.76	4.17	1.05	4.97	27.53
Peridinium aciculiferum	1.12	0.00	2.83	0.86	3.37	30.90
Chlymentomonas sp.	0.00	0.99	2.33	0.81	2.79	33.69
Gymnodinium splendens	0.00	0.94	2.29	0.56	2.73	36.42
Peridinium cerasus	0.00	0.90	2.07	0.62	2.48	38.89
Schizothrix sp.	1.06	0.00	2.04	0.57	2.44	41.33
Thalassiosira pseudonana	0.90	0.00	1.97	0.83	2.36	43.69
Thalassiosira sp.	0.84	0.00	1.90	0.71	2.27	45.96
Cyclotella sp.	0.45	0.55	1.74	0.75	2.07	48.03
Eutreptiella sp.	0.00	0.78	1.73	0.72	2.07	50.10
Cryptomonas ovata	0.00	0.76	1.71	0.75	2.04	52.15
Nitzschia closterium	0.79	0.08	1.70	0.91	2.03	54.18
Spermatozoopsis exultans	0.00	0.77	1.68	0.80	2.01	56.19
Nitzschia longissima	0.75	0.00	1.63	0.94	1.95	58.14
Gonyaulax palustre	0.00	0.72	1.61	0.74	1.92	60.06
Unknown pennate diatom sp.	0.75	0.00	1.61	0.87	1.92	61.98
Chroococcus minutus	0.00	0.70	1.57	0.43	1.88	63.85
Leptocylicus minimum	0.80	0.00	1.52	0.69	1.82	65.67
Chaetoceros socialis	0.70	0.00	1.49	0.76	1.78	67.45
Gymnodinium simplex	0.00	0.62	1.44	0.65	1.72	69.17
Schroederia setigera	0.53	0.00	1.28	0.62	1.53	70.70
Ceratium hircus	0.22	0.38	1.24	0.53	1.48	72.18

Eutreptia sp.	0.58	0.00	1.21	0.76	1.45	73.63
Unknown flagellate sp. 1	0.00	0.50	1.12	0.57	1.33	74.96
Cryptomonas erosa	0.00	0.49	1.07	0.61	1.27	76.23
Calycomonas ovalis	0.00	0.45	1.01	0.44	1.21	77.44
Nitzschia pungens	0.45	0.03	0.97	0.58	1.15	78.60
Cyclotella sp. (small)	0.35	0.00	0.89	0.33	1.06	79.65
Gymnodinium sp.	0.37	0.00	0.86	0.54	1.03	80.68
Prorocentrum micans	0.24	0.22	0.84	0.54	1.00	81.69
Ceratulina bergonii	0.40	0.00	0.84	0.44	1.00	82.69
Rhizosolenia setigera	0.28	0.16	0.83	0.58	0.99	83.68
Scenedesmus quadricauda v. Westii	0.00	0.39	0.82	0.50	0.98	84.66
Prorocentrum minimum	0.38	0.00	0.77	0.55	0.92	85.57
Chaetoceros neogracile	0.39	0.00	0.74	0.55	0.89	86.46
Gonyaulax monilata	0.33	0.00	0.70	0.48	0.83	87.29
Thalassionema nitzschoides	0.32	0.05	0.69	0.49	0.83	88.12
Scrippsiella sp.	0.29	0.00	0.60	0.48	0.71	88.83
Chaetoceros decipiens	0.09	0.18	0.57	0.36	0.69	89.52
Gonyaulax polygramma	0.21	0.00	0.54	0.40	0.65	90.17

Groups 75%Grp12 & 75%Grp3

Average dissimilarity = 85.19

Species	Group 75%Grp12 Av.Abund	Group 75%Grp3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Cryptomonas sp.1	0.00	2.99	6.55	2.25	7.69	7.69
Synechocystis aquaticus Sauvageau	0.00	2.77	6.03	1.57	7.08	14.77
Chaetoceros subtilis	2.80	0.33	5.66	1.51	6.65	21.42
Skeletonema costatum	4.06	3.76	4.05	1.28	4.76	26.17
Cyclotella sp. (small)	1.40	0.00	3.00	0.68	3.53	29.70
Schroederia setigera	1.25	0.00	2.66	1.45	3.12	32.82
Thalassiosira pseudonana	1.15	0.00	2.49	0.70	2.92	35.74
Peridinium aciculiferum	1.07	0.00	2.42	0.72	2.84	38.59
Cyclotella sp.	0.79	0.55	2.25	0.78	2.65	41.23
Gymnodinium sp.	1.06	0.00	2.22	0.83	2.61	43.84
Chlymentomonas sp.	0.00	0.99	2.15	0.84	2.53	46.37
Gymnodinium splendens	0.00	0.94	2.10	0.58	2.47	48.83
Nitzschia longissima	0.91	0.00	2.06	1.23	2.41	51.25
Peridinium cerasus	0.00	0.90	1.92	0.64	2.25	53.50
Schizothrix sp.	0.71	0.00	1.65	0.47	1.93	55.43
Eutreptiella sp.	0.00	0.78	1.61	0.73	1.89	57.32
Cryptomonas ovata	0.00	0.76	1.59	0.77	1.87	59.19
Unknown pennate diatom sp.	0.72	0.00	1.58	0.73	1.86	61.05

Spermatozoopsis exultans	0.00	0.77	1.57	0.82	1.84	62.89
Scenedesmus quadricauda	0.73	0.00	1.56	0.81	1.83	64.72
Gonyaulax palustre	0.00	0.72	1.50	0.76	1.76	66.47
Chroococcus minutus	0.00	0.70	1.46	0.44	1.71	68.18
Gymnodinium simplex	0.00	0.62	1.33	0.66	1.56	69.75
Thalassiosira decipiens	0.59	0.00	1.25	0.73	1.47	71.22
Gonyaulax polygramma	0.53	0.00	1.19	0.68	1.39	72.61
Unknown flagellate sp. 1	0.00	0.50	1.04	0.58	1.22	73.83
Cryptomonas erosa	0.00	0.49	0.99	0.62	1.17	74.99
Calycomonas ovalis	0.00	0.45	0.94	0.44	1.10	76.10
Nitzschia closterium	0.40	0.08	0.94	0.64	1.10	77.20
Akistrodesmus falcatus	0.46	0.00	0.94	0.57	1.10	78.30
Scenedesmus bijinga	0.43	0.00	0.92	0.50	1.08	79.38
Eutreptia sp.	0.42	0.00	0.89	0.58	1.04	80.42
Ceratium hircus	0.00	0.38	0.86	0.45	1.01	81.44
Euglena sp.	0.38	0.00	0.84	0.50	0.99	82.43
Peridinium sp.	0.41	0.00	0.80	0.56	0.94	83.37
Scenedesmus quadricauda v. Westii	0.00	0.39	0.76	0.50	0.89	84.27
Thalassiosira sp.	0.31	0.00	0.61	0.48	0.72	84.98
Merismopedia punctata	0.23	0.00	0.58	0.33	0.68	85.67
Prorocentrum minimum	0.29	0.00	0.58	0.50	0.68	86.34
Leptocylindricus minimum	0.29	0.00	0.55	0.40	0.65	86.99
Nitzschia pungens	0.21	0.03	0.54	0.44	0.63	87.62
Nostoc sp.(trichomes)	0.21	0.00	0.53	0.42	0.62	88.24
Prorocentrum micans	0.00	0.22	0.45	0.37	0.53	88.77
Rhizosolenia setigera	0.06	0.16	0.44	0.40	0.52	89.28
Coelosphaerium sp.	0.00	0.21	0.42	0.30	0.49	89.77
Scrippsiella sp.	0.18	0.00	0.41	0.33	0.48	90.25

Groups 75%Grp13 & 75%Grp3

Average dissimilarity = 85.60

Species	Group 75%Grp13 Av.Abund	Group 75%Grp3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.90	3.76	6.74	1.14	7.87	7.87
Cryptomonas sp.1	0.00	2.99	6.25	1.99	7.30	15.17
Synechocystis aquaticus Sauvageau	0.00	2.77	5.75	1.47	6.72	21.89
Prorocentrum minimum	1.59	0.00	3.03	0.98	3.54	25.44
Thalassiosira pseudonana	1.56	0.00	2.94	0.83	3.43	28.87
Eutreptia sp.	1.43	0.00	2.75	0.99	3.22	32.08
Thalassiosira sp.	1.38	0.00	2.66	0.66	3.10	35.19
Cyclotella sp.	0.83	0.55	2.11	0.75	2.46	37.65

Chlymentomonas sp.	0.00	0.99	2.05	0.81	2.40	40.05
Gymnodinium splendens	0.00	0.94	2.01	0.56	2.34	42.39
Chaetoceros subtilis	0.83	0.33	1.89	0.80	2.21	44.60
Peridinium cerasus	0.00	0.90	1.83	0.62	2.14	46.74
Schroederia setigera	0.82	0.00	1.72	0.88	2.01	48.75
Peridinium aciculiferum	0.84	0.00	1.64	0.83	1.92	50.67
Unknown pennate diatom sp.	0.81	0.00	1.55	0.69	1.82	52.48
Eutreptiella sp.	0.00	0.78	1.54	0.71	1.79	54.28
Thalassiosira decipiens	0.84	0.00	1.53	0.78	1.79	56.06
Cryptomonas ovata	0.00	0.76	1.52	0.75	1.77	57.84
Spermatozoopsis exultans	0.00	0.77	1.49	0.80	1.75	59.58
Nitzschia longissima	0.74	0.00	1.45	0.97	1.70	61.28
Gonyaulax palustre	0.00	0.72	1.43	0.73	1.67	62.95
Chroococcus minutus	0.00	0.70	1.39	0.43	1.62	64.57
Leptocylindricus minimum	0.75	0.00	1.31	0.57	1.53	66.10
Euglena sp.	0.69	0.00	1.28	0.45	1.50	67.60
Gymnodinium simplex	0.00	0.62	1.27	0.64	1.48	69.08
Scrippsiella sp.	0.59	0.00	1.24	0.64	1.44	70.53
Nitzschia closterium	0.62	0.08	1.19	0.92	1.39	71.91
Ceratulina bergonii	0.53	0.00	1.14	0.42	1.34	73.25
Merismopedia punctata	0.54	0.00	1.04	0.45	1.21	74.46
Unknown flagellate sp. 1	0.00	0.50	0.99	0.56	1.15	75.61
Gymnodinium sp.	0.53	0.00	0.96	0.71	1.12	76.74
Cryptomonas erosa	0.00	0.49	0.95	0.61	1.11	77.84
Calycomonas ovalis	0.00	0.45	0.90	0.43	1.05	78.89
Ceratium hircus	0.08	0.38	0.89	0.47	1.04	79.94
Schizothrix sp.	0.49	0.00	0.89	0.43	1.04	80.97
Scenedesmus quadricauda	0.46	0.00	0.84	0.48	0.98	81.95
Akistrodesmus falcatus	0.43	0.00	0.81	0.54	0.95	82.90
Scenedesmus quadricauda v. Westii	0.00	0.39	0.73	0.49	0.85	83.75
Crucigenia sp.	0.38	0.00	0.72	0.47	0.84	84.59
Chaetoceros neogracile	0.31	0.00	0.66	0.51	0.77	85.36
Pyramimonas sp.	0.33	0.00	0.62	0.35	0.72	86.09
Prorocentrum micans	0.13	0.22	0.61	0.49	0.71	86.79
Rhizosolenia setigera	0.16	0.16	0.56	0.42	0.65	87.44
Thalassionema nitzschoides	0.20	0.05	0.54	0.36	0.64	88.08
Nostoc sp.(trichomes)	0.27	0.00	0.54	0.42	0.63	88.71
Peridinium sp.	0.31	0.00	0.52	0.55	0.61	89.32
Scenedesmus bijinga	0.28	0.00	0.49	0.43	0.58	89.89
Chaetoceros socialis	0.28	0.00	0.48	0.36	0.56	90.45

Groups 75%Grp9 & 75%Grp3

Average dissimilarity = 88.84

Species	Group 75%Grp9 Av.Abund	Group 75%Grp3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.07	3.76	6.70	1.25	7.54	7.54
Cryptomonas sp.1	0.00	2.99	6.12	1.69	6.89	14.43
Synechocystis aquaticus Sauvageau	0.00	2.77	5.63	1.33	6.34	20.77
Schizothrix sp.	2.14	0.00	3.68	0.69	4.14	24.91
Thalassionema nitzschoides	1.63	0.05	3.26	0.71	3.67	28.59
Ceratulina bergonii	1.39	0.00	2.69	0.77	3.03	31.62
Leptocylindricus minimum	1.63	0.00	2.46	1.12	2.77	34.39
Chaetoceros socialis	1.47	0.00	2.16	0.82	2.43	36.82
Nitzschia closterium	1.37	0.08	2.16	0.82	2.43	39.25
Chaetoceros neogracile	1.24	0.00	2.07	0.87	2.33	41.58
Unknown pennate diatom sp.	1.09	0.00	2.03	0.85	2.28	43.86
Chlymentomonas sp.	0.00	0.99	2.01	0.76	2.26	46.12
Gymnodinium splendens	0.00	0.94	1.97	0.53	2.22	48.34
Prorocentrum micans	0.97	0.22	1.82	1.00	2.05	50.39
Peridinium cerasus	0.00	0.90	1.79	0.58	2.02	52.41
Rhizosolenia setigera	0.93	0.16	1.72	0.83	1.94	54.34
Nitzschia pungens	1.11	0.03	1.71	0.72	1.92	56.26
Thalassiosira sp.	0.93	0.00	1.58	0.64	1.78	58.04
Ceratium hircus	0.73	0.38	1.57	0.80	1.77	59.82
Eutreptiella sp.	0.00	0.78	1.50	0.68	1.69	61.50
Cryptomonas ovata	0.00	0.76	1.48	0.71	1.67	63.17
Spermatozoopsis exultans	0.00	0.77	1.46	0.76	1.64	64.81
Chaetoceros compressum	0.87	0.14	1.41	0.69	1.59	66.40
Gonyaulax palustre	0.00	0.72	1.39	0.70	1.57	67.97
Chroococcus minutus	0.00	0.70	1.36	0.41	1.53	69.50
Asterionella glacialis	0.87	0.06	1.31	0.70	1.47	70.97
Gymnodinium simplex	0.00	0.62	1.24	0.61	1.40	72.37
Chaetoceros subtilis	0.59	0.33	1.22	0.65	1.37	73.74
Thalassiosira decipiens	0.64	0.00	1.19	0.60	1.34	75.08
Chaetoceros sp.	0.56	0.00	1.15	0.34	1.30	76.38
Prorocentrum minimum	0.72	0.00	1.07	0.94	1.21	77.59
Cyclotella sp.	0.00	0.55	1.07	0.55	1.20	78.79
Unknown flagellate sp. 1	0.00	0.50	0.97	0.54	1.09	79.87
Nitzschia longissima	0.64	0.00	0.94	0.87	1.06	80.93
Cryptomonas erosa	0.00	0.49	0.92	0.58	1.04	81.97
Calycomonas ovalis	0.00	0.45	0.88	0.42	0.99	82.96
Peridinium sp.	0.41	0.00	0.86	0.54	0.97	83.93
Melosira sp.	0.26	0.00	0.79	0.32	0.89	84.82
Scenedesmus quadricauda v. Westii	0.00	0.39	0.71	0.48	0.80	85.62

Leptocylindricus danicus	0.46	0.00	0.69	0.59	0.77	86.39
Amphora sp.	0.41	0.00	0.66	0.44	0.75	87.14
Chaetoceros curvisetus	0.43	0.00	0.51	0.33	0.58	87.72
Thalassiosira pseudonana	0.37	0.00	0.51	0.39	0.57	88.29
Gonyaulax polygramma	0.22	0.00	0.50	0.35	0.56	88.86
Pleurosigma sp.	0.27	0.00	0.49	0.47	0.55	89.41
Chaetoceros lorenzianum	0.32	0.00	0.47	0.43	0.53	89.94
Rhizosolenia stolterfothii	0.10	0.14	0.43	0.30	0.48	90.42

Groups 75%Grp11 & 75%Grp3

Average dissimilarity = 83.98

Species	Group 75%Grp11 Av.Abund	Group 75%Grp3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Cryptomonas sp.1	0.00	2.99	7.39	2.06	8.80	8.80
Synechocystis aquaticus Sauvageau	0.00	2.77	6.79	1.51	8.08	16.88
Skeletonema costatum	4.09	3.76	4.86	1.08	5.79	22.67
Nitzschia closterium	1.55	0.08	3.43	1.48	4.08	26.75
Chaetoceros subtilis	0.83	0.33	2.51	0.73	2.99	29.74
Chlymentomonas sp.	0.00	0.99	2.43	0.81	2.89	32.62
Gymnodinium splendens	0.00	0.94	2.38	0.56	2.83	35.46
Peridinium cerasus	0.00	0.90	2.15	0.62	2.57	38.03
Chaetoceros socialis	0.99	0.00	2.14	0.88	2.55	40.57
Leptocylindricus minimum	0.93	0.00	2.11	0.87	2.51	43.08
Peridinium aciculiferum	0.79	0.00	2.10	0.79	2.51	45.59
Unknown pennate diatom sp.	0.84	0.00	1.81	0.80	2.15	47.74
Eutreptiella sp.	0.00	0.78	1.80	0.72	2.14	49.88
Cryptomonas ovata	0.00	0.76	1.78	0.75	2.12	51.99
Spermatozoopsis exultans	0.00	0.77	1.74	0.81	2.08	54.07
Gonyaulax palustre	0.00	0.72	1.67	0.74	1.99	56.06
Chroococcus minutus	0.00	0.70	1.63	0.43	1.94	58.00
Schizothrix sp.	0.67	0.00	1.56	0.43	1.85	59.85
Ceratulina bergonii	0.59	0.00	1.54	0.43	1.83	61.68
Gymnodinium simplex	0.00	0.62	1.50	0.65	1.78	63.47
Cyclotella sp.	0.17	0.55	1.49	0.67	1.78	65.25
Rhizosolenia setigera	0.54	0.16	1.47	0.73	1.75	66.99
Chaetoceros neogracile	0.63	0.00	1.41	0.63	1.68	68.68
Nitzschia longissima	0.53	0.00	1.24	0.81	1.48	70.15
Thalassionema nitzschoides	0.48	0.05	1.18	0.59	1.40	71.56
Ceratium hircus	0.14	0.38	1.17	0.51	1.40	72.95
Unknown flagellate sp. 1	0.00	0.50	1.16	0.57	1.38	74.33
Cryptomonas erosa	0.00	0.49	1.10	0.61	1.31	75.65

Calycomonas ovalis	0.00	0.45	1.05	0.44	1.25	76.90
Thalassiosira pseudonana	0.51	0.00	1.04	0.65	1.23	78.13
Chaetoceros compressum	0.31	0.14	1.01	0.46	1.20	79.34
Prorocentrum micans	0.25	0.22	0.93	0.53	1.10	80.44
Thalassiosira sp.	0.36	0.00	0.91	0.39	1.08	81.52
Scenedesmus quadricauda v. Westii	0.00	0.39	0.85	0.50	1.01	82.52
Asterionella glacialis	0.35	0.06	0.84	0.47	1.00	83.53
Peridinium sp.	0.32	0.00	0.77	0.42	0.91	84.44
Nitzschia pungens	0.30	0.03	0.72	0.44	0.85	85.30
Prorocentrum minimum	0.35	0.00	0.71	0.55	0.85	86.15
Gonyaulax polygramma	0.27	0.00	0.69	0.42	0.82	86.96
Eutreptia sp.	0.31	0.00	0.67	0.49	0.80	87.76
Gymnodinium sp.	0.30	0.00	0.67	0.48	0.80	88.56
Euglena sp.	0.26	0.00	0.50	0.34	0.60	89.16
Coelosphaerium sp.	0.00	0.21	0.46	0.29	0.55	89.71
Chaetoceros decipiens	0.00	0.18	0.43	0.29	0.52	90.22

Groups 75%Grp1 & 75%Grp3

Average dissimilarity = 63.39

Species	Group 75%Grp1 Av.Abund	Group 75%Grp3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	1.15	3.76	6.27	1.49	9.90	9.90
Synechocystis aquaticus Sauvageau	3.49	2.77	4.44	1.13	7.00	16.90
Scenedesmus quadricauda v. Westii	2.19	0.39	4.18	1.28	6.59	23.49
Spermatozoopsis exultans	1.79	0.77	3.16	1.15	4.98	28.47
Gonyaulax palustre	1.82	0.72	3.14	1.33	4.95	33.41
Cryptomonas erosa	1.46	0.49	2.73	1.21	4.31	37.72
Chlymentomonas sp.	1.14	0.99	2.53	1.08	3.99	41.72
Cryptomonas sp.1	3.26	2.99	2.49	1.19	3.93	45.64
Cryptomonas ovata	1.01	0.76	2.31	1.02	3.65	49.29
Chroococcus minutus	0.56	0.70	2.07	0.61	3.26	52.55
Gymnodinium splendens	0.12	0.94	2.06	0.61	3.25	55.80
Eutreptiella sp.	0.80	0.78	2.02	0.99	3.19	58.99
Coelosphaerium sp.	0.90	0.21	1.96	0.65	3.09	62.08
Cyclotella sp.	0.73	0.55	1.85	0.86	2.92	64.99
Peridinium cerasus	0.00	0.90	1.82	0.63	2.88	67.87
Unknown flagellate sp. 1	0.56	0.50	1.64	0.82	2.59	70.46
Gymnodinium simplex	0.20	0.62	1.41	0.77	2.23	72.69
Nitzschia palea	0.70	0.15	1.40	0.88	2.21	74.90
Cyclotella undulata	0.37	0.18	1.07	0.39	1.69	76.58
Calycomonas ovalis	0.05	0.45	0.94	0.47	1.49	78.07

Chaetoceros subtilis	0.16	0.33	0.90	0.46	1.43	79.50
Ceratium hircus	0.00	0.38	0.82	0.45	1.29	80.79
Euglena acus	0.35	0.06	0.75	0.38	1.18	81.97
Scenedesmus abundans v. brevicauda	0.35	0.00	0.61	0.37	0.96	82.93
Merismopedia glauca	0.32	0.00	0.56	0.37	0.89	83.81
Nitzschia fruticosa	0.30	0.00	0.56	0.36	0.88	84.69
Oscillatoria rubescens (trichome)	0.15	0.17	0.55	0.42	0.87	85.57
Stephanodiscus sp.	0.26	0.00	0.51	0.34	0.80	86.37
Euglena sp.	0.21	0.00	0.47	0.21	0.74	87.11
Spirulina sp.1	0.24	0.00	0.44	0.35	0.69	87.81
Merismopedia sp.	0.20	0.07	0.44	0.32	0.69	88.49
Nitzschia sp.	0.10	0.10	0.44	0.35	0.69	89.18
Prorocentrum micans	0.00	0.22	0.43	0.37	0.68	89.86
Lyngbya contorta (trichome)	0.25	0.00	0.42	0.32	0.67	90.52

Groups 75%Grp4 & 75%Grp2

Average dissimilarity = 98.27

Species	Group 75%Grp4 Av.Abund	Group 75%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	9.29	1.62	9.46	9.46
Skeletonema costatum	0.16	3.45	6.67	1.59	6.79	16.24
Unknown diatom sp.	3.09	0.00	5.90	2.52	6.00	22.25
Synechocystis aquaticus Sauvageau	0.00	2.99	5.81	1.48	5.91	28.16
Cryptomonas sp.1	0.00	2.59	5.09	2.22	5.18	33.34
Unknown diatom sp. D	2.34	0.00	4.37	1.60	4.44	37.78
Thalassiosira sp.	2.01	0.00	3.82	1.97	3.89	41.67
Prorocentrum micans	1.61	0.33	3.54	0.63	3.61	45.28
Unknown Dinoflagellate sp.	1.73	0.00	3.40	0.99	3.46	48.74
Scenedesmus sp.	1.47	0.00	2.65	1.16	2.69	51.43
Navicula sp. small	1.23	0.00	2.42	0.86	2.46	53.89
Gymnodinium simplex	0.00	1.01	1.98	0.89	2.02	55.91
Ceratium hircus	0.00	0.97	1.88	0.63	1.91	57.82
Peridinium cerasus	0.00	0.87	1.65	0.75	1.68	59.50
Eutreptiella sp.	0.35	0.69	1.65	0.85	1.67	61.18
Nitzschia pungens	0.80	0.26	1.64	0.88	1.66	62.84
Coscinodiscus sp.	0.83	0.00	1.62	0.58	1.64	64.49
Unknown bluegreen sp.	0.83	0.00	1.61	0.90	1.64	66.13
Pyramimonas sp.	0.84	0.00	1.51	0.84	1.54	67.67
Chlymentomonas sp.	0.00	0.80	1.48	0.82	1.51	69.18
Rhizosolenia setigera	0.00	0.73	1.40	0.60	1.42	70.60
Tetraedron sp.	0.82	0.00	1.39	0.75	1.42	72.01

Navicula sp. large	0.66	0.00	1.38	0.65	1.40	73.42
Akistrodesmus sp.	0.76	0.00	1.29	0.58	1.31	74.73
Thalassionema nitzschoides	0.35	0.38	1.20	0.57	1.22	75.95
Leptocylicus minimum	0.61	0.00	1.16	0.66	1.18	77.13
Nitzschia sp.	0.38	0.19	1.06	0.48	1.08	78.21
Biddulphia sinensis	0.00	0.57	1.04	0.59	1.05	79.26
Chroococcus minutus	0.00	0.47	0.99	0.35	1.00	80.27
Chaetoceros compressum	0.00	0.49	0.91	0.49	0.93	81.20
Prorocentrum sp.	0.45	0.00	0.86	0.38	0.88	82.08
Calycomonas ovalis	0.00	0.41	0.77	0.48	0.79	82.86
Eutreptia sp.	0.37	0.00	0.73	0.36	0.75	83.61
Prorocentrum redfieldi	0.40	0.00	0.70	0.36	0.71	84.32
Chaetoceros subtilis	0.00	0.35	0.67	0.49	0.68	85.00
Chaetoceros decipiens	0.00	0.33	0.64	0.44	0.65	85.64
Amphidinium crassum	0.00	0.37	0.64	0.44	0.65	86.29
Unknown flagellate sp. 1	0.00	0.34	0.63	0.57	0.64	86.93
Spermatozoopsis exultans	0.00	0.34	0.61	0.44	0.62	87.56
Leptocylicus danicus	0.27	0.00	0.60	0.39	0.61	88.17
Aphanocapsa sp.	0.36	0.00	0.57	0.39	0.58	88.74
Oscillatoria sp.	0.32	0.00	0.52	0.39	0.53	89.27
Cryptomonas ovata	0.00	0.23	0.50	0.35	0.51	89.78
Chroococcus sp.	0.32	0.00	0.50	0.38	0.50	90.28

Groups 75%Grp7 & 75%Grp2

Average dissimilarity = 94.11

Species	Group 75%Grp7 Av.Abund	Group 75%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	9.57	1.58	10.17	10.17
Unknown Cryptophyte sp.	6.29	0.00	9.31	2.31	9.89	20.06
Skeletonema costatum	3.34	3.45	5.16	1.26	5.48	25.54
Thalassiosira sp.	3.51	0.00	4.96	1.07	5.27	30.81
Unknown diatom sp.	3.30	0.00	4.65	1.65	4.94	35.74
Unknown Dinoflagellate sp.	3.01	0.00	4.51	1.25	4.79	40.53
Synechocystis aquaticus Sauvageau	0.00	2.99	4.51	1.41	4.79	45.32
Cryptomonas sp.1	0.00	2.59	3.94	2.05	4.19	49.51
Prorocentrum minimum	1.60	0.00	2.50	0.35	2.66	52.17
Peridinium sp.	1.80	0.00	2.37	0.75	2.52	54.68
Pyramimonas sp.	1.63	0.00	2.15	0.93	2.29	56.97
Eutreptia sp.	1.21	0.00	1.79	0.49	1.90	58.87
Skeletonema menezelli	1.46	0.00	1.77	0.34	1.89	60.76
Eutreptiella sp.	0.69	0.69	1.77	0.63	1.88	62.63

Ceratium hircus	0.36	0.97	1.71	0.71	1.82	64.45
Chaetoceros sp.	1.28	0.00	1.58	0.60	1.68	66.14
Gymnodinium simplex	0.00	1.01	1.53	0.86	1.63	67.76
Rhizosolenia setigera	0.51	0.73	1.41	0.76	1.50	69.27
Nitzschia pungens	0.82	0.26	1.32	0.66	1.41	70.67
Nitzschia closterium	0.92	0.00	1.30	0.66	1.38	72.05
Peridinium cerasus	0.00	0.87	1.29	0.73	1.37	73.42
Chlymentomonas sp.	0.00	0.80	1.16	0.80	1.23	74.65
Prorocentrum sp.	0.77	0.00	1.07	0.34	1.14	75.79
Prorocentrum micans	0.34	0.33	0.93	0.44	0.99	76.79
Unknown Katodinium sp.	0.54	0.00	0.89	0.29	0.94	77.73
Leptocylindricus minimum	0.72	0.00	0.88	0.54	0.93	78.66
Biddulphia sinensis	0.00	0.57	0.81	0.58	0.86	79.53
Scenedesmus sp.	0.60	0.00	0.81	0.44	0.86	80.38
Chroococcus minutus	0.00	0.47	0.75	0.35	0.80	81.18
Leptocylindricus danicus	0.65	0.00	0.75	0.35	0.79	81.98
Chaetoceros compressum	0.00	0.49	0.71	0.48	0.76	82.74
Thalassionema nitzschoides	0.14	0.38	0.67	0.40	0.72	83.45
Chaetoceros subtilis	0.16	0.35	0.67	0.45	0.72	84.17
Glenodinium sp.	0.50	0.00	0.67	0.30	0.72	84.88
Navicula sp. large	0.47	0.00	0.66	0.44	0.70	85.58
Chaetoceros gracile	0.51	0.00	0.65	0.29	0.69	86.27
Unknown diatom sp. A	0.52	0.00	0.64	0.33	0.68	86.95
Calycomonas ovalis	0.00	0.41	0.60	0.47	0.64	87.59
Prorocentrum redfieldi	0.41	0.00	0.51	0.19	0.54	88.13
Amphidinium crassum	0.00	0.37	0.50	0.43	0.54	88.67
Unknown bluegreen sp.	0.33	0.00	0.50	0.32	0.53	89.20
Chaetoceros decipiens	0.00	0.33	0.50	0.43	0.53	89.72
Unknown flagellate sp. 1	0.00	0.34	0.49	0.56	0.52	90.25

Groups 75%Grp6 & 75%Grp2

Average dissimilarity = 90.38

Species	Group 75%Grp6 Av.Abund	Group 75%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.13	0.00	7.99	1.98	8.85	8.85
Unknown Cryptophyte sp.	5.10	0.00	7.30	2.42	8.08	16.92
Skeletonema costatum	7.46	3.45	7.08	1.61	7.83	24.75
Thalassiosira sp.	4.15	0.00	5.26	2.62	5.81	30.57
Nitzschia closterium	3.83	0.00	5.04	2.48	5.58	36.15
Unknown diatom sp.	3.67	0.00	4.84	2.23	5.35	41.50
Synechocystis aquaticus Sauvageau	0.00	2.99	4.17	1.42	4.61	46.11

Cryptomonas sp.1	0.00	2.59	3.65	2.06	4.03	50.14
Nitzschia pungens	2.56	0.26	3.30	1.27	3.65	53.80
Unknown Dinoflagellate sp.	2.35	0.00	3.01	1.32	3.33	57.12
Chaetoceros sp.	2.39	0.00	3.00	1.12	3.32	60.44
Skeletonema menezelli	2.03	0.00	2.24	0.40	2.47	62.91
Ceratium hircus	0.95	0.97	2.00	0.80	2.21	65.13
Pyramimonas sp.	1.39	0.00	1.94	0.80	2.15	67.28
Leptocylindricus minimum	1.46	0.00	1.76	0.75	1.95	69.22
Rhizosolenia setigera	0.77	0.73	1.51	0.83	1.67	70.89
Gymnodinium simplex	0.00	1.01	1.42	0.86	1.57	72.46
Thalassionema nitzschoides	0.96	0.38	1.39	0.69	1.54	74.00
Peridinium sp.	1.06	0.00	1.23	0.58	1.36	75.36
Peridinium cerasus	0.00	0.87	1.20	0.74	1.32	76.69
Chlymentomonas sp.	0.00	0.80	1.08	0.80	1.19	77.88
Eutreptiella sp.	0.12	0.69	1.05	0.75	1.16	79.04
Leptocylindricus danicus	0.69	0.00	0.95	0.53	1.05	80.08
Navicula sp. large	0.73	0.00	0.94	0.60	1.04	81.12
Biddulphia sinensis	0.00	0.57	0.76	0.58	0.84	81.96
Chaetoceros subtilis	0.27	0.35	0.75	0.45	0.83	82.79
Unknown diatom sp. A	0.58	0.00	0.72	0.42	0.80	83.59
Prorocentrum sp.	0.58	0.00	0.71	0.41	0.78	84.37
Prorocentrum micans	0.32	0.33	0.70	0.62	0.78	85.15
Chroococcus minutus	0.00	0.47	0.69	0.35	0.77	85.92
Chaetoceros compressum	0.00	0.49	0.66	0.48	0.73	86.65
Navicula sp. small	0.46	0.00	0.56	0.36	0.62	87.27
Calycomonas ovalis	0.00	0.41	0.56	0.47	0.62	87.89
Chaetoceros gracile	0.36	0.00	0.48	0.20	0.53	88.42
Amphidinium crassum	0.00	0.37	0.47	0.43	0.52	88.94
Chaetoceros decipiens	0.00	0.33	0.46	0.43	0.51	89.45
Unknown flagellate sp. 1	0.00	0.34	0.46	0.56	0.51	89.95
Spermatozoopsis exultans	0.00	0.34	0.45	0.44	0.49	90.45

Groups 75%Grp5 & 75%Grp2

Average dissimilarity = 90.81

Species	Group 75%Grp5 Av.Abund	Group 75%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	12.19	1.78	13.42	13.42
Unknown diatom sp. D	8.36	0.00	9.08	3.71	10.00	23.43
Unknown Cryptophyte sp.	7.43	0.00	8.76	8.31	9.64	33.07
Thalassiosira sp.	4.72	0.00	5.67	5.02	6.25	39.32
Unknown diatom sp.	4.70	0.00	5.40	15.40	5.95	45.27

Nitzschia closterium	4.12	0.00	5.12	3.07	5.64	50.90
Pyramimonas sp.	3.83	0.00	4.59	5.51	5.05	55.95
Synechocystis aquaticus Sauvageau	0.00	2.99	3.61	1.43	3.97	59.93
Cryptomonas sp.1	0.00	2.59	3.15	2.10	3.47	63.40
Skeletonema costatum	5.96	3.45	2.90	1.24	3.19	66.59
Chaetoceros sp.	3.08	0.00	2.88	0.99	3.17	69.77
Gymnodinium sp.	2.63	0.00	2.45	0.99	2.70	72.47
Nitzschia pungens	2.29	0.26	2.21	1.08	2.43	74.90
Leptocylicus minimum	1.88	0.00	1.76	0.99	1.94	76.84
Rhizosolenia setigera	1.26	0.73	1.49	1.07	1.65	78.48
Prorocentrum sp.	1.50	0.00	1.40	0.99	1.54	80.02
Peridinium sp.	1.50	0.00	1.40	0.99	1.54	81.56
Gymnodinium simplex	0.00	1.01	1.23	0.86	1.35	82.91
Navicula sp. large	1.26	0.00	1.18	0.99	1.29	84.21
Leptocylicus danicus	1.26	0.00	1.18	0.99	1.29	85.50
Ceratium hircus	0.00	0.97	1.17	0.62	1.29	86.79
Peridinium cerasus	0.00	0.87	1.04	0.73	1.14	87.94
Chlymentomonas sp.	0.00	0.80	0.94	0.79	1.03	88.97
Eutreptiella sp.	0.00	0.69	0.83	0.71	0.92	89.88
Biddulphia sinensis	0.00	0.57	0.66	0.57	0.73	90.61

Groups 75%Grp8 & 75%Grp2

Average dissimilarity = 92.26

Species	Group 75%Grp8 Av.Abund	Group 75%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	3.45	7.48	1.25	8.11	8.11
Synechocystis aquaticus Sauvageau	0.00	2.99	6.97	1.40	7.55	15.66
Cryptomonas sp.1	0.00	2.59	6.12	2.02	6.64	22.29
Unknown pennate diatom sp.	2.07	0.00	4.71	1.76	5.10	27.40
Cyclotella sp.	1.76	0.15	3.90	0.78	4.23	31.63
Cyclotella sp. (small)	1.79	0.00	3.83	0.71	4.16	35.78
Cyclotella sp. (large)	1.45	0.00	2.98	0.59	3.23	39.01
Scenedesmus quadracauda	1.15	0.00	2.42	1.09	2.62	41.64
Gymnodinium simplex	0.00	1.01	2.38	0.86	2.58	44.22
Ceratium hircus	0.00	0.97	2.25	0.62	2.44	46.66
Gymnodinium sp.	1.01	0.00	2.24	1.00	2.43	49.09
Schroederia setigera	1.04	0.00	2.16	1.07	2.35	51.44
Thalassiosira pseudonana	1.05	0.00	2.13	0.56	2.31	53.75
Eutreptia sp.	0.88	0.00	2.00	0.97	2.17	55.91
Peridinium cerasus	0.00	0.87	1.97	0.73	2.13	58.04
Scenedesmus bijinga	0.90	0.00	1.89	0.84	2.05	60.09

Thalassiosira decipiens	0.91	0.00	1.79	0.49	1.94	62.04
Chlymentomonas sp.	0.00	0.80	1.76	0.81	1.91	63.95
Rhizosolenia setigera	0.00	0.73	1.67	0.59	1.81	65.75
Eutreptiella sp.	0.00	0.69	1.60	0.72	1.73	67.49
Nitzschia longissima	0.78	0.00	1.60	0.95	1.73	69.22
Chaetoceros subtilis	0.44	0.35	1.41	0.69	1.53	70.75
Akistrodesmus falcatus	0.64	0.00	1.36	0.69	1.48	72.23
Biddulphia sinensis	0.00	0.57	1.23	0.59	1.33	73.56
Chroococcus minutus	0.00	0.47	1.20	0.35	1.30	74.86
Chaetoceros compressum	0.00	0.49	1.09	0.48	1.18	76.04
Bluegreen filamentous sp.	0.41	0.00	0.96	0.62	1.04	77.08
Calycomonas ovalis	0.00	0.41	0.92	0.48	0.99	78.08
Thalassionema nitzschoides	0.00	0.38	0.87	0.35	0.94	79.02
Melosira sp.	0.36	0.00	0.80	0.50	0.86	79.88
Chaetoceros decipiens	0.00	0.33	0.76	0.43	0.83	80.71
Unknown flagellate sp. 1	0.00	0.34	0.75	0.56	0.81	81.52
Amphidinium crassum	0.00	0.37	0.74	0.44	0.81	82.33
Nitzschia sp.	0.09	0.19	0.74	0.39	0.80	83.13
Prorocentrum micans	0.00	0.33	0.73	0.48	0.80	83.92
Spermatozoopsis exultans	0.00	0.34	0.73	0.44	0.79	84.71
Cyclotella meneghiniana	0.40	0.00	0.72	0.28	0.78	85.49
Scenedesmus acutus	0.34	0.00	0.68	0.40	0.74	86.23
Merismopedia punctata	0.29	0.00	0.68	0.39	0.74	86.97
Crucigenia sp.	0.22	0.00	0.67	0.51	0.72	87.70
Pleurosigma sp.	0.24	0.00	0.62	0.51	0.67	88.37
Cryptomonas ovata	0.00	0.23	0.62	0.34	0.67	89.03
Actinopterychus undulatus	0.00	0.23	0.60	0.30	0.65	89.68
Nitzschia pungens	0.00	0.26	0.57	0.37	0.62	90.30

Groups 75%Grp10 & 75%Grp2

Average dissimilarity = 84.28

Species	Group 75%Grp10 Av.Abund	Group 75%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	2.99	7.16	1.43	8.49	8.49
Cryptomonas sp.1	0.00	2.59	6.29	2.08	7.47	15.96
Chaetoceros subtilis	2.19	0.35	5.19	1.19	6.15	22.11
Skeletonema costatum	3.94	3.45	4.60	1.23	5.46	27.57
Peridinium aciculiferum	1.12	0.00	2.84	0.87	3.37	30.94
Ceratium hircus	0.22	0.97	2.49	0.68	2.95	33.89
Gymnodinium simplex	0.00	1.01	2.45	0.87	2.91	36.80
Schizothrix sp.	1.06	0.00	2.05	0.57	2.43	39.23

Peridinium cerasus	0.00	0.87	2.02	0.74	2.40	41.63
Thalassiosira pseudonana	0.90	0.00	1.98	0.84	2.35	43.98
Rhizosolenia setigera	0.28	0.73	1.92	0.70	2.28	46.26
Thalassiosira sp.	0.84	0.00	1.91	0.72	2.27	48.53
Chlymentomonas sp.	0.00	0.80	1.81	0.82	2.14	50.67
Nitzschia closterium	0.79	0.00	1.69	0.89	2.00	52.68
Eutreptiella sp.	0.00	0.69	1.64	0.73	1.95	54.63
Nitzschia longissima	0.75	0.00	1.64	0.94	1.95	56.58
Unknown pennate diatom sp.	0.75	0.00	1.61	0.87	1.92	58.49
Leptocylindricus minimum	0.80	0.00	1.53	0.70	1.81	60.31
Chaetoceros socialis	0.70	0.00	1.50	0.77	1.78	62.08
Thalassionema nitzschoides	0.32	0.38	1.35	0.53	1.61	63.69
Nitzschia pungens	0.45	0.26	1.30	0.66	1.54	65.23
Schroederia setigera	0.53	0.00	1.29	0.63	1.53	66.76
Biddulphia sinensis	0.00	0.57	1.26	0.59	1.49	68.25
Chroococcus minutus	0.00	0.47	1.24	0.35	1.47	69.72
Eutreptia sp.	0.58	0.00	1.22	0.76	1.45	71.17
Cyclotella sp.	0.45	0.15	1.13	0.57	1.35	72.51
Chaetoceros compressum	0.00	0.49	1.12	0.48	1.32	73.84
Prorocentrum micans	0.24	0.33	1.05	0.62	1.24	75.08
Calycomonas ovalis	0.00	0.41	0.94	0.48	1.12	76.20
Chaetoceros decipiens	0.09	0.33	0.91	0.49	1.08	77.28
Cyclotella sp. (small)	0.35	0.00	0.89	0.33	1.06	78.34
Gymnodinium sp.	0.37	0.00	0.86	0.55	1.02	79.36
Ceratulina bergonii	0.40	0.00	0.84	0.45	1.00	80.36
Prorocentrum minimum	0.38	0.00	0.77	0.55	0.92	81.28
Unknown flagellate sp. 1	0.00	0.34	0.77	0.57	0.91	82.19
Amphidinium crassum	0.00	0.37	0.76	0.44	0.90	83.09
Chaetoceros neogracile	0.39	0.00	0.75	0.56	0.89	83.98
Spermatozoopsis exultans	0.00	0.34	0.74	0.44	0.88	84.86
Nitzschia sp.	0.11	0.19	0.72	0.39	0.85	85.71
Gonyaulax monilata	0.33	0.00	0.70	0.48	0.83	86.54
Cryptomonas ovata	0.00	0.23	0.63	0.35	0.75	87.30
Actinopterychus undulatus	0.00	0.23	0.62	0.30	0.73	88.03
Scrippsiella sp.	0.29	0.00	0.60	0.48	0.71	88.74
Rhizosolenia calcar-avis	0.00	0.28	0.56	0.35	0.67	89.41
Gonyaulax polygramma	0.21	0.00	0.55	0.40	0.65	90.06

Groups 75%Grp12 & 75%Grp2

Average dissimilarity = 86.15

Group 75%Grp12 Group 75%Grp2

Species	Av.Abund	Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	2.99	6.60	1.50	7.66	7.66
Cryptomonas sp.1	0.00	2.59	5.79	2.28	6.72	14.38
Chaetoceros subtilis	2.80	0.35	5.63	1.53	6.53	20.92
Skeletonema costatum	4.06	3.45	4.39	1.39	5.09	26.01
Cyclotella sp. (small)	1.40	0.00	3.02	0.68	3.50	29.52
Schroederia setigera	1.25	0.00	2.67	1.47	3.10	32.62
Thalassiosira pseudonana	1.15	0.00	2.50	0.71	2.91	35.52
Peridinium aciculiferum	1.07	0.00	2.43	0.73	2.82	38.35
Gymnodinium simplex	0.00	1.01	2.25	0.89	2.62	40.96
Gymnodinium sp.	1.06	0.00	2.23	0.83	2.59	43.55
Ceratium hircus	0.00	0.97	2.13	0.64	2.48	46.03
Nitzschia longissima	0.91	0.00	2.07	1.24	2.40	48.42
Peridinium cerasus	0.00	0.87	1.87	0.76	2.17	50.59
Cyclotella sp.	0.79	0.15	1.80	0.60	2.09	52.68
Chlymentomonas sp.	0.00	0.80	1.67	0.83	1.94	54.62
Schizothrix sp.	0.71	0.00	1.65	0.47	1.92	56.54
Rhizosolenia setigera	0.06	0.73	1.63	0.63	1.89	58.43
Unknown pennate diatom sp.	0.72	0.00	1.59	0.74	1.85	60.28
Scenedesmus quadracauda	0.73	0.00	1.57	0.82	1.82	62.10
Eutreptiella sp.	0.00	0.69	1.52	0.74	1.76	63.86
Thalassiosira decipiens	0.59	0.00	1.26	0.74	1.46	65.32
Gonyaulax polygramma	0.53	0.00	1.19	0.68	1.38	66.71
Biddulphia sinensis	0.00	0.57	1.17	0.60	1.36	68.06
Chroococcus minutus	0.00	0.47	1.13	0.36	1.31	69.38
Chaetoceros compressum	0.00	0.49	1.03	0.49	1.20	70.58
Thalassionema nitzschoides	0.09	0.38	0.97	0.41	1.13	71.70
Akistrodesmus falcatus	0.46	0.00	0.94	0.57	1.09	72.79
Scenedesmus bijinga	0.43	0.00	0.92	0.50	1.07	73.87
Nitzschia pungens	0.21	0.26	0.91	0.57	1.06	74.93
Eutreptia sp.	0.42	0.00	0.89	0.59	1.04	75.96
Calycomonas ovalis	0.00	0.41	0.87	0.49	1.01	76.98
Nitzschia closterium	0.40	0.00	0.86	0.59	1.00	77.98
Euglena sp.	0.38	0.00	0.85	0.50	0.98	78.96
Peridinium sp.	0.41	0.00	0.81	0.56	0.94	79.90
Chaetoceros decipiens	0.00	0.33	0.72	0.44	0.84	80.74
Amphidinium crassum	0.00	0.37	0.71	0.44	0.83	81.57
Unknown flagellate sp. 1	0.00	0.34	0.71	0.58	0.82	82.40
Prorocentrum micans	0.00	0.33	0.70	0.49	0.81	83.21
Spermatozoopsis exultans	0.00	0.34	0.69	0.45	0.80	84.01
Bacillaria paradoxa	0.13	0.19	0.64	0.38	0.74	84.75
Thalassiosira sp.	0.31	0.00	0.61	0.48	0.71	85.46
Merismopedia punctata	0.23	0.00	0.58	0.33	0.68	86.14

Prorocentrum minimum	0.29	0.00	0.58	0.50	0.67	86.81
Cryptomonas ovata	0.00	0.23	0.58	0.35	0.67	87.48
Actinopterychus undulatus	0.00	0.23	0.56	0.30	0.65	88.14
Leptocylindricus minimum	0.29	0.00	0.55	0.41	0.64	88.78
Rhizosolenia calcar-avis	0.00	0.28	0.53	0.35	0.61	89.39
Nostoc sp.(trichomes)	0.21	0.00	0.53	0.42	0.61	90.01

Groups 75%Grp13 & 75%Grp2

Average dissimilarity = 86.58

Species	Group 75%Grp13 Av.Abund	Group 75%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.90	3.45	7.18	1.21	8.29	8.29
Synechocystis aquaticus Sauvageau	0.00	2.99	6.29	1.40	7.27	15.56
Cryptomonas sp.1	0.00	2.59	5.52	2.02	6.38	21.94
Prorocentrum minimum	1.59	0.00	3.05	0.98	3.52	25.46
Thalassiosira pseudonana	1.56	0.00	2.95	0.83	3.41	28.87
Eutreptia sp.	1.43	0.00	2.77	1.00	3.19	32.06
Thalassiosira sp.	1.38	0.00	2.67	0.66	3.08	35.15
Gymnodinium simplex	0.00	1.01	2.15	0.86	2.48	37.63
Ceratium hircus	0.08	0.97	2.07	0.64	2.39	40.02
Chaetoceros subtilis	0.83	0.35	1.89	0.83	2.18	42.20
Peridinium cerasus	0.00	0.87	1.78	0.73	2.06	44.26
Schroederia setigera	0.82	0.00	1.72	0.89	1.99	46.25
Peridinium aciculiferum	0.84	0.00	1.65	0.83	1.91	48.16
Rhizosolenia setigera	0.16	0.73	1.64	0.65	1.90	50.06
Cyclotella sp.	0.83	0.15	1.63	0.57	1.88	51.93
Chlymentomonas sp.	0.00	0.80	1.60	0.81	1.85	53.78
Unknown pennate diatom sp.	0.81	0.00	1.56	0.69	1.80	55.58
Thalassiosira decipiens	0.84	0.00	1.54	0.79	1.78	57.36
Nitzschia longissima	0.74	0.00	1.46	0.98	1.68	59.04
Eutreptiella sp.	0.00	0.69	1.45	0.72	1.67	60.71
Leptocylindricus minimum	0.75	0.00	1.32	0.57	1.52	62.24
Euglena sp.	0.69	0.00	1.29	0.45	1.49	63.72
Scrippsiella sp.	0.59	0.00	1.24	0.65	1.43	65.16
Nitzschia closterium	0.62	0.00	1.16	0.90	1.34	66.50
Ceratulina bergonii	0.53	0.00	1.15	0.43	1.33	67.82
Thalassionema nitzschoides	0.20	0.38	1.14	0.48	1.32	69.14
Biddulphia sinensis	0.00	0.57	1.12	0.58	1.29	70.43
Chroococcus minutus	0.00	0.47	1.08	0.35	1.24	71.67
Merismopedia punctata	0.54	0.00	1.04	0.45	1.21	72.88
Chaetoceros compressum	0.00	0.49	0.99	0.48	1.14	74.01

Gymnodinium sp.	0.53	0.00	0.97	0.71	1.12	75.13
Schizothrix sp.	0.49	0.00	0.89	0.43	1.03	76.16
Scenedesmus quadrauda	0.46	0.00	0.84	0.48	0.97	77.13
Calycomonas ovalis	0.00	0.41	0.83	0.47	0.96	78.10
Akistrodesmus falcatus	0.43	0.00	0.82	0.55	0.95	79.04
Prorocentrum micans	0.13	0.33	0.80	0.58	0.93	79.97
Crucigenia sp.	0.38	0.00	0.72	0.48	0.83	80.80
Chaetoceros decipiens	0.00	0.33	0.69	0.43	0.80	81.60
Nitzschia pungens	0.12	0.26	0.69	0.46	0.79	82.39
Amphidinium crassum	0.00	0.37	0.68	0.43	0.79	83.18
Unknown flagellate sp. 1	0.00	0.34	0.68	0.56	0.78	83.96
Chaetoceros neogracile	0.31	0.00	0.66	0.52	0.77	84.73
Spermatozoopsis exultans	0.00	0.34	0.66	0.44	0.76	85.49
Pyramimonas sp.	0.33	0.00	0.62	0.35	0.72	86.21
Cryptomonas ovata	0.00	0.23	0.55	0.34	0.64	86.84
Nostoc sp.(trichomes)	0.27	0.00	0.54	0.43	0.63	87.47
Actinoptychus undulatus	0.00	0.23	0.54	0.30	0.62	88.09
Peridinium sp.	0.31	0.00	0.52	0.55	0.60	88.69
Rhizosolenia calcar-avis	0.00	0.28	0.50	0.34	0.58	89.27
Scenedesmus bijinga	0.28	0.00	0.50	0.43	0.57	89.85
Chaetoceros socialis	0.28	0.00	0.48	0.36	0.55	90.40

Groups 75%Grp9 & 75%Grp2

Average dissimilarity = 87.13

Species	Group 75%Grp9 Av.Abund	Group 75%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.07	3.45	6.87	1.33	7.88	7.88
Synechocystis aquaticus Sauvageau	0.00	2.99	6.16	1.27	7.07	14.95
Cryptomonas sp.1	0.00	2.59	5.41	1.71	6.21	21.17
Schizothrix sp.	2.14	0.00	3.70	0.69	4.25	25.41
Thalassionema nitzschoides	1.63	0.38	3.43	0.76	3.94	29.35
Ceratulina bergonii	1.39	0.00	2.70	0.78	3.10	32.45
Leptocylindricus minimum	1.63	0.00	2.48	1.12	2.84	35.29
Ceratium hircus	0.73	0.97	2.34	0.77	2.68	37.98
Rhizosolenia setigera	0.93	0.73	2.24	0.89	2.57	40.55
Chaetoceros socialis	1.47	0.00	2.17	0.82	2.49	43.03
Nitzschia closterium	1.37	0.00	2.14	0.80	2.45	45.48
Gymnodinium simplex	0.00	1.01	2.11	0.81	2.42	47.90
Chaetoceros neogracile	1.24	0.00	2.08	0.88	2.39	50.29
Unknown pennate diatom sp.	1.09	0.00	2.03	0.86	2.33	52.62
Nitzschia pungens	1.11	0.26	1.91	0.79	2.19	54.82

Prorocentrum micans	0.97	0.33	1.83	1.01	2.10	56.92
Chaetoceros compressum	0.87	0.49	1.80	0.78	2.06	58.98
Peridinium cerasus	0.00	0.87	1.74	0.70	2.00	60.98
Thalassiosira sp.	0.93	0.00	1.59	0.65	1.82	62.80
Chlymentomonas sp.	0.00	0.80	1.56	0.77	1.79	64.60
Eutreptiella sp.	0.00	0.69	1.42	0.69	1.63	66.22
Asterionella glacialis	0.87	0.13	1.40	0.67	1.61	67.83
Chaetoceros subtilis	0.59	0.35	1.25	0.70	1.43	69.27
Thalassiosira decipiens	0.64	0.00	1.20	0.61	1.37	70.64
Chaetoceros sp.	0.56	0.00	1.16	0.34	1.33	71.97
Biddulphia sinensis	0.00	0.57	1.09	0.56	1.25	73.21
Prorocentrum minimum	0.72	0.00	1.08	0.95	1.24	74.45
Chroococcus minutus	0.00	0.47	1.06	0.33	1.22	75.67
Nitzschia longissima	0.64	0.00	0.95	0.87	1.09	76.75
Peridinium sp.	0.41	0.00	0.87	0.54	1.00	77.75
Calycomonas ovalis	0.00	0.41	0.81	0.46	0.93	78.68
Melosira sp.	0.26	0.00	0.79	0.33	0.91	79.59
Rhizosolenia calcar-avis	0.22	0.28	0.76	0.49	0.87	80.46
Leptocylindricus danicus	0.46	0.00	0.69	0.59	0.79	81.26
Chaetoceros decipiens	0.00	0.33	0.68	0.41	0.78	82.03
Amphora sp.	0.41	0.00	0.67	0.44	0.76	82.80
Amphidinium crassum	0.00	0.37	0.66	0.42	0.76	83.56
Unknown flagellate sp. 1	0.00	0.34	0.66	0.54	0.76	84.32
Spermatozoopsis exultans	0.00	0.34	0.64	0.42	0.74	85.06
Cryptomonas ovata	0.00	0.23	0.54	0.33	0.62	85.68
Actinoptychus undulatus	0.00	0.23	0.53	0.28	0.61	86.28
Chaetoceros curvisetus	0.43	0.00	0.52	0.33	0.59	86.88
Thalassiosira pseudonana	0.37	0.00	0.51	0.39	0.59	87.46
Gonyaulax polygramma	0.22	0.00	0.50	0.35	0.58	88.04
Nitzschia sp.	0.05	0.19	0.50	0.31	0.57	88.61
Bacillaria paradoxa	0.09	0.19	0.50	0.34	0.57	89.19
Pleurosigma sp.	0.27	0.00	0.49	0.47	0.57	89.75
Chaetoceros lorenzianum	0.32	0.00	0.47	0.43	0.54	90.30

Groups 75%Grp11 & 75%Grp2

Average dissimilarity = 83.99

Species	Group 75%Grp11 Av.Abund	Group 75%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	2.99	7.44	1.43	8.86	8.86
Cryptomonas sp.1	0.00	2.59	6.54	2.10	7.79	16.65
Skeletonema costatum	4.09	3.45	5.28	1.24	6.28	22.93

Nitzschia closterium	1.55	0.00	3.54	1.56	4.21	27.14
Gymnodinium simplex	0.00	1.01	2.55	0.87	3.03	30.18
Chaetoceros subtilis	0.83	0.35	2.50	0.76	2.98	33.16
Ceratium hircus	0.14	0.97	2.48	0.67	2.96	36.12
Rhizosolenia setigera	0.54	0.73	2.30	0.83	2.73	38.85
Chaetoceros socialis	0.99	0.00	2.15	0.89	2.56	41.41
Leptocylindricus minimum	0.93	0.00	2.12	0.88	2.52	43.93
Peridinium aciculiferum	0.79	0.00	2.11	0.80	2.51	46.44
Peridinium cerasus	0.00	0.87	2.10	0.74	2.49	48.93
Chlymentomonas sp.	0.00	0.80	1.88	0.82	2.23	51.17
Unknown pennate diatom sp.	0.84	0.00	1.81	0.81	2.16	53.33
Thalassionema nitzschoides	0.48	0.38	1.77	0.64	2.11	55.44
Eutreptiella sp.	0.00	0.69	1.71	0.73	2.03	57.47
Chaetoceros compressum	0.31	0.49	1.63	0.63	1.94	59.42
Schizothrix sp.	0.67	0.00	1.56	0.43	1.86	61.28
Ceratulina bergonii	0.59	0.00	1.54	0.43	1.83	63.11
Chaetoceros neogracile	0.63	0.00	1.42	0.64	1.69	64.80
Biddulphia sinensis	0.00	0.57	1.30	0.59	1.55	66.36
Chroococcus minutus	0.00	0.47	1.29	0.35	1.54	67.89
Nitzschia longissima	0.53	0.00	1.25	0.82	1.48	69.38
Prorocentrum micans	0.25	0.33	1.14	0.62	1.36	70.73
Nitzschia pungens	0.30	0.26	1.12	0.55	1.34	72.07
Thalassiosira pseudonana	0.51	0.00	1.04	0.65	1.24	73.31
Asterionella glacialis	0.35	0.13	0.98	0.46	1.17	74.48
Calycomonas ovalis	0.00	0.41	0.98	0.48	1.16	75.64
Thalassiosira sp.	0.36	0.00	0.91	0.39	1.08	76.72
Chaetoceros decipiens	0.00	0.33	0.82	0.43	0.97	77.69
Unknown flagellate sp. 1	0.00	0.34	0.79	0.57	0.95	78.64
Amphidinium crassum	0.00	0.37	0.79	0.44	0.94	79.58
Spermatozoopsis exultans	0.00	0.34	0.77	0.44	0.92	80.50
Peridinium sp.	0.32	0.00	0.77	0.42	0.92	81.42
Cyclotella sp.	0.17	0.15	0.72	0.44	0.86	82.28
Prorocentrum minimum	0.35	0.00	0.72	0.56	0.85	83.13
Gonyaulax polygramma	0.27	0.00	0.69	0.42	0.82	83.95
Rhizosolenia calcar-avis	0.06	0.28	0.69	0.40	0.82	84.77
Eutreptia sp.	0.31	0.00	0.67	0.50	0.80	85.57
Gymnodinium sp.	0.30	0.00	0.67	0.48	0.80	86.37
Cryptomonas ovata	0.00	0.23	0.66	0.35	0.79	87.16
Actinopterychus undulatus	0.00	0.23	0.64	0.30	0.77	87.93
Nitzschia palea	0.00	0.25	0.54	0.36	0.64	88.57
Nitzschia sp.	0.00	0.19	0.51	0.28	0.60	89.17
Euglena sp.	0.26	0.00	0.51	0.34	0.60	89.78
Bacillaria paradoxa	0.00	0.19	0.50	0.30	0.59	90.37

Groups 75%Grp1 & 75%Grp2

Average dissimilarity = 69.75

Species	Group 75%Grp1 Av.Abund	Group 75%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	1.15	3.45	5.97	1.42	8.56	8.56
Synechocystis aquaticus Sauvageau	3.49	2.99	4.51	1.16	6.46	15.02
Scenedesmus quadricauda v. Westii	2.19	0.11	4.46	1.34	6.39	21.41
Gonyaulax palustre	1.82	0.15	3.58	1.51	5.14	26.55
Spermatozoopsis exultans	1.79	0.34	3.51	1.24	5.04	31.59
Cryptomonas erosa	1.46	0.12	2.85	1.20	4.09	35.68
Cryptomonas sp.1	3.26	2.59	2.48	1.37	3.56	39.24
Chlymentomonas sp.	1.14	0.80	2.40	1.14	3.45	42.68
Cryptomonas ovata	1.01	0.23	2.22	0.94	3.18	45.87
Gymnodinium simplex	0.20	1.01	2.12	0.93	3.04	48.90
Ceratium hircus	0.00	0.97	2.03	0.64	2.91	51.81
Eutreptiella sp.	0.80	0.69	1.97	1.05	2.83	54.64
Coelosphaerium sp.	0.90	0.10	1.86	0.63	2.67	57.30
Chroococcus minutus	0.56	0.47	1.83	0.55	2.62	59.93
Peridinium cerasus	0.00	0.87	1.78	0.75	2.55	62.48
Nitzschia palea	0.70	0.25	1.52	0.90	2.18	64.66
Rhizosolenia setigera	0.00	0.73	1.51	0.60	2.16	66.81
Cyclotella sp.	0.73	0.15	1.48	0.72	2.13	68.94
Unknown flagellate sp. 1	0.56	0.34	1.45	0.80	2.08	71.02
Biddulphia sinensis	0.00	0.57	1.11	0.59	1.59	72.61
Cyclotella undulata	0.37	0.12	1.00	0.38	1.43	74.05
Chaetoceros compressum	0.00	0.49	0.98	0.49	1.41	75.45
Chaetoceros subtilis	0.16	0.35	0.96	0.51	1.37	76.82
Calycomonas ovalis	0.05	0.41	0.88	0.51	1.26	78.08
Thalassionema nitzschoides	0.00	0.38	0.79	0.36	1.13	79.21
Amphidinium crassum	0.08	0.37	0.77	0.48	1.10	80.31
Merismopedia glauca	0.32	0.10	0.74	0.42	1.06	81.36
Chaetoceros decipiens	0.00	0.33	0.69	0.44	0.99	82.35
Euglena acus	0.35	0.00	0.67	0.34	0.96	83.31
Nitzschia pungens	0.12	0.26	0.67	0.47	0.96	84.27
Prorocentrum micans	0.00	0.33	0.66	0.49	0.95	85.22
Actinopterychus undulatus	0.07	0.23	0.66	0.36	0.95	86.17
Nitzschia fruticosa	0.30	0.06	0.65	0.41	0.93	87.09
Scenedesmus abundans v. brevicauda	0.35	0.00	0.61	0.37	0.87	87.96
Nitzschia sp.	0.10	0.19	0.61	0.38	0.87	88.83
Bacillaria paradoxa	0.09	0.19	0.57	0.37	0.82	89.65

Gymnodinium splendens	0.12	0.22	0.56	0.47	0.80	90.45
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Groups 75%Grp3 & 75%Grp2

Average dissimilarity = 60.36

Species	Group 75%Grp3 Av.Abund	Group 75%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	2.77	2.99	4.75	1.23	7.87	7.87
Skeletonema costatum	3.76	3.45	4.67	1.12	7.73	15.60
Cryptomonas sp.1	2.99	2.59	2.97	1.17	4.91	20.51
Peridinium cerasus	0.90	0.87	2.76	0.91	4.57	25.08
Chlymentomonas sp.	0.99	0.80	2.51	1.06	4.16	29.24
Gymnodinium simplex	0.62	1.01	2.51	1.05	4.16	33.40
Ceratium hircus	0.38	0.97	2.51	0.75	4.15	37.55
Chroococcus minutus	0.70	0.47	2.35	0.57	3.90	41.45
Gymnodinium splendens	0.94	0.22	2.34	0.64	3.88	45.33
Eutreptiella sp.	0.78	0.69	2.21	0.99	3.66	49.00
Cryptomonas ovata	0.76	0.23	1.87	0.84	3.09	52.09
Spermatozoopsis exultans	0.77	0.34	1.85	0.91	3.06	55.15
Rhizosolenia setigera	0.16	0.73	1.77	0.67	2.93	58.07
Gonyaulax palustre	0.72	0.15	1.66	0.81	2.75	60.83
Calycomonas ovalis	0.45	0.41	1.59	0.65	2.63	63.46
Unknown flagellate sp. 1	0.50	0.34	1.43	0.79	2.36	65.82
Biddulphia sinensis	0.15	0.57	1.38	0.66	2.29	68.11
Cyclotella sp.	0.55	0.15	1.36	0.65	2.25	70.36
Chaetoceros compressum	0.14	0.49	1.28	0.54	2.12	72.48
Chaetoceros subtilis	0.33	0.35	1.27	0.64	2.11	74.59
Cryptomonas erosa	0.49	0.12	1.13	0.69	1.87	76.46
Chaetoceros decipiens	0.18	0.33	1.04	0.53	1.72	78.18
Prorocentrum micans	0.22	0.33	1.03	0.61	1.70	79.88
Thalassionema nitzschoides	0.05	0.38	0.94	0.39	1.55	81.43
Scenedesmus quadricauda v. Westii	0.39	0.11	0.94	0.55	1.55	82.98
Amphidinium crassum	0.09	0.37	0.85	0.51	1.41	84.40
Nitzschia palea	0.15	0.25	0.73	0.50	1.21	85.61
Actinoptychus undulatus	0.07	0.23	0.71	0.36	1.18	86.79
Nitzschia sp.	0.10	0.19	0.68	0.36	1.13	87.92
Rhizosolenia calcar-avis	0.06	0.28	0.63	0.40	1.05	88.97
Cyclotella undulata	0.18	0.12	0.63	0.41	1.04	90.00

Appendix I. SIMPER test results for the combined river species averaged by the 60% grouping level. The calculations from this test were used to determine the species unique to each of the 60% grouping levels.

SIMPER

Similarity Percentages - species contributions

Worksheet

File: C:\MyFiles\3 Rivers\Combined Files\combspeciesOKwithchemBIOENVtransformed.pri

Sample selection: All

Variable selection: All

Parameters

Standardise data: No

Transform: None

Cut off for low contributions: 90.00%

Factor name: Sim60%GroupA

Factor groups

60%Grp3 ALA0

60%Grp4 All other Alafia except ALA0

60%Grp5 LMR0

60%Grp7 LMR6-12-18-RUSK

60%Grp6 LMRTB

60%Grp1 PR1

60%Grp2 PR2-3-4

Group 60%Grp3

Average similarity: 38.31

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	9.85	1.91	25.72	25.72
Unknown diatom sp.	3.09	7.36	2.09	19.21	44.92
Unknown diatom sp. D	2.34	4.39	1.18	11.46	56.38
Thalassiosira sp.	2.01	4.32	1.49	11.27	67.65
Unknown Dinoflagellate sp.	1.73	2.40	0.75	6.27	73.92
Scenedesmus sp.	1.47	1.96	0.69	5.12	79.04
Navicula sp. small	1.23	1.28	0.48	3.34	82.38

Prorocentrum micans	1.61	1.00	0.27	2.62	85.00
Unknown bluegreen sp.	0.83	0.95	0.49	2.48	87.47
Pyramimonas sp.	0.84	0.82	0.48	2.13	89.60
Nitzschia pungens	0.80	0.67	0.40	1.74	91.34

Group 60%Grp4

Average similarity: 40.34

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	5.92	9.26	2.76	22.95	22.95
Unknown diatom sp. D	6.61	7.79	1.59	19.32	42.26
Unknown diatom sp.	3.46	4.34	1.32	10.76	53.03
Skeletonema costatum	4.80	4.08	0.73	10.12	63.15
Thalassiosira sp.	3.75	4.07	1.20	10.08	73.23
Unknown Dinoflagellate sp.	2.96	3.06	0.91	7.59	80.82
Nitzschia closterium	1.99	1.49	0.61	3.70	84.52
Pyramimonas sp.	1.61	1.14	0.52	2.83	87.35
Chaetoceros sp.	1.70	0.84	0.42	2.08	89.43
Nitzschia pungens	1.45	0.78	0.41	1.93	91.36

Group 60%Grp5

Average similarity: 24.66

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Unknown pennate diatom sp.	2.07	5.70	1.16	23.13	23.13
Skeletonema costatum	3.27	3.50	0.73	14.18	37.30
Scenedesmus quadricauda	1.15	1.70	0.64	6.90	44.20
Gymnodinium sp.	1.01	1.67	0.62	6.79	50.99
Cyclotella sp.	1.76	1.57	0.40	6.35	57.34
Cyclotella sp. (small)	1.79	1.49	0.34	6.06	63.40
Schroederia setigera	1.04	1.46	0.62	5.94	69.33
Eutreptia sp.	0.88	1.40	0.53	5.66	75.00
Scenedesmus bijinga	0.90	0.99	0.43	4.00	79.00
Nitzschia longissima	0.78	0.97	0.52	3.93	82.93
Cyclotella sp. (large)	1.45	0.81	0.26	3.29	86.22
Akistrodesmus falcatus	0.64	0.53	0.34	2.16	88.38
Thalassiosira pseudonana	1.05	0.46	0.25	1.87	90.25

Group 60%Grp7

Average similarity: 30.63

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	4.59	13.85	2.03	45.24	45.24
Chaetoceros subtilis	1.61	3.19	0.59	10.42	55.65
Peridinium aciculiferum	0.94	1.52	0.44	4.97	60.63
Nitzschia longissima	0.73	1.28	0.57	4.19	64.81
Nitzschia closterium	0.83	1.26	0.57	4.11	68.93
Thalassiosira pseudonana	1.07	1.08	0.40	3.54	72.46
Unknown pennate diatom sp.	0.78	0.92	0.41	3.00	75.46
Schroederia setigera	0.66	0.85	0.40	2.79	78.25
Eutreptia sp.	0.74	0.72	0.39	2.35	80.60
Thalassiosira sp.	0.77	0.57	0.27	1.86	82.46
Leptocylicus minimum	0.70	0.56	0.32	1.83	84.29
Prorocentrum minimum	0.72	0.56	0.34	1.82	86.11
Gymnodinium sp.	0.56	0.50	0.32	1.63	87.73
Schizothrix sp.	0.72	0.39	0.20	1.27	89.01
Chaetoceros socialis	0.48	0.33	0.24	1.08	90.09

Group 60%Grp6

Average similarity: 25.76

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	5.07	6.66	1.11	25.84	25.84
Thalassionema nitzschoides	1.63	1.98	0.58	7.70	33.54
Ceratulina bergonii	1.39	1.86	0.75	7.22	40.76
Leptocylicus minimum	1.63	1.56	0.76	6.05	46.81
Schizothrix sp.	2.14	1.36	0.35	5.29	52.10
Chaetoceros neogracile	1.24	1.15	0.66	4.48	56.58
Unknown pennate diatom sp.	1.09	1.11	0.49	4.30	60.89
Prorocentrum micans	0.97	1.11	0.63	4.30	65.19
Nitzschia closterium	1.37	0.90	0.51	3.50	68.69
Chaetoceros socialis	1.47	0.89	0.47	3.47	72.16
Rhizosolenia setigera	0.93	0.86	0.44	3.33	75.48
Ceratium hircus	0.73	0.63	0.47	2.45	77.93
Nitzschia pungens	1.11	0.62	0.39	2.39	80.32
Thalassiosira sp.	0.93	0.56	0.36	2.19	82.52
Prorocentrum minimum	0.72	0.56	0.54	2.17	84.68
Thalassiosira decipiens	0.64	0.47	0.32	1.82	86.51
Nitzschia longissima	0.64	0.45	0.49	1.75	88.26
Chaetoceros compressum	0.87	0.38	0.32	1.46	89.72
Asterionella glacialis	0.87	0.38	0.33	1.46	91.18

Group 60%Grp1

Average similarity: 43.01

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Cryptomonas sp.1	3.26	9.91	2.87	23.05	23.05
Synechocystis aquaticus Sauvageau	3.49	9.53	1.16	22.17	45.22
Scenedesmus quadricauda v. Westii	2.19	4.43	1.01	10.31	55.52
Gonyaulax palustre	1.82	3.93	1.12	9.14	64.66
Spermatozoopsis exultans	1.79	3.64	0.96	8.45	73.12
Cryptomonas erosa	1.46	2.37	0.75	5.52	78.64
Chlymentomonas sp.	1.14	1.57	0.58	3.65	82.29
Cryptomonas ovata	1.01	1.43	0.53	3.32	85.61
Skeletonema costatum	1.15	1.35	0.42	3.14	88.75
Eutreptiella sp.	0.80	0.94	0.47	2.18	90.93

Group 60%Grp2

Average similarity: 39.09

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	3.66	11.71	1.37	29.94	29.94
Cryptomonas sp.1	2.86	9.48	2.16	24.26	54.20
Synechocystis aquaticus Sauvageau	2.84	7.78	1.09	19.91	74.11
Chlymentomonas sp.	0.92	1.44	0.50	3.67	77.79
Peridinium cerasus	0.89	1.04	0.40	2.66	80.45
Gymnodinium simplex	0.75	1.00	0.40	2.55	83.00
Eutreptiella sp.	0.75	0.93	0.42	2.37	85.37
Spermatozoopsis exultans	0.63	0.68	0.35	1.74	87.12
Cryptomonas ovata	0.59	0.61	0.32	1.55	88.67
Gymnodinium splendens	0.71	0.54	0.24	1.39	90.06

Groups 60%Grp3 & 60%Grp4

Average dissimilarity = 69.09

Species	Group 60%Grp3 Av.Abund	Group 60%Grp4 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	2.34	6.61	5.47	1.24	7.91	7.91
Skeletonema costatum	0.16	4.80	5.40	1.07	7.82	15.73
Unknown Cryptophyte sp.	4.79	5.92	3.77	1.23	5.46	21.19
Thalassiosira sp.	2.01	3.75	3.04	1.09	4.40	25.59
Unknown Dinoflagellate sp.	1.73	2.96	3.00	1.17	4.34	29.93

Unknown diatom sp.	3.09	3.46	2.29	1.21	3.32	33.25
Prorocentrum micans	1.61	0.32	2.25	0.60	3.25	36.50
Nitzschia closterium	0.20	1.99	2.22	1.01	3.22	39.72
Pyramimonas sp.	0.84	1.61	1.91	1.15	2.76	42.48
Nitzschia pungens	0.80	1.45	1.86	1.03	2.69	45.18
Scenedesmus sp.	1.47	0.47	1.80	1.13	2.61	47.79
Chaetoceros sp.	0.13	1.70	1.80	0.80	2.60	50.39
Skeletonema menezelli	0.14	1.61	1.70	0.39	2.46	52.85
Peridinium sp.	0.00	1.54	1.66	0.68	2.40	55.25
Navicula sp. small	1.23	0.29	1.59	0.88	2.30	57.56
Prorocentrum minimum	0.16	1.07	1.55	0.31	2.24	59.80
Leptocylicus minimum	0.61	1.00	1.37	0.89	1.99	61.79
Eutreptia sp.	0.37	0.79	1.33	0.50	1.93	63.72
Prorocentrum sp.	0.45	0.73	1.22	0.49	1.77	65.49
Coscinodiscus sp.	0.83	0.22	1.17	0.62	1.70	67.19
Navicula sp. large	0.66	0.58	1.17	0.81	1.70	68.88
Unknown bluegreen sp.	0.83	0.33	1.16	0.90	1.68	70.56
Akistrodesmus sp.	0.76	0.31	1.06	0.63	1.53	72.09
Tetraedron sp.	0.82	0.23	1.04	0.77	1.51	73.60
Leptocylicus danicus	0.27	0.68	0.97	0.55	1.41	75.01
Eutreptiella sp.	0.35	0.48	0.91	0.42	1.32	76.33
Unknown diatom sp. A	0.20	0.53	0.75	0.44	1.09	77.42
Thalassionema nitzschoides	0.35	0.41	0.70	0.60	1.02	78.43
Prorocentrum redfieldi	0.40	0.26	0.70	0.33	1.01	79.44
Minutocellus sp.	0.09	0.61	0.68	0.50	0.98	80.43
Aphanocapsa sp.	0.36	0.37	0.67	0.51	0.96	81.39
Chaetoceros muelleri	0.00	0.59	0.63	0.42	0.91	82.30
Unknown Katodinium sp.	0.11	0.38	0.63	0.29	0.91	83.21
Rhizosolenia setigera	0.00	0.62	0.62	0.53	0.89	84.10
Schizothrix calcicola	0.48	0.07	0.56	0.58	0.82	84.92
Ceratium hircus	0.00	0.55	0.56	0.38	0.81	85.73
Apedinella radians	0.00	0.47	0.54	0.42	0.78	86.51
Nitzschia sp.	0.38	0.03	0.51	0.39	0.74	87.25
Glenodinium sp.	0.13	0.32	0.50	0.31	0.72	87.97
Chaetoceros gracile	0.00	0.45	0.49	0.25	0.70	88.67
Unknown Vegetative cell sp.	0.13	0.24	0.46	0.32	0.67	89.34
Tricodesmium sp.	0.38	0.00	0.41	0.37	0.59	89.93
Unknown diatom sp. 17	0.20	0.18	0.41	0.42	0.59	90.52

Groups 60%Grp3 & 60%Grp5

Average dissimilarity = 98.12

Species	Group 60%Grp3 Av.Abund	Group 60%Grp5 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	8.48	1.49	8.64	8.64
Unknown diatom sp.	3.09	0.00	5.38	2.09	5.48	14.12
Skeletonema costatum	0.16	3.27	4.62	1.00	4.71	18.83
Unknown diatom sp. D	2.34	0.00	3.96	1.47	4.04	22.86
Unknown pennate diatom sp.	0.00	2.07	3.59	1.67	3.66	26.52
Thalassiosira sp.	2.01	0.10	3.37	1.65	3.44	29.96
Unknown Dinoflagellate sp.	1.73	0.00	3.09	0.92	3.14	33.11
Prorocentrum micans	1.61	0.00	3.08	0.53	3.14	36.24
Cyclotella sp. (small)	0.00	1.79	2.97	0.70	3.02	39.27
Cyclotella sp.	0.00	1.76	2.87	0.74	2.92	42.19
Scenedesmus sp.	1.47	0.26	2.35	1.12	2.40	44.58
Cyclotella sp. (large)	0.00	1.45	2.31	0.59	2.35	46.93
Navicula sp. small	1.23	0.00	2.17	0.82	2.21	49.14
Scenedesmus quadracauda	0.00	1.15	1.84	1.07	1.87	51.02
Eutreptia sp.	0.37	0.88	1.84	0.93	1.87	52.89
Gymnodinium sp.	0.09	1.01	1.76	0.99	1.79	54.68
Schroederia setigera	0.00	1.04	1.63	1.04	1.66	56.35
Thalassiosira pseudonana	0.00	1.05	1.59	0.56	1.62	57.97
Coscinodiscus sp.	0.83	0.00	1.50	0.55	1.52	59.49
Unknown bluegreen sp.	0.83	0.00	1.44	0.86	1.47	60.97
Scenedesmus bijinga	0.00	0.90	1.42	0.83	1.44	62.41
Pyramimonas sp.	0.84	0.00	1.37	0.80	1.40	63.81
Nitzschia pungens	0.80	0.00	1.33	0.76	1.35	65.17
Tetraedron sp.	0.82	0.08	1.28	0.76	1.31	66.47
Thalassiosira decipiens	0.00	0.91	1.28	0.49	1.30	67.77
Navicula sp. large	0.66	0.00	1.25	0.62	1.27	69.05
Nitzschia longissima	0.00	0.78	1.23	0.92	1.26	70.31
Akistrodesmus sp.	0.76	0.00	1.17	0.56	1.19	71.50
Leptocylindricus minimum	0.61	0.00	1.06	0.63	1.08	72.58
Akistrodesmus falcatus	0.00	0.64	1.00	0.68	1.02	73.60
Nitzschia sp.	0.38	0.09	0.89	0.46	0.90	74.50
Melosira sp.	0.20	0.36	0.81	0.57	0.83	75.33
Amphiprora sp.	0.00	0.49	0.80	0.61	0.82	76.15
Prorocentrum sp.	0.45	0.00	0.77	0.38	0.78	76.93
Actinastrum hantzschii	0.00	0.49	0.77	0.50	0.78	77.72
Bluegreen filamentous sp.	0.00	0.41	0.75	0.60	0.76	78.48
Crucigenia sp.	0.21	0.22	0.71	0.64	0.73	79.20
Chaetoceros subtilis	0.00	0.44	0.70	0.49	0.72	79.92
Schizothrix calcicola	0.48	0.00	0.68	0.57	0.69	80.61
Prorocentrum redfieldi	0.40	0.00	0.61	0.35	0.62	81.23
Cyclotella meneghiniana	0.00	0.40	0.58	0.27	0.59	81.82

Leptocylindricus danicus	0.27	0.00	0.57	0.38	0.58	82.40
Thalassionema nitzschoides	0.35	0.00	0.56	0.47	0.57	82.97
Tricodesmium sp.	0.38	0.00	0.56	0.37	0.57	83.54
Dictyosphaerium sp.	0.00	0.46	0.56	0.39	0.57	84.11
Eutreptiella sp.	0.35	0.00	0.56	0.38	0.57	84.68
Scenedesmus acutus	0.00	0.34	0.55	0.40	0.56	85.23
Pleurosigma sp.	0.09	0.24	0.54	0.56	0.55	85.79
Aphanocapsa sp.	0.36	0.00	0.52	0.38	0.53	86.32
Prorocentrum minimum	0.16	0.16	0.50	0.47	0.51	86.83
Merismopedia punctata	0.00	0.29	0.49	0.38	0.50	87.33
Chroococcus sp.	0.32	0.00	0.45	0.38	0.46	87.79
Oscillatoria sp.	0.32	0.00	0.45	0.38	0.46	88.25
Melosira nummuloidea	0.00	0.25	0.44	0.40	0.45	88.70
Nitzschia closterium	0.20	0.08	0.44	0.37	0.44	89.14
Scenedesmus abundans	0.00	0.29	0.39	0.39	0.40	89.54
Micractinium pusillum	0.00	0.30	0.37	0.37	0.37	89.91
Franceia sp.	0.13	0.12	0.36	0.37	0.37	90.28

Groups 60%Grp4 & 60%Grp5

Average dissimilarity = 95.28

Species	Group 60%Grp4 Av.Abund	Group 60%Grp5 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.61	0.00	8.15	1.59	8.55	8.55
Unknown Cryptophyte sp.	5.92	0.00	7.83	2.04	8.21	16.76
Skeletonema costatum	4.80	3.27	5.81	1.17	6.10	22.86
Thalassiosira sp.	3.75	0.10	4.52	1.23	4.74	27.60
Unknown diatom sp.	3.46	0.00	4.26	1.74	4.48	32.08
Unknown Dinoflagellate sp.	2.96	0.00	3.80	1.13	3.98	36.07
Unknown pennate diatom sp.	0.00	2.07	2.69	1.66	2.83	38.89
Nitzschia closterium	1.99	0.08	2.38	1.02	2.50	41.39
Cyclotella sp. (small)	0.00	1.79	2.26	0.68	2.37	43.76
Cyclotella sp.	0.00	1.76	2.18	0.72	2.29	46.05
Pyramimonas sp.	1.61	0.00	1.95	0.88	2.04	48.09
Chaetoceros sp.	1.70	0.00	1.88	0.76	1.98	50.07
Eutreptia sp.	0.79	0.88	1.87	0.76	1.96	52.03
Peridinium sp.	1.54	0.00	1.78	0.67	1.86	53.89
Cyclotella sp. (large)	0.00	1.45	1.77	0.58	1.86	55.75
Prorocentrum minimum	1.07	0.16	1.73	0.31	1.81	57.57
Nitzschia pungens	1.45	0.00	1.73	0.74	1.81	59.38
Skeletonema menezelli	1.61	0.00	1.66	0.35	1.75	61.13
Gymnodinium sp.	0.24	1.01	1.43	0.99	1.51	62.63

Scenedesmus quadrauda	0.00	1.15	1.41	1.04	1.48	64.11
Schroederia setigera	0.00	1.04	1.25	1.02	1.32	65.43
Thalassiosira pseudonana	0.00	1.05	1.23	0.55	1.30	66.72
Scenedesmus bijinga	0.00	0.90	1.09	0.82	1.14	67.87
Leptocylindricus minimum	1.00	0.00	1.08	0.61	1.14	69.01
Thalassiosira decipiens	0.00	0.91	1.00	0.48	1.05	70.06
Nitzschia longissima	0.00	0.78	0.95	0.90	0.99	71.05
Prorocentrum sp.	0.73	0.00	0.89	0.34	0.94	71.99
Scenedesmus sp.	0.47	0.26	0.81	0.52	0.85	72.84
Akistrodesmus falcatus	0.00	0.64	0.77	0.68	0.81	73.64
Leptocylindricus danicus	0.68	0.00	0.76	0.41	0.80	74.44
Chaetoceros subtilis	0.19	0.44	0.72	0.47	0.75	75.20
Navicula sp. large	0.58	0.00	0.70	0.50	0.74	75.94
Chaetoceros muelleri	0.59	0.00	0.67	0.42	0.71	76.64
Eutreptiella sp.	0.48	0.00	0.66	0.28	0.69	77.33
Minutocellus sp.	0.61	0.00	0.66	0.44	0.69	78.02
Rhizosolenia setigera	0.62	0.00	0.66	0.52	0.69	78.71
Amphiprora sp.	0.00	0.49	0.61	0.60	0.64	79.36
Unknown diatom sp. A	0.53	0.00	0.60	0.35	0.63	79.99
Ceratium hircus	0.55	0.00	0.60	0.38	0.63	80.61
Actinastrum hantzschii	0.00	0.49	0.59	0.49	0.62	81.23
Unknown Katodinium sp.	0.38	0.00	0.59	0.24	0.61	81.85
Apedinella radians	0.47	0.00	0.58	0.42	0.61	82.46
Bluegreen filamentous sp.	0.00	0.41	0.55	0.59	0.58	83.04
Chaetoceros gracile	0.45	0.00	0.52	0.25	0.55	83.58
Cyclotella meneghiniana	0.00	0.40	0.46	0.27	0.48	84.06
Melosira sp.	0.00	0.36	0.45	0.49	0.48	84.54
Dictyosphaerium sp.	0.00	0.46	0.45	0.39	0.47	85.01
Scenedesmus acutus	0.00	0.34	0.42	0.39	0.44	85.45
Prorocentrum micans	0.32	0.00	0.41	0.25	0.43	85.88
Unknown bluegreen sp.	0.33	0.00	0.41	0.32	0.43	86.31
Thalassionema nitzschoides	0.41	0.00	0.40	0.36	0.42	86.73
Asterionella japonica	0.39	0.00	0.40	0.33	0.42	87.15
Glenodinium sp.	0.32	0.00	0.39	0.23	0.41	87.56
Pleurosigma sp.	0.05	0.24	0.38	0.49	0.40	87.96
Aphanocapsa sp.	0.37	0.00	0.37	0.34	0.39	88.35
Unknown Vegetative cell sp.	0.24	0.00	0.37	0.23	0.39	88.74
Pyrophacus sp.	0.30	0.00	0.37	0.26	0.39	89.13
Navicula sp. small	0.29	0.00	0.37	0.31	0.39	89.51
Merismopedia punctata	0.00	0.29	0.37	0.38	0.38	89.90
Crucigenia sp.	0.00	0.22	0.36	0.49	0.38	90.28

Groups 60%Grp3 & 60%Grp7

Average dissimilarity = 95.68

Species	Group 60%Grp3 Av.Abund	Group 60%Grp7 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.01	8.70	1.54	9.09	9.09
Skeletonema costatum	0.16	4.59	7.88	1.86	8.23	17.32
Unknown diatom sp.	3.09	0.00	5.53	2.20	5.78	23.10
Unknown diatom sp. D	2.34	0.00	4.07	1.52	4.25	27.36
Thalassiosira sp.	2.01	0.77	3.28	1.49	3.43	30.79
Prorocentrum micans	1.61	0.15	3.25	0.56	3.39	34.18
Unknown Dinoflagellate sp.	1.73	0.00	3.17	0.94	3.32	37.50
Chaetoceros subtilis	0.00	1.61	3.02	0.91	3.15	40.65
Scenedesmus sp.	1.47	0.05	2.44	1.13	2.55	43.20
Navicula sp. small	1.23	0.00	2.23	0.83	2.33	45.53
Peridinium aciculiferum	0.00	0.94	1.77	0.77	1.85	47.39
Thalassiosira pseudonana	0.00	1.07	1.75	0.71	1.83	49.21
Leptocylicus minimum	0.61	0.70	1.64	0.87	1.72	50.93
Eutreptia sp.	0.37	0.74	1.60	0.72	1.67	52.60
Coscinodiscus sp.	0.83	0.01	1.55	0.57	1.62	54.23
Nitzschia closterium	0.20	0.83	1.54	0.93	1.61	55.84
Pyramimonas sp.	0.84	0.15	1.50	0.85	1.57	57.41
Nitzschia pungens	0.80	0.26	1.49	0.86	1.56	58.97
Unknown bluegreen sp.	0.83	0.00	1.48	0.88	1.55	60.52
Unknown pennate diatom sp.	0.00	0.78	1.30	0.76	1.36	61.88
Tetraedron sp.	0.82	0.02	1.30	0.74	1.36	63.24
Navicula sp. large	0.66	0.00	1.29	0.63	1.34	64.58
Nitzschia longissima	0.00	0.73	1.27	0.96	1.33	65.91
Prorocentrum minimum	0.16	0.72	1.26	0.66	1.32	67.23
Akistrodesmus sp.	0.76	0.04	1.24	0.59	1.29	68.52
Schizothrix sp.	0.00	0.72	1.20	0.46	1.25	69.78
Schroederia setigera	0.00	0.66	1.15	0.74	1.21	70.98
Gymnodinium sp.	0.09	0.56	1.01	0.65	1.06	72.04
Cyclotella sp.	0.00	0.58	0.92	0.45	0.96	73.00
Thalassionema nitzschoides	0.35	0.27	0.89	0.62	0.93	73.93
Cyclotella sp. (small)	0.00	0.48	0.87	0.36	0.91	74.83
Chaetoceros socialis	0.00	0.48	0.79	0.53	0.83	75.66
Prorocentrum sp.	0.45	0.00	0.79	0.38	0.83	76.49
Ceratulina bergonii	0.00	0.42	0.78	0.38	0.81	77.30
Nitzschia sp.	0.38	0.03	0.78	0.40	0.81	78.12
Leptocylicus danicus	0.27	0.15	0.74	0.47	0.78	78.89
Thalassiosira decipiens	0.00	0.43	0.70	0.53	0.73	79.62
Schizothrix calcicola	0.48	0.00	0.70	0.57	0.73	80.35

Prorocentrum redfieldi	0.40	0.00	0.62	0.36	0.65	81.01
Chaetoceros neogracile	0.00	0.37	0.62	0.51	0.65	81.66
Euglena sp.	0.00	0.39	0.62	0.38	0.64	82.30
Scenedesmus quadracauda	0.00	0.37	0.60	0.47	0.62	82.92
Tricodesmium sp.	0.38	0.00	0.57	0.38	0.60	83.52
Eutreptiella sp.	0.35	0.00	0.57	0.39	0.60	84.12
Scrippsiella sp.	0.00	0.33	0.55	0.47	0.58	84.70
Aphanocapsa sp.	0.36	0.00	0.53	0.39	0.56	85.25
Gonyaulax polygramma	0.00	0.28	0.52	0.45	0.55	85.80
Oscillatoria sp.	0.32	0.03	0.50	0.41	0.52	86.32
Peridinium sp.	0.00	0.31	0.50	0.46	0.52	86.84
Crucigenia sp.	0.21	0.14	0.49	0.46	0.51	87.35
Chroococcus sp.	0.32	0.00	0.46	0.38	0.49	87.84
Rhizosolenia setigera	0.00	0.25	0.44	0.41	0.46	88.29
Actinastrum sp.	0.18	0.02	0.38	0.37	0.39	88.69
Akistrodesmus falcatus	0.00	0.23	0.37	0.37	0.38	89.07
Unknown diatom sp. A	0.20	0.00	0.36	0.26	0.37	89.45
Merismopedia punctata	0.00	0.22	0.35	0.28	0.36	89.81
Unknown diatom sp. 17	0.20	0.00	0.34	0.38	0.35	90.16

Groups 60%Grp4 & 60%Grp7

Average dissimilarity = 88.80

Species	Group 60%Grp4 Av.Abund	Group 60%Grp7 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.61	0.00	8.34	1.62	9.39	9.39
Unknown Cryptophyte sp.	5.92	0.01	8.01	2.10	9.02	18.41
Skeletonema costatum	4.80	4.59	5.47	1.36	6.16	24.57
Unknown diatom sp.	3.46	0.00	4.37	1.78	4.92	29.49
Thalassiosira sp.	3.75	0.77	4.33	1.20	4.88	34.37
Unknown Dinoflagellate sp.	2.96	0.00	3.89	1.15	4.38	38.75
Nitzschia closterium	1.99	0.83	2.45	1.23	2.76	41.51
Chaetoceros subtilis	0.19	1.61	2.34	0.92	2.64	44.15
Prorocentrum minimum	1.07	0.72	2.24	0.41	2.52	46.67
Pyramimonas sp.	1.61	0.15	2.02	0.91	2.27	48.95
Peridinium sp.	1.54	0.31	1.95	0.77	2.20	51.15
Chaetoceros sp.	1.70	0.05	1.95	0.78	2.19	53.34
Nitzschia pungens	1.45	0.26	1.86	0.84	2.09	55.43
Eutreptia sp.	0.79	0.74	1.74	0.64	1.96	57.39
Skeletonema menezelli	1.61	0.00	1.70	0.36	1.92	59.31
Leptocylicus minimum	1.00	0.70	1.55	0.87	1.74	61.05
Thalassiosira pseudonana	0.00	1.07	1.34	0.69	1.51	62.56

Peridinium aciculiferum	0.00	0.94	1.31	0.75	1.48	64.03
Unknown pennate diatom sp.	0.00	0.78	0.99	0.74	1.12	65.15
Schizothrix sp.	0.07	0.72	0.96	0.47	1.09	66.24
Nitzschia longissima	0.00	0.73	0.96	0.94	1.08	67.32
Prorocentrum sp.	0.73	0.00	0.91	0.34	1.03	68.35
Leptocylindricus danicus	0.68	0.15	0.90	0.48	1.02	69.36
Gymnodinium sp.	0.24	0.56	0.89	0.65	1.00	70.36
Rhizosolenia setigera	0.62	0.25	0.88	0.67	0.99	71.35
Schroederia setigera	0.00	0.66	0.87	0.72	0.98	72.33
Navicula sp. large	0.58	0.00	0.72	0.50	0.81	73.14
Ceratium hircus	0.55	0.11	0.71	0.43	0.80	73.93
Cyclotella sp.	0.00	0.58	0.70	0.44	0.79	74.73
Thalassionema nitzschoides	0.41	0.27	0.70	0.54	0.78	75.51
Chaetoceros muelleri	0.59	0.00	0.69	0.42	0.78	76.29
Eutreptiella sp.	0.48	0.00	0.68	0.29	0.76	77.05
Minutocellus sp.	0.61	0.00	0.67	0.45	0.76	77.81
Cyclotella sp. (small)	0.00	0.48	0.65	0.35	0.73	78.54
Scenedesmus sp.	0.47	0.05	0.65	0.41	0.73	79.27
Unknown diatom sp. A	0.53	0.00	0.61	0.35	0.69	79.96
Chaetoceros socialis	0.00	0.48	0.60	0.52	0.68	80.64
Unknown Katodinium sp.	0.38	0.00	0.60	0.24	0.68	81.32
Apedinella radians	0.47	0.00	0.60	0.42	0.67	81.99
Ceratulina bergonii	0.00	0.42	0.58	0.38	0.65	82.64
Prorocentrum micans	0.32	0.15	0.57	0.34	0.65	83.28
Thalassiosira decipiens	0.00	0.43	0.54	0.53	0.60	83.89
Chaetoceros gracile	0.45	0.00	0.53	0.25	0.60	84.49
Euglena sp.	0.00	0.39	0.47	0.37	0.53	85.02
Chaetoceros neogracile	0.00	0.37	0.47	0.50	0.53	85.55
Scenedesmus quadracauda	0.00	0.37	0.46	0.46	0.51	86.07
Scrippsiella sp.	0.00	0.33	0.42	0.47	0.47	86.54
Unknown bluegreen sp.	0.33	0.00	0.42	0.32	0.47	87.01
Asterionella japonica	0.39	0.00	0.41	0.33	0.46	87.47
Glenodinium sp.	0.32	0.00	0.40	0.23	0.45	87.92
Akistrodesmus sp.	0.31	0.04	0.40	0.32	0.45	88.37
Gonyaulax polygramma	0.00	0.28	0.39	0.44	0.44	88.81
Unknown Vegetative cell sp.	0.24	0.00	0.38	0.24	0.43	89.23
Aphanocapsa sp.	0.37	0.00	0.38	0.34	0.43	89.66
Pyrophacus sp.	0.30	0.00	0.38	0.26	0.43	90.09

Groups 60%Grp5 & 60%Grp7

Average dissimilarity = 80.42

Species	Group 60%Grp5 Av.Abund	Group 60%Grp7 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	4.59	7.46	1.27	9.27	9.27
Cyclotella sp. (small)	1.79	0.48	3.83	0.78	4.76	14.03
Cyclotella sp.	1.76	0.58	3.67	0.85	4.56	18.59
Chaetoceros subtilis	0.44	1.61	3.43	0.88	4.27	22.86
Unknown pennate diatom sp.	2.07	0.78	3.42	1.16	4.25	27.11
Thalassiosira pseudonana	1.05	1.07	2.97	0.89	3.70	30.81
Cyclotella sp. (large)	1.45	0.05	2.70	0.61	3.35	34.17
Scenedesmus quadricauda	1.15	0.37	2.18	1.08	2.71	36.87
Gymnodinium sp.	1.01	0.56	2.17	1.01	2.70	39.57
Eutreptia sp.	0.88	0.74	2.11	1.03	2.62	42.20
Peridinium aciculiferum	0.11	0.94	2.08	0.75	2.59	44.78
Schroederia setigera	1.04	0.66	2.03	1.07	2.53	47.31
Thalassiosira decipiens	0.91	0.43	1.95	0.69	2.43	49.74
Scenedesmus bijinga	0.90	0.18	1.72	0.84	2.14	51.89
Nitzschia longissima	0.78	0.73	1.69	1.05	2.10	53.99
Nitzschia closterium	0.08	0.83	1.60	0.87	1.99	55.98
Thalassiosira sp.	0.10	0.77	1.55	0.55	1.93	57.91
Prorocentrum minimum	0.16	0.72	1.42	0.68	1.76	59.67
Schizothrix sp.	0.00	0.72	1.35	0.45	1.68	61.36
Akistrodesmus falcatus	0.64	0.23	1.34	0.73	1.66	63.02
Leptocylindricus minimum	0.00	0.70	1.24	0.60	1.54	64.56
Amphiprora sp.	0.49	0.08	0.99	0.66	1.24	65.79
Bluegreen filamentous sp.	0.41	0.10	0.96	0.63	1.20	66.99
Ceratulina bergonii	0.00	0.42	0.90	0.36	1.12	68.11
Chaetoceros socialis	0.00	0.48	0.89	0.52	1.11	69.22
Actinastrum hantzschii	0.49	0.00	0.89	0.48	1.11	70.33
Merismopedia punctata	0.29	0.22	0.88	0.46	1.10	71.43
Crucigenia sp.	0.22	0.14	0.80	0.56	1.00	72.43
Euglena sp.	0.09	0.39	0.78	0.42	0.97	73.40
Scrippsiella sp.	0.08	0.33	0.74	0.52	0.92	74.32
Melosira sp.	0.36	0.03	0.74	0.52	0.92	75.24
Scenedesmus acutus	0.34	0.06	0.73	0.42	0.90	76.15
Chaetoceros neogracile	0.00	0.37	0.70	0.49	0.87	77.02
Cyclotella meneghiniana	0.40	0.03	0.69	0.29	0.86	77.88
Pleurosigma sp.	0.24	0.06	0.65	0.52	0.81	78.69
Dictyosphaerium sp.	0.46	0.00	0.62	0.39	0.77	79.46
Scenedesmus acuminatus	0.26	0.15	0.60	0.51	0.75	80.20
Gonyaulax polygramma	0.00	0.28	0.60	0.43	0.75	80.95
Peridinium sp.	0.00	0.31	0.56	0.45	0.70	81.65
Melosira nummuloidea	0.25	0.04	0.56	0.41	0.70	82.34
Thalassionema nitzschoidea	0.00	0.27	0.53	0.39	0.66	83.00

Nitzschia pungens	0.00	0.26	0.50	0.40	0.63	83.62
Rhizosolenia setigera	0.00	0.25	0.50	0.39	0.62	84.25
Scenedesmus sp.	0.26	0.05	0.49	0.44	0.61	84.86
Nostoc sp.(trichomes)	0.09	0.14	0.47	0.40	0.59	85.44
Scenedesmus abundans	0.29	0.00	0.44	0.39	0.54	85.98
Tetrastrum sp.	0.24	0.03	0.41	0.42	0.51	86.49
Micractinium pusillum	0.30	0.00	0.40	0.37	0.50	87.00
Tropodineis lepidoptera	0.19	0.03	0.36	0.29	0.45	87.44
Nitzschia sp.	0.09	0.03	0.36	0.29	0.44	87.89
Peridinium trochoideum	0.10	0.06	0.30	0.33	0.37	88.26
Akistrodesmus fractus	0.10	0.02	0.30	0.28	0.37	88.63
Unknown chlorophyte sp.	0.18	0.00	0.29	0.27	0.36	88.99
Kirchneriella sp.	0.11	0.00	0.29	0.27	0.36	89.35
Unkown C sp.	0.22	0.00	0.28	0.27	0.35	89.70
Dinobryon sp.	0.16	0.02	0.27	0.29	0.34	90.04

Groups 60%Grp3 & 60%Grp6

Average dissimilarity = 94.13

Species	Group 60%Grp3 Av.Abund	Group 60%Grp6 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	7.69	1.37	8.17	8.17
Skeletonema costatum	0.16	5.07	6.45	1.53	6.85	15.02
Unknown diatom sp.	3.09	0.00	4.88	1.82	5.19	20.20
Unknown diatom sp. D	2.34	0.00	3.60	1.36	3.82	24.03
Prorocentrum micans	1.61	0.97	3.26	0.68	3.47	27.50
Schizothrix sp.	0.00	2.14	3.00	0.68	3.19	30.69
Unknown Dinoflagellate sp.	1.73	0.00	2.80	0.87	2.97	33.66
Thalassiosira sp.	2.01	0.93	2.76	1.29	2.93	36.59
Thalassionema nitzschoides	0.35	1.63	2.50	0.72	2.66	39.25
Scenedesmus sp.	1.47	0.00	2.17	1.04	2.31	41.55
Ceratulina bergonii	0.00	1.39	2.12	0.76	2.25	43.80
Leptocylindricus minimum	0.61	1.63	2.04	1.12	2.17	45.97
Navicula sp. small	1.23	0.00	1.97	0.78	2.09	48.06
Nitzschia pungens	0.80	1.11	1.88	0.97	2.00	50.06
Nitzschia closterium	0.20	1.37	1.76	0.85	1.87	51.93
Chaetoceros socialis	0.00	1.47	1.69	0.82	1.80	53.73
Chaetoceros neogracile	0.00	1.24	1.63	0.88	1.73	55.46
Unknown pennate diatom sp.	0.00	1.09	1.57	0.85	1.67	57.12
Coscinodiscus sp.	0.83	0.10	1.44	0.58	1.53	58.65
Unknown bluegreen sp.	0.83	0.00	1.31	0.82	1.39	60.04
Rhizosolenia setigera	0.00	0.93	1.30	0.79	1.39	61.43

Pyramimonas sp.	0.84	0.06	1.26	0.78	1.34	62.77
Tetraedron sp.	0.82	0.00	1.15	0.70	1.22	63.99
Navicula sp. large	0.66	0.00	1.13	0.60	1.20	65.19
Akistrodesmus sp.	0.76	0.00	1.07	0.54	1.14	66.32
Chaetoceros sp.	0.13	0.56	1.00	0.38	1.06	67.38
Ceratium hircus	0.00	0.73	0.99	0.84	1.05	68.43
Asterionella glacialis	0.00	0.87	0.98	0.67	1.04	69.47
Chaetoceros compressum	0.00	0.87	0.97	0.66	1.04	70.51
Prorocentrum minimum	0.16	0.72	0.96	0.93	1.02	71.52
Thalassiosira decipiens	0.00	0.64	0.93	0.61	0.99	72.51
Leptocylindricus danicus	0.27	0.46	0.89	0.61	0.95	73.46
Melosira sp.	0.20	0.26	0.80	0.40	0.85	74.31
Eutreptia sp.	0.37	0.14	0.80	0.41	0.85	75.16
Nitzschia longissima	0.00	0.64	0.74	0.86	0.79	75.95
Nitzschia sp.	0.38	0.05	0.71	0.40	0.75	76.70
Prorocentrum sp.	0.45	0.00	0.70	0.37	0.74	77.44
Peridinium sp.	0.00	0.41	0.67	0.53	0.71	78.16
Schizothrix calcicola	0.48	0.00	0.62	0.56	0.66	78.82
Chaetoceros subtilis	0.00	0.59	0.60	0.54	0.64	79.46
Prorocentrum redfieldi	0.40	0.00	0.56	0.35	0.59	80.05
Amphora sp.	0.00	0.41	0.53	0.42	0.56	80.61
Tricodesmium sp.	0.38	0.00	0.51	0.36	0.54	81.16
Eutreptiella sp.	0.35	0.00	0.51	0.37	0.54	81.69
Aphanocapsa sp.	0.36	0.00	0.47	0.37	0.50	82.20
Pleurosigma sp.	0.09	0.27	0.47	0.53	0.50	82.70
Thalassiosira pseudonana	0.00	0.37	0.42	0.39	0.44	83.14
Chroococcus sp.	0.32	0.00	0.42	0.37	0.44	83.58
Oscillatoria sp.	0.32	0.00	0.41	0.38	0.44	84.02
Gymnodinium sp.	0.09	0.25	0.41	0.54	0.44	84.46
Chaetoceros curvisetus	0.00	0.43	0.40	0.33	0.42	84.88
Gonyaulax polygramma	0.00	0.22	0.38	0.35	0.41	85.29
Chaetoceros lorenzianum	0.00	0.32	0.37	0.43	0.40	85.69
Thalassiosira oestrupii	0.00	0.30	0.37	0.50	0.40	86.08
Peridinium tuba	0.00	0.27	0.34	0.48	0.36	86.44
Gonyaulax monilata	0.00	0.19	0.33	0.35	0.35	86.79
Unknown diatom sp. A	0.20	0.00	0.32	0.25	0.34	87.13
Rhizosolenia delicatula	0.00	0.26	0.32	0.42	0.34	87.47
Actinastrum sp.	0.18	0.00	0.31	0.34	0.33	87.80
Unknown diatom sp. 17	0.20	0.00	0.30	0.37	0.32	88.11
Scrippsiella sp.	0.00	0.24	0.30	0.43	0.31	88.43
Thalassiothrix frauenfeldianum	0.00	0.18	0.29	0.32	0.30	88.73
Crucigenia sp.	0.21	0.00	0.28	0.36	0.30	89.03
Bacteriastrum sp.	0.22	0.00	0.28	0.26	0.30	89.32

Gonyaulax digitalis	0.00	0.20	0.28	0.30	0.30	89.62
Rhizosolenia calcar-avis	0.00	0.22	0.28	0.41	0.29	89.91
Coscinosira polychorda	0.00	0.21	0.27	0.36	0.29	90.20

Groups 60%Grp4 & 60%Grp6

Average dissimilarity = 88.36

Species	Group 60%Grp4 Av.Abund	Group 60%Grp6 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.61	0.00	7.51	1.50	8.50	8.50
Unknown Cryptophyte sp.	5.92	0.00	7.19	1.87	8.14	16.63
Skeletonema costatum	4.80	5.07	5.42	1.21	6.13	22.76
Unknown diatom sp.	3.46	0.00	3.93	1.64	4.45	27.21
Thalassiosira sp.	3.75	0.93	3.75	1.08	4.24	31.46
Unknown Dinoflagellate sp.	2.96	0.00	3.49	1.09	3.95	35.41
Schizothrix sp.	0.07	2.14	2.38	0.67	2.69	38.11
Nitzschia closterium	1.99	1.37	2.37	1.12	2.68	40.79
Chaetoceros sp.	1.70	0.56	2.04	0.79	2.31	43.10
Thalassionema nitzschoides	0.41	1.63	2.03	0.76	2.30	45.40
Nitzschia pungens	1.45	1.11	1.97	0.95	2.23	47.63
Prorocentrum minimum	1.07	0.72	1.92	0.38	2.18	49.81
Leptocylicus minimum	1.00	1.63	1.84	1.13	2.08	51.89
Peridinium sp.	1.54	0.41	1.83	0.81	2.07	53.96
Pyramimonas sp.	1.61	0.06	1.80	0.87	2.04	55.99
Ceratulina bergonii	0.00	1.39	1.62	0.81	1.83	57.83
Skeletonema menezelli	1.61	0.00	1.55	0.35	1.75	59.58
Chaetoceros socialis	0.00	1.47	1.38	0.81	1.56	61.14
Chaetoceros neogracile	0.00	1.24	1.29	0.88	1.46	62.61
Prorocentrum micans	0.32	0.97	1.29	0.82	1.46	64.07
Rhizosolenia setigera	0.62	0.93	1.26	0.93	1.42	65.49
Unknown pennate diatom sp.	0.00	1.09	1.21	0.85	1.37	66.86
Ceratium hircus	0.55	0.73	1.15	0.82	1.30	68.17
Eutreptia sp.	0.79	0.14	1.13	0.43	1.28	69.45
Leptocylicus danicus	0.68	0.46	1.01	0.59	1.14	70.59
Prorocentrum sp.	0.73	0.00	0.82	0.33	0.93	71.52
Asterionella glacialis	0.00	0.87	0.80	0.66	0.91	72.42
Chaetoceros compressum	0.00	0.87	0.80	0.66	0.90	73.32
Thalassiosira decipiens	0.00	0.64	0.72	0.63	0.81	74.13
Chaetoceros subtilis	0.19	0.59	0.67	0.48	0.75	74.89
Navicula sp. large	0.58	0.00	0.65	0.49	0.73	75.62
Chaetoceros muelleri	0.59	0.00	0.62	0.41	0.71	76.33
Minutocellus sp.	0.61	0.00	0.61	0.44	0.69	77.02

Nitzschia longissima	0.00	0.64	0.61	0.86	0.68	77.70
Eutreptiella sp.	0.48	0.00	0.60	0.28	0.68	78.39
Amphora sp.	0.15	0.41	0.59	0.46	0.67	79.06
Unknown diatom sp. A	0.53	0.00	0.55	0.34	0.63	79.68
Scenedesmus sp.	0.47	0.00	0.54	0.37	0.62	80.30
Apedinella radians	0.47	0.00	0.54	0.41	0.61	80.91
Unknown Katodinium sp.	0.38	0.00	0.53	0.24	0.60	81.51
Chaetoceros gracile	0.45	0.05	0.51	0.26	0.58	82.09
Gymnodinium sp.	0.24	0.25	0.44	0.48	0.50	82.59
Melosira sp.	0.00	0.26	0.42	0.32	0.48	83.07
Coscinodiscus sp.	0.22	0.10	0.40	0.35	0.45	83.52
Unknown bluegreen sp.	0.33	0.00	0.37	0.32	0.42	83.95
Asterionella japonica	0.39	0.00	0.37	0.32	0.42	84.37
Glenodinium sp.	0.32	0.00	0.36	0.23	0.41	84.78
Aphanocapsa sp.	0.37	0.00	0.35	0.33	0.39	85.17
Pleurosigma sp.	0.05	0.27	0.35	0.47	0.39	85.56
Thalassiosira pseudonana	0.00	0.37	0.34	0.39	0.39	85.95
Pyrophacus sp.	0.30	0.00	0.34	0.26	0.39	86.33
Navicula sp. small	0.29	0.00	0.34	0.30	0.38	86.72
Chaetoceros curvisetus	0.00	0.43	0.34	0.33	0.38	87.10
Unknown Vegetative cell sp.	0.24	0.00	0.34	0.23	0.38	87.48
Akistrodesmus sp.	0.31	0.00	0.32	0.28	0.37	87.85
Chaetoceros lorenzianum	0.00	0.32	0.31	0.43	0.35	88.19
Thalassiosira oestrupii	0.00	0.30	0.30	0.49	0.34	88.54
Gonyaulax polygramma	0.00	0.22	0.29	0.35	0.33	88.86
Prorocentrum gracile	0.17	0.11	0.28	0.29	0.32	89.18
Prorocentrum redfieldi	0.26	0.00	0.27	0.15	0.31	89.49
Peridinium tuba	0.00	0.27	0.27	0.48	0.30	89.80
Guinardia flaccida	0.11	0.15	0.26	0.33	0.29	90.09

Groups 60%Grp5 & 60%Grp6

Average dissimilarity = 88.63

Species	Group 60%Grp5 Av.Abund	Group 60%Grp6 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	5.07	6.84	1.37	7.72	7.72
Schizothrix sp.	0.00	2.14	3.32	0.66	3.75	11.47
Cyclotella sp. (small)	1.79	0.00	3.03	0.66	3.42	14.90
Cyclotella sp.	1.76	0.00	2.95	0.69	3.33	18.22
Thalassionema nitzschoides	0.00	1.63	2.92	0.67	3.30	21.52
Unknown pennate diatom sp.	2.07	1.09	2.88	1.05	3.25	24.78
Ceratulina bergonii	0.00	1.39	2.40	0.68	2.71	27.48

Cyclotella sp. (large)	1.45	0.00	2.34	0.56	2.64	30.12
Leptocylindricus minimum	0.00	1.63	2.12	1.09	2.39	32.51
Thalassiosira decipiens	0.91	0.64	1.97	0.71	2.23	34.74
Scenedesmus quadracauda	1.15	0.06	1.87	0.97	2.11	36.85
Thalassiosira pseudonana	1.05	0.37	1.86	0.62	2.10	38.95
Nitzschia closterium	0.08	1.37	1.85	0.84	2.09	41.05
Chaetoceros socialis	0.00	1.47	1.82	0.81	2.05	43.10
Gymnodinium sp.	1.01	0.25	1.79	0.88	2.02	45.11
Chaetoceros neogracile	0.00	1.24	1.79	0.86	2.02	47.13
Schroederia setigera	1.04	0.09	1.66	0.94	1.87	49.00
Eutreptia sp.	0.88	0.14	1.65	0.86	1.87	50.87
Prorocentrum micans	0.00	0.97	1.52	0.94	1.71	52.58
Scenedesmus bijinga	0.90	0.06	1.48	0.77	1.67	54.25
Nitzschia pungens	0.00	1.11	1.48	0.69	1.67	55.92
Rhizosolenia setigera	0.00	0.93	1.47	0.73	1.65	57.57
Thalassiosira sp.	0.10	0.93	1.44	0.65	1.62	59.19
Nitzschia longissima	0.78	0.64	1.38	0.94	1.55	60.74
Melosira sp.	0.36	0.26	1.16	0.48	1.31	62.06
Chaetoceros subtilis	0.44	0.59	1.15	0.68	1.30	63.36
Ceratium hircus	0.00	0.73	1.08	0.82	1.22	64.58
Akistrodesmus falcatus	0.64	0.05	1.06	0.64	1.19	65.77
Asterionella glacialis	0.00	0.87	1.05	0.66	1.18	66.96
Chaetoceros compressum	0.00	0.87	1.05	0.65	1.18	68.14
Prorocentrum minimum	0.16	0.72	1.02	0.91	1.15	69.29
Chaetoceros sp.	0.00	0.56	1.01	0.32	1.14	70.43
Amphiprora sp.	0.49	0.21	0.93	0.67	1.05	71.49
Bluegreen filamentous sp.	0.41	0.06	0.82	0.56	0.93	72.41
Actinastrum hantzschii	0.49	0.00	0.79	0.46	0.89	73.30
Peridinium sp.	0.00	0.41	0.77	0.50	0.87	74.17
Pleurosigma sp.	0.24	0.27	0.77	0.60	0.86	75.03
Merismopedia punctata	0.29	0.09	0.65	0.39	0.73	75.77
Melosira nummuloidea	0.25	0.13	0.59	0.45	0.67	76.43
Leptocylindricus danicus	0.00	0.46	0.58	0.57	0.66	77.09
Amphora sp.	0.00	0.41	0.58	0.40	0.66	77.75
Cyclotella meneghiniana	0.40	0.00	0.58	0.26	0.66	78.41
Crucigenia sp.	0.22	0.00	0.56	0.44	0.63	79.04
Scenedesmus acutus	0.34	0.00	0.56	0.38	0.63	79.67
Dictyosphaerium sp.	0.46	0.00	0.55	0.38	0.62	80.29
Scrippsiella sp.	0.08	0.24	0.44	0.49	0.50	80.79
Gonyaulax polygramma	0.00	0.22	0.44	0.34	0.49	81.28
Nostoc sp.(trichomes)	0.09	0.17	0.43	0.41	0.48	81.77
Chaetoceros curvisetus	0.00	0.43	0.42	0.33	0.48	82.24
Thalassiosira oestrupii	0.00	0.30	0.40	0.49	0.46	82.70

Chaetoceros lorenzianum	0.00	0.32	0.40	0.43	0.45	83.15
Scenedesmus abundans	0.29	0.00	0.39	0.37	0.44	83.59
Gonyaulax monilata	0.00	0.19	0.38	0.33	0.43	84.02
Scenedesmus sp.	0.26	0.00	0.38	0.39	0.42	84.45
Peridinium tuba	0.00	0.27	0.37	0.47	0.41	84.86
Micractinium pusillum	0.30	0.00	0.36	0.36	0.41	85.27
Tropodineis lepidoptera	0.19	0.08	0.36	0.32	0.40	85.67
Scenedesmus acuminatus	0.26	0.00	0.35	0.39	0.40	86.07
Rhizosolenia delicatula	0.00	0.26	0.35	0.41	0.39	86.46
Nitzschia sp.	0.09	0.05	0.35	0.28	0.39	86.85
Thalassiothrix frauenfeldianum	0.00	0.18	0.32	0.31	0.37	87.21
Tetrastrum sp.	0.24	0.00	0.32	0.39	0.36	87.58
Peridinium aciculiferum	0.11	0.06	0.32	0.32	0.36	87.94
Gonyaulax digitalis	0.00	0.20	0.31	0.29	0.35	88.29
Rhizosolenia calcar-avis	0.00	0.22	0.30	0.40	0.34	88.62
Coscinosira polychorda	0.00	0.21	0.30	0.35	0.33	88.96
Coscinodiscus sp.	0.00	0.10	0.27	0.24	0.31	89.26
Hemiaulis hauckii	0.00	0.20	0.26	0.36	0.29	89.56
Unknown chlorophyte sp.	0.18	0.00	0.26	0.26	0.29	89.85
Unkown C sp.	0.22	0.00	0.25	0.27	0.29	90.13

Groups 60%Grp7 & 60%Grp6

Average dissimilarity = 78.61

Species	Group 60%Grp7 Av.Abund	Group 60%Grp6 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	4.59	5.07	6.37	1.12	8.11	8.11
Schizothrix sp.	0.72	2.14	3.91	0.79	4.97	13.08
Chaetoceros subtilis	1.61	0.59	3.15	0.80	4.01	17.09
Thalassionema nitzschoides	0.27	1.63	2.97	0.69	3.77	20.86
Ceratulina bergonii	0.42	1.39	2.60	0.71	3.31	24.18
Leptocylicus minimum	0.70	1.63	2.36	1.09	3.00	27.17
Nitzschia closterium	0.83	1.37	2.29	1.05	2.91	30.09
Thalassiosira sp.	0.77	0.93	2.17	0.75	2.76	32.85
Chaetoceros socialis	0.48	1.47	2.17	0.94	2.75	35.61
Unknown pennate diatom sp.	0.78	1.09	2.09	0.92	2.66	38.27
Thalassiosira pseudonana	1.07	0.37	1.96	0.73	2.49	40.76
Chaetoceros neogracile	0.37	1.24	1.93	0.92	2.45	43.21
Peridinium aciculiferum	0.94	0.06	1.87	0.69	2.38	45.59
Nitzschia pungens	0.26	1.11	1.70	0.78	2.17	47.76
Rhizosolenia setigera	0.25	0.93	1.62	0.80	2.06	49.82
Prorocentrum micans	0.15	0.97	1.58	0.97	2.01	51.83

Prorocentrum minimum	0.72	0.72	1.54	0.83	1.96	53.79
Thalassiosira decipiens	0.43	0.64	1.41	0.69	1.79	55.58
Nitzschia longissima	0.73	0.64	1.38	0.93	1.76	57.33
Eutreptia sp.	0.74	0.14	1.34	0.67	1.70	59.03
Schroederia setigera	0.66	0.09	1.22	0.70	1.56	60.59
Ceratium hircus	0.11	0.73	1.18	0.84	1.50	62.09
Chaetoceros compressum	0.07	0.87	1.16	0.67	1.47	63.56
Asterionella glacialis	0.08	0.87	1.15	0.69	1.46	65.02
Chaetoceros sp.	0.05	0.56	1.11	0.35	1.41	66.43
Gymnodinium sp.	0.56	0.25	1.10	0.65	1.40	67.83
Peridinium sp.	0.31	0.41	1.06	0.63	1.34	69.18
Cyclotella sp.	0.58	0.00	0.93	0.43	1.19	70.36
Cyclotella sp. (small)	0.48	0.00	0.89	0.34	1.14	71.50
Gonyaulax polygramma	0.28	0.22	0.86	0.52	1.09	72.59
Melosira sp.	0.03	0.26	0.80	0.32	1.02	73.61
Scrippsiella sp.	0.33	0.24	0.78	0.57	0.99	74.60
Leptocylicus danicus	0.15	0.46	0.75	0.62	0.95	75.55
Amphora sp.	0.10	0.41	0.70	0.47	0.89	76.45
Scenedesmus quadracauda	0.37	0.06	0.70	0.49	0.89	77.33
Euglena sp.	0.39	0.00	0.63	0.36	0.80	78.13
Gonyaulax monilata	0.10	0.19	0.54	0.40	0.69	78.82
Pleurosigma sp.	0.06	0.27	0.53	0.48	0.68	79.49
Merismopedia punctata	0.22	0.09	0.52	0.34	0.66	80.15
Thalassiosira oestrupii	0.08	0.30	0.51	0.54	0.65	80.80
Chaetoceros curvisetus	0.05	0.43	0.49	0.36	0.63	81.43
Nostoc sp.(trichomes)	0.14	0.17	0.47	0.44	0.60	82.02
Akistrodesmus falcatus	0.23	0.05	0.45	0.41	0.57	82.59
Chaetoceros lorenzianum	0.03	0.32	0.45	0.44	0.57	83.16
Peridinium tuba	0.04	0.27	0.42	0.51	0.53	83.69
Scenedesmus bijinga	0.18	0.06	0.41	0.36	0.52	84.21
Gonyaulax digitalis	0.06	0.20	0.40	0.36	0.50	84.71
Rhizosolenia delicatula	0.01	0.26	0.37	0.42	0.47	85.18
Amphiprora sp.	0.08	0.21	0.35	0.50	0.44	85.62
Thalassiothrix frauenfeldianum	0.00	0.18	0.33	0.32	0.42	86.04
Rhizosolenia calcar-avis	0.01	0.22	0.33	0.42	0.41	86.46
Coscinodiscus sp.	0.01	0.10	0.31	0.26	0.40	86.86
Nitzschia sigma	0.06	0.19	0.31	0.38	0.39	87.25
Navicula sp.	0.04	0.15	0.31	0.39	0.39	87.64
Peridinium concinnum	0.06	0.19	0.31	0.42	0.39	88.03
Coscinosira polychorda	0.00	0.21	0.30	0.36	0.39	88.42
Pyramimonas sp.	0.15	0.06	0.29	0.28	0.36	88.78
Hemiaulis hauckii	0.00	0.20	0.26	0.36	0.34	89.12
Ebria tripartita	0.03	0.16	0.26	0.39	0.33	89.44

Rhizosolenia alata	0.02	0.19	0.25	0.43	0.32	89.77
Dictyocha fibula	0.04	0.11	0.25	0.32	0.31	90.08

Groups 60%Grp3 & 60%Grp1

Average dissimilarity = 99.24

Species	Group 60%Grp3 Av.Abund	Group 60%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	7.96	1.59	8.02	8.02
Synechocystis aquaticus Sauvageau	0.00	3.49	6.13	1.62	6.18	14.20
Cryptomonas sp.1	0.00	3.26	5.47	3.08	5.51	19.71
Unknown diatom sp.	3.09	0.00	5.05	2.32	5.09	24.80
Unknown diatom sp. D	2.34	0.00	3.73	1.56	3.76	28.56
Scenedesmus quadricauda v. Westii	0.00	2.19	3.58	1.34	3.61	32.17
Thalassiosira sp.	2.01	0.00	3.26	1.89	3.28	35.46
Gonyaulax palustre	0.00	1.82	2.98	1.51	3.00	38.46
Spermatozoopsis exultans	0.00	1.79	2.97	1.28	2.99	41.45
Unknown Dinoflagellate sp.	1.73	0.00	2.89	0.96	2.91	44.37
Prorocentrum micans	1.61	0.00	2.87	0.55	2.89	47.26
Cryptomonas erosa	0.00	1.46	2.30	1.16	2.32	49.58
Scenedesmus sp.	1.47	0.00	2.25	1.14	2.27	51.85
Navicula sp. small	1.23	0.00	2.04	0.84	2.05	53.90
Skeletonema costatum	0.16	1.15	2.03	0.77	2.05	55.95
Chlymentomonas sp.	0.00	1.14	1.80	0.96	1.82	57.76
Cryptomonas ovata	0.00	1.01	1.70	0.88	1.71	59.47
Eutreptiella sp.	0.35	0.80	1.48	0.92	1.49	60.97
Coelosphaerium sp.	0.00	0.90	1.41	0.58	1.42	62.39
Coscinodiscus sp.	0.83	0.00	1.40	0.57	1.41	63.80
Unknown bluegreen sp.	0.83	0.00	1.36	0.89	1.37	65.17
Pyramimonas sp.	0.84	0.00	1.30	0.82	1.31	66.48
Nitzschia pungens	0.80	0.12	1.29	0.82	1.30	67.77
Tetraedron sp.	0.82	0.05	1.21	0.76	1.22	69.00
Navicula sp. large	0.66	0.00	1.17	0.64	1.18	70.17
Akistrodesmus sp.	0.76	0.00	1.11	0.57	1.12	71.29
Nitzschia palea	0.00	0.70	1.06	0.83	1.07	72.37
Cyclotella sp.	0.00	0.73	1.06	0.66	1.07	73.44
Leptocylindricus minimum	0.61	0.00	0.99	0.65	1.00	74.43
Unknown flagellate sp. 1	0.00	0.56	0.91	0.59	0.92	75.35
Navicula sp.	0.00	0.48	0.84	0.65	0.84	76.19
Nitzschia sp.	0.38	0.10	0.80	0.46	0.80	76.99
Chroococcus minutus	0.00	0.56	0.78	0.43	0.78	77.78
Prorocentrum sp.	0.45	0.00	0.73	0.38	0.73	78.51

Schizothrix calcicola	0.48	0.00	0.65	0.58	0.66	79.17
Eutreptia sp.	0.37	0.00	0.63	0.35	0.64	79.81
Cyclotella undulata	0.00	0.37	0.63	0.29	0.64	80.44
Aphanocapsa sp.	0.36	0.08	0.58	0.44	0.58	81.03
Prorocentrum redfieldi	0.40	0.00	0.58	0.36	0.58	81.61
Tricodesmium sp.	0.38	0.00	0.53	0.38	0.54	82.15
Thalassionema nitzschoides	0.35	0.00	0.53	0.49	0.53	82.68
Leptocylindricus danicus	0.27	0.00	0.52	0.38	0.53	83.21
Euglena acus	0.00	0.35	0.51	0.34	0.51	83.72
Scenedesmus abundans v. brevicauda	0.00	0.35	0.47	0.37	0.48	84.20
Nitzschia fruticosa	0.00	0.30	0.45	0.35	0.46	84.66
Merismopedia sp.	0.18	0.20	0.45	0.40	0.45	85.11
Merismopedia glauca	0.00	0.32	0.44	0.36	0.45	85.55
Chroococcus sp.	0.32	0.00	0.43	0.38	0.44	85.99
Oscillatoria sp.	0.32	0.00	0.43	0.39	0.44	86.43
Stephanodiscus sp.	0.00	0.26	0.42	0.34	0.42	86.85
Euglena sp.	0.00	0.21	0.37	0.21	0.37	87.22
Cryptomonas curvata	0.00	0.24	0.37	0.41	0.37	87.59
Spirulina sp.1	0.00	0.24	0.35	0.34	0.35	87.94
Unknown diatom sp. A	0.20	0.00	0.33	0.26	0.33	88.27
Gymnodinium simplex	0.00	0.20	0.33	0.44	0.33	88.60
Oocystis sp.	0.00	0.27	0.33	0.37	0.33	88.93
Lyngbya contorta (trichome)	0.00	0.25	0.33	0.32	0.33	89.26
Phormidium fragile (trichome)	0.00	0.24	0.32	0.37	0.32	89.58
Actinastrum sp.	0.18	0.00	0.32	0.37	0.32	89.90
Unknown diatom sp. 17	0.20	0.00	0.31	0.39	0.31	90.21

Groups 60%Grp4 & 60%Grp1

Average dissimilarity = 97.83

Species	Group 60%Grp4 Av.Abund	Group 60%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.61	0.00	7.82	1.64	8.00	8.00
Unknown Cryptophyte sp.	5.92	0.00	7.49	2.19	7.65	15.65
Skeletonema costatum	4.80	1.15	5.33	1.17	5.45	21.10
Synechocystis aquaticus Sauvageau	0.00	3.49	4.62	1.56	4.72	25.83
Thalassiosira sp.	3.75	0.00	4.40	1.28	4.50	30.32
Cryptomonas sp.1	0.00	3.26	4.16	2.76	4.25	34.57
Unknown diatom sp.	3.46	0.00	4.10	1.81	4.19	38.77
Unknown Dinoflagellate sp.	2.96	0.00	3.64	1.17	3.72	42.49
Scenedesmus quadricauda v. Westii	0.00	2.19	2.74	1.31	2.80	45.29
Nitzschia closterium	1.99	0.00	2.29	1.00	2.34	47.63

Gonyaulax palustre	0.00	1.82	2.28	1.46	2.33	49.96
Spermatozoopsis exultans	0.00	1.79	2.26	1.27	2.31	52.28
Pyramimonas sp.	1.61	0.00	1.87	0.90	1.91	54.19
Chaetoceros sp.	1.70	0.00	1.82	0.77	1.86	56.05
Cryptomonas erosa	0.00	1.46	1.77	1.13	1.81	57.86
Peridinium sp.	1.54	0.00	1.71	0.68	1.75	59.61
Nitzschia pungens	1.45	0.12	1.70	0.79	1.73	61.35
Skeletonema menezelli	1.61	0.00	1.62	0.36	1.65	63.00
Prorocentrum minimum	1.07	0.00	1.49	0.28	1.52	64.53
Chlymentomonas sp.	0.00	1.14	1.39	0.94	1.42	65.94
Eutreptiella sp.	0.48	0.80	1.37	0.66	1.40	67.34
Cryptomonas ovata	0.00	1.01	1.29	0.86	1.32	68.67
Coelosphaerium sp.	0.00	0.90	1.09	0.58	1.11	69.78
Eutreptia sp.	0.79	0.00	1.05	0.39	1.08	70.86
Leptocylindricus minimum	1.00	0.00	1.05	0.62	1.07	71.93
Prorocentrum sp.	0.73	0.00	0.86	0.35	0.87	72.80
Cyclotella sp.	0.00	0.73	0.83	0.65	0.85	73.65
Nitzschia palea	0.00	0.70	0.82	0.82	0.84	74.49
Leptocylindricus danicus	0.68	0.00	0.73	0.41	0.75	75.24
Unknown flagellate sp. 1	0.00	0.56	0.69	0.59	0.71	75.95
Navicula sp. large	0.58	0.00	0.68	0.51	0.69	76.64
Chaetoceros muelleri	0.59	0.00	0.65	0.42	0.67	77.31
Minutocellus sp.	0.61	0.00	0.64	0.45	0.65	77.96
Rhizosolenia setigera	0.62	0.00	0.64	0.53	0.65	78.61
Navicula sp.	0.00	0.48	0.63	0.64	0.64	79.26
Chroococcus minutus	0.00	0.56	0.62	0.43	0.63	79.89
Unknown Katodinium sp.	0.38	0.07	0.61	0.27	0.62	80.51
Unknown diatom sp. A	0.53	0.00	0.58	0.35	0.59	81.10
Ceratium hircus	0.55	0.00	0.58	0.38	0.59	81.69
Scenedesmus sp.	0.47	0.00	0.57	0.38	0.58	82.27
Apedinella radians	0.47	0.00	0.56	0.42	0.57	82.84
Chaetoceros gracile	0.45	0.00	0.50	0.25	0.51	83.35
Cyclotella undulata	0.00	0.37	0.48	0.29	0.49	83.85
Aphanocapsa sp.	0.37	0.08	0.43	0.39	0.44	84.29
Euglena acus	0.00	0.35	0.40	0.34	0.40	84.69
Thalassionema nitzschoides	0.41	0.00	0.39	0.36	0.40	85.10
Unknown bluegreen sp.	0.33	0.00	0.39	0.33	0.40	85.49
Prorocentrum micans	0.32	0.00	0.39	0.25	0.40	85.89
Asterionella japonica	0.39	0.00	0.39	0.33	0.40	86.29
Glenodinium sp.	0.32	0.00	0.38	0.24	0.39	86.67
Scenedesmus abundans v. brevicauda	0.00	0.35	0.38	0.37	0.38	87.06
Chaetoceros subtilis	0.19	0.16	0.37	0.26	0.38	87.44
Pyrophacus sp.	0.30	0.00	0.35	0.26	0.36	87.80

Navicula sp. small	0.29	0.00	0.35	0.31	0.36	88.16
Nitzschia fruticosa	0.00	0.30	0.35	0.35	0.36	88.52
Merismopedia glauca	0.00	0.32	0.35	0.36	0.36	88.88
Unknown Vegetative cell sp.	0.24	0.00	0.35	0.24	0.36	89.24
Akistrodesmus sp.	0.31	0.00	0.34	0.28	0.35	89.58
Stephanodiscus sp.	0.00	0.26	0.32	0.34	0.33	89.91
Tetraedron sp.	0.23	0.05	0.30	0.31	0.31	90.22

Groups 60%Grp5 & 60%Grp1

Average dissimilarity = 96.57

Species	Group 60%Grp5 Av.Abund	Group 60%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	3.49	6.96	1.48	7.21	7.21
Cryptomonas sp.1	0.00	3.26	6.17	2.54	6.39	13.60
Skeletonema costatum	3.27	1.15	4.91	1.12	5.08	18.69
Scenedesmus quadricauda v. Westii	0.00	2.19	4.03	1.25	4.17	22.85
Unknown pennate diatom sp.	2.07	0.00	3.79	1.66	3.93	26.78
Spermatozoopsis exultans	0.00	1.79	3.35	1.19	3.47	30.24
Gonyaulax palustre	0.00	1.82	3.34	1.43	3.46	33.71
Cyclotella sp.	1.76	0.73	3.30	0.91	3.41	37.12
Cyclotella sp. (small)	1.79	0.00	3.12	0.70	3.23	40.35
Cryptomonas erosa	0.00	1.46	2.57	1.12	2.66	43.01
Cyclotella sp. (large)	1.45	0.00	2.42	0.60	2.50	45.51
Chlymentomonas sp.	0.00	1.14	2.01	0.92	2.08	47.60
Scenedesmus quadracauda	1.15	0.00	1.93	1.07	2.00	49.60
Cryptomonas ovata	0.00	1.01	1.91	0.84	1.98	51.58
Gymnodinium sp.	1.01	0.00	1.87	0.98	1.93	53.51
Schroederia setigera	1.04	0.00	1.71	1.04	1.77	55.28
Thalassiosira pseudonana	1.05	0.00	1.67	0.56	1.73	57.01
Eutreptia sp.	0.88	0.00	1.64	0.95	1.70	58.71
Coelosphaerium sp.	0.00	0.90	1.58	0.56	1.64	60.34
Scenedesmus bijinga	0.90	0.17	1.54	0.86	1.59	61.93
Eutreptiella sp.	0.00	0.80	1.40	0.82	1.45	63.38
Thalassiosira decipiens	0.91	0.00	1.33	0.49	1.38	64.76
Nitzschia longissima	0.78	0.00	1.30	0.92	1.34	66.10
Nitzschia palea	0.00	0.70	1.18	0.80	1.23	67.33
Akistrodesmus falcatus	0.64	0.00	1.05	0.68	1.09	68.42
Unknown flagellate sp. 1	0.00	0.56	1.02	0.58	1.06	69.47
Navicula sp.	0.00	0.48	0.96	0.62	0.99	70.46
Chaetoceros subtilis	0.44	0.16	0.94	0.52	0.98	71.44
Chroococcus minutus	0.00	0.56	0.85	0.43	0.88	72.32

Amphiprora sp.	0.49	0.00	0.84	0.62	0.87	73.20
Actinastrum hantzschii	0.49	0.00	0.81	0.50	0.84	74.04
Bluegreen filamentous sp.	0.41	0.00	0.79	0.60	0.82	74.85
Cyclotella undulata	0.00	0.37	0.71	0.29	0.74	75.59
Melosira sp.	0.36	0.00	0.63	0.50	0.65	76.24
Cyclotella meneghiniana	0.40	0.00	0.61	0.27	0.63	76.87
Dictyosphaerium sp.	0.46	0.00	0.58	0.39	0.60	77.47
Scenedesmus acutus	0.34	0.00	0.58	0.40	0.60	78.07
Euglena acus	0.00	0.35	0.56	0.33	0.58	78.65
Crucigenia sp.	0.22	0.00	0.55	0.50	0.57	79.22
Euglena sp.	0.09	0.21	0.53	0.26	0.55	79.77
Merismopedia punctata	0.29	0.00	0.52	0.37	0.53	80.30
Scenedesmus abundans v. brevicauda	0.00	0.35	0.51	0.37	0.53	80.83
Nitzschia fruticosa	0.00	0.30	0.50	0.34	0.52	81.36
Pleurosigma sp.	0.24	0.00	0.49	0.50	0.51	81.87
Merismopedia glauca	0.00	0.32	0.49	0.36	0.50	82.37
Stephanodiscus sp.	0.00	0.26	0.47	0.34	0.49	82.86
Scenedesmus acuminatus	0.26	0.09	0.46	0.45	0.48	83.34
Melosira nummuloidea	0.25	0.00	0.46	0.40	0.48	83.82
Nitzschia sp.	0.09	0.10	0.41	0.38	0.43	84.25
Cryptomonas curvata	0.00	0.24	0.41	0.40	0.42	84.67
Scenedesmus abundans	0.29	0.00	0.41	0.39	0.42	85.09
Scenedesmus sp.	0.26	0.00	0.39	0.40	0.41	85.50
Spirulina sp.1	0.00	0.24	0.38	0.34	0.39	85.89
Micractinium pusillum	0.30	0.00	0.38	0.37	0.39	86.29
Gymnodinium simplex	0.00	0.20	0.37	0.43	0.38	86.67
Lyngbya contorta (trichome)	0.00	0.25	0.35	0.32	0.37	87.03
Oocystis sp.	0.00	0.27	0.35	0.37	0.37	87.40
Phormidium fragile (trichome)	0.00	0.24	0.35	0.37	0.36	87.76
Kirchneriella sp.	0.11	0.07	0.34	0.33	0.36	88.11
Nitzschia tryblionella	0.00	0.17	0.34	0.36	0.35	88.46
Tetrastrum sp.	0.24	0.00	0.34	0.40	0.35	88.81
Paralia sulcata	0.00	0.20	0.34	0.35	0.35	89.16
Chlamydomonas sp.	0.00	0.25	0.34	0.37	0.35	89.51
Prorocentrum minimum	0.16	0.00	0.33	0.39	0.34	89.85
Tropodineis lepidoptera	0.19	0.00	0.28	0.27	0.29	90.14

Groups 60%Grp7 & 60%Grp1

Average dissimilarity = 95.02

Species	Group 60%Grp7 Av.Abund	Group 60%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
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Synechocystis aquaticus Sauvageau	0.00	3.49	7.16	1.54	7.54	7.54
Skeletonema costatum	4.59	1.15	6.69	1.47	7.04	14.58
Cryptomonas sp.1	0.00	3.26	6.35	2.78	6.68	21.26
Scenedesmus quadricauda v. Westii	0.00	2.19	4.14	1.29	4.36	25.62
Spermatozoopsis exultans	0.00	1.79	3.44	1.23	3.62	29.24
Gonyaulax palustre	0.00	1.82	3.44	1.47	3.62	32.86
Chaetoceros subtilis	1.61	0.16	3.25	0.93	3.42	36.28
Cryptomonas erosa	0.00	1.46	2.64	1.14	2.78	39.06
Chlymentomonas sp.	0.00	1.14	2.07	0.93	2.18	41.24
Cryptomonas ovata	0.00	1.01	1.96	0.86	2.07	43.30
Peridinium aciculiferum	0.94	0.00	1.88	0.77	1.98	45.28
Thalassiosira pseudonana	1.07	0.00	1.84	0.71	1.93	47.21
Cyclotella sp.	0.58	0.73	1.78	0.78	1.88	49.09
Coelosphaerium sp.	0.00	0.90	1.62	0.57	1.71	50.80
Nitzschia closterium	0.83	0.00	1.48	0.88	1.55	52.35
Eutreptiella sp.	0.00	0.80	1.44	0.83	1.51	53.86
Thalassiosira sp.	0.77	0.00	1.38	0.53	1.45	55.31
Unknown pennate diatom sp.	0.78	0.00	1.37	0.76	1.44	56.75
Nitzschia longissima	0.73	0.00	1.34	0.96	1.41	58.16
Schizothrix sp.	0.72	0.00	1.26	0.46	1.33	59.49
Eutreptia sp.	0.74	0.00	1.25	0.68	1.31	60.81
Nitzschia palea	0.00	0.70	1.22	0.81	1.28	62.09
Schroederia setigera	0.66	0.00	1.22	0.74	1.28	63.37
Prorocentrum minimum	0.72	0.00	1.19	0.60	1.25	64.62
Leptocylindricus minimum	0.70	0.00	1.16	0.62	1.22	65.84
Unknown flagellate sp. 1	0.00	0.56	1.05	0.59	1.10	66.94
Euglena sp.	0.39	0.21	1.02	0.40	1.07	68.02
Navicula sp.	0.04	0.48	1.00	0.65	1.06	69.07
Gymnodinium sp.	0.56	0.00	0.99	0.60	1.04	70.11
Cyclotella sp. (small)	0.48	0.00	0.92	0.36	0.97	71.08
Chroococcus minutus	0.00	0.56	0.88	0.43	0.92	72.00
Chaetoceros socialis	0.48	0.00	0.83	0.53	0.88	72.88
Ceratulina bergonii	0.42	0.00	0.83	0.38	0.87	73.74
Thalassiosira decipiens	0.43	0.00	0.73	0.54	0.77	74.52
Cyclotella undulata	0.00	0.37	0.73	0.29	0.77	75.29
Chaetoceros neogracile	0.37	0.00	0.65	0.51	0.69	75.98
Scenedesmus quadracauda	0.37	0.00	0.63	0.47	0.66	76.64
Nitzschia pungens	0.26	0.12	0.60	0.50	0.63	77.27
Scrippsiella sp.	0.33	0.00	0.58	0.47	0.61	77.88
Euglena acus	0.00	0.35	0.58	0.34	0.61	78.49
Gonyaulax polygramma	0.28	0.00	0.55	0.45	0.58	79.07
Scenedesmus abundans v. brevicauda	0.00	0.35	0.53	0.37	0.56	79.63
Peridinium sp.	0.31	0.00	0.52	0.46	0.55	80.18

Nitzschia fruticosa	0.00	0.30	0.52	0.35	0.55	80.72
Merismopedia glauca	0.00	0.32	0.50	0.36	0.53	81.25
Thalassionema nitzschoides	0.27	0.00	0.49	0.40	0.51	81.76
Stephanodiscus sp.	0.00	0.26	0.48	0.34	0.51	82.27
Scenedesmus bijinga	0.18	0.17	0.48	0.43	0.50	82.78
Rhizosolenia setigera	0.25	0.00	0.46	0.41	0.49	83.26
Cryptomonas curvata	0.00	0.24	0.42	0.40	0.44	83.71
Spirulina sp.1	0.00	0.24	0.39	0.34	0.41	84.12
Oocystis sp.	0.03	0.27	0.39	0.39	0.41	84.53
Akistrodesmus falcatus	0.23	0.00	0.38	0.37	0.40	84.93
Gymnodinium simplex	0.00	0.20	0.38	0.43	0.40	85.33
Lyngbya contorta (trichome)	0.00	0.25	0.36	0.32	0.38	85.72
Merismopedia punctata	0.22	0.00	0.36	0.28	0.38	86.10
Scenedesmus acuminatus	0.15	0.09	0.36	0.38	0.38	86.47
Phormidium fragile (trichome)	0.00	0.24	0.35	0.37	0.37	86.85
Nitzschia tryblionella	0.00	0.17	0.35	0.36	0.37	87.21
Paralia sulcata	0.00	0.20	0.34	0.35	0.36	87.58
Chlamydomonas sp.	0.00	0.25	0.34	0.37	0.36	87.94
Melosira granulata	0.00	0.18	0.29	0.35	0.31	88.24
Mallomonas acaroides	0.00	0.16	0.28	0.30	0.29	88.53
Merismopedia sp.	0.00	0.20	0.28	0.30	0.29	88.82
Nostoc sp.(trichomes)	0.14	0.00	0.26	0.31	0.27	89.09
Oscillatoria rubescens (trichome)	0.00	0.15	0.25	0.30	0.27	89.36
Nitzschia sp.	0.03	0.10	0.25	0.33	0.27	89.62
Prorocentrum micans	0.15	0.00	0.25	0.32	0.26	89.89
Leptocylindricus danicus	0.15	0.00	0.24	0.29	0.25	90.14

Groups 60%Grp6 & 60%Grp1

Average dissimilarity = 96.94

Species	Group 60%Grp6 Av.Abund	Group 60%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	3.49	6.29	1.33	6.49	6.49
Skeletonema costatum	5.07	1.15	6.14	1.51	6.33	12.82
Cryptomonas sp.1	0.00	3.26	5.59	2.07	5.76	18.58
Scenedesmus quadricauda v. Westii	0.00	2.19	3.65	1.16	3.76	22.34
Schizothrix sp.	2.14	0.00	3.14	0.68	3.24	25.58
Spermatozoopsis exultans	0.00	1.79	3.03	1.10	3.13	28.71
Gonyaulax palustre	0.00	1.82	3.03	1.31	3.12	31.83
Thalassionema nitzschoides	1.63	0.00	2.70	0.70	2.78	34.61
Cryptomonas erosa	0.00	1.46	2.33	1.05	2.40	37.02
Ceratulina bergonii	1.39	0.00	2.22	0.75	2.29	39.31

Leptocylindricus minimum	1.63	0.00	2.03	1.11	2.09	41.40
Chlymentomonas sp.	0.00	1.14	1.83	0.87	1.88	43.29
Chaetoceros socialis	1.47	0.00	1.75	0.82	1.80	45.09
Cryptomonas ovata	0.00	1.01	1.73	0.80	1.78	46.87
Nitzschia closterium	1.37	0.00	1.72	0.81	1.78	48.65
Chaetoceros neogracile	1.24	0.00	1.70	0.88	1.75	50.40
Unknown pennate diatom sp.	1.09	0.00	1.65	0.84	1.70	52.10
Nitzschia pungens	1.11	0.12	1.47	0.74	1.52	53.62
Coelosphaerium sp.	0.00	0.90	1.43	0.54	1.48	55.10
Prorocentrum micans	0.97	0.00	1.43	0.98	1.48	56.57
Rhizosolenia setigera	0.93	0.00	1.37	0.78	1.41	57.98
Thalassiosira sp.	0.93	0.00	1.31	0.64	1.35	59.34
Eutreptiella sp.	0.00	0.80	1.27	0.78	1.31	60.65
Nitzschia palea	0.00	0.70	1.08	0.77	1.11	61.76
Cyclotella sp.	0.00	0.73	1.07	0.62	1.10	62.86
Ceratium hircus	0.73	0.00	1.03	0.84	1.06	63.92
Asterionella glacialis	0.87	0.00	1.01	0.67	1.04	64.96
Chaetoceros compressum	0.87	0.00	1.01	0.66	1.04	66.00
Thalassiosira decipiens	0.64	0.00	0.98	0.60	1.01	67.02
Navicula sp.	0.15	0.48	0.94	0.66	0.97	67.98
Chaetoceros sp.	0.56	0.00	0.94	0.34	0.97	68.95
Unknown flagellate sp. 1	0.00	0.56	0.93	0.55	0.95	69.91
Prorocentrum minimum	0.72	0.00	0.88	0.94	0.91	70.81
Chaetoceros subtilis	0.59	0.16	0.81	0.53	0.84	71.65
Chroococcus minutus	0.00	0.56	0.78	0.42	0.80	72.45
Nitzschia longissima	0.64	0.00	0.77	0.86	0.79	73.25
Peridinium sp.	0.41	0.00	0.71	0.53	0.73	73.98
Melosira sp.	0.26	0.00	0.65	0.32	0.67	74.65
Cyclotella undulata	0.00	0.37	0.65	0.28	0.67	75.31
Leptocylindricus danicus	0.46	0.00	0.56	0.59	0.58	75.89
Amphora sp.	0.41	0.00	0.55	0.42	0.57	76.46
Euglena acus	0.00	0.35	0.51	0.33	0.53	76.99
Scenedesmus abundans v. brevicauda	0.00	0.35	0.47	0.36	0.49	77.48
Nitzschia fruticosa	0.00	0.30	0.46	0.33	0.47	77.95
Merismopedia glauca	0.00	0.32	0.44	0.35	0.46	78.41
Thalassiosira pseudonana	0.37	0.00	0.43	0.39	0.44	78.85
Stephanodiscus sp.	0.00	0.26	0.43	0.33	0.44	79.29
Chaetoceros curvisetus	0.43	0.00	0.41	0.33	0.42	79.72
Pleurosigma sp.	0.27	0.00	0.41	0.46	0.42	80.14
Gonyaulax polygramma	0.22	0.00	0.41	0.35	0.42	80.56
Thalassiosira oestrupii	0.30	0.00	0.39	0.50	0.40	80.96
Chaetoceros lorenzianum	0.32	0.00	0.39	0.43	0.40	81.36
Euglena sp.	0.00	0.21	0.38	0.20	0.39	81.74

Cryptomonas curvata	0.00	0.24	0.37	0.39	0.38	82.13
Gonyaulax monilata	0.19	0.00	0.35	0.35	0.36	82.49
Peridinium tuba	0.27	0.00	0.35	0.48	0.36	82.85
Spirulina sp.1	0.00	0.24	0.35	0.33	0.36	83.21
Gymnodinium simplex	0.00	0.20	0.33	0.41	0.34	83.55
Rhizosolenia delicatula	0.26	0.00	0.33	0.42	0.34	83.89
Lyngbya contorta (trichome)	0.00	0.25	0.33	0.31	0.34	84.23
Oocystis sp.	0.00	0.27	0.32	0.36	0.33	84.56
Gymnodinium sp.	0.25	0.00	0.32	0.50	0.33	84.90
Phormidium fragile (trichome)	0.00	0.24	0.32	0.36	0.33	85.22
Chlamydomonas sp.	0.00	0.25	0.31	0.36	0.32	85.54
Scrippsiella sp.	0.24	0.00	0.31	0.43	0.32	85.85
Nitzschia tryblionella	0.00	0.17	0.31	0.34	0.31	86.17
Paralia sulcata	0.00	0.20	0.30	0.34	0.31	86.48
Thalassiothrix frauenfeldianum	0.18	0.00	0.30	0.32	0.31	86.80
Scenedesmus bijinga	0.06	0.17	0.30	0.35	0.31	87.10
Gonyaulax digitalis	0.20	0.00	0.29	0.30	0.30	87.40
Rhizosolenia calcar-avis	0.22	0.00	0.29	0.41	0.30	87.70
Coscinosira polychorda	0.21	0.00	0.28	0.36	0.29	87.99
Melosira granulata	0.00	0.18	0.26	0.34	0.27	88.25
Eutreptia sp.	0.14	0.00	0.26	0.26	0.26	88.52
Nitzschia sp.	0.05	0.10	0.25	0.34	0.26	88.78
Merismopedia sp.	0.00	0.20	0.25	0.29	0.26	89.03
Hemiaulis hauckii	0.20	0.00	0.25	0.36	0.26	89.29
Mallomonas acaroides	0.00	0.16	0.25	0.29	0.25	89.54
Nostoc sp.(trichomes)	0.17	0.00	0.24	0.34	0.25	89.79
Coscinodiscus sp.	0.10	0.00	0.24	0.26	0.25	90.04

Groups 60%Grp3 & 60%Grp2

Average dissimilarity = 98.73

Species	Group 60%Grp3 Av.Abund	Group 60%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	8.76	1.61	8.87	8.87
Skeletonema costatum	0.16	3.66	6.62	1.69	6.71	15.58
Unknown diatom sp.	3.09	0.00	5.56	2.37	5.63	21.21
Cryptomonas sp.1	0.00	2.86	5.24	2.12	5.31	26.52
Synechocystis aquaticus Sauvageau	0.00	2.84	5.18	1.50	5.25	31.77
Unknown diatom sp. D	2.34	0.00	4.09	1.58	4.15	35.92
Thalassiosira sp.	2.01	0.00	3.58	1.92	3.63	39.54
Prorocentrum micans	1.61	0.25	3.33	0.60	3.37	42.92
Unknown Dinoflagellate sp.	1.73	0.00	3.19	0.96	3.23	46.14

Scenedesmus sp.	1.47	0.00	2.46	1.15	2.50	48.64
Navicula sp. small	1.23	0.00	2.24	0.85	2.27	50.91
Chlymentomonas sp.	0.00	0.92	1.66	0.81	1.68	52.59
Eutreptiella sp.	0.35	0.75	1.58	0.83	1.61	54.20
Peridinium cerasus	0.00	0.89	1.58	0.67	1.60	55.80
Coscinodiscus sp.	0.83	0.00	1.55	0.57	1.57	57.37
Unknown bluegreen sp.	0.83	0.00	1.49	0.90	1.51	58.88
Nitzschia pungens	0.80	0.11	1.43	0.82	1.45	60.33
Pyramimonas sp.	0.84	0.00	1.42	0.83	1.44	61.77
Gymnodinium simplex	0.00	0.75	1.37	0.72	1.39	63.15
Tetraedron sp.	0.82	0.00	1.30	0.75	1.31	64.47
Gymnodinium splendens	0.00	0.71	1.29	0.49	1.31	65.78
Navicula sp. large	0.66	0.00	1.29	0.65	1.31	67.09
Akistrodesmus sp.	0.76	0.00	1.21	0.57	1.23	68.31
Chroococcus minutus	0.00	0.62	1.11	0.41	1.13	69.44
Leptocylindricus minimum	0.61	0.00	1.09	0.65	1.10	70.54
Spermatozoopsis exultans	0.00	0.63	1.07	0.68	1.08	71.63
Ceratium hircus	0.00	0.57	1.06	0.50	1.07	72.70
Cryptomonas ovata	0.00	0.59	1.05	0.62	1.06	73.76
Nitzschia sp.	0.38	0.13	0.93	0.45	0.94	74.70
Gonyaulax palustre	0.00	0.53	0.93	0.61	0.94	75.65
Thalassionema nitzschoides	0.35	0.16	0.81	0.51	0.82	76.46
Prorocentrum sp.	0.45	0.00	0.80	0.38	0.81	77.27
Unknown flagellate sp. 1	0.00	0.45	0.78	0.56	0.79	78.06
Calycomonas ovalis	0.00	0.44	0.77	0.45	0.78	78.84
Cyclotella sp.	0.00	0.42	0.73	0.49	0.74	79.58
Schizothrix calcicola	0.48	0.00	0.70	0.58	0.71	80.29
Eutreptia sp.	0.37	0.00	0.70	0.35	0.71	81.00
Prorocentrum redfieldi	0.40	0.00	0.63	0.36	0.64	81.64
Cryptomonas erosa	0.00	0.37	0.61	0.51	0.62	82.26
Rhizosolenia setigera	0.00	0.35	0.61	0.41	0.62	82.88
Chaetoceros subtilis	0.00	0.34	0.60	0.44	0.61	83.49
Leptocylindricus danicus	0.27	0.00	0.58	0.39	0.59	84.08
Tricodesmium sp.	0.38	0.00	0.58	0.38	0.59	84.67
Aphanocapsa sp.	0.36	0.00	0.54	0.39	0.54	85.21
Biddulphia sinensis	0.00	0.29	0.50	0.39	0.50	85.71
Scenedesmus quadricauda v. Westii	0.00	0.30	0.48	0.42	0.49	86.20
Chroococcus sp.	0.32	0.00	0.47	0.38	0.47	86.68
Oscillatoria sp.	0.32	0.00	0.47	0.39	0.47	87.15
Chaetoceros compressum	0.00	0.26	0.44	0.32	0.45	87.60
Chaetoceros decipiens	0.00	0.23	0.42	0.34	0.42	88.02
Nitzschia closterium	0.20	0.05	0.36	0.33	0.37	88.38
Unknown diatom sp. A	0.20	0.00	0.36	0.27	0.37	88.75

Merismopedia sp.	0.18	0.08	0.36	0.31	0.36	89.11
Actinastrum sp.	0.18	0.00	0.35	0.37	0.36	89.47
Unknown diatom sp. 17	0.20	0.00	0.34	0.39	0.34	89.82
Crucigenia sp.	0.21	0.00	0.32	0.38	0.32	90.14

Groups 60%Grp4 & 60%Grp2

Average dissimilarity = 93.32

Species	Group 60%Grp4 Av.Abund	Group 60%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.61	0.00	8.41	1.66	9.01	9.01
Unknown Cryptophyte sp.	5.92	0.00	8.08	2.20	8.66	17.67
Skeletonema costatum	4.80	3.66	5.27	1.36	5.64	23.31
Thalassiosira sp.	3.75	0.00	4.72	1.28	5.06	28.37
Unknown diatom sp.	3.46	0.00	4.40	1.82	4.72	33.09
Unknown Dinoflagellate sp.	2.96	0.00	3.92	1.17	4.20	37.29
Cryptomonas sp.1	0.00	2.86	3.91	1.99	4.19	41.48
Synechocystis aquaticus Sauvageau	0.00	2.84	3.87	1.44	4.15	45.63
Nitzschia closterium	1.99	0.05	2.46	1.02	2.63	48.26
Pyramimonas sp.	1.61	0.00	2.01	0.90	2.15	50.41
Chaetoceros sp.	1.70	0.00	1.94	0.77	2.08	52.49
Peridinium sp.	1.54	0.00	1.83	0.68	1.96	54.46
Nitzschia pungens	1.45	0.11	1.82	0.79	1.95	56.41
Skeletonema menezelli	1.61	0.00	1.72	0.36	1.84	58.25
Prorocentrum minimum	1.07	0.00	1.62	0.28	1.74	59.98
Eutreptiella sp.	0.48	0.75	1.44	0.62	1.54	61.53
Chlymentomonas sp.	0.00	0.92	1.25	0.80	1.34	62.86
Ceratium hircus	0.55	0.57	1.24	0.64	1.33	64.19
Peridinium cerasus	0.00	0.89	1.19	0.67	1.28	65.46
Eutreptia sp.	0.79	0.00	1.14	0.39	1.22	66.68
Leptocylindricus minimum	1.00	0.00	1.12	0.62	1.20	67.88
Gymnodinium simplex	0.00	0.75	1.02	0.70	1.09	68.98
Rhizosolenia setigera	0.62	0.35	0.98	0.67	1.05	70.03
Gymnodinium splendens	0.00	0.71	0.96	0.49	1.03	71.06
Prorocentrum sp.	0.73	0.00	0.92	0.35	0.99	72.05
Chroococcus minutus	0.00	0.62	0.84	0.40	0.90	72.94
Spermatozoopsis exultans	0.00	0.63	0.81	0.67	0.87	73.81
Cryptomonas ovata	0.00	0.59	0.79	0.61	0.84	74.66
Leptocylindricus danicus	0.68	0.00	0.78	0.41	0.84	75.50
Navicula sp. large	0.58	0.00	0.73	0.51	0.78	76.27
Prorocentrum micans	0.32	0.25	0.70	0.40	0.76	77.03
Gonyaulax palustre	0.00	0.53	0.70	0.60	0.75	77.78

Chaetoceros muelleri	0.59	0.00	0.70	0.42	0.75	78.53
Minutocellus sp.	0.61	0.00	0.68	0.45	0.73	79.25
Chaetoceros subtilis	0.19	0.34	0.64	0.42	0.69	79.94
Unknown diatom sp. A	0.53	0.00	0.62	0.35	0.66	80.60
Scenedesmus sp.	0.47	0.00	0.61	0.38	0.65	81.25
Unknown Katodinium sp.	0.38	0.00	0.61	0.25	0.65	81.90
Apedinella radians	0.47	0.00	0.60	0.42	0.64	82.55
Thalassionema nitzschoides	0.41	0.16	0.60	0.42	0.64	83.19
Unknown flagellate sp. 1	0.00	0.45	0.59	0.55	0.63	83.81
Calycomonas ovalis	0.00	0.44	0.58	0.44	0.62	84.44
Cyclotella sp.	0.00	0.42	0.55	0.48	0.59	85.03
Chaetoceros gracile	0.45	0.00	0.54	0.25	0.58	85.61
Cryptomonas erosa	0.00	0.37	0.47	0.51	0.50	86.11
Unknown bluegreen sp.	0.33	0.00	0.42	0.33	0.45	86.56
Asterionella japonica	0.39	0.00	0.41	0.33	0.44	87.00
Glenodinium sp.	0.32	0.00	0.41	0.24	0.44	87.43
Aphanocapsa sp.	0.37	0.00	0.38	0.34	0.41	87.84
Unknown Vegetative cell sp.	0.24	0.00	0.38	0.24	0.41	88.25
Pyrophacus sp.	0.30	0.00	0.38	0.26	0.41	88.66
Navicula sp. small	0.29	0.00	0.38	0.31	0.41	89.07
Biddulphia sinensis	0.00	0.29	0.38	0.38	0.40	89.47
Scenedesmus quadricauda v. Westii	0.00	0.30	0.37	0.41	0.39	89.87
Akistrodesmus sp.	0.31	0.00	0.36	0.29	0.39	90.26

Groups 60%Grp5 & 60%Grp2

Average dissimilarity = 92.65

Species	Group 60%Grp5 Av.Abund	Group 60%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	3.66	6.69	1.26	7.23	7.23
Cryptomonas sp.1	0.00	2.86	6.00	1.85	6.48	13.71
Synechocystis aquaticus Sauvageau	0.00	2.84	5.92	1.40	6.39	20.10
Unknown pennate diatom sp.	2.07	0.00	4.24	1.64	4.57	24.67
Cyclotella sp.	1.76	0.42	3.53	0.86	3.81	28.48
Cyclotella sp. (small)	1.79	0.00	3.46	0.71	3.73	32.21
Cyclotella sp. (large)	1.45	0.00	2.66	0.60	2.88	35.09
Scenedesmus quadricauda	1.15	0.00	2.13	1.08	2.30	37.39
Gymnodinium sp.	1.01	0.00	2.08	0.99	2.24	39.63
Chlymentomonas sp.	0.00	0.92	1.90	0.78	2.05	41.68
Schroederia setigera	1.04	0.00	1.89	1.04	2.04	43.72
Thalassiosira pseudonana	1.05	0.00	1.84	0.57	1.98	45.70
Eutreptia sp.	0.88	0.00	1.83	0.96	1.97	47.67

Peridinium cerasus	0.00	0.89	1.80	0.65	1.94	49.61
Scenedesmus bijinga	0.90	0.00	1.64	0.83	1.77	51.38
Gymnodinium simplex	0.00	0.75	1.57	0.69	1.69	53.08
Gymnodinium splendens	0.00	0.71	1.48	0.46	1.60	54.68
Eutreptiella sp.	0.00	0.75	1.48	0.71	1.60	56.27
Thalassiosira decipiens	0.91	0.00	1.45	0.50	1.57	57.84
Nitzschia longissima	0.78	0.00	1.43	0.93	1.55	59.39
Chroococcus minutus	0.00	0.62	1.27	0.39	1.37	60.76
Chaetoceros subtilis	0.44	0.34	1.27	0.64	1.37	62.13
Ceratium hircus	0.00	0.57	1.21	0.49	1.31	63.44
Spermatozoopsis exultans	0.00	0.63	1.21	0.66	1.30	64.74
Cryptomonas ovata	0.00	0.59	1.19	0.60	1.29	66.03
Akistrodesmus falcatus	0.64	0.00	1.16	0.67	1.25	67.28
Gonyaulax palustre	0.00	0.53	1.05	0.59	1.13	68.41
Amphiprora sp.	0.49	0.00	0.93	0.62	1.01	69.42
Actinastrum hantzschii	0.49	0.00	0.89	0.50	0.96	70.39
Bluegreen filamentous sp.	0.41	0.00	0.88	0.60	0.95	71.34
Unknown flagellate sp. 1	0.00	0.45	0.88	0.55	0.95	72.30
Calycomonas ovalis	0.00	0.44	0.88	0.44	0.95	73.24
Melosira sp.	0.36	0.00	0.70	0.51	0.76	74.00
Rhizosolenia setigera	0.00	0.35	0.69	0.40	0.75	74.75
Cryptomonas erosa	0.00	0.37	0.69	0.50	0.74	75.49
Cyclotella meneghiniana	0.40	0.00	0.66	0.28	0.71	76.21
Scenedesmus acutus	0.34	0.00	0.63	0.40	0.69	76.89
Crucigenia sp.	0.22	0.00	0.63	0.51	0.68	77.57
Dictyosphaerium sp.	0.46	0.00	0.62	0.39	0.67	78.24
Merismopedia punctata	0.29	0.00	0.58	0.37	0.62	78.86
Biddulphia sinensis	0.00	0.29	0.56	0.38	0.61	79.47
Pleurosigma sp.	0.24	0.00	0.56	0.50	0.60	80.07
Nitzschia sp.	0.09	0.13	0.56	0.36	0.60	80.68
Scenedesmus quadricauda v. Westii	0.00	0.30	0.54	0.41	0.58	81.26
Melosira nummuloidea	0.25	0.00	0.52	0.40	0.56	81.81
Chaetoceros compressum	0.00	0.26	0.50	0.32	0.54	82.36
Prorocentrum micans	0.00	0.25	0.50	0.39	0.54	82.90
Chaetoceros decipiens	0.00	0.23	0.47	0.33	0.51	83.41
Scenedesmus abundans	0.29	0.00	0.44	0.39	0.48	83.88
Kirchneriella sp.	0.11	0.09	0.43	0.34	0.46	84.35
Scenedesmus sp.	0.26	0.00	0.43	0.40	0.46	84.81
Micractinium pusillum	0.30	0.00	0.41	0.38	0.44	85.25
Scenedesmus acuminatus	0.26	0.00	0.40	0.41	0.43	85.68
Prorocentrum minimum	0.16	0.00	0.37	0.39	0.40	86.08
Tetrastrum sp.	0.24	0.00	0.36	0.40	0.39	86.47
Coscinodiscus eccentricus	0.00	0.18	0.34	0.36	0.37	86.84

Nitzschia palea	0.00	0.18	0.33	0.33	0.36	87.20
Thalassionema nitzschoides	0.00	0.16	0.33	0.22	0.35	87.56
Amphidinium crassum	0.00	0.18	0.33	0.31	0.35	87.91
Cyclotella undulata	0.00	0.16	0.31	0.27	0.34	88.25
Coelosphaerium sp.	0.00	0.18	0.31	0.26	0.34	88.58
Tropodineis lepidoptera	0.19	0.00	0.31	0.28	0.33	88.92
Nitzschia closterium	0.08	0.05	0.30	0.34	0.32	89.24
Unknown chlorophyte sp.	0.18	0.00	0.29	0.28	0.32	89.56
Unkown C sp.	0.22	0.00	0.28	0.28	0.31	89.86
Rhizosolenia stolterfothii	0.00	0.14	0.28	0.20	0.30	90.16

Groups 60%Grp7 & 60%Grp2

Average dissimilarity = 85.70

Species	Group 60%Grp7 Av.Abund	Group 60%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Cryptomonas sp.1	0.00	2.86	6.18	1.96	7.21	7.21
Synechocystis aquaticus Sauvageau	0.00	2.84	6.09	1.45	7.11	14.32
Skeletonema costatum	4.59	3.66	4.91	1.10	5.72	20.05
Chaetoceros subtilis	1.61	0.34	3.52	0.95	4.11	24.16
Peridinium aciculiferum	0.94	0.00	2.11	0.77	2.46	26.62
Thalassiosira pseudonana	1.07	0.00	2.03	0.71	2.37	28.98
Chlymentomonas sp.	0.00	0.92	1.95	0.79	2.28	31.26
Peridinium cerasus	0.00	0.89	1.85	0.66	2.16	33.42
Nitzschia closterium	0.83	0.05	1.64	0.90	1.92	35.34
Cyclotella sp.	0.58	0.42	1.64	0.66	1.91	37.25
Gymnodinium simplex	0.00	0.75	1.61	0.71	1.88	39.13
Thalassiosira sp.	0.77	0.00	1.53	0.53	1.79	40.92
Gymnodinium splendens	0.00	0.71	1.53	0.47	1.78	42.70
Eutreptiella sp.	0.00	0.75	1.52	0.72	1.77	44.47
Unknown pennate diatom sp.	0.78	0.00	1.51	0.76	1.77	46.24
Nitzschia longissima	0.73	0.00	1.49	0.96	1.74	47.98
Schizothrix sp.	0.72	0.00	1.40	0.46	1.63	49.61
Eutreptia sp.	0.74	0.00	1.38	0.68	1.61	51.22
Schroederia setigera	0.66	0.00	1.36	0.74	1.58	52.80
Ceratium hircus	0.11	0.57	1.35	0.54	1.58	54.38
Prorocentrum minimum	0.72	0.00	1.31	0.61	1.53	55.90
Chroococcus minutus	0.00	0.62	1.31	0.40	1.53	57.43
Leptocylindricus minimum	0.70	0.00	1.28	0.62	1.49	58.92
Spermatozoopsis exultans	0.00	0.63	1.24	0.67	1.45	60.37
Cryptomonas ovata	0.00	0.59	1.23	0.61	1.43	61.80
Gymnodinium sp.	0.56	0.00	1.10	0.61	1.28	63.08

Gonyaulax palustre	0.00	0.53	1.08	0.60	1.26	64.34
Rhizosolenia setigera	0.25	0.35	1.07	0.56	1.25	65.59
Cyclotella sp. (small)	0.48	0.00	1.02	0.36	1.19	66.79
Ceratulina bergonii	0.42	0.00	0.93	0.38	1.08	67.87
Chaetoceros socialis	0.48	0.00	0.92	0.53	1.07	68.94
Unknown flagellate sp. 1	0.00	0.45	0.91	0.55	1.06	70.01
Calycomonas ovalis	0.00	0.44	0.90	0.44	1.05	71.06
Thalassionema nitzschoides	0.27	0.16	0.82	0.44	0.96	72.02
Thalassiosira decipiens	0.43	0.00	0.81	0.54	0.95	72.97
Chaetoceros neogracile	0.37	0.00	0.72	0.51	0.85	73.81
Prorocentrum micans	0.15	0.25	0.72	0.51	0.84	74.65
Euglena sp.	0.39	0.00	0.71	0.38	0.83	75.48
Cryptomonas erosa	0.00	0.37	0.71	0.51	0.83	76.30
Scenedesmus quadracauda	0.37	0.00	0.69	0.47	0.81	77.11
Nitzschia pungens	0.26	0.11	0.69	0.47	0.80	77.91
Scrippsiella sp.	0.33	0.00	0.65	0.47	0.75	78.67
Chaetoceros compressum	0.07	0.26	0.65	0.37	0.75	79.42
Gonyaulax polygramma	0.28	0.00	0.62	0.45	0.72	80.14
Biddulphia sinensis	0.00	0.29	0.58	0.39	0.68	80.82
Peridinium sp.	0.31	0.00	0.58	0.46	0.67	81.49
Scenedesmus quadricauda v. Westii	0.00	0.30	0.55	0.41	0.65	82.14
Chaetoceros decipiens	0.02	0.23	0.52	0.35	0.61	82.75
Akistrodesmus falcatus	0.23	0.00	0.42	0.37	0.49	83.24
Merismopedia punctata	0.22	0.00	0.40	0.28	0.47	83.71
Nitzschia sp.	0.03	0.13	0.36	0.27	0.42	84.13
Coscinodiscus eccentricus	0.00	0.18	0.35	0.37	0.41	84.54
Nitzschia palea	0.00	0.18	0.34	0.34	0.40	84.94
Amphidinium crassum	0.00	0.18	0.34	0.31	0.39	85.33
Asterionella glacialis	0.08	0.09	0.33	0.27	0.39	85.72
Scenedesmus bijinga	0.18	0.00	0.33	0.31	0.39	86.11
Navicula sp.	0.04	0.13	0.33	0.36	0.38	86.49
Cyclotella undulata	0.00	0.16	0.32	0.28	0.38	86.87
Coelosphaerium sp.	0.00	0.18	0.32	0.27	0.37	87.24
Rhizosolenia stolterfothii	0.00	0.14	0.28	0.21	0.33	87.58
Nostoc sp.(trichomes)	0.14	0.00	0.28	0.31	0.33	87.91
Actinopterychus undulatus	0.00	0.12	0.27	0.23	0.32	88.23
Scenedesmus acuminatus	0.15	0.00	0.27	0.31	0.32	88.54
Rhizosolenia calcar-avis	0.01	0.13	0.27	0.27	0.31	88.86
Crucigenia fenestrata	0.02	0.11	0.27	0.22	0.31	89.17
Leptocylindricus danicus	0.15	0.00	0.26	0.29	0.31	89.48
Rhizosolenia styliformis	0.00	0.14	0.26	0.25	0.30	89.78
Pyramimonas sp.	0.15	0.00	0.25	0.24	0.29	90.08

Groups 60%Grp6 & 60%Grp2

Average dissimilarity = 89.36

Species	Group 60%Grp6 Av.Abund	Group 60%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.07	3.66	6.13	1.23	6.86	6.86
Cryptomonas sp.1	0.00	2.86	5.42	1.58	6.06	12.92
Synechocystis aquaticus Sauvageau	0.00	2.84	5.34	1.26	5.98	18.90
Schizothrix sp.	2.14	0.00	3.43	0.68	3.84	22.74
Thalassionema nitzschoides	1.63	0.16	3.05	0.72	3.41	26.15
Ceratulina bergonii	1.39	0.00	2.47	0.73	2.76	28.91
Leptocylindricus minimum	1.63	0.00	2.19	1.12	2.45	31.35
Chaetoceros socialis	1.47	0.00	1.88	0.82	2.10	33.45
Nitzschia closterium	1.37	0.05	1.88	0.84	2.10	35.55
Chaetoceros neogracile	1.24	0.00	1.84	0.88	2.06	37.61
Unknown pennate diatom sp.	1.09	0.00	1.82	0.83	2.04	39.65
Rhizosolenia setigera	0.93	0.35	1.72	0.82	1.93	41.58
Chlymentomonas sp.	0.00	0.92	1.71	0.73	1.92	43.50
Ceratium hircus	0.73	0.57	1.67	0.76	1.86	45.36
Prorocentrum micans	0.97	0.25	1.63	0.99	1.83	47.19
Peridinium cerasus	0.00	0.89	1.62	0.61	1.82	49.01
Nitzschia pungens	1.11	0.11	1.61	0.74	1.80	50.81
Thalassiosira sp.	0.93	0.00	1.43	0.64	1.60	52.42
Gymnodinium simplex	0.00	0.75	1.41	0.66	1.58	54.00
Chaetoceros compressum	0.87	0.26	1.36	0.70	1.52	55.52
Gymnodinium splendens	0.00	0.71	1.34	0.44	1.50	57.01
Eutreptiella sp.	0.00	0.75	1.34	0.67	1.49	58.51
Asterionella glacialis	0.87	0.09	1.19	0.69	1.33	59.84
Chroococcus minutus	0.00	0.62	1.15	0.38	1.28	61.12
Chaetoceros subtilis	0.59	0.34	1.11	0.64	1.24	62.36
Spermatozoopsis exultans	0.00	0.63	1.09	0.63	1.22	63.58
Thalassiosira decipiens	0.64	0.00	1.09	0.58	1.22	64.80
Cryptomonas ovata	0.00	0.59	1.08	0.57	1.20	66.01
Chaetoceros sp.	0.56	0.00	1.04	0.33	1.16	67.17
Gonyaulax palustre	0.00	0.53	0.95	0.57	1.06	68.24
Prorocentrum minimum	0.72	0.00	0.94	0.94	1.06	69.29
Nitzschia longissima	0.64	0.00	0.83	0.86	0.92	70.22
Unknown flagellate sp. 1	0.00	0.45	0.80	0.52	0.89	71.11
Calycomonas ovalis	0.00	0.44	0.79	0.42	0.89	72.00
Peridinium sp.	0.41	0.00	0.79	0.52	0.88	72.88
Melosira sp.	0.26	0.00	0.75	0.32	0.84	73.72
Cyclotella sp.	0.00	0.42	0.75	0.46	0.84	74.56

Cryptomonas erosa	0.00	0.37	0.62	0.48	0.70	75.26
Leptocylindricus danicus	0.46	0.00	0.60	0.58	0.68	75.93
Amphora sp.	0.41	0.00	0.60	0.42	0.67	76.61
Biddulphia sinensis	0.00	0.29	0.51	0.37	0.57	77.18
Scenedesmus quadricauda v. Westii	0.00	0.30	0.49	0.39	0.55	77.72
Rhizosolenia calcar-avis	0.22	0.13	0.49	0.45	0.54	78.27
Thalassiosira pseudonana	0.37	0.00	0.46	0.39	0.52	78.78
Gonyaulax polygramma	0.22	0.00	0.45	0.35	0.51	79.29
Navicula sp.	0.15	0.13	0.45	0.46	0.50	79.79
Pleurosigma sp.	0.27	0.00	0.45	0.46	0.50	80.29
Chaetoceros curvisetus	0.43	0.00	0.43	0.33	0.48	80.78
Chaetoceros decipiens	0.00	0.23	0.43	0.32	0.48	81.26
Thalassiosira oestrupii	0.30	0.00	0.42	0.50	0.47	81.72
Chaetoceros lorenzianum	0.32	0.00	0.42	0.43	0.46	82.19
Gonyaulax monilata	0.19	0.00	0.39	0.35	0.44	82.63
Rhizosolenia stolterfothii	0.10	0.14	0.38	0.29	0.42	83.05
Peridinium tuba	0.27	0.00	0.38	0.48	0.42	83.48
Rhizosolenia delicatula	0.26	0.00	0.36	0.42	0.40	83.88
Nitzschia sp.	0.05	0.13	0.35	0.28	0.39	84.27
Gymnodinium sp.	0.25	0.00	0.35	0.50	0.39	84.66
Thalassiothrix frauenfeldianum	0.18	0.00	0.33	0.32	0.37	85.03
Scrippsiella sp.	0.24	0.00	0.33	0.43	0.37	85.40
Hemiaulis hauckii	0.20	0.04	0.32	0.40	0.36	85.76
Gonyaulax digitalis	0.20	0.00	0.32	0.30	0.35	86.11
Coscinodiscus eccentricus	0.00	0.18	0.31	0.35	0.35	86.46
Coscinosira polychorda	0.21	0.00	0.31	0.36	0.34	86.80
Nitzschia palea	0.00	0.18	0.30	0.32	0.34	87.14
Amphidinium crassum	0.00	0.18	0.30	0.30	0.33	87.47
Eutreptia sp.	0.14	0.00	0.29	0.26	0.32	87.79
Cyclotella undulata	0.00	0.16	0.28	0.26	0.32	88.11
Coelosphaerium sp.	0.00	0.18	0.28	0.25	0.32	88.43
Coscinodiscus sp.	0.10	0.00	0.27	0.25	0.31	88.73
Nostoc sp.(trichomes)	0.17	0.00	0.27	0.34	0.30	89.03
Dinophysis caudata	0.11	0.07	0.26	0.36	0.30	89.33
Amphiprora sp.	0.21	0.00	0.25	0.44	0.28	89.61
Actinopterychus undulatus	0.00	0.12	0.24	0.22	0.27	89.88
Bacillaria paradoxa	0.09	0.08	0.23	0.26	0.26	90.14

Groups 60%Grp1 & 60%Grp2

Average dissimilarity = 67.68

Group 60%Grp1 Group 60%Grp2

Species	Av. Abund	Av. Abund	Av. Diss	Diss/SD	Contrib%	Cum. %
Skeletonema costatum	1.15	3.66	5.68	1.46	8.40	8.40
Synechocystis aquaticus Sauvageau	3.49	2.84	4.10	1.14	6.06	14.46
Scenedesmus quadricauda v. Westii	2.19	0.30	3.94	1.28	5.82	20.28
Gonyaulax palustre	1.82	0.53	3.04	1.37	4.50	24.77
Spermatozoopsis exultans	1.79	0.63	3.02	1.17	4.47	29.24
Cryptomonas erosa	1.46	0.37	2.56	1.19	3.78	33.02
Chlymentomonas sp.	1.14	0.92	2.30	1.08	3.40	36.42
Cryptomonas sp.1	3.26	2.86	2.30	1.24	3.39	39.81
Cryptomonas ovata	1.01	0.59	2.11	1.00	3.12	42.93
Eutreptiella sp.	0.80	0.75	1.85	1.00	2.74	45.67
Chroococcus minutus	0.56	0.62	1.80	0.58	2.67	48.34
Coelosphaerium sp.	0.90	0.18	1.77	0.63	2.62	50.95
Peridinium cerasus	0.00	0.89	1.67	0.67	2.46	53.42
Cyclotella sp.	0.73	0.42	1.58	0.81	2.33	55.75
Gymnodinium simplex	0.20	0.75	1.53	0.81	2.26	58.02
Unknown flagellate sp. 1	0.56	0.45	1.46	0.81	2.15	60.17
Gymnodinium splendens	0.12	0.71	1.45	0.52	2.14	62.30
Nitzschia palea	0.70	0.18	1.32	0.88	1.94	64.25
Ceratium hircus	0.00	0.57	1.12	0.50	1.65	65.90
Navicula sp.	0.48	0.13	1.07	0.71	1.58	67.48
Cyclotella undulata	0.37	0.16	0.98	0.38	1.45	68.93
Chaetoceros subtilis	0.16	0.34	0.86	0.48	1.27	70.20
Calycomonas ovalis	0.05	0.44	0.86	0.47	1.27	71.47
Rhizosolenia setigera	0.00	0.35	0.64	0.41	0.95	72.42
Euglena acus	0.35	0.04	0.63	0.37	0.94	73.36
Merismopedia glauca	0.32	0.03	0.56	0.38	0.82	74.18
Nitzschia fruticosa	0.30	0.02	0.54	0.37	0.80	74.98
Scenedesmus abundans v. brevicauda	0.35	0.00	0.53	0.37	0.79	75.77
Biddulphia sinensis	0.00	0.29	0.52	0.39	0.78	76.54
Stephanodiscus sp.	0.26	0.00	0.49	0.35	0.72	77.26
Chaetoceros compressum	0.00	0.26	0.47	0.32	0.69	77.95
Prorocentrum micans	0.00	0.25	0.47	0.40	0.69	78.64
Nitzschia tryblionella	0.17	0.08	0.47	0.44	0.69	79.33
Coscinodiscus eccentricus	0.08	0.18	0.46	0.42	0.69	80.02
Cryptomonas curvata	0.24	0.04	0.46	0.44	0.68	80.70
Oscillatoria rubescens (trichome)	0.15	0.14	0.45	0.40	0.66	81.36
Nitzschia sp.	0.10	0.13	0.45	0.36	0.66	82.02
Oocystis sp.	0.27	0.05	0.44	0.41	0.65	82.67
Chaetoceros decipiens	0.00	0.23	0.44	0.34	0.65	83.31
Euglena sp.	0.21	0.00	0.43	0.21	0.63	83.95
Spirulina sp.1	0.24	0.02	0.42	0.36	0.62	84.57
Paralia sulcata	0.20	0.05	0.41	0.41	0.61	85.18

Merismopedia sp.	0.20	0.08	0.40	0.34	0.60	85.78
Amphidinium crassum	0.08	0.18	0.39	0.37	0.58	86.36
Actinoptychus undulatus	0.07	0.12	0.38	0.31	0.56	86.92
Lyngbya contorta (trichome)	0.25	0.00	0.37	0.32	0.54	87.46
Nitzschia pungens	0.12	0.11	0.36	0.37	0.53	87.99
Phormidium fragile (trichome)	0.24	0.00	0.36	0.37	0.53	88.52
Chlamydomonas sp.	0.25	0.00	0.35	0.37	0.51	89.03
Melosira granulata	0.18	0.03	0.34	0.38	0.50	89.53
Bacillaria paradoxa	0.09	0.08	0.32	0.29	0.47	90.01

Appendix J. SIMPER test results for the combined river species averaged by the 70% grouping level.

SIMPER

Similarity Percentages - species contributions

Worksheet

File: F:\3 Rivers\Combined Files\combspeciesOKwithchemBIOENVtransformed.pri

Sample selection: All

Variable selection: All

Parameters

Standardise data: No

Transform: None

Cut off for low contributions: 90.00%

Factor name: Sim70%GroupB

Factor groups

70%Grp3 ALA0

70%Grp6 ALA6-12-18

70%Grp5 ALASFB-TB

70%Grp4 ALASFC

70%Grp7 LMR0

70%Grp9 LMR12-18

70%Grp10 LMR6

70%Grp11 LMRRUSK

70%Grp8 LMRTB

70%Grp1 PR1

70%Grp2 PR2-3-4

Group 70%Grp3

Average similarity: 38.31

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	9.85	1.91	25.72	25.72
Unknown diatom sp.	3.09	7.36	2.09	19.21	44.92
Unknown diatom sp. D	2.34	4.39	1.18	11.46	56.38
Thalassiosira sp.	2.01	4.32	1.49	11.27	67.65
Unknown Dinoflagellate sp.	1.73	2.40	0.75	6.27	73.92

Scenedesmus sp.	1.47	1.96	0.69	5.12	79.04
Navicula sp. small	1.23	1.28	0.48	3.34	82.38
Prorocentrum micans	1.61	1.00	0.27	2.62	85.00
Unknown bluegreen sp.	0.83	0.95	0.49	2.48	87.47
Pyramimonas sp.	0.84	0.82	0.48	2.13	89.60
Nitzschia pungens	0.80	0.67	0.40	1.74	91.34

Group 70%Grp6

Average similarity: 37.91

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	6.29	10.04	2.82	26.49	26.49
Unknown diatom sp. D	6.79	8.20	1.42	21.63	48.12
Unknown diatom sp.	3.30	4.17	1.16	11.00	59.11
Unknown Dinoflagellate sp.	3.01	3.56	0.92	9.40	68.51
Thalassiosira sp.	3.51	3.52	0.95	9.27	77.79
Skeletonema costatum	3.34	2.31	0.55	6.08	83.87
Pyramimonas sp.	1.63	1.17	0.53	3.08	86.95
Peridinium sp.	1.80	1.00	0.42	2.63	89.58
Nitzschia closterium	0.92	0.47	0.32	1.24	90.83

Group 70%Grp5

Average similarity: 48.79

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	7.46	8.77	1.27	17.97	17.97
Unknown Cryptophyte sp.	5.10	8.12	2.97	16.63	34.61
Unknown diatom sp. D	6.13	7.02	2.13	14.38	48.99
Thalassiosira sp.	4.15	5.02	1.98	10.28	59.27
Nitzschia closterium	3.83	4.73	1.94	9.70	68.97
Unknown diatom sp.	3.67	4.53	1.68	9.28	78.25
Nitzschia pungens	2.56	2.27	0.78	4.66	82.91
Unknown Dinoflagellate sp.	2.35	2.06	0.87	4.23	87.14
Chaetoceros sp.	2.39	1.80	0.71	3.68	90.82

Group 70%Grp4

Average similarity: 53.05

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	7.43	9.07	#####	17.11	17.11

Unknown Dinoflagellate sp.	9.23	8.34	#####	15.73	32.83
Skeletonema costatum	5.96	7.54	#####	14.21	47.04
Unknown diatom sp. D	8.36	6.34	#####	11.95	58.99
Thalassiosira sp.	4.72	6.34	#####	11.95	70.94
Nitzschia closterium	4.12	5.33	#####	10.05	80.99
Unknown diatom sp.	4.70	5.04	#####	9.50	90.50

Group 70%Grp7

Average similarity: 24.66

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Unknown pennate diatom sp.	2.07	5.70	1.16	23.13	23.13
Skeletonema costatum	3.27	3.50	0.73	14.18	37.30
Scenedesmus quadricauda	1.15	1.70	0.64	6.90	44.20
Gymnodinium sp.	1.01	1.67	0.62	6.79	50.99
Cyclotella sp.	1.76	1.57	0.40	6.35	57.34
Cyclotella sp. (small)	1.79	1.49	0.34	6.06	63.40
Schroederia setigera	1.04	1.46	0.62	5.94	69.33
Eutreptia sp.	0.88	1.40	0.53	5.66	75.00
Scenedesmus bijinga	0.90	0.99	0.43	4.00	79.00
Nitzschia longissima	0.78	0.97	0.52	3.93	82.93
Cyclotella sp. (large)	1.45	0.81	0.26	3.29	86.22
Akistrodesmus falcatus	0.64	0.53	0.34	2.16	88.38
Thalassiosira pseudonana	1.05	0.46	0.25	1.87	90.25

Group 70%Grp9

Average similarity: 33.02

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	4.02	14.98	2.11	45.37	45.37
Chaetoceros subtilis	1.53	3.78	0.58	11.44	56.81
Nitzschia closterium	1.16	2.40	0.83	7.26	64.07
Peridinium aciculiferum	0.96	2.00	0.46	6.05	70.12
Chaetoceros socialis	0.85	1.11	0.46	3.37	73.49
Unknown pennate diatom sp.	0.79	1.08	0.46	3.26	76.75
Nitzschia longissima	0.64	1.03	0.49	3.13	79.87
Leptocylicus minimum	0.86	1.02	0.42	3.08	82.95
Thalassiosira pseudonana	0.71	0.79	0.39	2.40	85.35
Thalassiosira sp.	0.61	0.57	0.25	1.73	87.08
Schizothrix sp.	0.87	0.48	0.23	1.46	88.54
Chaetoceros neogracile	0.50	0.40	0.30	1.20	89.74

Eutreptia sp.	0.45	0.39	0.30	1.19	90.92
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Group 70%Grp10

Average similarity: 36.53

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	4.06	12.80	4.40	35.05	35.05
Chaetoceros subtilis	2.80	7.10	1.22	19.42	54.47
Schroederia setigera	1.25	2.96	1.01	8.10	62.57
Nitzschia longissima	0.91	2.09	0.77	5.71	68.28
Peridinium aciculiferum	1.07	1.35	0.40	3.71	71.99
Cyclotella sp. (small)	1.40	1.33	0.35	3.63	75.63
Gymnodinium sp.	1.06	1.31	0.47	3.60	79.22
Thalassiosira pseudonana	1.15	1.19	0.37	3.25	82.47
Scenedesmus quadracauda	0.73	0.94	0.43	2.57	85.04
Unknown pennate diatom sp.	0.72	0.84	0.36	2.30	87.34
Thalassiosira decipiens	0.59	0.65	0.37	1.77	89.11
Gonyaulax polygramma	0.53	0.60	0.36	1.65	90.76

Group 70%Grp11

Average similarity: 30.98

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	5.90	14.08	1.52	45.45	45.45
Prorocentrum minimum	1.59	2.06	0.67	6.64	52.09
Eutreptia sp.	1.43	1.99	0.68	6.42	58.51
Thalassiosira pseudonana	1.56	1.57	0.46	5.06	63.57
Schroederia setigera	0.82	1.20	0.53	3.87	67.44
Nitzschia longissima	0.74	1.06	0.57	3.42	70.86
Thalassiosira sp.	1.38	1.04	0.36	3.36	74.22
Peridinium aciculiferum	0.84	0.95	0.46	3.05	77.27
Chaetoceros subtilis	0.83	0.81	0.36	2.62	79.89
Thalassiosira decipiens	0.84	0.78	0.45	2.53	82.42
Nitzschia closterium	0.62	0.73	0.52	2.37	84.79
Unknown pennate diatom sp.	0.81	0.68	0.34	2.20	86.98
Scrippsiella sp.	0.59	0.55	0.34	1.76	88.74
Gymnodinium sp.	0.53	0.42	0.36	1.36	90.10

Group 70%Grp8

Average similarity: 25.76

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	5.07	6.66	1.11	25.84	25.84
Thalassionema nitzschoides	1.63	1.98	0.58	7.70	33.54
Ceratulina bergonii	1.39	1.86	0.75	7.22	40.76
Leptocylicus minimum	1.63	1.56	0.76	6.05	46.81
Schizothrix sp.	2.14	1.36	0.35	5.29	52.10
Chaetoceros neogracile	1.24	1.15	0.66	4.48	56.58
Unknown pennate diatom sp.	1.09	1.11	0.49	4.30	60.89
Prorocentrum micans	0.97	1.11	0.63	4.30	65.19
Nitzschia closterium	1.37	0.90	0.51	3.50	68.69
Chaetoceros socialis	1.47	0.89	0.47	3.47	72.16
Rhizosolenia setigera	0.93	0.86	0.44	3.33	75.48
Ceratium hircus	0.73	0.63	0.47	2.45	77.93
Nitzschia pungens	1.11	0.62	0.39	2.39	80.32
Thalassiosira sp.	0.93	0.56	0.36	2.19	82.52
Prorocentrum minimum	0.72	0.56	0.54	2.17	84.68
Thalassiosira decipiens	0.64	0.47	0.32	1.82	86.51
Nitzschia longissima	0.64	0.45	0.49	1.75	88.26
Chaetoceros compressum	0.87	0.38	0.32	1.46	89.72
Asterionella glacialis	0.87	0.38	0.33	1.46	91.18

Group 70%Grp1

Average similarity: 43.01

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Cryptomonas sp.1	3.26	9.91	2.87	23.05	23.05
Synechocystis aquaticus Sauvageau	3.49	9.53	1.16	22.17	45.22
Scenedesmus quadricauda v. Westii	2.19	4.43	1.01	10.31	55.52
Gonyaulax palustre	1.82	3.93	1.12	9.14	64.66
Spermatozoopsis exultans	1.79	3.64	0.96	8.45	73.12
Cryptomonas erosa	1.46	2.37	0.75	5.52	78.64
Chlymentomonas sp.	1.14	1.57	0.58	3.65	82.29
Cryptomonas ovata	1.01	1.43	0.53	3.32	85.61
Skeletonema costatum	1.15	1.35	0.42	3.14	88.75
Eutreptiella sp.	0.80	0.94	0.47	2.18	90.93

Group 70%Grp2

Average similarity: 39.09

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
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Skeletonema costatum	3.66	11.71	1.37	29.94	29.94
Cryptomonas sp.1	2.86	9.48	2.16	24.26	54.20
Synechocystis aquaticus Sauvageau	2.84	7.78	1.09	19.91	74.11
Chlymentomonas sp.	0.92	1.44	0.50	3.67	77.79
Peridinium cerasus	0.89	1.04	0.40	2.66	80.45
Gymnodinium simplex	0.75	1.00	0.40	2.55	83.00
Eutreptiella sp.	0.75	0.93	0.42	2.37	85.37
Spermatozoopsis exultans	0.63	0.68	0.35	1.74	87.12
Cryptomonas ovata	0.59	0.61	0.32	1.55	88.67
Gymnodinium splendens	0.71	0.54	0.24	1.39	90.06

Groups 70%Grp3 & 70%Grp6

Average dissimilarity = 68.88

Species	Group 70%Grp3 Av.Abund	Group 70%Grp6 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	2.34	6.79	6.00	1.25	8.71	8.71
Unknown Cryptophyte sp.	4.79	6.29	4.17	1.26	6.05	14.76
Skeletonema costatum	0.16	3.34	3.86	0.85	5.60	20.37
Thalassiosira sp.	2.01	3.51	3.21	0.98	4.66	25.03
Unknown Dinoflagellate sp.	1.73	3.01	3.15	1.27	4.58	29.61
Unknown diatom sp.	3.09	3.30	2.46	1.25	3.58	33.18
Prorocentrum micans	1.61	0.34	2.36	0.60	3.43	36.61
Prorocentrum minimum	0.16	1.60	2.24	0.37	3.25	39.87
Peridinium sp.	0.00	1.80	2.01	0.75	2.91	42.78
Pyramimonas sp.	0.84	1.63	1.96	1.18	2.85	45.63
Scenedesmus sp.	1.47	0.60	1.89	1.15	2.75	48.38
Eutreptia sp.	0.37	1.21	1.80	0.58	2.61	50.99
Skeletonema menezelli	0.14	1.46	1.63	0.37	2.37	53.35
Navicula sp. small	1.23	0.21	1.61	0.87	2.33	55.68
Nitzschia pungens	0.80	0.82	1.45	0.92	2.11	57.79
Chaetoceros sp.	0.13	1.28	1.41	0.64	2.05	59.84
Prorocentrum sp.	0.45	0.77	1.34	0.47	1.94	61.78
Coscinodiscus sp.	0.83	0.28	1.27	0.64	1.84	63.62
Unknown bluegreen sp.	0.83	0.33	1.24	0.89	1.80	65.42
Leptocylindricus minimum	0.61	0.72	1.20	0.85	1.75	67.16
Nitzschia closterium	0.20	0.92	1.19	0.70	1.73	68.90
Eutreptiella sp.	0.35	0.69	1.16	0.45	1.69	70.59
Navicula sp. large	0.66	0.47	1.16	0.78	1.69	72.28
Tetraedron sp.	0.82	0.30	1.11	0.79	1.62	73.89
Akistrodesmus sp.	0.76	0.33	1.10	0.63	1.60	75.49
Leptocylindricus danicus	0.27	0.65	0.96	0.50	1.39	76.88

Prorocentrum redfieldi	0.40	0.41	0.86	0.35	1.25	78.13
Unknown Katodinium sp.	0.11	0.54	0.85	0.32	1.23	79.36
Unknown diatom sp. A	0.20	0.52	0.76	0.42	1.11	80.47
Glenodinium sp.	0.13	0.50	0.70	0.36	1.02	81.49
Aphanocapsa sp.	0.36	0.36	0.69	0.51	1.01	82.49
Schizothrix calcicola	0.48	0.12	0.61	0.59	0.89	83.38
Minutocellus sp.	0.09	0.51	0.61	0.46	0.89	84.27
Apedinella radians	0.00	0.50	0.58	0.44	0.85	85.12
Unknown Vegetative cell sp.	0.13	0.31	0.58	0.35	0.85	85.97
Chaetoceros gracile	0.00	0.51	0.55	0.29	0.80	86.77
Rhizosolenia setigera	0.00	0.51	0.52	0.48	0.75	87.51
Nitzschia sp.	0.38	0.00	0.50	0.37	0.73	88.25
Thalassionema nitzschoides	0.35	0.14	0.50	0.53	0.73	88.97
Trichodesmium sp.	0.38	0.00	0.42	0.37	0.61	89.58
Ceratium hircus	0.00	0.36	0.41	0.33	0.59	90.18

Groups 70%Grp3 & 70%Grp5

Average dissimilarity = 69.49

Species	Group 70%Grp3 Av.Abund	Group 70%Grp5 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	0.16	7.46	8.27	1.68	11.91	11.91
Unknown diatom sp. D	2.34	6.13	4.46	1.31	6.42	18.33
Nitzschia closterium	0.20	3.83	4.02	2.23	5.78	24.11
Unknown Cryptophyte sp.	4.79	5.10	3.05	1.26	4.39	28.50
Thalassiosira sp.	2.01	4.15	2.75	1.62	3.95	32.45
Nitzschia pungens	0.80	2.56	2.61	1.32	3.76	36.21
Chaetoceros sp.	0.13	2.39	2.46	1.14	3.54	39.75
Unknown Dinoflagellate sp.	1.73	2.35	2.31	1.25	3.33	43.09
Prorocentrum micans	1.61	0.32	2.07	0.60	2.98	46.07
Unknown diatom sp.	3.09	3.67	2.02	1.17	2.90	48.97
Skeletonema menezelli	0.14	2.03	1.96	0.44	2.82	51.79
Pyramimonas sp.	0.84	1.39	1.72	1.04	2.48	54.26
Leptocylindricus minimum	0.61	1.46	1.67	0.97	2.40	56.67
Scenedesmus sp.	1.47	0.27	1.66	1.11	2.40	59.06
Navicula sp. small	1.23	0.46	1.60	0.89	2.30	61.36
Navicula sp. large	0.66	0.73	1.19	0.86	1.71	63.07
Thalassionema nitzschoides	0.35	0.96	1.11	0.76	1.60	64.67
Chaetoceros muelleri	0.00	1.09	1.11	0.59	1.60	66.27
Unknown bluegreen sp.	0.83	0.36	1.05	0.96	1.51	67.78
Peridinium sp.	0.00	1.06	1.04	0.58	1.50	69.27
Coscinodiscus sp.	0.83	0.12	1.02	0.59	1.47	70.75

Akistrodesmus sp.	0.76	0.28	1.00	0.62	1.44	72.19
Prorocentrum sp.	0.45	0.58	0.99	0.56	1.43	73.61
Leptocylicus danicus	0.27	0.69	0.99	0.65	1.42	75.04
Asterionella japonica	0.00	0.98	0.97	0.57	1.39	76.43
Tetraedron sp.	0.82	0.12	0.94	0.74	1.35	77.77
Ceratium hircus	0.00	0.95	0.89	0.48	1.28	79.05
Minutocellus sp.	0.09	0.83	0.85	0.58	1.23	80.28
Unknown diatom sp. A	0.20	0.58	0.77	0.49	1.11	81.39
Rhizosolenia setigera	0.00	0.77	0.77	0.59	1.11	82.50
Aphanocapsa sp.	0.36	0.40	0.64	0.53	0.92	83.43
Eutreptia sp.	0.37	0.08	0.54	0.40	0.77	84.20
Nitzschia sp.	0.38	0.10	0.53	0.42	0.77	84.97
Eutreptiella sp.	0.35	0.12	0.48	0.43	0.70	85.66
Schizothrix calcicola	0.48	0.00	0.48	0.57	0.69	86.35
Unknown diatom sp. 17	0.20	0.22	0.46	0.45	0.66	87.02
Prorocentrum redfieldi	0.40	0.00	0.42	0.35	0.60	87.62
Chaetoceros gracile	0.00	0.36	0.40	0.20	0.58	88.20
Nitzschia delicatissima	0.09	0.31	0.39	0.26	0.56	88.76
Trichodesmium sp.	0.38	0.00	0.39	0.37	0.56	89.33
Pyrophacus sp.	0.00	0.39	0.38	0.29	0.55	89.88
Prorocentrum minimum	0.16	0.16	0.37	0.30	0.53	90.41

Groups 70%Grp6 & 70%Grp5

Average dissimilarity = 60.39

Species	Group 70%Grp6 Av.Abund	Group 70%Grp5 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.34	7.46	5.68	1.41	9.40	9.40
Unknown diatom sp. D	6.79	6.13	4.23	1.22	7.01	16.41
Nitzschia closterium	0.92	3.83	2.91	1.72	4.82	21.23
Thalassiosira sp.	3.51	4.15	2.72	1.03	4.51	25.74
Skeletonema menezelli	1.46	2.03	2.54	0.53	4.20	29.94
Unknown Dinoflagellate sp.	3.01	2.35	2.34	1.21	3.88	33.82
Nitzschia pungens	0.82	2.56	2.29	1.23	3.80	37.61
Chaetoceros sp.	1.28	2.39	2.24	1.18	3.72	41.33
Unknown Cryptophyte sp.	6.29	5.10	2.20	1.03	3.64	44.97
Unknown diatom sp.	3.30	3.67	2.03	1.12	3.36	48.33
Peridinium sp.	1.80	1.06	1.88	0.90	3.12	51.45
Prorocentrum minimum	1.60	0.16	1.74	0.37	2.88	54.33
Pyramimonas sp.	1.63	1.39	1.73	1.10	2.86	57.19
Leptocylicus minimum	0.72	1.46	1.45	0.90	2.41	59.60
Eutreptia sp.	1.21	0.08	1.23	0.51	2.03	61.63

Chaetoceros muelleri	0.35	1.09	1.12	0.68	1.86	63.49
Prorocentrum sp.	0.77	0.58	1.10	0.50	1.82	65.31
Leptocylicus danicus	0.65	0.69	1.05	0.62	1.74	67.05
Ceratium hircus	0.36	0.95	0.98	0.59	1.62	68.68
Minutocellus sp.	0.51	0.83	0.96	0.67	1.59	70.27
Navicula sp. large	0.47	0.73	0.91	0.73	1.50	71.77
Rhizosolenia setigera	0.51	0.77	0.89	0.75	1.48	73.25
Asterionella japonica	0.10	0.98	0.87	0.59	1.44	74.69
Unknown diatom sp. A	0.52	0.58	0.87	0.53	1.44	76.13
Thalassionema nitzschoides	0.14	0.96	0.84	0.63	1.40	77.52
Eutreptiella sp.	0.69	0.12	0.75	0.37	1.24	78.77
Chaetoceros gracile	0.51	0.36	0.74	0.34	1.23	79.99
Scenedesmus sp.	0.60	0.27	0.73	0.52	1.20	81.20
Unknown Katodinium sp.	0.54	0.10	0.67	0.33	1.10	82.30
Apedinella radians	0.50	0.30	0.65	0.56	1.07	83.37
Navicula sp. small	0.21	0.46	0.56	0.46	0.93	84.30
Prorocentrum micans	0.34	0.32	0.55	0.38	0.91	85.22
Pyrophacus sp.	0.26	0.39	0.55	0.39	0.91	86.13
Unknown bluegreen sp.	0.33	0.36	0.55	0.50	0.91	87.03
Aphanocapsa sp.	0.36	0.40	0.55	0.49	0.90	87.94
Akistrodesmus sp.	0.33	0.28	0.51	0.40	0.84	88.78
Glenodinium sp.	0.50	0.00	0.45	0.30	0.75	89.52
Unknown Vegetative cell sp.	0.31	0.12	0.43	0.33	0.70	90.23

Groups 70%Grp3 & 70%Grp4

Average dissimilarity = 69.16

Species	Group 70%Grp3 Av.Abund	Group 70%Grp4 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	1.73	9.23	7.95	1.62	11.50	11.50
Skeletonema costatum	0.16	5.96	5.70	6.07	8.25	19.75
Unknown diatom sp. D	2.34	8.36	5.55	1.60	8.03	27.78
Nitzschia closterium	0.20	4.12	3.98	3.03	5.76	33.54
Unknown Cryptophyte sp.	4.79	7.43	3.47	1.93	5.02	38.56
Pyramimonas sp.	0.84	3.83	2.98	2.58	4.31	42.87
Thalassiosira sp.	2.01	4.72	2.70	2.25	3.91	46.78
Rhizosolenia fragilissima	0.00	2.34	2.67	0.97	3.86	50.64
Chaetoceros sp.	0.13	3.08	2.65	1.01	3.83	54.46
Gymnodinium sp.	0.09	2.63	2.26	1.01	3.26	57.72
Nitzschia pungens	0.80	2.29	2.06	1.28	2.98	60.70
Apedinella radians	0.00	1.78	2.03	0.97	2.93	63.64
Unknown diatom sp.	3.09	4.70	1.79	1.40	2.59	66.22

Cerataulina bergonii large	0.00	1.50	1.70	0.97	2.46	68.69
Leptocylicus minimum	0.61	1.88	1.69	1.21	2.44	71.13
Prorocentrum micans	1.61	0.00	1.66	0.56	2.40	73.53
Prorocentrum sp.	0.45	1.50	1.41	1.01	2.03	75.57
Scenedesmus sp.	1.47	0.00	1.39	1.12	2.01	77.58
Peridinium sp.	0.00	1.50	1.28	0.98	1.85	79.43
Navicula sp. small	1.23	0.00	1.22	0.83	1.76	81.18
Navicula sp. large	0.66	1.26	1.17	1.05	1.70	82.88
Leptocylicus danicus	0.27	1.26	1.12	1.02	1.62	84.50
Rhizosolenia setigera	0.00	1.26	1.07	0.98	1.55	86.06
Coscinodiscus sp.	0.83	0.00	0.83	0.57	1.20	87.26
Unknown bluegreen sp.	0.83	0.00	0.81	0.88	1.18	88.43
Tetraedron sp.	0.82	0.00	0.75	0.72	1.09	89.52
Akistrodesmus sp.	0.76	0.00	0.70	0.56	1.01	90.53

Groups 70%Grp6 & 70%Grp4

Average dissimilarity = 55.36

Species	Group 70%Grp6 Av.Abund	Group 70%Grp4 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	3.01	9.23	5.76	1.39	10.40	10.40
Unknown diatom sp. D	6.79	8.36	4.08	1.34	7.36	17.76
Skeletonema costatum	3.34	5.96	3.49	1.58	6.30	24.06
Nitzschia closterium	0.92	4.12	2.82	1.96	5.10	29.16
Chaetoceros sp.	1.28	3.08	2.45	1.13	4.43	33.59
Thalassiosira sp.	3.51	4.72	2.28	1.08	4.11	37.71
Rhizosolenia fragilissima	0.09	2.34	2.25	0.97	4.06	41.76
Pyramimonas sp.	1.63	3.83	2.06	1.36	3.73	45.49
Unknown Cryptophyte sp.	6.29	7.43	2.04	1.31	3.69	49.18
Gymnodinium sp.	0.15	2.63	1.98	0.99	3.57	52.74
Nitzschia pungens	0.82	2.29	1.81	1.12	3.28	56.02
Unknown diatom sp.	3.30	4.70	1.79	1.18	3.24	59.26
Peridinium sp.	1.80	1.50	1.69	1.04	3.05	62.31
Apedinella radians	0.50	1.78	1.67	1.01	3.02	65.32
Leptocylicus minimum	0.72	1.88	1.48	1.08	2.67	68.00
Prorocentrum sp.	0.77	1.50	1.45	0.85	2.61	70.61
Cerataulina bergonii large	0.07	1.50	1.44	0.97	2.60	73.21
Prorocentrum minimum	1.60	0.00	1.42	0.35	2.56	75.77
Leptocylicus danicus	0.65	1.26	1.20	0.94	2.17	77.94
Skeletonema menezelli	1.46	0.00	1.08	0.33	1.95	79.89
Eutreptia sp.	1.21	0.00	1.03	0.49	1.87	81.76
Navicula sp. large	0.47	1.26	1.03	1.01	1.86	83.62

Rhizosolenia setigera	0.51	1.26	1.02	1.04	1.85	85.46
Eutreptiella sp.	0.69	0.00	0.59	0.33	1.06	86.53
Unknown Katodinium sp.	0.54	0.00	0.49	0.28	0.89	87.41
Scenedesmus sp.	0.60	0.00	0.48	0.44	0.87	88.29
Glenodinium sp.	0.50	0.00	0.40	0.30	0.73	89.01
Unknown diatom sp. A	0.52	0.00	0.40	0.33	0.72	89.73
Minutocellus sp.	0.51	0.00	0.39	0.41	0.70	90.43

Groups 70%Grp5 & 70%Grp4

Average dissimilarity = 49.02

Species	Group 70%Grp5 Av.Abund	Group 70%Grp4 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	2.35	9.23	6.02	1.49	12.27	12.27
Unknown diatom sp. D	6.13	8.36	3.53	1.34	7.20	19.47
Skeletonema costatum	7.46	5.96	3.08	1.64	6.28	25.75
Chaetoceros sp.	2.39	3.08	2.38	1.33	4.86	30.60
Rhizosolenia fragilissima	0.00	2.34	2.10	0.96	4.29	34.89
Pyramimonas sp.	1.39	3.83	2.07	1.77	4.23	39.12
Unknown Cryptophyte sp.	5.10	7.43	1.97	2.45	4.02	43.14
Nitzschia pungens	2.56	2.29	1.96	1.23	4.00	47.14
Gymnodinium sp.	0.22	2.63	1.88	1.01	3.83	50.97
Apedinella radians	0.30	1.78	1.57	0.99	3.20	54.17
Leptocylindricus minimum	1.46	1.88	1.56	1.11	3.19	57.35
Unknown diatom sp.	3.67	4.70	1.44	1.11	2.93	60.28
Skeletonema menezelli	2.03	0.00	1.37	0.41	2.80	63.09
Cerataulina bergonii large	0.12	1.50	1.33	0.96	2.72	65.80
Peridinium sp.	1.06	1.50	1.30	1.03	2.65	68.45
Thalassiosira sp.	4.15	4.72	1.24	0.88	2.52	70.97
Nitzschia closterium	3.83	4.12	1.19	1.12	2.42	73.39
Prorocentrum sp.	0.58	1.50	1.18	0.99	2.41	75.80
Leptocylindricus danicus	0.69	1.26	1.04	1.02	2.12	77.92
Rhizosolenia setigera	0.77	1.26	1.03	1.04	2.09	80.02
Navicula sp. large	0.73	1.26	1.01	1.05	2.06	82.08
Chaetoceros muelleri	1.09	0.00	0.80	0.59	1.64	83.72
Asterionella japonica	0.98	0.00	0.70	0.56	1.44	85.16
Thalassionema nitzschoides	0.96	0.00	0.67	0.59	1.38	86.53
Ceratium hircus	0.95	0.00	0.65	0.48	1.34	87.87
Minutocellus sp.	0.83	0.00	0.59	0.54	1.20	89.06
Unknown diatom sp. A	0.58	0.00	0.43	0.41	0.88	89.94
Navicula sp. small	0.46	0.00	0.33	0.35	0.67	90.62

Groups 70%Grp3 & 70%Grp7

Average dissimilarity = 98.12

Species	Group 70%Grp3 Av.Abund	Group 70%Grp7 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	8.48	1.49	8.64	8.64
Unknown diatom sp.	3.09	0.00	5.38	2.09	5.48	14.12
Skeletonema costatum	0.16	3.27	4.62	1.00	4.71	18.83
Unknown diatom sp. D	2.34	0.00	3.96	1.47	4.04	22.86
Unknown pennate diatom sp.	0.00	2.07	3.59	1.67	3.66	26.52
Thalassiosira sp.	2.01	0.10	3.37	1.65	3.44	29.96
Unknown Dinoflagellate sp.	1.73	0.00	3.09	0.92	3.14	33.11
Prorocentrum micans	1.61	0.00	3.08	0.53	3.14	36.24
Cyclotella sp. (small)	0.00	1.79	2.97	0.70	3.02	39.27
Cyclotella sp.	0.00	1.76	2.87	0.74	2.92	42.19
Scenedesmus sp.	1.47	0.26	2.35	1.12	2.40	44.58
Cyclotella sp. (large)	0.00	1.45	2.31	0.59	2.35	46.93
Navicula sp. small	1.23	0.00	2.17	0.82	2.21	49.14
Scenedesmus quadracauda	0.00	1.15	1.84	1.07	1.87	51.02
Eutreptia sp.	0.37	0.88	1.84	0.93	1.87	52.89
Gymnodinium sp.	0.09	1.01	1.76	0.99	1.79	54.68
Schroederia setigera	0.00	1.04	1.63	1.04	1.66	56.35
Thalassiosira pseudonana	0.00	1.05	1.59	0.56	1.62	57.97
Coscinodiscus sp.	0.83	0.00	1.50	0.55	1.52	59.49
Unknown bluegreen sp.	0.83	0.00	1.44	0.86	1.47	60.97
Scenedesmus bijinga	0.00	0.90	1.42	0.83	1.44	62.41
Pyramimonas sp.	0.84	0.00	1.37	0.80	1.40	63.81
Nitzschia pungens	0.80	0.00	1.33	0.76	1.35	65.17
Tetraedron sp.	0.82	0.08	1.28	0.76	1.31	66.47
Thalassiosira decipiens	0.00	0.91	1.28	0.49	1.30	67.77
Navicula sp. large	0.66	0.00	1.25	0.62	1.27	69.05
Nitzschia longissima	0.00	0.78	1.23	0.92	1.26	70.31
Akistrodesmus sp.	0.76	0.00	1.17	0.56	1.19	71.50
Leptocylindricus minimum	0.61	0.00	1.06	0.63	1.08	72.58
Akistrodesmus falcatus	0.00	0.64	1.00	0.68	1.02	73.60
Nitzschia sp.	0.38	0.09	0.89	0.46	0.90	74.50
Melosira sp.	0.20	0.36	0.81	0.57	0.83	75.33
Amphiprora sp.	0.00	0.49	0.80	0.61	0.82	76.15
Prorocentrum sp.	0.45	0.00	0.77	0.38	0.78	76.93
Actinastrum hantzschii	0.00	0.49	0.77	0.50	0.78	77.72
Bluegreen filamentous sp.	0.00	0.41	0.75	0.60	0.76	78.48
Crucigenia sp.	0.21	0.22	0.71	0.64	0.73	79.20

Chaetoceros subtilis	0.00	0.44	0.70	0.49	0.72	79.92
Schizothrix calcicola	0.48	0.00	0.68	0.57	0.69	80.61
Prorocentrum redfieldi	0.40	0.00	0.61	0.35	0.62	81.23
Cyclotella meneghiniana	0.00	0.40	0.58	0.27	0.59	81.82
Leptocylindricus danicus	0.27	0.00	0.57	0.38	0.58	82.40
Thalassionema nitzschoides	0.35	0.00	0.56	0.47	0.57	82.97
Trichodesmium sp.	0.38	0.00	0.56	0.37	0.57	83.54
Dictyosphaerium sp.	0.00	0.46	0.56	0.39	0.57	84.11
Eutreptiella sp.	0.35	0.00	0.56	0.38	0.57	84.68
Scenedesmus acutus	0.00	0.34	0.55	0.40	0.56	85.23
Pleurosigma sp.	0.09	0.24	0.54	0.56	0.55	85.79
Aphanocapsa sp.	0.36	0.00	0.52	0.38	0.53	86.32
Prorocentrum minimum	0.16	0.16	0.50	0.47	0.51	86.83
Merismopedia punctata	0.00	0.29	0.49	0.38	0.50	87.33
Chroococcus sp.	0.32	0.00	0.45	0.38	0.46	87.79
Oscillatoria sp.	0.32	0.00	0.45	0.38	0.46	88.25
Melosira nummuloidea	0.00	0.25	0.44	0.40	0.45	88.70
Nitzschia closterium	0.20	0.08	0.44	0.37	0.44	89.14
Scenedesmus abundans	0.00	0.29	0.39	0.39	0.40	89.54
Micractinium pusillum	0.00	0.30	0.37	0.37	0.37	89.91
Franceia sp.	0.13	0.12	0.36	0.37	0.37	90.28

Groups 70%Grp6 & 70%Grp7

Average dissimilarity = 95.98

Species	Group 70%Grp6 Av.Abund	Group 70%Grp7 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	8.71	1.52	9.08	9.08
Unknown Cryptophyte sp.	6.29	0.00	8.51	2.09	8.87	17.95
Skeletonema costatum	3.34	3.27	5.04	1.10	5.25	23.20
Thalassiosira sp.	3.51	0.10	4.46	1.03	4.65	27.85
Unknown diatom sp.	3.30	0.00	4.23	1.57	4.41	32.26
Unknown Dinoflagellate sp.	3.01	0.00	4.11	1.22	4.29	36.55
Unknown pennate diatom sp.	0.00	2.07	2.80	1.68	2.91	39.46
Prorocentrum minimum	1.60	0.16	2.48	0.37	2.58	42.04
Cyclotella sp. (small)	0.00	1.79	2.34	0.68	2.44	44.48
Eutreptia sp.	1.21	0.88	2.30	0.80	2.40	46.88
Cyclotella sp.	0.00	1.76	2.26	0.72	2.35	49.23
Peridinium sp.	1.80	0.00	2.15	0.74	2.24	51.48
Pyramimonas sp.	1.63	0.00	1.97	0.91	2.05	53.53
Cyclotella sp. (large)	0.00	1.45	1.84	0.58	1.91	55.44
Skeletonema menezelli	1.46	0.00	1.59	0.33	1.65	57.09

Scenedesmus quadracauda	0.00	1.15	1.46	1.05	1.52	58.62
Gymnodinium sp.	0.15	1.01	1.45	0.99	1.51	60.13
Chaetoceros sp.	1.28	0.00	1.44	0.60	1.50	61.63
Schroederia setigera	0.00	1.04	1.30	1.03	1.35	62.98
Thalassiosira pseudonana	0.00	1.05	1.28	0.55	1.33	64.31
Nitzschia closterium	0.92	0.08	1.24	0.70	1.29	65.61
Scenedesmus bijinga	0.00	0.90	1.13	0.82	1.18	66.78
Thalassiosira decipiens	0.00	0.91	1.04	0.48	1.08	67.86
Nitzschia pungens	0.82	0.00	1.02	0.55	1.06	68.92
Prorocentrum sp.	0.77	0.00	1.00	0.33	1.04	69.96
Nitzschia longissima	0.00	0.78	0.98	0.91	1.02	70.98
Eutreptiella sp.	0.69	0.00	0.96	0.34	1.00	71.98
Scenedesmus sp.	0.60	0.26	0.96	0.56	1.00	72.98
Unknown Katodinium sp.	0.54	0.00	0.83	0.28	0.86	73.84
Leptocylicus minimum	0.72	0.00	0.81	0.54	0.84	74.68
Akistrodesmus falcatus	0.00	0.64	0.80	0.68	0.83	75.51
Chaetoceros subtilis	0.16	0.44	0.71	0.47	0.73	76.25
Leptocylicus danicus	0.65	0.00	0.69	0.35	0.71	76.96
Amphiprora sp.	0.00	0.49	0.64	0.60	0.66	77.62
Apedinella radians	0.50	0.00	0.63	0.43	0.66	78.28
Glenodinium sp.	0.50	0.00	0.62	0.30	0.65	78.93
Actinastrum hantzschii	0.00	0.49	0.61	0.50	0.64	79.56
Navicula sp. large	0.47	0.00	0.61	0.44	0.63	80.20
Unknown diatom sp. A	0.52	0.00	0.59	0.33	0.62	80.82
Chaetoceros gracile	0.51	0.00	0.59	0.29	0.62	81.43
Minutocellus sp.	0.51	0.00	0.58	0.41	0.60	82.04
Bluegreen filamentous sp.	0.00	0.41	0.58	0.60	0.60	82.64
Rhizosolenia setigera	0.51	0.00	0.55	0.47	0.57	83.21
Unknown Vegetative cell sp.	0.31	0.00	0.51	0.27	0.53	83.74
Prorocentrum micans	0.34	0.00	0.48	0.24	0.50	84.24
Cyclotella meneghiniana	0.00	0.40	0.47	0.27	0.49	84.73
Melosira sp.	0.00	0.36	0.47	0.49	0.49	85.22
Prorocentrum redfieldi	0.41	0.00	0.47	0.19	0.49	85.71
Dictyosphaerium sp.	0.00	0.46	0.46	0.39	0.48	86.19
Unknown bluegreen sp.	0.33	0.00	0.45	0.31	0.47	86.66
Ceratium hircus	0.36	0.00	0.44	0.33	0.46	87.12
Scenedesmus acutus	0.00	0.34	0.44	0.39	0.45	87.57
Chaetoceros muelleri	0.35	0.00	0.43	0.33	0.45	88.02
Pleurosigma sp.	0.08	0.24	0.42	0.50	0.44	88.46
Tetraedron sp.	0.30	0.08	0.40	0.36	0.42	88.88
Coscinodiscus sp.	0.28	0.00	0.40	0.29	0.42	89.30
Aphanocapsa sp.	0.36	0.00	0.39	0.33	0.41	89.71
Merismopedia punctata	0.00	0.29	0.38	0.38	0.40	90.10

Groups 70%Grp5 & 70%Grp7

Average dissimilarity = 94.09

Species	Group 70%Grp5 Av.Abund	Group 70%Grp7 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	7.46	3.27	7.38	1.38	7.85	7.85
Unknown diatom sp. D	6.13	0.00	7.08	1.93	7.52	15.37
Unknown Cryptophyte sp.	5.10	0.00	6.54	2.10	6.95	22.32
Thalassiosira sp.	4.15	0.10	4.60	2.26	4.89	27.21
Nitzschia closterium	3.83	0.08	4.36	2.33	4.64	31.85
Unknown diatom sp.	3.67	0.00	4.28	2.13	4.55	36.40
Nitzschia pungens	2.56	0.00	3.04	1.20	3.23	39.63
Unknown Dinoflagellate sp.	2.35	0.00	2.68	1.26	2.85	42.47
Chaetoceros sp.	2.39	0.00	2.65	1.10	2.81	45.29
Unknown pennate diatom sp.	0.00	2.07	2.55	1.65	2.71	47.99
Cyclotella sp. (small)	0.00	1.79	2.14	0.68	2.27	50.27
Cyclotella sp.	0.00	1.76	2.06	0.71	2.19	52.46
Skeletonema menezelli	2.03	0.00	1.95	0.40	2.07	54.53
Pyramimonas sp.	1.39	0.00	1.74	0.77	1.85	56.38
Cyclotella sp. (large)	0.00	1.45	1.68	0.58	1.79	58.16
Leptocylindricus minimum	1.46	0.00	1.56	0.75	1.65	59.82
Scenedesmus quadricauda	0.00	1.15	1.34	1.03	1.42	61.24
Gymnodinium sp.	0.22	1.01	1.32	0.99	1.40	62.64
Schroederia setigera	0.00	1.04	1.19	1.01	1.26	63.90
Chaetoceros muelleri	1.09	0.00	1.18	0.59	1.25	65.16
Thalassiosira pseudonana	0.00	1.05	1.17	0.54	1.25	66.41
Eutreptia sp.	0.08	0.88	1.12	0.92	1.19	67.60
Peridinium sp.	1.06	0.00	1.11	0.57	1.18	68.78
Scenedesmus bijinga	0.00	0.90	1.03	0.81	1.10	69.87
Asterionella japonica	0.98	0.00	1.03	0.57	1.09	70.96
Thalassionema nitzschoides	0.96	0.00	0.97	0.59	1.03	71.99
Thalassiosira decipiens	0.00	0.91	0.96	0.48	1.02	73.01
Ceratium hircus	0.95	0.00	0.94	0.48	1.00	74.01
Nitzschia longissima	0.00	0.78	0.90	0.90	0.95	74.96
Leptocylindricus danicus	0.69	0.00	0.87	0.51	0.93	75.89
Minutocellus sp.	0.83	0.00	0.86	0.53	0.91	76.80
Navicula sp. large	0.73	0.00	0.85	0.59	0.90	77.70
Rhizosolenia setigera	0.77	0.00	0.82	0.58	0.87	78.57
Chaetoceros subtilis	0.27	0.44	0.76	0.47	0.81	79.38
Akistrodesmus falcatus	0.00	0.64	0.73	0.68	0.78	80.16
Prorocentrum sp.	0.58	0.00	0.66	0.41	0.70	80.86

Unknown diatom sp. A	0.58	0.00	0.66	0.41	0.70	81.56
Amphiprora sp.	0.00	0.49	0.58	0.60	0.62	82.18
Scenedesmus sp.	0.27	0.26	0.57	0.46	0.60	82.78
Actinastrum hantzschii	0.00	0.49	0.56	0.49	0.59	83.37
Bluegreen filamentous sp.	0.00	0.41	0.52	0.59	0.55	83.93
Navicula sp. small	0.46	0.00	0.48	0.36	0.51	84.43
Prorocentrum minimum	0.16	0.16	0.44	0.35	0.46	84.90
Cyclotella meneghiniana	0.00	0.40	0.43	0.27	0.46	85.36
Dictyosphaerium sp.	0.00	0.46	0.43	0.39	0.46	85.82
Chaetoceros gracile	0.36	0.00	0.43	0.20	0.46	86.28
Melosira sp.	0.00	0.36	0.43	0.49	0.46	86.73
Pyrophacus sp.	0.39	0.00	0.41	0.29	0.43	87.16
Scenedesmus acutus	0.00	0.34	0.40	0.39	0.42	87.59
Aphanocapsa sp.	0.40	0.00	0.36	0.36	0.39	87.97
Apedinella radians	0.30	0.00	0.36	0.36	0.38	88.36
Unknown bluegreen sp.	0.36	0.00	0.36	0.43	0.38	88.74
Merismopedia punctata	0.00	0.29	0.35	0.37	0.37	89.10
Crucigenia sp.	0.00	0.22	0.34	0.49	0.36	89.46
Akistrodesmus sp.	0.28	0.00	0.33	0.27	0.35	89.81
Pleurosigma sp.	0.00	0.24	0.32	0.49	0.34	90.15

Groups 70%Grp4 & 70%Grp7

Average dissimilarity = 93.75

Species	Group 70%Grp4 Av.Abund	Group 70%Grp7 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	10.31	1.89	11.00	11.00
Unknown diatom sp. D	8.36	0.00	8.22	2.71	8.77	19.77
Unknown Cryptophyte sp.	7.43	0.00	7.70	6.73	8.21	27.98
Thalassiosira sp.	4.72	0.10	4.86	4.63	5.19	33.17
Unknown diatom sp.	4.70	0.00	4.79	5.81	5.11	38.27
Nitzschia closterium	4.12	0.08	4.32	3.41	4.61	42.88
Skeletonema costatum	5.96	3.27	4.25	1.57	4.53	47.41
Pyramimonas sp.	3.83	0.00	4.01	5.76	4.27	51.69
Rhizosolenia fragilissima	2.34	0.00	2.86	0.96	3.05	54.74
Chaetoceros sp.	3.08	0.00	2.76	0.97	2.95	57.69
Gymnodinium sp.	2.63	1.01	2.52	1.45	2.68	60.37
Apedinella radians	1.78	0.00	2.17	0.96	2.32	62.69
Unknown pennate diatom sp.	0.00	2.07	2.15	1.86	2.29	64.98
Nitzschia pungens	2.29	0.00	2.05	0.97	2.19	67.17
Cerataulina bergonii large	1.50	0.00	1.83	0.96	1.95	69.12
Cyclotella sp. (small)	0.00	1.79	1.82	0.68	1.94	71.06

Cyclotella sp.	0.00	1.76	1.75	0.72	1.87	72.93
Leptocylicus minimum	1.88	0.00	1.69	0.97	1.80	74.73
Cyclotella sp. (large)	0.00	1.45	1.44	0.58	1.54	76.26
Prorocentrum sp.	1.50	0.00	1.34	0.97	1.43	77.69
Peridinium sp.	1.50	0.00	1.34	0.97	1.43	79.12
Scenedesmus quadricauda	0.00	1.15	1.14	1.06	1.22	80.34
Rhizosolenia setigera	1.26	0.00	1.13	0.97	1.20	81.55
Navicula sp. large	1.26	0.00	1.13	0.97	1.20	82.75
Leptocylicus danicus	1.26	0.00	1.13	0.97	1.20	83.95
Schroederia setigera	0.00	1.04	1.02	1.04	1.09	85.04
Thalassiosira pseudonana	0.00	1.05	1.01	0.54	1.08	86.11
Eutreptia sp.	0.00	0.88	0.93	0.93	0.99	87.10
Scenedesmus bijinga	0.00	0.90	0.88	0.83	0.94	88.05
Thalassiosira decipiens	0.00	0.91	0.83	0.48	0.89	88.93
Nitzschia longissima	0.00	0.78	0.77	0.92	0.82	89.75
Akistrodesmus falcatus	0.00	0.64	0.63	0.69	0.67	90.42

Groups 70%Grp3 & 70%Grp9

Average dissimilarity = 95.38

Species	Group 70%Grp3 Av.Abund	Group 70%Grp9 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	9.20	1.54	9.64	9.64
Skeletonema costatum	0.16	4.02	7.26	2.34	7.62	17.26
Unknown diatom sp.	3.09	0.00	5.83	2.20	6.12	23.37
Unknown diatom sp. D	2.34	0.00	4.29	1.52	4.50	27.87
Prorocentrum micans	1.61	0.24	3.49	0.57	3.66	31.53
Unknown Dinoflagellate sp.	1.73	0.00	3.35	0.93	3.51	35.04
Thalassiosira sp.	2.01	0.61	3.27	1.48	3.43	38.47
Chaetoceros subtilis	0.00	1.53	3.15	0.89	3.30	41.78
Scenedesmus sp.	1.47	0.07	2.56	1.13	2.68	44.46
Navicula sp. small	1.23	0.00	2.36	0.83	2.47	46.93
Nitzschia closterium	0.20	1.16	2.13	1.17	2.23	49.16
Peridinium aciculiferum	0.00	0.96	1.95	0.81	2.04	51.20
Leptocylicus minimum	0.61	0.86	1.84	0.96	1.93	53.13
Nitzschia pungens	0.80	0.38	1.64	0.89	1.72	54.85
Coscinodiscus sp.	0.83	0.00	1.63	0.56	1.70	56.56
Unknown bluegreen sp.	0.83	0.00	1.57	0.88	1.64	58.20
Pyramimonas sp.	0.84	0.07	1.53	0.83	1.60	59.80
Schizothrix sp.	0.00	0.87	1.44	0.50	1.51	61.31
Chaetoceros socialis	0.00	0.85	1.43	0.81	1.50	62.81
Navicula sp. large	0.66	0.00	1.36	0.63	1.43	64.23

Unknown pennate diatom sp.	0.00	0.79	1.35	0.83	1.42	65.65
Tetraedron sp.	0.82	0.00	1.35	0.74	1.42	67.07
Akistrodesmus sp.	0.76	0.05	1.30	0.59	1.37	68.43
Eutreptia sp.	0.37	0.45	1.29	0.61	1.35	69.79
Thalassiosira pseudonana	0.00	0.71	1.21	0.72	1.27	71.05
Nitzschia longissima	0.00	0.64	1.15	0.86	1.20	72.25
Thalassionema nitzschoides	0.35	0.40	1.06	0.69	1.11	73.37
Ceratulina bergonii	0.00	0.49	0.94	0.40	0.99	74.35
Nitzschia sp.	0.38	0.06	0.86	0.42	0.91	75.26
Chaetoceros neogracile	0.00	0.50	0.83	0.58	0.88	76.13
Prorocentrum sp.	0.45	0.00	0.83	0.38	0.87	77.01
Leptocylicus danicus	0.27	0.16	0.80	0.48	0.84	77.85
Prorocentrum minimum	0.16	0.37	0.77	0.60	0.81	78.65
Rhizosolenia setigera	0.00	0.41	0.73	0.56	0.77	79.42
Schizothrix calcicola	0.48	0.00	0.73	0.57	0.76	80.19
Gymnodinium sp.	0.09	0.33	0.70	0.57	0.74	80.92
Prorocentrum redfieldi	0.40	0.00	0.65	0.36	0.68	81.61
Trichodesmium sp.	0.38	0.00	0.60	0.38	0.63	82.24
Eutreptiella sp.	0.35	0.00	0.60	0.39	0.63	82.86
Aphanocapsa sp.	0.36	0.00	0.56	0.39	0.58	83.45
Cyclotella sp.	0.00	0.31	0.54	0.42	0.57	84.01
Cyclotella sp. (small)	0.00	0.25	0.53	0.28	0.55	84.56
Schroederia setigera	0.00	0.27	0.52	0.40	0.55	85.11
Gonyaulax polygramma	0.00	0.24	0.49	0.40	0.51	85.62
Chroococcus sp.	0.32	0.00	0.48	0.38	0.51	86.13
Oscillatoria sp.	0.32	0.00	0.48	0.39	0.51	86.64
Peridinium sp.	0.00	0.26	0.47	0.39	0.49	87.13
Chaetoceros sp.	0.13	0.11	0.38	0.37	0.40	87.53
Scrippsiella sp.	0.00	0.24	0.38	0.44	0.40	87.93
Unknown diatom sp. A	0.20	0.00	0.38	0.26	0.40	88.32
Actinastrum sp.	0.18	0.00	0.38	0.35	0.39	88.72
Unknown diatom sp. 17	0.20	0.00	0.35	0.38	0.37	89.09
Gonyaulax spinifera	0.00	0.20	0.35	0.41	0.36	89.45
Crucigenia sp.	0.21	0.00	0.33	0.37	0.35	89.80
Bacteriastrum sp.	0.22	0.00	0.32	0.26	0.34	90.13

Groups 70%Grp6 & 70%Grp9

Average dissimilarity = 90.58

Species	Group 70%Grp6 Av.Abund	Group 70%Grp9 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	9.29	1.55	10.26	10.26

Unknown Cryptophyte sp.	6.29	0.00	9.11	2.16	10.05	20.31
Skeletonema costatum	3.34	4.02	4.99	1.37	5.51	25.82
Unknown diatom sp.	3.30	0.00	4.51	1.60	4.98	30.81
Thalassiosira sp.	3.51	0.61	4.47	1.02	4.94	35.74
Unknown Dinoflagellate sp.	3.01	0.00	4.40	1.23	4.86	40.60
Prorocentrum minimum	1.60	0.37	2.79	0.39	3.08	43.69
Chaetoceros subtilis	0.16	1.53	2.48	0.90	2.73	46.42
Peridinium sp.	1.80	0.26	2.39	0.82	2.64	49.06
Pyramimonas sp.	1.63	0.07	2.11	0.92	2.32	51.38
Eutreptia sp.	1.21	0.45	2.09	0.62	2.30	53.69
Nitzschia closterium	0.92	1.16	1.96	1.24	2.16	55.85
Skeletonema menezelli	1.46	0.00	1.67	0.34	1.85	57.70
Chaetoceros sp.	1.28	0.11	1.61	0.65	1.77	59.47
Leptocylindricus minimum	0.72	0.86	1.54	0.92	1.70	61.18
Peridinium aciculiferum	0.00	0.96	1.47	0.80	1.62	62.80
Nitzschia pungens	0.82	0.38	1.35	0.71	1.49	64.29
Schizothrix sp.	0.11	0.87	1.21	0.51	1.34	65.63
Chaetoceros socialis	0.00	0.85	1.12	0.80	1.24	66.87
Prorocentrum sp.	0.77	0.00	1.06	0.33	1.17	68.04
Unknown pennate diatom sp.	0.00	0.79	1.06	0.81	1.17	69.21
Eutreptiella sp.	0.69	0.00	1.03	0.35	1.14	70.35
Rhizosolenia setigera	0.51	0.41	0.98	0.75	1.08	71.43
Thalassiosira pseudonana	0.00	0.71	0.95	0.71	1.05	72.48
Nitzschia longissima	0.00	0.64	0.89	0.85	0.99	73.47
Leptocylindricus danicus	0.65	0.16	0.89	0.43	0.98	74.45
Unknown Katodinium sp.	0.54	0.00	0.89	0.28	0.98	75.43
Scenedesmus sp.	0.60	0.07	0.86	0.47	0.95	76.38
Prorocentrum micans	0.34	0.24	0.78	0.36	0.86	77.24
Ceratulina bergonii	0.00	0.49	0.72	0.40	0.79	78.04
Apedinella radians	0.50	0.00	0.67	0.43	0.74	78.78
Chaetoceros neogracile	0.00	0.50	0.66	0.58	0.73	79.51
Glenodinium sp.	0.50	0.00	0.66	0.30	0.73	80.23
Ceratium hircus	0.36	0.18	0.66	0.44	0.73	80.96
Navicula sp. large	0.47	0.00	0.65	0.44	0.72	81.68
Chaetoceros gracile	0.51	0.00	0.63	0.29	0.69	82.37
Unknown diatom sp. A	0.52	0.00	0.63	0.33	0.69	83.06
Thalassionema nitzschoides	0.14	0.40	0.63	0.55	0.69	83.75
Minutocellus sp.	0.51	0.00	0.61	0.41	0.68	84.43
Gymnodinium sp.	0.15	0.33	0.60	0.53	0.67	85.10
Unknown Vegetative cell sp.	0.31	0.00	0.56	0.27	0.61	85.71
Prorocentrum redfieldi	0.41	0.00	0.50	0.19	0.55	86.26
Unknown bluegreen sp.	0.33	0.00	0.48	0.31	0.53	86.79
Amphora sp.	0.20	0.13	0.48	0.35	0.53	87.32

Chaetoceros muelleri	0.35	0.00	0.46	0.33	0.51	87.83
Akistrodesmus sp.	0.33	0.05	0.45	0.34	0.50	88.33
Coscinodiscus sp.	0.28	0.00	0.43	0.30	0.47	88.80
Cyclotella sp.	0.00	0.31	0.42	0.41	0.47	89.27
Aphanocapsa sp.	0.36	0.00	0.41	0.34	0.46	89.73
Schroederia setigera	0.00	0.27	0.40	0.40	0.44	90.17

Groups 70%Grp5 & 70%Grp9

Average dissimilarity = 84.95

Species	Group 70%Grp5 Av.Abund	Group 70%Grp9 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.13	0.00	7.51	1.99	8.84	8.84
Unknown Cryptophyte sp.	5.10	0.00	6.98	2.14	8.22	17.06
Skeletonema costatum	7.46	4.02	6.34	1.54	7.46	24.52
Unknown diatom sp.	3.67	0.00	4.54	2.20	5.35	29.87
Thalassiosira sp.	4.15	0.61	4.40	2.00	5.18	35.04
Nitzschia closterium	3.83	1.16	3.67	1.84	4.32	39.37
Nitzschia pungens	2.56	0.38	3.11	1.24	3.66	43.03
Unknown Dinoflagellate sp.	2.35	0.00	2.84	1.28	3.34	46.37
Chaetoceros sp.	2.39	0.11	2.79	1.14	3.28	49.65
Chaetoceros subtilis	0.27	1.53	2.30	0.90	2.71	52.36
Skeletonema menezelli	2.03	0.00	2.04	0.41	2.41	54.77
Leptocylicus minimum	1.46	0.86	1.97	1.02	2.32	57.09
Pyramimonas sp.	1.39	0.07	1.87	0.78	2.20	59.29
Peridinium sp.	1.06	0.26	1.34	0.68	1.58	60.87
Peridinium aciculiferum	0.00	0.96	1.33	0.79	1.56	62.43
Thalassionema nitzschoides	0.96	0.40	1.28	0.78	1.51	63.94
Chaetoceros muelleri	1.09	0.00	1.25	0.59	1.47	65.41
Rhizosolenia setigera	0.77	0.41	1.14	0.80	1.34	66.75
Ceratium hircus	0.95	0.18	1.13	0.56	1.33	68.08
Asterionella japonica	0.98	0.00	1.08	0.57	1.27	69.35
Schizothrix sp.	0.00	0.87	1.04	0.48	1.22	70.58
Leptocylicus danicus	0.69	0.16	1.03	0.58	1.21	71.79
Chaetoceros socialis	0.00	0.85	1.03	0.79	1.21	73.00
Unknown pennate diatom sp.	0.00	0.79	0.97	0.80	1.14	74.14
Minutocellus sp.	0.83	0.00	0.90	0.54	1.06	75.20
Navicula sp. large	0.73	0.00	0.90	0.59	1.06	76.26
Thalassiosira pseudonana	0.00	0.71	0.87	0.70	1.02	77.28
Nitzschia longissima	0.00	0.64	0.81	0.84	0.96	78.24
Prorocentrum sp.	0.58	0.00	0.70	0.41	0.82	79.07
Unknown diatom sp. A	0.58	0.00	0.70	0.42	0.82	79.89

Ceratulina bergonii	0.00	0.49	0.65	0.40	0.77	80.66
Prorocentrum minimum	0.16	0.37	0.65	0.47	0.76	81.42
Eutreptia sp.	0.08	0.45	0.64	0.61	0.75	82.17
Chaetoceros neogracile	0.00	0.50	0.60	0.57	0.71	82.88
Gymnodinium sp.	0.22	0.33	0.60	0.59	0.70	83.58
Prorocentrum micans	0.32	0.24	0.55	0.54	0.65	84.23
Navicula sp. small	0.46	0.00	0.50	0.36	0.59	84.82
Chaetoceros gracile	0.36	0.00	0.45	0.20	0.54	85.36
Pyrophacus sp.	0.39	0.00	0.43	0.29	0.50	85.86
Scenedesmus sp.	0.27	0.07	0.42	0.34	0.49	86.36
Akistrodesmus sp.	0.28	0.05	0.40	0.31	0.47	86.83
Cyclotella sp.	0.00	0.31	0.39	0.41	0.46	87.28
Apedinella radians	0.30	0.00	0.38	0.37	0.45	87.73
Aphanocapsa sp.	0.40	0.00	0.38	0.37	0.45	88.18
Unknown bluegreen sp.	0.36	0.00	0.37	0.43	0.44	88.62
Schroederia setigera	0.00	0.27	0.36	0.40	0.43	89.05
Cyclotella sp. (small)	0.00	0.25	0.36	0.27	0.42	89.47
Gonyaulax polygramma	0.00	0.24	0.33	0.39	0.39	89.87
Nitzschia delicatissima	0.31	0.00	0.33	0.20	0.39	90.26

Groups 70%Grp4 & 70%Grp9

Average dissimilarity = 85.28

Species	Group 70%Grp4 Av.Abund	Group 70%Grp9 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	10.91	1.94	12.79	12.79
Unknown diatom sp. D	8.36	0.00	8.65	2.87	10.14	22.92
Unknown Cryptophyte sp.	7.43	0.00	8.11	8.67	9.51	32.44
Unknown diatom sp.	4.70	0.00	5.05	7.16	5.92	38.36
Thalassiosira sp.	4.72	0.61	4.56	3.18	5.34	43.70
Pyramimonas sp.	3.83	0.07	4.16	5.15	4.88	48.58
Nitzschia closterium	4.12	1.16	3.46	2.02	4.06	52.64
Rhizosolenia fragilissima	2.34	0.07	3.03	0.99	3.55	56.19
Chaetoceros sp.	3.08	0.11	2.91	1.02	3.41	59.60
Gymnodinium sp.	2.63	0.33	2.52	1.12	2.95	62.56
Skeletonema costatum	5.96	4.02	2.37	1.46	2.78	65.34
Apedinella radians	1.78	0.00	2.31	0.98	2.70	68.04
Nitzschia pungens	2.29	0.38	2.21	1.11	2.59	70.63
Cerataulina bergonii large	1.50	0.00	1.94	0.98	2.27	72.90
Leptocylindricus minimum	1.88	0.86	1.89	1.25	2.22	75.12
Chaetoceros subtilis	0.00	1.53	1.76	0.93	2.07	77.19
Peridinium sp.	1.50	0.26	1.45	1.07	1.70	78.89

Prorocentrum sp.	1.50	0.00	1.40	0.99	1.65	80.54
Rhizosolenia setigera	1.26	0.41	1.25	1.15	1.46	82.00
Leptocylicus danicus	1.26	0.16	1.20	1.04	1.41	83.41
Navicula sp. large	1.26	0.00	1.18	0.99	1.38	84.80
Peridinium aciculiferum	0.00	0.96	1.09	0.83	1.28	86.08
Schizothrix sp.	0.00	0.87	0.88	0.49	1.04	87.12
Chaetoceros socialis	0.00	0.85	0.87	0.82	1.02	88.14
Unknown pennate diatom sp.	0.00	0.79	0.82	0.82	0.97	89.10
Thalassiosira pseudonana	0.00	0.71	0.74	0.72	0.86	89.97
Nitzschia longissima	0.00	0.64	0.69	0.87	0.80	90.77

Groups 70%Grp7 & 70%Grp9

Average dissimilarity = 83.41

Species	Group 70%Grp7 Av.Abund	Group 70%Grp9 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	4.02	7.07	1.38	8.48	8.48
Cyclotella sp. (small)	1.79	0.25	3.87	0.75	4.63	13.11
Cyclotella sp.	1.76	0.31	3.69	0.81	4.42	17.54
Chaetoceros subtilis	0.44	1.53	3.65	0.84	4.37	21.91
Unknown pennate diatom sp.	2.07	0.79	3.64	1.12	4.36	26.27
Cyclotella sp. (large)	1.45	0.04	2.85	0.61	3.41	29.68
Thalassiosira pseudonana	1.05	0.71	2.66	0.84	3.18	32.87
Peridinium aciculiferum	0.11	0.96	2.31	0.79	2.77	35.64
Nitzschia closterium	0.08	1.16	2.27	1.09	2.72	38.35
Scenedesmus quadricauda	1.15	0.13	2.25	1.05	2.70	41.06
Gymnodinium sp.	1.01	0.33	2.19	0.98	2.63	43.68
Schroederia setigera	1.04	0.27	2.08	1.02	2.49	46.17
Eutreptia sp.	0.88	0.45	2.00	1.01	2.40	48.57
Nitzschia longissima	0.78	0.64	1.75	1.03	2.10	50.67
Scenedesmus bijinga	0.90	0.00	1.73	0.80	2.07	52.74
Thalassiosira decipiens	0.91	0.09	1.65	0.54	1.98	54.73
Schizothrix sp.	0.00	0.87	1.62	0.49	1.95	56.67
Leptocylicus minimum	0.00	0.86	1.62	0.74	1.94	58.62
Chaetoceros socialis	0.00	0.85	1.61	0.78	1.94	60.55
Thalassiosira sp.	0.10	0.61	1.39	0.56	1.66	62.21
Akistrodesmus falcatus	0.64	0.00	1.22	0.65	1.47	63.68
Ceratulina bergonii	0.00	0.49	1.10	0.39	1.32	65.00
Amphiprora sp.	0.49	0.08	1.05	0.66	1.26	66.25
Bluegreen filamentous sp.	0.41	0.00	0.95	0.58	1.14	67.39
Actinastrum hantzschii	0.49	0.00	0.95	0.48	1.13	68.52
Chaetoceros neogracile	0.00	0.50	0.94	0.57	1.12	69.65

Prorocentrum minimum	0.16	0.37	0.90	0.65	1.08	70.73
Rhizosolenia setigera	0.00	0.41	0.85	0.53	1.02	71.75
Thalassionema nitzschoides	0.00	0.40	0.76	0.49	0.92	72.66
Scenedesmus acutus	0.34	0.05	0.75	0.43	0.90	73.56
Melosira sp.	0.36	0.00	0.75	0.49	0.90	74.46
Nitzschia pungens	0.00	0.38	0.72	0.47	0.87	75.33
Crucigenia sp.	0.22	0.00	0.70	0.49	0.84	76.17
Cyclotella meneghiniana	0.40	0.00	0.69	0.27	0.83	76.99
Pleurosigma sp.	0.24	0.06	0.67	0.52	0.80	77.80
Dictyosphaerium sp.	0.46	0.00	0.64	0.39	0.77	78.56
Merismopedia punctata	0.29	0.00	0.61	0.36	0.74	79.30
Melosira nummuloides	0.25	0.03	0.58	0.41	0.70	80.00
Gonyaulax polygramma	0.00	0.24	0.57	0.39	0.69	80.69
Scrippsiella sp.	0.08	0.24	0.57	0.50	0.68	81.37
Scenedesmus sp.	0.26	0.07	0.54	0.46	0.64	82.01
Peridinium sp.	0.00	0.26	0.53	0.38	0.64	82.65
Scenedesmus acuminatus	0.26	0.07	0.51	0.46	0.61	83.26
Euglena sp.	0.09	0.20	0.46	0.39	0.55	83.81
Scenedesmus abundans	0.29	0.00	0.46	0.39	0.55	84.36
Nitzschia sp.	0.09	0.06	0.44	0.32	0.53	84.89
Prorocentrum micans	0.00	0.24	0.43	0.39	0.51	85.40
Micractinium pusillum	0.30	0.00	0.42	0.37	0.50	85.91
Gonyaulax spinifera	0.00	0.20	0.39	0.40	0.47	86.38
Tetrastrum sp.	0.24	0.00	0.38	0.40	0.45	86.83
Chaetoceros compressum	0.00	0.15	0.33	0.26	0.39	87.22
Ceratium hircus	0.00	0.18	0.33	0.30	0.39	87.62
Gonyaulax monilata	0.00	0.17	0.33	0.31	0.39	88.01
Tropodoneis lepidoptera	0.19	0.00	0.32	0.27	0.39	88.39
Kirchneriella sp.	0.11	0.00	0.31	0.27	0.37	88.76
Asterionella glacialis	0.00	0.17	0.31	0.28	0.37	89.13
Unknown chlorophyte sp.	0.18	0.00	0.30	0.27	0.36	89.49
Leptocylindricus danicus	0.00	0.16	0.30	0.32	0.35	89.85
Akistrodesmus fractus	0.10	0.00	0.29	0.27	0.35	90.20

Groups 70%Grp3 & 70%Grp10

Average dissimilarity = 97.33

Species	Group 70%Grp3 Av.Abund	Group 70%Grp10 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	8.54	1.61	8.77	8.77
Skeletonema costatum	0.16	4.06	6.89	2.58	7.08	15.85
Unknown diatom sp.	3.09	0.00	5.42	2.40	5.57	21.42

Chaetoceros subtilis	0.00	2.80	4.97	1.56	5.11	26.52
Unknown diatom sp. D	2.34	0.00	3.99	1.58	4.10	30.63
Thalassiosira sp.	2.01	0.31	3.16	1.65	3.25	33.87
Unknown Dinoflagellate sp.	1.73	0.00	3.10	0.97	3.19	37.06
Prorocentrum micans	1.61	0.00	3.09	0.55	3.18	40.24
Cyclotella sp. (small)	0.00	1.40	2.46	0.67	2.53	42.77
Scenedesmus sp.	1.47	0.00	2.41	1.15	2.47	45.24
Navicula sp. small	1.23	0.00	2.18	0.85	2.24	47.48
Schroederia setigera	0.00	1.25	2.17	1.43	2.23	49.71
Thalassiosira pseudonana	0.00	1.15	2.02	0.69	2.07	51.79
Peridinium aciculiferum	0.00	1.07	1.98	0.71	2.03	53.82
Gymnodinium sp.	0.09	1.06	1.84	0.85	1.89	55.71
Nitzschia longissima	0.00	0.91	1.65	1.20	1.70	57.41
Coscinodiscus sp.	0.83	0.00	1.50	0.57	1.55	58.95
Unknown bluegreen sp.	0.83	0.00	1.45	0.90	1.49	60.45
Nitzschia pungens	0.80	0.21	1.42	0.89	1.46	61.91
Pyramimonas sp.	0.84	0.06	1.41	0.86	1.44	63.35
Cyclotella sp.	0.00	0.79	1.33	0.53	1.37	64.72
Schizothrix sp.	0.00	0.71	1.31	0.47	1.35	66.07
Unknown pennate diatom sp.	0.00	0.72	1.28	0.72	1.31	67.38
Tetraedron sp.	0.82	0.00	1.27	0.75	1.30	68.69
Leptocylindricus minimum	0.61	0.29	1.27	0.76	1.30	69.99
Scenedesmus quadracauda	0.00	0.73	1.26	0.80	1.30	71.28
Navicula sp. large	0.66	0.00	1.26	0.65	1.29	72.57
Eutreptia sp.	0.37	0.42	1.21	0.62	1.25	73.82
Akistrodesmus sp.	0.76	0.00	1.18	0.57	1.22	75.04
Thalassiosira decipiens	0.00	0.59	1.02	0.73	1.05	76.09
Gonyaulax polygramma	0.00	0.53	0.96	0.67	0.99	77.08
Nitzschia closterium	0.20	0.40	0.90	0.64	0.93	78.01
Leptocylindricus danicus	0.27	0.20	0.80	0.50	0.82	78.82
Prorocentrum sp.	0.45	0.00	0.78	0.38	0.80	79.62
Akistrodesmus falcatus	0.00	0.46	0.76	0.56	0.78	80.40
Scenedesmus bijinga	0.00	0.43	0.75	0.50	0.77	81.16
Nitzschia sp.	0.38	0.00	0.72	0.38	0.74	81.91
Schizothrix calcicola	0.48	0.00	0.69	0.58	0.71	82.61
Euglena sp.	0.00	0.38	0.68	0.49	0.69	83.31
Thalassionema nitzschoides	0.35	0.09	0.67	0.54	0.68	83.99
Peridinium sp.	0.00	0.41	0.66	0.55	0.68	84.67
Prorocentrum minimum	0.16	0.29	0.65	0.56	0.67	85.34
Prorocentrum redfieldi	0.40	0.00	0.62	0.36	0.63	85.97
Trichodesmium sp.	0.38	0.00	0.57	0.38	0.58	86.55
Eutreptiella sp.	0.35	0.00	0.56	0.39	0.58	87.13
Aphanocapsa sp.	0.36	0.00	0.52	0.39	0.54	87.67

Melosira sp.	0.20	0.15	0.49	0.41	0.50	88.17
Chroococcus sp.	0.32	0.00	0.46	0.38	0.47	88.64
Oscillatoria sp.	0.32	0.00	0.46	0.39	0.47	89.11
Actinastrum sp.	0.18	0.08	0.45	0.43	0.46	89.57
Merismopedia punctata	0.00	0.23	0.44	0.33	0.46	90.02

Groups 70%Grp6 & 70%Grp10

Average dissimilarity = 92.62

Species	Group 70%Grp6 Av.Abund	Group 70%Grp10 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	8.82	1.59	9.53	9.53
Unknown Cryptophyte sp.	6.29	0.00	8.62	2.28	9.31	18.83
Skeletonema costatum	3.34	4.06	4.81	1.49	5.19	24.03
Thalassiosira sp.	3.51	0.31	4.40	1.05	4.75	28.78
Unknown diatom sp.	3.30	0.00	4.29	1.64	4.63	33.41
Unknown Dinoflagellate sp.	3.01	0.00	4.17	1.27	4.50	37.91
Chaetoceros subtilis	0.16	2.80	3.92	1.51	4.23	42.14
Prorocentrum minimum	1.60	0.29	2.59	0.39	2.80	44.94
Peridinium sp.	1.80	0.41	2.33	0.88	2.52	47.46
Pyramimonas sp.	1.63	0.06	2.01	0.95	2.17	49.63
Eutreptia sp.	1.21	0.42	1.98	0.63	2.14	51.76
Cyclotella sp. (small)	0.00	1.40	1.93	0.66	2.08	53.84
Schroederia setigera	0.00	1.25	1.70	1.38	1.84	55.68
Skeletonema menezelli	1.46	0.00	1.61	0.34	1.74	57.42
Thalassiosira pseudonana	0.00	1.15	1.58	0.68	1.70	59.12
Peridinium aciculiferum	0.00	1.07	1.53	0.71	1.66	60.78
Gymnodinium sp.	0.15	1.06	1.50	0.83	1.62	62.40
Chaetoceros sp.	1.28	0.00	1.46	0.61	1.58	63.98
Nitzschia closterium	0.92	0.40	1.42	0.86	1.53	65.51
Nitzschia longissima	0.00	0.91	1.29	1.17	1.39	66.89
Nitzschia pungens	0.82	0.21	1.18	0.67	1.28	68.17
Schizothrix sp.	0.11	0.71	1.09	0.48	1.18	69.35
Cyclotella sp.	0.00	0.79	1.05	0.52	1.13	70.48
Leptocylicus minimum	0.72	0.29	1.04	0.68	1.12	71.60
Prorocentrum sp.	0.77	0.00	1.01	0.33	1.09	72.69
Unknown pennate diatom sp.	0.00	0.72	1.00	0.71	1.08	73.77
Scenedesmus quadricauda	0.00	0.73	0.99	0.79	1.07	74.84
Eutreptiella sp.	0.69	0.00	0.97	0.35	1.05	75.89
Leptocylicus danicus	0.65	0.20	0.91	0.45	0.98	76.86
Unknown Katodinium sp.	0.54	0.00	0.84	0.29	0.90	77.77
Thalassiosira decipiens	0.00	0.59	0.81	0.72	0.87	78.64

Scenedesmus sp.	0.60	0.00	0.76	0.44	0.82	79.46
Gonyaulax polygramma	0.00	0.53	0.75	0.67	0.80	80.26
Apedinella radians	0.50	0.00	0.64	0.44	0.69	80.96
Glenodinium sp.	0.50	0.00	0.63	0.30	0.68	81.63
Navicula sp. large	0.47	0.00	0.62	0.44	0.67	82.30
Rhizosolenia setigera	0.51	0.06	0.61	0.53	0.66	82.96
Unknown diatom sp. A	0.52	0.00	0.60	0.33	0.65	83.61
Chaetoceros gracile	0.51	0.00	0.60	0.29	0.65	84.26
Akistrodesmus falcatus	0.00	0.46	0.60	0.55	0.65	84.91
Minutocellus sp.	0.51	0.00	0.59	0.41	0.64	85.54
Scenedesmus bijinga	0.00	0.43	0.59	0.49	0.63	86.18
Euglena sp.	0.00	0.38	0.52	0.48	0.57	86.74
Unknown Vegetative cell sp.	0.31	0.00	0.52	0.28	0.56	87.30
Prorocentrum micans	0.34	0.00	0.48	0.24	0.52	87.82
Prorocentrum redfieldi	0.41	0.00	0.47	0.19	0.51	88.33
Unknown bluegreen sp.	0.33	0.00	0.46	0.32	0.49	88.82
Ceratium hircus	0.36	0.00	0.45	0.33	0.48	89.31
Chaetoceros muelleri	0.35	0.00	0.44	0.33	0.47	89.78
Coscinodiscus sp.	0.28	0.00	0.41	0.30	0.44	90.22

Groups 70%Grp5 & 70%Grp10

Average dissimilarity = 88.68

Species	Group 70%Grp5 Av.Abund	Group 70%Grp10 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.13	0.00	7.17	2.04	8.09	8.09
Unknown Cryptophyte sp.	5.10	0.00	6.62	2.32	7.47	15.56
Skeletonema costatum	7.46	4.06	6.01	1.69	6.78	22.34
Thalassiosira sp.	4.15	0.31	4.47	2.31	5.04	27.38
Unknown diatom sp.	3.67	0.00	4.34	2.27	4.89	32.28
Nitzschia closterium	3.83	0.40	4.12	2.23	4.64	36.92
Chaetoceros subtilis	0.27	2.80	3.58	1.48	4.04	40.96
Nitzschia pungens	2.56	0.21	3.02	1.29	3.40	44.36
Unknown Dinoflagellate sp.	2.35	0.00	2.72	1.30	3.06	47.42
Chaetoceros sp.	2.39	0.00	2.68	1.13	3.03	50.45
Skeletonema menezelli	2.03	0.00	1.98	0.41	2.23	52.68
Pyramimonas sp.	1.39	0.06	1.76	0.82	1.99	54.66
Cyclotella sp. (small)	0.00	1.40	1.76	0.65	1.98	56.64
Leptocylindricus minimum	1.46	0.29	1.68	0.85	1.89	58.54
Schroederia setigera	0.00	1.25	1.55	1.35	1.75	60.29
Thalassiosira pseudonana	0.00	1.15	1.44	0.67	1.62	61.91
Peridinium aciculiferum	0.00	1.07	1.39	0.70	1.57	63.48

Peridinium sp.	1.06	0.41	1.37	0.76	1.55	65.03
Gymnodinium sp.	0.22	1.06	1.37	0.84	1.55	66.57
Chaetoceros muelleri	1.09	0.00	1.20	0.60	1.35	67.93
Nitzschia longissima	0.00	0.91	1.17	1.15	1.32	69.24
Thalassionema nitzschoides	0.96	0.09	1.04	0.64	1.18	70.42
Asterionella japonica	0.98	0.00	1.04	0.57	1.17	71.60
Leptocylindricus danicus	0.69	0.20	1.01	0.61	1.14	72.73
Cyclotella sp.	0.00	0.79	0.96	0.51	1.08	73.81
Ceratium hircus	0.95	0.00	0.95	0.48	1.07	74.88
Schizothrix sp.	0.00	0.71	0.92	0.46	1.04	75.93
Unknown pennate diatom sp.	0.00	0.72	0.91	0.70	1.03	76.95
Scenedesmus quadricauda	0.00	0.73	0.90	0.78	1.02	77.97
Rhizosolenia setigera	0.77	0.06	0.87	0.63	0.98	78.95
Minutocellus sp.	0.83	0.00	0.87	0.54	0.98	79.93
Navicula sp. large	0.73	0.00	0.86	0.60	0.97	80.90
Thalassiosira decipiens	0.00	0.59	0.74	0.71	0.83	81.73
Gonyaulax polygramma	0.00	0.53	0.68	0.66	0.76	82.49
Prorocentrum sp.	0.58	0.00	0.67	0.41	0.75	83.25
Unknown diatom sp. A	0.58	0.00	0.67	0.42	0.75	84.00
Eutreptia sp.	0.08	0.42	0.60	0.59	0.68	84.67
Prorocentrum minimum	0.16	0.29	0.55	0.43	0.63	85.30
Akistrodesmus falcatus	0.00	0.46	0.55	0.54	0.62	85.92
Scenedesmus bijinga	0.00	0.43	0.54	0.49	0.60	86.52
Navicula sp. small	0.46	0.00	0.48	0.36	0.55	87.07
Euglena sp.	0.00	0.38	0.48	0.47	0.54	87.61
Chaetoceros gracile	0.36	0.00	0.44	0.20	0.49	88.10
Pyrophacus sp.	0.39	0.00	0.41	0.29	0.47	88.56
Aphanocapsa sp.	0.40	0.00	0.37	0.37	0.42	88.98
Apedinella radians	0.30	0.00	0.37	0.37	0.41	89.39
Unknown bluegreen sp.	0.36	0.00	0.36	0.43	0.41	89.80
Scenedesmus sp.	0.27	0.00	0.34	0.29	0.38	90.18

Groups 70%Grp4 & 70%Grp10

Average dissimilarity = 88.10

Species	Group 70%Grp4 Av.Abund	Group 70%Grp10 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	10.47	1.99	11.88	11.88
Unknown diatom sp. D	8.36	0.00	8.35	2.89	9.48	21.36
Unknown Cryptophyte sp.	7.43	0.00	7.82	14.28	8.87	30.23
Unknown diatom sp.	4.70	0.00	4.86	8.68	5.52	35.75
Thalassiosira sp.	4.72	0.31	4.72	4.74	5.35	41.10

Nitzschia closterium	4.12	0.40	4.06	3.06	4.61	45.71
Pyramimonas sp.	3.83	0.06	4.00	8.22	4.54	50.26
Chaetoceros subtilis	0.00	2.80	2.98	1.56	3.38	53.64
Rhizosolenia fragilissima	2.34	0.00	2.90	0.98	3.29	56.93
Chaetoceros sp.	3.08	0.00	2.81	0.98	3.18	60.12
Gymnodinium sp.	2.63	1.06	2.56	1.34	2.90	63.02
Skeletonema costatum	5.96	4.06	2.25	1.69	2.55	65.57
Apedinella radians	1.78	0.00	2.21	0.98	2.50	68.07
Nitzschia pungens	2.29	0.21	2.12	1.08	2.41	70.48
Cerataulina bergonii large	1.50	0.00	1.85	0.98	2.11	72.58
Leptocylindricus minimum	1.88	0.29	1.75	1.07	1.99	74.57
Cyclotella sp. (small)	0.00	1.40	1.48	0.66	1.68	76.26
Peridinium sp.	1.50	0.41	1.42	1.14	1.61	77.87
Prorocentrum sp.	1.50	0.00	1.36	0.98	1.55	79.42
Schroederia setigera	0.00	1.25	1.31	1.42	1.49	80.91
Thalassiosira pseudonana	0.00	1.15	1.21	0.69	1.38	82.29
Leptocylindricus danicus	1.26	0.20	1.17	1.03	1.33	83.62
Peridinium aciculiferum	0.00	1.07	1.17	0.72	1.33	84.94
Rhizosolenia setigera	1.26	0.06	1.16	1.02	1.31	86.26
Navicula sp. large	1.26	0.00	1.15	0.98	1.30	87.56
Nitzschia longissima	0.00	0.91	0.98	1.21	1.12	88.67
Cyclotella sp.	0.00	0.79	0.81	0.52	0.92	89.59
Schizothrix sp.	0.00	0.71	0.78	0.47	0.88	90.47

Groups 70%Grp7 & 70%Grp10

Average dissimilarity = 75.44

Species	Group 70%Grp7 Av.Abund	Group 70%Grp10 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	4.06	6.41	1.43	8.49	8.49
Chaetoceros subtilis	0.44	2.80	5.19	1.33	6.88	15.37
Cyclotella sp. (small)	1.79	1.40	4.49	0.97	5.96	21.33
Cyclotella sp.	1.76	0.79	3.75	0.92	4.97	26.30
Unknown pennate diatom sp.	2.07	0.72	3.27	1.30	4.33	30.63
Thalassiosira pseudonana	1.05	1.15	3.17	0.90	4.21	34.84
Cyclotella sp. (large)	1.45	0.11	2.70	0.64	3.59	38.43
Gymnodinium sp.	1.01	1.06	2.48	1.13	3.29	41.72
Peridinium aciculiferum	0.11	1.07	2.30	0.71	3.05	44.77
Thalassiosira decipiens	0.91	0.59	2.16	0.82	2.87	47.64
Scenedesmus quadracauda	1.15	0.73	2.13	1.13	2.82	50.46
Schroederia setigera	1.04	1.25	2.11	1.17	2.80	53.26
Scenedesmus bijinga	0.90	0.43	1.85	0.90	2.45	55.71

Eutreptia sp.	0.88	0.42	1.83	1.04	2.42	58.13
Nitzschia longissima	0.78	0.91	1.76	1.13	2.33	60.45
Akistrodesmus falcatus	0.64	0.46	1.51	0.83	2.00	62.46
Schizothrix sp.	0.00	0.71	1.50	0.45	1.99	64.45
Gonyaulax polygramma	0.00	0.53	1.10	0.64	1.46	65.91
Amphiprora sp.	0.49	0.12	1.01	0.70	1.34	67.25
Bluegreen filamentous sp.	0.41	0.15	0.99	0.68	1.32	68.57
Merismopedia punctata	0.29	0.23	0.94	0.49	1.25	69.82
Nitzschia closterium	0.08	0.40	0.89	0.63	1.18	71.00
Actinastrum hantzschii	0.49	0.00	0.87	0.50	1.15	72.16
Scenedesmus acutus	0.34	0.16	0.86	0.46	1.14	73.29
Euglena sp.	0.09	0.38	0.85	0.53	1.13	74.42
Melosira sp.	0.36	0.15	0.84	0.60	1.11	75.53
Pleurosigma sp.	0.24	0.16	0.79	0.56	1.04	76.57
Scenedesmus acuminatus	0.26	0.24	0.77	0.57	1.03	77.60
Prorocentrum minimum	0.16	0.29	0.75	0.62	1.00	78.60
Peridinium sp.	0.00	0.41	0.73	0.54	0.97	79.57
Crucigenia sp.	0.22	0.10	0.72	0.57	0.96	80.53
Thalassiosira sp.	0.10	0.31	0.66	0.54	0.87	81.40
Cyclotella meneghiniana	0.40	0.00	0.65	0.28	0.86	82.26
Nostoc sp.(trichomes)	0.09	0.21	0.63	0.49	0.83	83.09
Dictyosphaerium sp.	0.46	0.00	0.61	0.39	0.81	83.90
Tropodineis lepidoptera	0.19	0.14	0.54	0.35	0.71	84.61
Scrippsiella sp.	0.08	0.18	0.53	0.41	0.70	85.31
Leptocylindricus minimum	0.00	0.29	0.51	0.39	0.67	85.98
Melosira nummuloidea	0.25	0.00	0.50	0.40	0.66	86.64
Tetrastrum sp.	0.24	0.09	0.50	0.45	0.66	87.31
Nitzschia pungens	0.00	0.21	0.44	0.41	0.59	87.89
Scenedesmus abundans	0.29	0.00	0.43	0.39	0.57	88.47
Scenedesmus sp.	0.26	0.00	0.42	0.40	0.55	89.02
Micractinium pusillum	0.30	0.00	0.40	0.38	0.53	89.55
Leptocylindricus danicus	0.00	0.20	0.37	0.32	0.49	90.04

Groups 70%Grp9 & 70%Grp10

Average dissimilarity = 69.18

Species	Group 70%Grp9 Av.Abund	Group 70%Grp10 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Chaetoceros subtilis	1.53	2.80	4.70	1.34	6.79	6.79
Skeletonema costatum	4.02	4.06	3.59	1.16	5.19	11.98
Cyclotella sp. (small)	0.25	1.40	3.28	0.73	4.74	16.72
Peridinium aciculiferum	0.96	1.07	3.05	1.00	4.41	21.13

Thalassiosira pseudonana	0.71	1.15	2.89	0.89	4.17	25.31
Schizothrix sp.	0.87	0.71	2.75	0.68	3.98	29.28
Schroederia setigera	0.27	1.25	2.56	1.33	3.71	32.99
Gymnodinium sp.	0.33	1.06	2.34	0.91	3.38	36.37
Nitzschia closterium	1.16	0.40	2.25	1.16	3.25	39.62
Unknown pennate diatom sp.	0.79	0.72	2.11	0.99	3.05	42.67
Cyclotella sp.	0.31	0.79	1.98	0.65	2.87	45.54
Nitzschia longissima	0.64	0.91	1.85	1.10	2.67	48.21
Leptocylicus minimum	0.86	0.29	1.82	0.86	2.63	50.84
Scenedesmus quadricauda	0.13	0.73	1.62	0.83	2.34	53.18
Chaetoceros socialis	0.85	0.00	1.62	0.82	2.34	55.52
Thalassiosira sp.	0.61	0.31	1.61	0.70	2.32	57.84
Gonyaulax polygramma	0.24	0.53	1.43	0.75	2.07	59.91
Eutreptia sp.	0.45	0.42	1.34	0.83	1.94	61.85
Thalassiosira decipiens	0.09	0.59	1.33	0.77	1.92	63.77
Ceratulina bergonii	0.49	0.14	1.27	0.48	1.83	65.60
Chaetoceros neogracile	0.50	0.17	1.14	0.67	1.65	67.26
Peridinium sp.	0.26	0.41	1.14	0.67	1.64	68.90
Euglena sp.	0.20	0.38	1.08	0.58	1.56	70.46
Nitzschia pungens	0.38	0.21	1.04	0.64	1.51	71.97
Prorocentrum minimum	0.37	0.29	1.03	0.74	1.49	73.45
Akistrodesmus falcatus	0.00	0.46	0.92	0.55	1.33	74.78
Scenedesmus bijinga	0.00	0.43	0.92	0.49	1.33	76.11
Rhizosolenia setigera	0.41	0.06	0.91	0.60	1.31	77.43
Thalassionema nitzschoides	0.40	0.09	0.89	0.56	1.28	78.71
Scrippsiella sp.	0.24	0.18	0.76	0.52	1.10	79.80
Leptocylicus danicus	0.16	0.20	0.64	0.46	0.93	80.73
Scenedesmus acuminatus	0.07	0.24	0.62	0.46	0.90	81.63
Merismopedia punctata	0.00	0.23	0.56	0.33	0.81	82.44
Nostoc sp.(trichomes)	0.03	0.21	0.55	0.43	0.80	83.24
Pleurosigma sp.	0.06	0.16	0.50	0.35	0.72	83.96
Prorocentrum micans	0.24	0.00	0.43	0.40	0.62	84.58
Scenedesmus acutus	0.05	0.16	0.43	0.28	0.62	85.20
Gonyaulax spinifera	0.20	0.00	0.39	0.42	0.57	85.76
Amphiprora sp.	0.08	0.12	0.35	0.43	0.51	86.27
Bluegreen filamentous sp.	0.00	0.15	0.34	0.33	0.50	86.77
Cyclotella sp. (large)	0.04	0.11	0.34	0.28	0.49	87.26
Ceratium hircus	0.18	0.00	0.33	0.31	0.48	87.74
Chaetoceros compressum	0.15	0.00	0.33	0.27	0.47	88.21
Gonyaulax monilata	0.17	0.00	0.33	0.32	0.47	88.68
Asterionella glacialis	0.17	0.00	0.31	0.28	0.44	89.13
Peridinium concinnum	0.05	0.12	0.29	0.37	0.42	89.54
Tropodoneis lepidoptera	0.00	0.14	0.29	0.23	0.42	89.96

Melosira sp.	0.00	0.15	0.28	0.34	0.40	90.37
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Groups 70%Grp3 & 70%Grp11

Average dissimilarity = 94.88

Species	Group 70%Grp3 Av.Abund	Group 70%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	0.16	5.90	9.59	1.62	10.11	10.11
Unknown Cryptophyte sp.	4.79	0.04	8.04	1.50	8.47	18.58
Unknown diatom sp.	3.09	0.00	5.14	2.15	5.42	23.99
Unknown diatom sp. D	2.34	0.00	3.79	1.50	3.99	27.99
Thalassiosira sp.	2.01	1.38	3.39	1.42	3.57	31.56
Prorocentrum micans	1.61	0.13	2.99	0.56	3.15	34.71
Unknown Dinoflagellate sp.	1.73	0.00	2.94	0.93	3.10	37.81
Prorocentrum minimum	0.16	1.59	2.49	0.97	2.62	40.44
Thalassiosira pseudonana	0.00	1.56	2.39	0.82	2.52	42.95
Eutreptia sp.	0.37	1.43	2.38	1.00	2.50	45.46
Scenedesmus sp.	1.47	0.05	2.28	1.12	2.40	47.85
Navicula sp. small	1.23	0.00	2.07	0.82	2.18	50.04
Leptocylicus minimum	0.61	0.75	1.62	0.83	1.71	51.75
Pyramimonas sp.	0.84	0.33	1.54	0.87	1.63	53.38
Coscinodiscus sp.	0.83	0.05	1.47	0.59	1.55	54.93
Unknown bluegreen sp.	0.83	0.00	1.38	0.87	1.45	56.38
Schroederia setigera	0.00	0.82	1.37	0.89	1.44	57.82
Peridinium aciculiferum	0.00	0.84	1.34	0.81	1.42	59.24
Chaetoceros subtilis	0.00	0.83	1.33	0.70	1.40	60.64
Nitzschia pungens	0.80	0.12	1.32	0.81	1.39	62.03
Thalassiosira decipiens	0.00	0.84	1.27	0.77	1.34	63.36
Unknown pennate diatom sp.	0.00	0.81	1.24	0.68	1.31	64.67
Tetraedron sp.	0.82	0.07	1.24	0.75	1.31	65.98
Navicula sp. large	0.66	0.00	1.19	0.63	1.25	67.23
Cyclotella sp.	0.00	0.83	1.19	0.50	1.25	68.49
Nitzschia longissima	0.00	0.74	1.18	0.96	1.24	69.73
Akistrodesmus sp.	0.76	0.04	1.17	0.59	1.24	70.97
Nitzschia closterium	0.20	0.62	1.11	0.91	1.17	72.14
Euglena sp.	0.00	0.69	1.05	0.44	1.10	73.24
Scrippsiella sp.	0.00	0.59	0.99	0.64	1.04	74.29
Ceratulina bergonii	0.00	0.53	0.93	0.42	0.98	75.26
Gymnodinium sp.	0.09	0.53	0.86	0.74	0.91	76.17
Merismopedia punctata	0.00	0.54	0.81	0.45	0.85	77.03
Thalassionema nitzschoides	0.35	0.20	0.79	0.57	0.83	77.86
Crucigenia sp.	0.21	0.38	0.77	0.60	0.81	78.67

Schizothrix sp.	0.00	0.49	0.74	0.42	0.78	79.45
Prorocentrum sp.	0.45	0.00	0.74	0.38	0.78	80.23
Nitzschia sp.	0.38	0.00	0.68	0.37	0.72	80.95
Schizothrix calcicola	0.48	0.00	0.66	0.57	0.69	81.64
Scenedesmus quadrauda	0.00	0.46	0.65	0.48	0.69	82.32
Akistrodesmus falcatus	0.00	0.43	0.64	0.54	0.68	83.00
Leptocylindricus danicus	0.27	0.09	0.61	0.42	0.64	83.64
Prorocentrum redfieldi	0.40	0.00	0.59	0.36	0.62	84.26
Oscillatoria sp.	0.32	0.10	0.56	0.48	0.59	84.85
Trichodesmium sp.	0.38	0.00	0.54	0.37	0.57	85.42
Chaetoceros neogracile	0.00	0.31	0.54	0.52	0.57	85.99
Eutreptiella sp.	0.35	0.00	0.53	0.38	0.56	86.55
Aphanocapsa sp.	0.36	0.00	0.50	0.38	0.53	87.08
Chroococcus sp.	0.32	0.00	0.44	0.38	0.46	87.54
Nostoc sp.(trichomes)	0.00	0.27	0.43	0.42	0.46	87.99
Peridinium sp.	0.00	0.31	0.43	0.55	0.45	88.44
Chaetoceros socialis	0.00	0.28	0.40	0.36	0.43	88.87
Scenedesmus bijinga	0.00	0.28	0.39	0.43	0.41	89.28
Unknown diatom sp. A	0.20	0.00	0.33	0.26	0.35	89.63
Actinastrum sp.	0.18	0.00	0.32	0.36	0.34	89.97
Unknown diatom sp. 17	0.20	0.00	0.31	0.38	0.33	90.30

Groups 70%Grp6 & 70%Grp11

Average dissimilarity = 89.16

Species	Group 70%Grp6 Av.Abund	Group 70%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	8.43	1.53	9.45	9.45
Unknown Cryptophyte sp.	6.29	0.04	8.17	2.11	9.17	18.62
Skeletonema costatum	3.34	5.90	6.18	1.28	6.93	25.55
Thalassiosira sp.	3.51	1.38	4.17	1.06	4.68	30.23
Unknown diatom sp.	3.30	0.00	4.10	1.59	4.60	34.82
Unknown Dinoflagellate sp.	3.01	0.00	3.97	1.23	4.45	39.28
Prorocentrum minimum	1.60	1.59	3.50	0.59	3.93	43.21
Eutreptia sp.	1.21	1.43	2.58	0.93	2.89	46.10
Peridinium sp.	1.80	0.31	2.18	0.83	2.45	48.55
Pyramimonas sp.	1.63	0.33	1.99	0.95	2.23	50.78
Thalassiosira pseudonana	0.00	1.56	1.92	0.80	2.15	52.92
Skeletonema menezelli	1.46	0.00	1.55	0.34	1.73	54.66
Nitzschia closterium	0.92	0.62	1.44	1.00	1.62	56.28
Chaetoceros sp.	1.28	0.00	1.40	0.60	1.57	57.85
Leptocylindricus minimum	0.72	0.75	1.36	0.79	1.53	59.38

Chaetoceros subtilis	0.16	0.83	1.18	0.68	1.32	60.70
Schroederia setigera	0.00	0.82	1.07	0.88	1.20	61.90
Peridinium aciculiferum	0.00	0.84	1.07	0.80	1.20	63.10
Nitzschia pungens	0.82	0.12	1.06	0.60	1.19	64.29
Thalassiosira decipiens	0.00	0.84	1.02	0.77	1.15	65.43
Unknown pennate diatom sp.	0.00	0.81	0.99	0.68	1.11	66.55
Prorocentrum sp.	0.77	0.00	0.96	0.33	1.08	67.63
Cyclotella sp.	0.00	0.83	0.96	0.49	1.08	68.71
Nitzschia longissima	0.00	0.74	0.94	0.95	1.05	69.76
Eutreptiella sp.	0.69	0.00	0.93	0.34	1.04	70.80
Euglena sp.	0.00	0.69	0.84	0.44	0.94	71.74
Unknown Katodinium sp.	0.54	0.00	0.79	0.28	0.89	72.63
Scrippsiella sp.	0.00	0.59	0.78	0.64	0.87	73.50
Scenedesmus sp.	0.60	0.05	0.77	0.47	0.87	74.37
Gymnodinium sp.	0.15	0.53	0.76	0.69	0.85	75.22
Leptocylindricus danicus	0.65	0.09	0.73	0.38	0.82	76.04
Ceratulina bergonii	0.00	0.53	0.72	0.43	0.81	76.85
Schizothrix sp.	0.11	0.49	0.68	0.45	0.76	77.61
Rhizosolenia setigera	0.51	0.16	0.67	0.55	0.75	78.36
Merismopedia punctata	0.00	0.54	0.65	0.45	0.73	79.09
Apedinella radians	0.50	0.00	0.61	0.43	0.69	79.78
Glenodinium sp.	0.50	0.00	0.60	0.30	0.67	80.45
Prorocentrum micans	0.34	0.13	0.59	0.32	0.67	81.12
Navicula sp. large	0.47	0.00	0.59	0.44	0.66	81.78
Unknown diatom sp. A	0.52	0.00	0.58	0.33	0.65	82.42
Chaetoceros gracile	0.51	0.00	0.57	0.29	0.64	83.07
Minutocellus sp.	0.51	0.00	0.56	0.41	0.63	83.70
Scenedesmus quadracauda	0.00	0.46	0.53	0.47	0.60	84.30
Akistrodesmus falcatus	0.00	0.43	0.52	0.53	0.58	84.88
Unknown Vegetative cell sp.	0.31	0.00	0.49	0.27	0.55	85.43
Ceratium hircus	0.36	0.08	0.49	0.37	0.54	85.97
Coscinodiscus sp.	0.28	0.05	0.46	0.35	0.52	86.49
Crucigenia sp.	0.00	0.38	0.46	0.47	0.52	87.01
Prorocentrum redfieldi	0.41	0.00	0.45	0.19	0.51	87.52
Unknown bluegreen sp.	0.33	0.00	0.43	0.31	0.49	88.01
Amphora sp.	0.20	0.13	0.43	0.36	0.48	88.49
Akistrodesmus sp.	0.33	0.04	0.42	0.34	0.48	88.97
Chaetoceros neogracile	0.00	0.31	0.42	0.51	0.47	89.44
Chaetoceros muelleri	0.35	0.00	0.42	0.33	0.47	89.91
Tetraedron sp.	0.30	0.07	0.39	0.35	0.44	90.35

Groups 70%Grp5 & 70%Grp11

Average dissimilarity = 84.29

Species	Group 70%Grp5 Av.Abund	Group 70%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.13	0.00	6.87	1.95	8.15	8.15
Unknown Cryptophyte sp.	5.10	0.04	6.28	2.15	7.45	15.60
Skeletonema costatum	7.46	5.90	5.56	1.34	6.59	22.20
Unknown diatom sp.	3.67	0.00	4.16	2.16	4.93	27.13
Thalassiosira sp.	4.15	1.38	3.92	1.78	4.65	31.77
Nitzschia closterium	3.83	0.62	3.76	2.02	4.46	36.23
Nitzschia pungens	2.56	0.12	2.92	1.22	3.46	39.69
Unknown Dinoflagellate sp.	2.35	0.00	2.60	1.27	3.09	42.78
Chaetoceros sp.	2.39	0.00	2.57	1.11	3.05	45.83
Skeletonema menezelli	2.03	0.00	1.90	0.41	2.26	48.09
Prorocentrum minimum	0.16	1.59	1.89	0.94	2.25	50.34
Leptocylindricus minimum	1.46	0.75	1.82	0.93	2.16	52.50
Thalassiosira pseudonana	0.00	1.56	1.76	0.79	2.09	54.58
Pyramimonas sp.	1.39	0.33	1.76	0.83	2.09	56.67
Eutreptia sp.	0.08	1.43	1.63	0.98	1.93	58.60
Peridinium sp.	1.06	0.31	1.24	0.71	1.47	60.08
Chaetoceros subtilis	0.27	0.83	1.18	0.68	1.40	61.48
Chaetoceros muelleri	1.09	0.00	1.15	0.59	1.36	62.84
Thalassionema nitzschoides	0.96	0.20	1.09	0.69	1.29	64.13
Asterionella japonica	0.98	0.00	1.00	0.57	1.19	65.32
Schroederia setigera	0.00	0.82	0.98	0.87	1.16	66.48
Peridinium aciculiferum	0.00	0.84	0.98	0.79	1.16	67.64
Ceratium hircus	0.95	0.08	0.96	0.51	1.14	68.78
Thalassiosira decipiens	0.00	0.84	0.94	0.76	1.12	69.89
Unknown pennate diatom sp.	0.00	0.81	0.91	0.68	1.08	70.97
Rhizosolenia setigera	0.77	0.16	0.89	0.64	1.06	72.03
Cyclotella sp.	0.00	0.83	0.89	0.49	1.05	73.08
Leptocylindricus danicus	0.69	0.09	0.89	0.54	1.05	74.13
Nitzschia longissima	0.00	0.74	0.86	0.94	1.02	75.15
Minutocellus sp.	0.83	0.00	0.84	0.54	0.99	76.14
Navicula sp. large	0.73	0.00	0.82	0.59	0.97	77.12
Euglena sp.	0.00	0.69	0.77	0.43	0.92	78.04
Gymnodinium sp.	0.22	0.53	0.73	0.74	0.87	78.90
Scrippsiella sp.	0.00	0.59	0.71	0.64	0.84	79.74
Ceratulina bergonii	0.00	0.53	0.65	0.42	0.78	80.52
Prorocentrum sp.	0.58	0.00	0.64	0.41	0.76	81.28
Unknown diatom sp. A	0.58	0.00	0.64	0.42	0.76	82.03
Merismopedia punctata	0.00	0.54	0.60	0.45	0.71	82.74
Schizothrix sp.	0.00	0.49	0.55	0.42	0.65	83.39

Scenedesmus quadracauda	0.00	0.46	0.49	0.47	0.58	83.98
Akistrodesmus falcatus	0.00	0.43	0.48	0.53	0.56	84.54
Navicula sp. small	0.46	0.00	0.47	0.36	0.55	85.09
Crucigenia sp.	0.00	0.38	0.42	0.47	0.50	85.60
Chaetoceros gracile	0.36	0.00	0.42	0.20	0.49	86.09
Prorocentrum micans	0.32	0.13	0.42	0.49	0.49	86.58
Pyrophacus sp.	0.39	0.00	0.40	0.29	0.47	87.05
Chaetoceros neogracile	0.00	0.31	0.38	0.51	0.45	87.51
Akistrodesmus sp.	0.28	0.04	0.37	0.32	0.44	87.95
Scenedesmus sp.	0.27	0.05	0.37	0.33	0.44	88.39
Aphanocapsa sp.	0.40	0.00	0.35	0.37	0.42	88.81
Apedinella radians	0.30	0.00	0.35	0.36	0.42	89.23
Unknown bluegreen sp.	0.36	0.00	0.35	0.43	0.41	89.64
Nostoc sp.(trichomes)	0.00	0.27	0.31	0.41	0.37	90.02

Groups 70%Grp4 & 70%Grp11

Average dissimilarity = 84.83

Species	Group 70%Grp4 Av.Abund	Group 70%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	10.04	1.94	11.83	11.83
Unknown diatom sp. D	8.36	0.00	8.03	2.74	9.47	21.30
Unknown Cryptophyte sp.	7.43	0.04	7.47	7.12	8.81	30.10
Unknown diatom sp.	4.70	0.00	4.67	6.21	5.51	35.61
Thalassiosira sp.	4.72	1.38	3.83	2.28	4.52	40.13
Nitzschia closterium	4.12	0.62	3.70	2.63	4.36	44.50
Pyramimonas sp.	3.83	0.33	3.59	3.06	4.23	48.73
Rhizosolenia fragilissima	2.34	0.00	2.78	0.97	3.27	52.00
Chaetoceros sp.	3.08	0.00	2.71	0.98	3.19	55.20
Skeletonema costatum	5.96	5.90	2.67	1.11	3.14	58.34
Gymnodinium sp.	2.63	0.53	2.38	1.18	2.80	61.14
Apedinella radians	1.78	0.00	2.11	0.97	2.49	63.63
Nitzschia pungens	2.29	0.12	2.03	1.02	2.39	66.02
Leptocylicus minimum	1.88	0.75	1.79	1.13	2.11	68.14
Cerataulina bergonii large	1.50	0.00	1.77	0.97	2.09	70.23
Prorocentrum minimum	0.00	1.59	1.56	0.95	1.84	72.07
Thalassiosira pseudonana	0.00	1.56	1.51	0.80	1.79	73.85
Eutreptia sp.	0.00	1.43	1.40	1.01	1.65	75.51
Peridinium sp.	1.50	0.31	1.35	1.12	1.59	77.10
Prorocentrum sp.	1.50	0.00	1.31	0.98	1.55	78.65
Rhizosolenia setigera	1.26	0.16	1.13	1.01	1.34	79.99
Leptocylicus danicus	1.26	0.09	1.11	0.99	1.31	81.30

Navicula sp. large	1.26	0.00	1.11	0.98	1.30	82.60
Peridinium aciculiferum	0.00	0.84	0.83	0.81	0.98	83.58
Schroederia setigera	0.00	0.82	0.83	0.90	0.98	84.56
Chaetoceros subtilis	0.00	0.83	0.82	0.71	0.97	85.54
Thalassiosira decipiens	0.00	0.84	0.81	0.78	0.96	86.49
Unknown pennate diatom sp.	0.00	0.81	0.78	0.69	0.92	87.41
Cyclotella sp.	0.00	0.83	0.77	0.49	0.91	88.32
Nitzschia longissima	0.00	0.74	0.74	0.98	0.87	89.19
Euglena sp.	0.00	0.69	0.67	0.44	0.79	89.97
Scrippsiella sp.	0.00	0.59	0.60	0.67	0.71	90.68

Groups 70%Grp7 & 70%Grp11

Average dissimilarity = 79.52

Species	Group 70%Grp7 Av.Abund	Group 70%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	5.90	8.85	1.18	11.13	11.13
Cyclotella sp.	1.76	0.83	3.57	0.87	4.49	15.62
Thalassiosira pseudonana	1.05	1.56	3.32	0.96	4.17	19.79
Cyclotella sp. (small)	1.79	0.13	3.25	0.71	4.09	23.88
Unknown pennate diatom sp.	2.07	0.81	3.20	1.16	4.03	27.91
Prorocentrum minimum	0.16	1.59	2.73	0.97	3.44	31.35
Thalassiosira sp.	0.10	1.38	2.50	0.65	3.14	34.49
Eutreptia sp.	0.88	1.43	2.49	1.08	3.13	37.61
Cyclotella sp. (large)	1.45	0.00	2.46	0.59	3.09	40.71
Thalassiosira decipiens	0.91	0.84	2.27	0.86	2.85	43.56
Scenedesmus quadricauda	1.15	0.46	2.10	1.09	2.64	46.20
Schroederia setigera	1.04	0.82	1.91	1.10	2.40	48.60
Gymnodinium sp.	1.01	0.53	1.90	1.01	2.39	50.99
Chaetoceros subtilis	0.44	0.83	1.76	0.79	2.22	53.21
Scenedesmus bijinga	0.90	0.28	1.62	0.87	2.03	55.24
Peridinium aciculiferum	0.11	0.84	1.55	0.82	1.95	57.19
Nitzschia longissima	0.78	0.74	1.55	1.04	1.95	59.14
Akistrodesmus falcatus	0.64	0.43	1.38	0.80	1.74	60.88
Merismopedia punctata	0.29	0.54	1.25	0.57	1.57	62.45
Euglena sp.	0.09	0.69	1.24	0.47	1.55	64.01
Leptocylindricus minimum	0.00	0.75	1.19	0.56	1.50	65.51
Scrippsiella sp.	0.08	0.59	1.18	0.64	1.48	66.99
Nitzschia closterium	0.08	0.62	1.10	0.87	1.38	68.37
Ceratulina bergonii	0.00	0.53	1.07	0.40	1.34	69.72
Crucigenia sp.	0.22	0.38	1.02	0.69	1.28	71.00
Bluegreen filamentous sp.	0.41	0.21	0.96	0.68	1.21	72.21

Amphiprora sp.	0.49	0.04	0.89	0.63	1.12	73.33
Actinastrum hantzschii	0.49	0.00	0.83	0.48	1.04	74.37
Schizothrix sp.	0.00	0.49	0.82	0.42	1.03	75.40
Cyclotella meneghiniana	0.40	0.10	0.74	0.32	0.93	76.33
Melosira sp.	0.36	0.00	0.65	0.49	0.81	77.14
Nostoc sp.(trichomes)	0.09	0.27	0.63	0.49	0.80	77.94
Scenedesmus acuminatus	0.26	0.19	0.62	0.53	0.77	78.71
Chaetoceros neogracile	0.00	0.31	0.61	0.49	0.77	79.48
Scenedesmus acutus	0.34	0.00	0.59	0.39	0.74	80.22
Dictyosphaerium sp.	0.46	0.00	0.58	0.39	0.73	80.95
Melosira nummuloidea	0.25	0.09	0.57	0.44	0.71	81.66
Pyramimonas sp.	0.00	0.33	0.54	0.34	0.68	82.35
Pleurosigma sp.	0.24	0.00	0.51	0.48	0.64	82.99
Peridinium sp.	0.00	0.31	0.47	0.54	0.59	83.58
Scenedesmus sp.	0.26	0.05	0.46	0.44	0.58	84.16
Chaetoceros socialis	0.00	0.28	0.45	0.35	0.56	84.72
Thalassionema nitzschoidea	0.00	0.20	0.43	0.32	0.54	85.26
Scenedesmus abundans	0.29	0.00	0.41	0.38	0.52	85.77
Peridinium trochoideum	0.10	0.14	0.39	0.39	0.49	86.26
Tetrastrum sp.	0.24	0.04	0.39	0.44	0.49	86.75
Micractinium pusillum	0.30	0.00	0.38	0.37	0.48	87.23
Selenastrum gracile	0.11	0.11	0.34	0.38	0.43	87.66
Akistrodesmus fractus	0.10	0.07	0.33	0.33	0.42	88.08
Dinobryon sp.	0.16	0.05	0.30	0.33	0.38	88.46
Tropodineis lepidoptera	0.19	0.00	0.29	0.27	0.36	88.82
Phacus sp.	0.11	0.04	0.28	0.32	0.35	89.17
Nitzschia sp.	0.09	0.00	0.27	0.26	0.35	89.51
Unknown chlorophyte sp.	0.18	0.00	0.27	0.27	0.34	89.86
Unkown C sp.	0.22	0.00	0.27	0.27	0.33	90.19

Groups 70%Grp9 & 70%Grp11

Average dissimilarity = 72.06

Species	Group 70%Grp9 Av.Abund	Group 70%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	4.02	5.90	6.57	1.07	9.12	9.12
Chaetoceros subtilis	1.53	0.83	3.39	0.90	4.70	13.82
Thalassiosira pseudonana	0.71	1.56	3.15	1.00	4.37	18.18
Thalassiosira sp.	0.61	1.38	3.12	0.79	4.33	22.51
Prorocentrum minimum	0.37	1.59	2.96	0.99	4.10	26.62
Eutreptia sp.	0.45	1.43	2.65	1.00	3.68	30.30
Peridinium aciculiferum	0.96	0.84	2.40	0.98	3.33	33.62

Leptocylindricus minimum	0.86	0.75	2.16	0.90	3.00	36.62
Schizothrix sp.	0.87	0.49	2.11	0.64	2.93	39.55
Unknown pennate diatom sp.	0.79	0.81	2.09	0.96	2.90	42.45
Nitzschia closterium	1.16	0.62	2.01	1.06	2.78	45.24
Ceratulina bergonii	0.49	0.53	1.88	0.56	2.61	47.84
Schroederia setigera	0.27	0.82	1.80	0.92	2.50	50.34
Cyclotella sp.	0.31	0.83	1.78	0.63	2.46	52.81
Chaetoceros socialis	0.85	0.28	1.72	0.85	2.39	55.19
Nitzschia longissima	0.64	0.74	1.59	1.01	2.20	57.40
Thalassiosira decipiens	0.09	0.84	1.57	0.80	2.18	59.57
Euglena sp.	0.20	0.69	1.47	0.51	2.04	61.62
Scrippsiella sp.	0.24	0.59	1.38	0.69	1.91	63.53
Gymnodinium sp.	0.33	0.53	1.25	0.79	1.74	65.27
Chaetoceros neogracile	0.50	0.31	1.24	0.73	1.72	66.99
Thalassionema nitzschoides	0.40	0.20	1.04	0.57	1.44	68.43
Rhizosolenia setigera	0.41	0.16	0.98	0.60	1.36	69.79
Merismopedia punctata	0.00	0.54	0.98	0.45	1.35	71.14
Scenedesmus quadricauda	0.13	0.46	0.95	0.56	1.32	72.46
Peridinium sp.	0.26	0.31	0.87	0.63	1.21	73.66
Nitzschia pungens	0.38	0.12	0.83	0.55	1.15	74.82
Akistrodesmus falcatus	0.00	0.43	0.77	0.53	1.07	75.89
Cyclotella sp. (small)	0.25	0.13	0.77	0.33	1.07	76.96
Gonyaulax polygramma	0.24	0.15	0.73	0.51	1.02	77.98
Crucigenia sp.	0.00	0.38	0.70	0.47	0.96	78.95
Pyramimonas sp.	0.07	0.33	0.67	0.38	0.93	79.87
Prorocentrum micans	0.24	0.13	0.58	0.52	0.80	80.67
Nostoc sp.(trichomes)	0.03	0.27	0.55	0.43	0.77	81.44
Gonyaulax spinifera	0.20	0.10	0.52	0.49	0.72	82.16
Gonyaulax monilata	0.17	0.07	0.48	0.36	0.67	82.83
Scenedesmus bijinga	0.00	0.28	0.46	0.43	0.64	83.47
Scenedesmus acuminatus	0.07	0.19	0.43	0.41	0.60	84.07
Amphora sp.	0.13	0.13	0.42	0.48	0.58	84.65
Ceratium hircus	0.18	0.08	0.40	0.36	0.55	85.20
Leptocylindricus danicus	0.16	0.09	0.38	0.38	0.53	85.73
Bluegreen filamentous sp.	0.00	0.21	0.37	0.42	0.52	86.24
Thalassiosira oestrupii	0.15	0.04	0.33	0.38	0.46	86.70
Peridinium trochoideum	0.04	0.14	0.32	0.33	0.44	87.15
Nitzschia sigma	0.03	0.15	0.32	0.30	0.44	87.58
Chaetoceros compressum	0.15	0.00	0.31	0.26	0.43	88.01
Asterionella glacialis	0.17	0.00	0.29	0.28	0.40	88.42
Thalassiosira allenii	0.05	0.10	0.26	0.31	0.36	88.78
Thalassiosira rotula	0.03	0.07	0.24	0.23	0.33	89.11
Selenastrum gracile	0.00	0.11	0.23	0.28	0.32	89.43

Thalassiosira aestivalis	0.00	0.18	0.23	0.20	0.32	89.75
Dinophysis caudata	0.07	0.10	0.23	0.37	0.32	90.07

Groups 70%Grp10 & 70%Grp11

Average dissimilarity = 70.23

Species	Group 70%Grp10 Av.Abund	Group 70%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	4.06	5.90	5.95	1.19	8.47	8.47
Chaetoceros subtilis	2.80	0.83	4.53	1.27	6.44	14.92
Thalassiosira pseudonana	1.15	1.56	3.37	1.03	4.79	19.71
Prorocentrum minimum	0.29	1.59	2.75	1.02	3.91	23.62
Cyclotella sp. (small)	1.40	0.13	2.73	0.69	3.88	27.50
Thalassiosira sp.	0.31	1.38	2.63	0.73	3.74	31.24
Peridinium aciculiferum	1.07	0.84	2.47	0.92	3.52	34.76
Eutreptia sp.	0.42	1.43	2.46	1.04	3.50	38.26
Cyclotella sp.	0.79	0.83	2.30	0.73	3.27	41.53
Gymnodinium sp.	1.06	0.53	2.09	0.96	2.98	44.51
Unknown pennate diatom sp.	0.72	0.81	1.95	0.93	2.78	47.29
Schizothrix sp.	0.71	0.49	1.93	0.60	2.75	50.04
Schroederia setigera	1.25	0.82	1.93	1.20	2.74	52.78
Thalassiosira decipiens	0.59	0.84	1.76	0.99	2.50	55.29
Scenedesmus quadricauda	0.73	0.46	1.66	0.93	2.37	57.65
Euglena sp.	0.38	0.69	1.64	0.62	2.34	59.99
Nitzschia longissima	0.91	0.74	1.57	1.07	2.23	62.22
Leptocylindricus minimum	0.29	0.75	1.46	0.69	2.09	64.31
Nitzschia closterium	0.40	0.62	1.29	0.98	1.84	66.15
Scrippsiella sp.	0.18	0.59	1.28	0.71	1.82	67.97
Akistrodesmus falcatus	0.46	0.43	1.23	0.76	1.75	69.72
Merismopedia punctata	0.23	0.54	1.23	0.56	1.75	71.47
Ceratulina bergonii	0.14	0.53	1.23	0.50	1.75	73.22
Gonyaulax polygramma	0.53	0.15	1.13	0.71	1.60	74.82
Scenedesmus bijinga	0.43	0.28	1.06	0.63	1.51	76.34
Peridinium sp.	0.41	0.31	0.96	0.74	1.36	77.70
Nostoc sp.(trichomes)	0.21	0.27	0.81	0.58	1.15	78.85
Chaetoceros neogracile	0.17	0.31	0.81	0.61	1.15	80.00
Crucigenia sp.	0.10	0.38	0.76	0.53	1.08	81.07
Scenedesmus acuminatus	0.24	0.19	0.69	0.54	0.98	82.06
Pyramimonas sp.	0.06	0.33	0.65	0.41	0.93	82.98
Bluegreen filamentous sp.	0.15	0.21	0.57	0.52	0.81	83.80
Nitzschia pungens	0.21	0.12	0.57	0.50	0.81	84.61
Thalassionema nitzschoides	0.09	0.20	0.55	0.40	0.79	85.40

Chaetoceros socialis	0.00	0.28	0.45	0.36	0.64	86.04
Leptocylindricus danicus	0.20	0.09	0.44	0.38	0.63	86.67
Rhizosolenia setigera	0.06	0.16	0.35	0.34	0.51	87.17
Pleurosigma sp.	0.16	0.00	0.34	0.29	0.49	87.66
Selenastrum gracile	0.06	0.11	0.31	0.37	0.44	88.10
Scenedesmus acutus	0.16	0.00	0.28	0.23	0.41	88.50
Crucigenia quadratus	0.09	0.07	0.27	0.31	0.39	88.89
Peridinium concinnum	0.12	0.05	0.27	0.39	0.39	89.28
Amphiprora sp.	0.12	0.04	0.27	0.39	0.38	89.66
Gonyaulax digitalis	0.06	0.09	0.26	0.37	0.37	90.03

Groups 70%Grp3 & 70%Grp8

Average dissimilarity = 94.13

Species	Group 70%Grp3 Av.Abund	Group 70%Grp8 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	7.69	1.37	8.17	8.17
Skeletonema costatum	0.16	5.07	6.45	1.53	6.85	15.02
Unknown diatom sp.	3.09	0.00	4.88	1.82	5.19	20.20
Unknown diatom sp. D	2.34	0.00	3.60	1.36	3.82	24.03
Prorocentrum micans	1.61	0.97	3.26	0.68	3.47	27.50
Schizothrix sp.	0.00	2.14	3.00	0.68	3.19	30.69
Unknown Dinoflagellate sp.	1.73	0.00	2.80	0.87	2.97	33.66
Thalassiosira sp.	2.01	0.93	2.76	1.29	2.93	36.59
Thalassionema nitzschoides	0.35	1.63	2.50	0.72	2.66	39.25
Scenedesmus sp.	1.47	0.00	2.17	1.04	2.31	41.55
Ceratulina bergonii	0.00	1.39	2.12	0.76	2.25	43.80
Leptocylindricus minimum	0.61	1.63	2.04	1.12	2.17	45.97
Navicula sp. small	1.23	0.00	1.97	0.78	2.09	48.06
Nitzschia pungens	0.80	1.11	1.88	0.97	2.00	50.06
Nitzschia closterium	0.20	1.37	1.76	0.85	1.87	51.93
Chaetoceros socialis	0.00	1.47	1.69	0.82	1.80	53.73
Chaetoceros neogracile	0.00	1.24	1.63	0.88	1.73	55.46
Unknown pennate diatom sp.	0.00	1.09	1.57	0.85	1.67	57.12
Coscinodiscus sp.	0.83	0.10	1.44	0.58	1.53	58.65
Unknown bluegreen sp.	0.83	0.00	1.31	0.82	1.39	60.04
Rhizosolenia setigera	0.00	0.93	1.30	0.79	1.39	61.43
Pyramimonas sp.	0.84	0.06	1.26	0.78	1.34	62.77
Tetraedron sp.	0.82	0.00	1.15	0.70	1.22	63.99
Navicula sp. large	0.66	0.00	1.13	0.60	1.20	65.19
Akistrodesmus sp.	0.76	0.00	1.07	0.54	1.14	66.32
Chaetoceros sp.	0.13	0.56	1.00	0.38	1.06	67.38

Ceratium hircus	0.00	0.73	0.99	0.84	1.05	68.43
Asterionella glacialis	0.00	0.87	0.98	0.67	1.04	69.47
Chaetoceros compressum	0.00	0.87	0.97	0.66	1.04	70.51
Prorocentrum minimum	0.16	0.72	0.96	0.93	1.02	71.52
Thalassiosira decipiens	0.00	0.64	0.93	0.61	0.99	72.51
Leptocylindricus danicus	0.27	0.46	0.89	0.61	0.95	73.46
Melosira sp.	0.20	0.26	0.80	0.40	0.85	74.31
Eutreptia sp.	0.37	0.14	0.80	0.41	0.85	75.16
Nitzschia longissima	0.00	0.64	0.74	0.86	0.79	75.95
Nitzschia sp.	0.38	0.05	0.71	0.40	0.75	76.70
Prorocentrum sp.	0.45	0.00	0.70	0.37	0.74	77.44
Peridinium sp.	0.00	0.41	0.67	0.53	0.71	78.16
Schizothrix calcicola	0.48	0.00	0.62	0.56	0.66	78.82
Chaetoceros subtilis	0.00	0.59	0.60	0.54	0.64	79.46
Prorocentrum redfieldi	0.40	0.00	0.56	0.35	0.59	80.05
Amphora sp.	0.00	0.41	0.53	0.42	0.56	80.61
Trichodesmium sp.	0.38	0.00	0.51	0.36	0.54	81.16
Eutreptiella sp.	0.35	0.00	0.51	0.37	0.54	81.69
Aphanocapsa sp.	0.36	0.00	0.47	0.37	0.50	82.20
Pleurosigma sp.	0.09	0.27	0.47	0.53	0.50	82.70
Thalassiosira pseudonana	0.00	0.37	0.42	0.39	0.44	83.14
Chroococcus sp.	0.32	0.00	0.42	0.37	0.44	83.58
Oscillatoria sp.	0.32	0.00	0.41	0.38	0.44	84.02
Gymnodinium sp.	0.09	0.25	0.41	0.54	0.44	84.46
Chaetoceros curvisetus	0.00	0.43	0.40	0.33	0.42	84.88
Gonyaulax polygramma	0.00	0.22	0.38	0.35	0.41	85.29
Chaetoceros lorenzianum	0.00	0.32	0.37	0.43	0.40	85.69
Thalassiosira oestrupii	0.00	0.30	0.37	0.50	0.40	86.08
Peridinium tuba	0.00	0.27	0.34	0.48	0.36	86.44
Gonyaulax monilata	0.00	0.19	0.33	0.35	0.35	86.79
Unknown diatom sp. A	0.20	0.00	0.32	0.25	0.34	87.13
Rhizosolenia delicatula	0.00	0.26	0.32	0.42	0.34	87.47
Actinastrum sp.	0.18	0.00	0.31	0.34	0.33	87.80
Unknown diatom sp. 17	0.20	0.00	0.30	0.37	0.32	88.11
Scrippsiella sp.	0.00	0.24	0.30	0.43	0.31	88.43
Thalassiothrix frauenfeldianum	0.00	0.18	0.29	0.32	0.30	88.73
Crucigenia sp.	0.21	0.00	0.28	0.36	0.30	89.03
Bacteriastrum sp.	0.22	0.00	0.28	0.26	0.30	89.32
Gonyaulax digitalis	0.00	0.20	0.28	0.30	0.30	89.62
Rhizosolenia calcar-avis	0.00	0.22	0.28	0.41	0.29	89.91
Coscinosira polychorda	0.00	0.21	0.27	0.36	0.29	90.20

Groups 70%Grp6 & 70%Grp8

Average dissimilarity = 90.82

Species	Group 70%Grp6 Av.Abund	Group 70%Grp8 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	8.01	1.43	8.82	8.82
Unknown Cryptophyte sp.	6.29	0.00	7.81	1.91	8.60	17.43
Skeletonema costatum	3.34	5.07	5.22	1.26	5.74	23.17
Unknown diatom sp.	3.30	0.00	3.90	1.48	4.29	27.46
Thalassiosira sp.	3.51	0.93	3.79	0.95	4.17	31.63
Unknown Dinoflagellate sp.	3.01	0.00	3.77	1.16	4.16	35.79
Prorocentrum minimum	1.60	0.72	2.57	0.42	2.83	38.62
Schizothrix sp.	0.11	2.14	2.47	0.68	2.72	41.34
Peridinium sp.	1.80	0.41	2.14	0.86	2.36	43.70
Thalassionema nitzschoides	0.14	1.63	2.04	0.73	2.25	45.94
Pyramimonas sp.	1.63	0.06	1.82	0.89	2.01	47.95
Nitzschia closterium	0.92	1.37	1.81	0.98	1.99	49.94
Leptocylicus minimum	0.72	1.63	1.77	1.12	1.95	51.90
Chaetoceros sp.	1.28	0.56	1.75	0.67	1.92	53.82
Ceratulina bergonii	0.00	1.39	1.68	0.81	1.85	55.67
Eutreptia sp.	1.21	0.14	1.62	0.52	1.79	57.45
Nitzschia pungens	0.82	1.11	1.61	0.86	1.77	59.22
Skeletonema menezelli	1.46	0.00	1.47	0.33	1.62	60.85
Chaetoceros socialis	0.00	1.47	1.42	0.81	1.56	62.41
Prorocentrum micans	0.34	0.97	1.40	0.78	1.54	63.95
Chaetoceros neogracile	0.00	1.24	1.33	0.88	1.47	65.42
Unknown pennate diatom sp.	0.00	1.09	1.25	0.86	1.38	66.80
Rhizosolenia setigera	0.51	0.93	1.25	0.92	1.37	68.17
Ceratium hircus	0.36	0.73	1.05	0.82	1.16	69.33
Leptocylicus danicus	0.65	0.46	1.00	0.55	1.10	70.43
Prorocentrum sp.	0.77	0.00	0.92	0.32	1.01	71.44
Eutreptiella sp.	0.69	0.00	0.88	0.33	0.97	72.41
Asterionella glacialis	0.00	0.87	0.82	0.66	0.91	73.31
Chaetoceros compressum	0.00	0.87	0.82	0.66	0.90	74.22
Unknown Katodinium sp.	0.54	0.00	0.76	0.27	0.83	75.05
Thalassiosira decipiens	0.00	0.64	0.74	0.63	0.81	75.86
Scenedesmus sp.	0.60	0.00	0.69	0.43	0.76	76.63
Amphora sp.	0.20	0.41	0.66	0.47	0.72	77.35
Chaetoceros subtilis	0.16	0.59	0.65	0.48	0.72	78.07
Nitzschia longissima	0.00	0.64	0.62	0.86	0.69	78.75
Apedinella radians	0.50	0.00	0.58	0.42	0.64	79.39
Chaetoceros gracile	0.51	0.05	0.58	0.30	0.63	80.03
Glenodinium sp.	0.50	0.00	0.57	0.29	0.63	80.65

Navicula sp. large	0.47	0.00	0.56	0.43	0.62	81.27
Unknown diatom sp. A	0.52	0.00	0.55	0.32	0.60	81.88
Minutocellus sp.	0.51	0.00	0.54	0.40	0.59	82.47
Coscinodiscus sp.	0.28	0.10	0.50	0.38	0.55	83.02
Unknown Vegetative cell sp.	0.31	0.00	0.47	0.26	0.51	83.53
Melosira sp.	0.00	0.26	0.44	0.32	0.49	84.02
Prorocentrum redfieldi	0.41	0.00	0.43	0.19	0.48	84.50
Unknown bluegreen sp.	0.33	0.00	0.41	0.30	0.45	84.95
Chaetoceros muelleri	0.35	0.00	0.40	0.32	0.44	85.39
Gymnodinium sp.	0.15	0.25	0.39	0.46	0.43	85.82
Pleurosigma sp.	0.08	0.27	0.38	0.47	0.42	86.24
Aphanocapsa sp.	0.36	0.00	0.36	0.33	0.40	86.64
Thalassiosira pseudonana	0.00	0.37	0.35	0.39	0.39	87.02
Akistrodesmus sp.	0.33	0.00	0.35	0.29	0.38	87.41
Chaetoceros curvisetus	0.00	0.43	0.35	0.33	0.38	87.79
Pyrophacus sp.	0.26	0.00	0.33	0.25	0.37	88.16
Chaetoceros lorenzianum	0.00	0.32	0.31	0.43	0.35	88.50
Thalassiosira oestrupii	0.00	0.30	0.31	0.49	0.34	88.84
Prorocentrum gracile	0.20	0.11	0.31	0.29	0.34	89.18
Tetraedron sp.	0.30	0.00	0.31	0.30	0.34	89.52
Gonyaulax polygramma	0.00	0.22	0.30	0.35	0.33	89.85
Navicula sp. small	0.21	0.00	0.30	0.28	0.33	90.18

Groups 70%Grp5 & 70%Grp8

Average dissimilarity = 83.97

Species	Group 70%Grp5 Av.Abund	Group 70%Grp8 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.13	0.00	6.54	1.81	7.79	7.79
Unknown Cryptophyte sp.	5.10	0.00	6.02	1.93	7.17	14.96
Skeletonema costatum	7.46	5.07	5.95	1.18	7.09	22.05
Unknown diatom sp.	3.67	0.00	3.96	1.97	4.71	26.76
Thalassiosira sp.	4.15	0.93	3.68	1.63	4.38	31.14
Nitzschia closterium	3.83	1.37	3.37	1.50	4.01	35.15
Nitzschia pungens	2.56	1.11	2.65	1.16	3.15	38.30
Chaetoceros sp.	2.39	0.56	2.53	1.06	3.02	41.32
Unknown Dinoflagellate sp.	2.35	0.00	2.48	1.22	2.95	44.27
Schizothrix sp.	0.00	2.14	2.24	0.66	2.67	46.95
Thalassionema nitzschoides	0.96	1.63	2.06	0.83	2.45	49.39
Leptocylindricus minimum	1.46	1.63	1.97	1.14	2.35	51.74
Skeletonema menezelli	2.03	0.00	1.82	0.40	2.16	53.90
Pyramimonas sp.	1.39	0.06	1.61	0.76	1.91	55.82

Ceratulina bergonii	0.00	1.39	1.54	0.81	1.83	57.65
Ceratium hircus	0.95	0.73	1.37	0.85	1.63	59.28
Chaetoceros socialis	0.00	1.47	1.32	0.80	1.58	60.86
Rhizosolenia setigera	0.77	0.93	1.28	0.95	1.53	62.39
Peridinium sp.	1.06	0.41	1.28	0.75	1.52	63.91
Chaetoceros neogracile	0.00	1.24	1.24	0.87	1.47	65.38
Unknown pennate diatom sp.	0.00	1.09	1.15	0.85	1.37	66.76
Prorocentrum micans	0.32	0.97	1.11	1.03	1.33	68.08
Chaetoceros muelleri	1.09	0.00	1.10	0.58	1.31	69.39
Leptocylindricus danicus	0.69	0.46	1.02	0.67	1.22	70.60
Asterionella japonica	0.98	0.00	0.95	0.56	1.14	71.74
Prorocentrum minimum	0.16	0.72	0.82	0.71	0.98	72.72
Minutocellus sp.	0.83	0.00	0.80	0.53	0.95	73.67
Navicula sp. large	0.73	0.00	0.78	0.58	0.93	74.60
Asterionella glacialis	0.00	0.87	0.77	0.66	0.92	75.51
Chaetoceros compressum	0.00	0.87	0.77	0.66	0.91	76.42
Chaetoceros subtilis	0.27	0.59	0.72	0.48	0.85	77.28
Thalassiosira decipiens	0.00	0.64	0.68	0.63	0.81	78.09
Prorocentrum sp.	0.58	0.00	0.61	0.40	0.73	78.81
Unknown diatom sp. A	0.58	0.00	0.61	0.41	0.72	79.53
Nitzschia longissima	0.00	0.64	0.58	0.85	0.69	80.23
Amphora sp.	0.08	0.41	0.48	0.48	0.57	80.80
Navicula sp. small	0.46	0.00	0.44	0.35	0.53	81.33
Chaetoceros gracile	0.36	0.05	0.43	0.21	0.51	81.84
Gymnodinium sp.	0.22	0.25	0.41	0.53	0.49	82.32
Melosira sp.	0.00	0.26	0.40	0.32	0.47	82.79
Pyrophacus sp.	0.39	0.00	0.38	0.29	0.45	83.25
Guinardia flaccida	0.22	0.15	0.37	0.38	0.45	83.69
Aphanocapsa sp.	0.40	0.00	0.34	0.36	0.40	84.10
Apedinella radians	0.30	0.00	0.33	0.36	0.40	84.49
Unknown bluegreen sp.	0.36	0.00	0.33	0.42	0.39	84.89
Thalassiosira pseudonana	0.00	0.37	0.33	0.39	0.39	85.28
Chaetoceros curvisetus	0.00	0.43	0.33	0.33	0.39	85.67
Scenedesmus sp.	0.27	0.00	0.31	0.28	0.36	86.03
Akistrodesmus sp.	0.28	0.00	0.31	0.27	0.36	86.39
Nitzschia delicatissima	0.31	0.00	0.29	0.20	0.35	86.75
Chaetoceros lorenzianum	0.00	0.32	0.29	0.43	0.35	87.09
Pleurosigma sp.	0.00	0.27	0.29	0.46	0.35	87.44
Thalassiosira oestrupii	0.00	0.30	0.29	0.49	0.34	87.79
Eutreptia sp.	0.08	0.14	0.28	0.32	0.34	88.12
Unknown diatom sp. 17	0.22	0.00	0.28	0.28	0.33	88.45
Gonyaulax polygramma	0.00	0.22	0.27	0.35	0.33	88.78
Peridinium tuba	0.00	0.27	0.26	0.48	0.31	89.09

Hemiaulis hauckii	0.10	0.20	0.26	0.41	0.30	89.39
Polykrikos sp.	0.26	0.00	0.25	0.20	0.30	89.69
Prorocentrum gracile	0.13	0.11	0.24	0.30	0.29	89.98
Rhizosolenia delicatula	0.00	0.26	0.24	0.42	0.29	90.27

Groups 70%Grp4 & 70%Grp8

Average dissimilarity = 85.40

Species	Group 70%Grp4 Av.Abund	Group 70%Grp8 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	9.56	1.81	11.19	11.19
Unknown diatom sp. D	8.36	0.00	7.67	2.49	8.98	20.17
Unknown Cryptophyte sp.	7.43	0.00	7.16	4.68	8.39	28.56
Unknown diatom sp.	4.70	0.00	4.46	4.32	5.22	33.78
Thalassiosira sp.	4.72	0.93	3.78	2.13	4.43	38.21
Pyramimonas sp.	3.83	0.06	3.68	3.95	4.31	42.52
Skeletonema costatum	5.96	5.07	3.34	1.38	3.91	46.43
Nitzschia closterium	4.12	1.37	3.16	1.61	3.70	50.12
Chaetoceros sp.	3.08	0.56	2.67	1.01	3.13	53.25
Rhizosolenia fragilissima	2.34	0.11	2.63	0.95	3.08	56.33
Gymnodinium sp.	2.63	0.25	2.23	1.03	2.62	58.94
Nitzschia pungens	2.29	1.11	2.06	1.14	2.41	61.35
Apedinella radians	1.78	0.00	2.01	0.94	2.35	63.70
Schizothrix sp.	0.00	2.14	1.95	0.67	2.28	65.98
Leptocylicus minimum	1.88	1.63	1.82	1.31	2.13	68.12
Cerataulina bergonii large	1.50	0.00	1.69	0.94	1.98	70.09
Thalassionema nitzschoides	0.00	1.63	1.57	0.75	1.84	71.93
Peridinium sp.	1.50	0.41	1.32	1.15	1.54	73.47
Ceratulina bergonii	0.00	1.39	1.31	0.89	1.54	75.01
Prorocentrum sp.	1.50	0.00	1.26	0.96	1.47	76.49
Rhizosolenia setigera	1.26	0.93	1.19	1.13	1.39	77.88
Chaetoceros socialis	0.00	1.47	1.18	0.81	1.38	79.26
Leptocylicus danicus	1.26	0.46	1.10	1.08	1.29	80.55
Chaetoceros neogracile	0.00	1.24	1.08	0.90	1.26	81.81
Navicula sp. large	1.26	0.00	1.06	0.96	1.24	83.05
Unknown pennate diatom sp.	0.00	1.09	0.99	0.89	1.16	84.21
Prorocentrum micans	0.00	0.97	0.88	0.99	1.04	85.25
Asterionella glacialis	0.00	0.87	0.68	0.66	0.80	86.05
Chaetoceros compressum	0.00	0.87	0.68	0.66	0.80	86.85
Ceratium hircus	0.00	0.73	0.65	0.85	0.76	87.60
Prorocentrum minimum	0.00	0.72	0.59	0.94	0.69	88.29
Thalassiosira decipiens	0.00	0.64	0.58	0.67	0.68	88.97

Nitzschia longissima	0.00	0.64	0.51	0.87	0.60	89.57
Chaetoceros subtilis	0.00	0.59	0.44	0.54	0.51	90.08

Groups 70%Grp7 & 70%Grp8

Average dissimilarity = 88.63

Species	Group 70%Grp7 Av.Abund	Group 70%Grp8 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	5.07	6.84	1.37	7.72	7.72
Schizothrix sp.	0.00	2.14	3.32	0.66	3.75	11.47
Cyclotella sp. (small)	1.79	0.00	3.03	0.66	3.42	14.90
Cyclotella sp.	1.76	0.00	2.95	0.69	3.33	18.22
Thalassionema nitzschoides	0.00	1.63	2.92	0.67	3.30	21.52
Unknown pennate diatom sp.	2.07	1.09	2.88	1.05	3.25	24.78
Ceratulina bergonii	0.00	1.39	2.40	0.68	2.71	27.48
Cyclotella sp. (large)	1.45	0.00	2.34	0.56	2.64	30.12
Leptocylicus minimum	0.00	1.63	2.12	1.09	2.39	32.51
Thalassiosira decipiens	0.91	0.64	1.97	0.71	2.23	34.74
Scenedesmus quadricauda	1.15	0.06	1.87	0.97	2.11	36.85
Thalassiosira pseudonana	1.05	0.37	1.86	0.62	2.10	38.95
Nitzschia closterium	0.08	1.37	1.85	0.84	2.09	41.05
Chaetoceros socialis	0.00	1.47	1.82	0.81	2.05	43.10
Gymnodinium sp.	1.01	0.25	1.79	0.88	2.02	45.11
Chaetoceros neogracile	0.00	1.24	1.79	0.86	2.02	47.13
Schroederia setigera	1.04	0.09	1.66	0.94	1.87	49.00
Eutreptia sp.	0.88	0.14	1.65	0.86	1.87	50.87
Prorocentrum micans	0.00	0.97	1.52	0.94	1.71	52.58
Scenedesmus bijinga	0.90	0.06	1.48	0.77	1.67	54.25
Nitzschia pungens	0.00	1.11	1.48	0.69	1.67	55.92
Rhizosolenia setigera	0.00	0.93	1.47	0.73	1.65	57.57
Thalassiosira sp.	0.10	0.93	1.44	0.65	1.62	59.19
Nitzschia longissima	0.78	0.64	1.38	0.94	1.55	60.74
Melosira sp.	0.36	0.26	1.16	0.48	1.31	62.06
Chaetoceros subtilis	0.44	0.59	1.15	0.68	1.30	63.36
Ceratium hircus	0.00	0.73	1.08	0.82	1.22	64.58
Akistrodesmus falcatus	0.64	0.05	1.06	0.64	1.19	65.77
Asterionella glacialis	0.00	0.87	1.05	0.66	1.18	66.96
Chaetoceros compressum	0.00	0.87	1.05	0.65	1.18	68.14
Prorocentrum minimum	0.16	0.72	1.02	0.91	1.15	69.29
Chaetoceros sp.	0.00	0.56	1.01	0.32	1.14	70.43
Amphiprora sp.	0.49	0.21	0.93	0.67	1.05	71.49
Bluegreen filamentous sp.	0.41	0.06	0.82	0.56	0.93	72.41

Actinastrum hantzschii	0.49	0.00	0.79	0.46	0.89	73.30
Peridinium sp.	0.00	0.41	0.77	0.50	0.87	74.17
Pleurosigma sp.	0.24	0.27	0.77	0.60	0.86	75.03
Merismopedia punctata	0.29	0.09	0.65	0.39	0.73	75.77
Melosira nummuloides	0.25	0.13	0.59	0.45	0.67	76.43
Leptocylindricus danicus	0.00	0.46	0.58	0.57	0.66	77.09
Amphora sp.	0.00	0.41	0.58	0.40	0.66	77.75
Cyclotella meneghiniana	0.40	0.00	0.58	0.26	0.66	78.41
Crucigenia sp.	0.22	0.00	0.56	0.44	0.63	79.04
Scenedesmus acutus	0.34	0.00	0.56	0.38	0.63	79.67
Dictyosphaerium sp.	0.46	0.00	0.55	0.38	0.62	80.29
Scrippsiella sp.	0.08	0.24	0.44	0.49	0.50	80.79
Gonyaulax polygramma	0.00	0.22	0.44	0.34	0.49	81.28
Nostoc sp.(trichomes)	0.09	0.17	0.43	0.41	0.48	81.77
Chaetoceros curvisetus	0.00	0.43	0.42	0.33	0.48	82.24
Thalassiosira oestrupii	0.00	0.30	0.40	0.49	0.46	82.70
Chaetoceros lorenzianum	0.00	0.32	0.40	0.43	0.45	83.15
Scenedesmus abundans	0.29	0.00	0.39	0.37	0.44	83.59
Gonyaulax monilata	0.00	0.19	0.38	0.33	0.43	84.02
Scenedesmus sp.	0.26	0.00	0.38	0.39	0.42	84.45
Peridinium tuba	0.00	0.27	0.37	0.47	0.41	84.86
Micractinium pusillum	0.30	0.00	0.36	0.36	0.41	85.27
Tropodineis lepidoptera	0.19	0.08	0.36	0.32	0.40	85.67
Scenedesmus acuminatus	0.26	0.00	0.35	0.39	0.40	86.07
Rhizosolenia delicatula	0.00	0.26	0.35	0.41	0.39	86.46
Nitzschia sp.	0.09	0.05	0.35	0.28	0.39	86.85
Thalassiothrix frauenfeldianum	0.00	0.18	0.32	0.31	0.37	87.21
Tetrastrum sp.	0.24	0.00	0.32	0.39	0.36	87.58
Peridinium aciculiferum	0.11	0.06	0.32	0.32	0.36	87.94
Gonyaulax digitalis	0.00	0.20	0.31	0.29	0.35	88.29
Rhizosolenia calcar-avis	0.00	0.22	0.30	0.40	0.34	88.62
Coscinosira polychorda	0.00	0.21	0.30	0.35	0.33	88.96
Coscinodiscus sp.	0.00	0.10	0.27	0.24	0.31	89.26
Hemiaulis hauckii	0.00	0.20	0.26	0.36	0.29	89.56
Unknown chlorophyte sp.	0.18	0.00	0.26	0.26	0.29	89.85
Unkown C sp.	0.22	0.00	0.25	0.27	0.29	90.13

Groups 70%Grp9 & 70%Grp8

Average dissimilarity = 76.77

Species	Group 70%Grp9 Av.Abund	Group 70%Grp8 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
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Skeletonema costatum	4.02	5.07	6.15	1.18	8.01	8.01
Schizothrix sp.	0.87	2.14	4.20	0.81	5.47	13.48
Chaetoceros subtilis	1.53	0.59	3.36	0.75	4.38	17.86
Thalassionema nitzschoides	0.40	1.63	3.15	0.68	4.10	21.96
Ceratulina bergonii	0.49	1.39	2.79	0.69	3.64	25.60
Nitzschia closterium	1.16	1.37	2.64	1.15	3.44	29.04
Chaetoceros socialis	0.85	1.47	2.49	1.06	3.24	32.28
Leptocylicus minimum	0.86	1.63	2.47	1.08	3.21	35.50
Unknown pennate diatom sp.	0.79	1.09	2.17	0.90	2.83	38.33
Thalassiosira sp.	0.61	0.93	2.08	0.75	2.72	41.04
Peridinium aciculiferum	0.96	0.06	2.08	0.71	2.71	43.76
Chaetoceros neogracile	0.50	1.24	2.07	0.93	2.69	46.45
Nitzschia pungens	0.38	1.11	1.86	0.81	2.43	48.88
Rhizosolenia setigera	0.41	0.93	1.78	0.82	2.31	51.19
Prorocentrum micans	0.24	0.97	1.69	0.97	2.20	53.39
Thalassiosira pseudonana	0.71	0.37	1.47	0.75	1.92	55.31
Nitzschia longissima	0.64	0.64	1.36	0.91	1.77	57.08
Ceratium hircus	0.18	0.73	1.29	0.85	1.68	58.76
Chaetoceros compressum	0.15	0.87	1.29	0.69	1.68	60.44
Asterionella glacialis	0.17	0.87	1.27	0.71	1.66	62.10
Chaetoceros sp.	0.11	0.56	1.25	0.36	1.63	63.73
Thalassiosira decipiens	0.09	0.64	1.23	0.58	1.61	65.34
Prorocentrum minimum	0.37	0.72	1.19	0.95	1.55	66.89
Peridinium sp.	0.26	0.41	1.11	0.60	1.45	68.34
Eutreptia sp.	0.45	0.14	0.96	0.60	1.25	69.59
Gonyaulax polygramma	0.24	0.22	0.87	0.49	1.13	70.72
Melosira sp.	0.00	0.26	0.84	0.30	1.09	71.81
Gymnodinium sp.	0.33	0.25	0.83	0.58	1.08	72.89
Leptocylicus danicus	0.16	0.46	0.79	0.64	1.03	73.92
Amphora sp.	0.13	0.41	0.77	0.48	1.00	74.92
Gonyaulax monilata	0.17	0.19	0.65	0.44	0.85	75.77
Schroederia setigera	0.27	0.09	0.65	0.44	0.85	76.62
Scrippsiella sp.	0.24	0.24	0.63	0.59	0.83	77.44
Thalassiosira oestrupii	0.15	0.30	0.60	0.57	0.78	78.23
Cyclotella sp. (small)	0.25	0.00	0.55	0.26	0.72	78.95
Cyclotella sp.	0.31	0.00	0.55	0.39	0.72	79.67
Pleurosigma sp.	0.06	0.27	0.54	0.50	0.70	80.37
Chaetoceros curvisetus	0.06	0.43	0.52	0.37	0.68	81.04
Chaetoceros lorenzianum	0.06	0.32	0.50	0.45	0.65	81.69
Peridinium tuba	0.08	0.27	0.49	0.54	0.63	82.32
Gonyaulax digitalis	0.04	0.20	0.38	0.33	0.49	82.82
Navicula sp.	0.08	0.15	0.37	0.43	0.49	83.30
Rhizosolenia delicatula	0.00	0.26	0.37	0.41	0.49	83.79

Scenedesmus quadracauda	0.13	0.06	0.37	0.33	0.48	84.28
Rhizosolenia calcar-avis	0.03	0.22	0.36	0.43	0.47	84.74
Amphiprora sp.	0.08	0.21	0.36	0.51	0.47	85.21
Gonyaulax spinifera	0.20	0.00	0.35	0.39	0.46	85.67
Thalassiothrix frauenfeldianum	0.00	0.18	0.35	0.31	0.46	86.13
Dictyocha fibula	0.08	0.11	0.32	0.37	0.42	86.56
Coscinosira polychorda	0.00	0.21	0.32	0.36	0.41	86.97
Ebria tripartita	0.07	0.16	0.31	0.43	0.41	87.38
Euglena sp.	0.20	0.00	0.31	0.30	0.41	87.79
Nostoc sp.(trichomes)	0.03	0.17	0.31	0.36	0.40	88.19
Coscinodiscus sp.	0.00	0.10	0.31	0.24	0.40	88.59
Rhizosolenia alata	0.03	0.19	0.29	0.44	0.38	88.96
Peridinium concinum	0.05	0.19	0.29	0.39	0.37	89.34
Nitzschia sigma	0.03	0.19	0.29	0.37	0.37	89.71
Hemiaulis hauckii	0.00	0.20	0.28	0.36	0.36	90.07

Groups 70%Grp10 & 70%Grp8

Average dissimilarity = 81.67

Species	Group 70%Grp10 Av.Abund	Group 70%Grp8 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	4.06	5.07	5.67	1.34	6.94	6.94
Chaetoceros subtilis	2.80	0.59	4.77	1.18	5.84	12.78
Schizothrix sp.	0.71	2.14	3.90	0.81	4.78	17.55
Thalassionema nitzschoides	0.09	1.63	2.89	0.71	3.54	21.09
Cyclotella sp. (small)	1.40	0.00	2.52	0.63	3.08	24.18
Ceratulina bergonii	0.14	1.39	2.36	0.75	2.88	27.06
Thalassiosira pseudonana	1.15	0.37	2.22	0.71	2.72	29.78
Leptocylicus minimum	0.29	1.63	2.18	1.13	2.67	32.45
Schroederia setigera	1.25	0.09	2.16	1.20	2.65	35.10
Peridinium aciculiferum	1.07	0.06	2.06	0.66	2.53	37.63
Unknown pennate diatom sp.	0.72	1.09	2.03	0.98	2.48	40.11
Nitzschia closterium	0.40	1.37	2.01	0.95	2.46	42.57
Gymnodinium sp.	1.06	0.25	1.89	0.80	2.31	44.88
Chaetoceros socialis	0.00	1.47	1.84	0.82	2.26	47.14
Chaetoceros neogracile	0.17	1.24	1.84	0.91	2.26	49.40
Nitzschia pungens	0.21	1.11	1.65	0.80	2.03	51.42
Thalassiosira sp.	0.31	0.93	1.60	0.75	1.96	53.38
Nitzschia longissima	0.91	0.64	1.57	0.97	1.92	55.30
Prorocentrum micans	0.00	0.97	1.53	0.98	1.87	57.18
Rhizosolenia setigera	0.06	0.93	1.48	0.80	1.82	58.99
Thalassiosira decipiens	0.59	0.64	1.48	0.82	1.81	60.81

Cyclotella sp.	0.79	0.00	1.36	0.50	1.67	62.48
Scenedesmus quadrauda	0.73	0.06	1.32	0.76	1.61	64.09
Gonyaulax polygramma	0.53	0.22	1.19	0.68	1.46	65.54
Peridinium sp.	0.41	0.41	1.12	0.71	1.37	66.92
Prorocentrum minimum	0.29	0.72	1.10	0.97	1.34	68.26
Ceratium hircus	0.00	0.73	1.09	0.85	1.34	69.60
Asterionella glacialis	0.00	0.87	1.07	0.67	1.30	70.90
Chaetoceros compressum	0.00	0.87	1.06	0.67	1.30	72.20
Chaetoceros sp.	0.00	0.56	1.01	0.34	1.24	73.44
Eutreptia sp.	0.42	0.14	0.90	0.59	1.10	74.55
Melosira sp.	0.15	0.26	0.88	0.40	1.07	75.62
Scenedesmus bijinga	0.43	0.06	0.84	0.51	1.03	76.65
Leptocylindricus danicus	0.20	0.46	0.82	0.63	1.00	77.65
Akistrodesmus falcatus	0.46	0.05	0.82	0.56	1.00	78.65
Euglena sp.	0.38	0.00	0.70	0.46	0.85	79.50
Pleurosigma sp.	0.16	0.27	0.68	0.50	0.83	80.33
Nostoc sp.(trichomes)	0.21	0.17	0.61	0.50	0.75	81.08
Merismopedia punctata	0.23	0.09	0.61	0.37	0.74	81.83
Scrippsiella sp.	0.18	0.24	0.60	0.49	0.74	82.57
Amphora sp.	0.00	0.41	0.59	0.42	0.72	83.29
Scenedesmus acuminatus	0.24	0.00	0.44	0.39	0.54	83.82
Chaetoceros curvisetus	0.00	0.43	0.43	0.33	0.52	84.35
Thalassiosira oestrupii	0.00	0.30	0.41	0.50	0.50	84.85
Chaetoceros lorenzianum	0.00	0.32	0.41	0.43	0.50	85.35
Amphiprora sp.	0.12	0.21	0.40	0.53	0.49	85.84
Gonyaulax digitalis	0.06	0.20	0.40	0.37	0.49	86.34
Gonyaulax monilata	0.00	0.19	0.38	0.35	0.47	86.80
Peridinium concinnum	0.12	0.19	0.38	0.49	0.46	87.27
Peridinium tuba	0.00	0.27	0.37	0.48	0.45	87.72
Bluegreen filamentous sp.	0.15	0.06	0.36	0.37	0.44	88.16
Rhizosolenia delicatula	0.00	0.26	0.35	0.42	0.43	88.58
Tropodineis lepidoptera	0.14	0.08	0.33	0.28	0.40	88.98
Thalassiothrix frauenfeldianum	0.00	0.18	0.32	0.32	0.40	89.38
Rhizosolenia calcar-avis	0.00	0.22	0.30	0.41	0.37	89.75
Coscinosira polychorda	0.00	0.21	0.30	0.36	0.37	90.12

Groups 70%Grp11 & 70%Grp8

Average dissimilarity = 79.16

Species	Group 70%Grp11 Av.Abund	Group 70%Grp8 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.90	5.07	7.26	1.02	9.17	9.17

Schizothrix sp.	0.49	2.14	3.46	0.75	4.37	13.54
Thalassiosira sp.	1.38	0.93	2.75	0.79	3.47	17.00
Thalassionema nitzschoides	0.20	1.63	2.74	0.69	3.46	20.47
Thalassiosira pseudonana	1.56	0.37	2.51	0.81	3.17	23.64
Ceratulina bergonii	0.53	1.39	2.50	0.74	3.16	26.79
Prorocentrum minimum	1.59	0.72	2.42	0.92	3.06	29.85
Leptocylindricus minimum	0.75	1.63	2.31	1.11	2.92	32.77
Eutreptia sp.	1.43	0.14	2.26	0.90	2.85	35.62
Unknown pennate diatom sp.	0.81	1.09	2.02	0.92	2.55	38.17
Nitzschia closterium	0.62	1.37	1.95	1.02	2.47	40.64
Chaetoceros socialis	0.28	1.47	1.91	0.87	2.41	43.05
Chaetoceros neogracile	0.31	1.24	1.77	0.91	2.24	45.29
Thalassiosira decipiens	0.84	0.64	1.62	0.81	2.05	47.34
Chaetoceros subtilis	0.83	0.59	1.60	0.77	2.03	49.36
Nitzschia pungens	0.12	1.11	1.50	0.74	1.89	51.26
Rhizosolenia setigera	0.16	0.93	1.47	0.78	1.86	53.12
Prorocentrum micans	0.13	0.97	1.45	0.96	1.83	54.95
Schroederia setigera	0.82	0.09	1.41	0.80	1.78	56.73
Peridinium aciculiferum	0.84	0.06	1.39	0.76	1.76	58.48
Nitzschia longissima	0.74	0.64	1.27	0.94	1.60	60.09
Cyclotella sp.	0.83	0.00	1.20	0.48	1.51	61.60
Scrippsiella sp.	0.59	0.24	1.13	0.64	1.43	63.03
Ceratium hircus	0.08	0.73	1.07	0.84	1.35	64.38
Euglena sp.	0.69	0.00	1.06	0.42	1.34	65.72
Asterionella glacialis	0.00	0.87	1.02	0.67	1.29	67.01
Chaetoceros compressum	0.00	0.87	1.02	0.66	1.28	68.29
Chaetoceros sp.	0.00	0.56	0.96	0.33	1.21	69.50
Merismopedia punctata	0.54	0.09	0.94	0.47	1.19	70.69
Gymnodinium sp.	0.53	0.25	0.93	0.76	1.17	71.86
Peridinium sp.	0.31	0.41	0.92	0.64	1.16	73.02
Scenedesmus quadricauda	0.46	0.06	0.74	0.51	0.93	73.96
Akistrodesmus falcatus	0.43	0.05	0.70	0.55	0.89	74.84
Melosira sp.	0.00	0.26	0.69	0.30	0.87	75.71
Amphora sp.	0.13	0.41	0.68	0.50	0.86	76.57
Leptocylindricus danicus	0.09	0.46	0.63	0.61	0.80	77.37
Nostoc sp.(trichomes)	0.27	0.17	0.61	0.51	0.77	78.14
Gonyaulax polygramma	0.15	0.22	0.59	0.46	0.75	78.89
Crucigenia sp.	0.38	0.00	0.58	0.45	0.74	79.63
Pyramimonas sp.	0.33	0.06	0.55	0.37	0.69	80.32
Chaetoceros curvisetus	0.07	0.43	0.49	0.38	0.63	80.95
Gonyaulax monilata	0.07	0.19	0.48	0.37	0.61	81.56
Scenedesmus bijinga	0.28	0.06	0.48	0.46	0.61	82.17
Thalassiosira oestrupii	0.04	0.30	0.44	0.53	0.56	82.73

Gonyaulax digitalis	0.09	0.20	0.42	0.39	0.53	83.26
Pleurosigma sp.	0.00	0.27	0.41	0.45	0.52	83.78
Nitzschia sigma	0.15	0.19	0.41	0.41	0.52	84.30
Chaetoceros lorenzianum	0.00	0.32	0.39	0.43	0.49	84.79
Bluegreen filamentous sp.	0.21	0.06	0.38	0.45	0.48	85.27
Rhizosolenia delicatula	0.04	0.26	0.37	0.45	0.47	85.74
Coscinodiscus sp.	0.05	0.10	0.37	0.30	0.46	86.20
Peridinium tuba	0.00	0.27	0.35	0.47	0.45	86.65
Thalassiothrix frauenfeldianum	0.00	0.18	0.31	0.32	0.39	87.04
Amphiprora sp.	0.04	0.21	0.29	0.47	0.37	87.40
Rhizosolenia calcar-avis	0.00	0.22	0.29	0.40	0.36	87.77
Coscinosira polychorda	0.00	0.21	0.29	0.36	0.36	88.13
Scenedesmus acuminatus	0.19	0.00	0.28	0.33	0.36	88.49
Melosira nummuloidea	0.09	0.13	0.28	0.35	0.35	88.84
Peridinium concinnum	0.05	0.19	0.28	0.41	0.35	89.19
Hemiaulis hauckii	0.00	0.20	0.25	0.36	0.32	89.50
Dinophysis caudata	0.10	0.11	0.24	0.41	0.31	89.81
Navicula sp.	0.00	0.15	0.24	0.35	0.30	90.11

Groups 70%Grp3 & 70%Grp1

Average dissimilarity = 99.24

Species	Group 70%Grp3 Av.Abund	Group 70%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	7.96	1.59	8.02	8.02
Synechocystis aquaticus Sauvageau	0.00	3.49	6.13	1.62	6.18	14.20
Cryptomonas sp.1	0.00	3.26	5.47	3.08	5.51	19.71
Unknown diatom sp.	3.09	0.00	5.05	2.32	5.09	24.80
Unknown diatom sp. D	2.34	0.00	3.73	1.56	3.76	28.56
Scenedesmus quadricauda v. Westii	0.00	2.19	3.58	1.34	3.61	32.17
Thalassiosira sp.	2.01	0.00	3.26	1.89	3.28	35.46
Gonyaulax palustre	0.00	1.82	2.98	1.51	3.00	38.46
Spermatozoopsis exultans	0.00	1.79	2.97	1.28	2.99	41.45
Unknown Dinoflagellate sp.	1.73	0.00	2.89	0.96	2.91	44.37
Prorocentrum micans	1.61	0.00	2.87	0.55	2.89	47.26
Cryptomonas erosa	0.00	1.46	2.30	1.16	2.32	49.58
Scenedesmus sp.	1.47	0.00	2.25	1.14	2.27	51.85
Navicula sp. small	1.23	0.00	2.04	0.84	2.05	53.90
Skeletonema costatum	0.16	1.15	2.03	0.77	2.05	55.95
Chlymentomonas sp.	0.00	1.14	1.80	0.96	1.82	57.76
Cryptomonas ovata	0.00	1.01	1.70	0.88	1.71	59.47
Eutreptiella sp.	0.35	0.80	1.48	0.92	1.49	60.97

Coelosphaerium sp.	0.00	0.90	1.41	0.58	1.42	62.39
Coscinodiscus sp.	0.83	0.00	1.40	0.57	1.41	63.80
Unknown bluegreen sp.	0.83	0.00	1.36	0.89	1.37	65.17
Pyramimonas sp.	0.84	0.00	1.30	0.82	1.31	66.48
Nitzschia pungens	0.80	0.12	1.29	0.82	1.30	67.77
Tetraedron sp.	0.82	0.05	1.21	0.76	1.22	69.00
Navicula sp. large	0.66	0.00	1.17	0.64	1.18	70.17
Akistrodesmus sp.	0.76	0.00	1.11	0.57	1.12	71.29
Nitzschia palea	0.00	0.70	1.06	0.83	1.07	72.37
Cyclotella sp.	0.00	0.73	1.06	0.66	1.07	73.44
Leptocylicus minimum	0.61	0.00	0.99	0.65	1.00	74.43
Unknown flagellate sp. 1	0.00	0.56	0.91	0.59	0.92	75.35
Navicula sp.	0.00	0.48	0.84	0.65	0.84	76.19
Nitzschia sp.	0.38	0.10	0.80	0.46	0.80	76.99
Chroococcus minutus	0.00	0.56	0.78	0.43	0.78	77.78
Prorocentrum sp.	0.45	0.00	0.73	0.38	0.73	78.51
Schizothrix calcicola	0.48	0.00	0.65	0.58	0.66	79.17
Eutreptia sp.	0.37	0.00	0.63	0.35	0.64	79.81
Cyclotella undulata	0.00	0.37	0.63	0.29	0.64	80.44
Aphanocapsa sp.	0.36	0.08	0.58	0.44	0.58	81.03
Prorocentrum redfieldi	0.40	0.00	0.58	0.36	0.58	81.61
Trichodesmium sp.	0.38	0.00	0.53	0.38	0.54	82.15
Thalassionema nitzschoides	0.35	0.00	0.53	0.49	0.53	82.68
Leptocylicus danicus	0.27	0.00	0.52	0.38	0.53	83.21
Euglena acus	0.00	0.35	0.51	0.34	0.51	83.72
Scenedesmus abundans v. brevicauda	0.00	0.35	0.47	0.37	0.48	84.20
Nitzschia fruticosa	0.00	0.30	0.45	0.35	0.46	84.66
Merismopedia sp.	0.18	0.20	0.45	0.40	0.45	85.11
Merismopedia glauca	0.00	0.32	0.44	0.36	0.45	85.55
Chroococcus sp.	0.32	0.00	0.43	0.38	0.44	85.99
Oscillatoria sp.	0.32	0.00	0.43	0.39	0.44	86.43
Stephanodiscus sp.	0.00	0.26	0.42	0.34	0.42	86.85
Euglena sp.	0.00	0.21	0.37	0.21	0.37	87.22
Cryptomonas curvata	0.00	0.24	0.37	0.41	0.37	87.59
Spirulina sp.1	0.00	0.24	0.35	0.34	0.35	87.94
Unknown diatom sp. A	0.20	0.00	0.33	0.26	0.33	88.27
Gymnodinium simplex	0.00	0.20	0.33	0.44	0.33	88.60
Oocystis sp.	0.00	0.27	0.33	0.37	0.33	88.93
Lyngbya contorta (trichome)	0.00	0.25	0.33	0.32	0.33	89.26
Phormidium fragile (trichome)	0.00	0.24	0.32	0.37	0.32	89.58
Actinastrum sp.	0.18	0.00	0.32	0.37	0.32	89.90
Unknown diatom sp. 17	0.20	0.00	0.31	0.39	0.31	90.21

Groups 70%Grp6 & 70%Grp1

Average dissimilarity = 98.08

Species	Group 70%Grp6 Av.Abund	Group 70%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	8.35	1.57	8.51	8.51
Unknown Cryptophyte sp.	6.29	0.00	8.14	2.24	8.30	16.81
Synechocystis aquaticus Sauvageau	0.00	3.49	4.79	1.58	4.89	21.70
Thalassiosira sp.	3.51	0.00	4.32	1.05	4.40	26.10
Cryptomonas sp.1	0.00	3.26	4.31	2.83	4.40	30.50
Skeletonema costatum	3.34	1.15	4.07	1.00	4.15	34.65
Unknown diatom sp.	3.30	0.00	4.06	1.63	4.14	38.79
Unknown Dinoflagellate sp.	3.01	0.00	3.93	1.26	4.01	42.80
Scenedesmus quadricauda v. Westii	0.00	2.19	2.84	1.32	2.89	45.69
Gonyaulax palustre	0.00	1.82	2.36	1.47	2.41	48.10
Spermatozoopsis exultans	0.00	1.79	2.34	1.28	2.39	50.50
Prorocentrum minimum	1.60	0.00	2.23	0.35	2.27	52.77
Peridinium sp.	1.80	0.00	2.07	0.75	2.11	54.88
Pyramimonas sp.	1.63	0.00	1.90	0.92	1.93	56.81
Cryptomonas erosa	0.00	1.46	1.84	1.14	1.87	58.69
Eutreptiella sp.	0.69	0.80	1.60	0.66	1.63	60.32
Eutreptia sp.	1.21	0.00	1.59	0.49	1.62	61.93
Skeletonema menezelli	1.46	0.00	1.54	0.34	1.57	63.50
Chlymentomonas sp.	0.00	1.14	1.44	0.95	1.46	64.97
Chaetoceros sp.	1.28	0.00	1.39	0.60	1.42	66.38
Cryptomonas ovata	0.00	1.01	1.34	0.86	1.37	67.75
Nitzschia closterium	0.92	0.00	1.14	0.66	1.16	68.91
Coelosphaerium sp.	0.00	0.90	1.13	0.58	1.15	70.06
Nitzschia pungens	0.82	0.12	1.04	0.60	1.06	71.13
Prorocentrum sp.	0.77	0.00	0.95	0.33	0.97	72.10
Cyclotella sp.	0.00	0.73	0.86	0.66	0.87	72.97
Nitzschia palea	0.00	0.70	0.85	0.82	0.87	73.84
Unknown Katodinium sp.	0.54	0.07	0.84	0.31	0.86	74.70
Leptocylindricus minimum	0.72	0.00	0.78	0.54	0.79	75.49
Scenedesmus sp.	0.60	0.00	0.72	0.44	0.74	76.23
Unknown flagellate sp. 1	0.00	0.56	0.72	0.59	0.73	76.96
Leptocylindricus danicus	0.65	0.00	0.66	0.35	0.68	77.64
Navicula sp.	0.00	0.48	0.65	0.65	0.67	78.31
Chroococcus minutus	0.00	0.56	0.64	0.43	0.65	78.96
Apedinella radians	0.50	0.00	0.61	0.44	0.62	79.57
Glenodinium sp.	0.50	0.00	0.60	0.30	0.61	80.18
Navicula sp. large	0.47	0.00	0.58	0.44	0.60	80.78

Unknown diatom sp. A	0.52	0.00	0.57	0.33	0.58	81.36
Chaetoceros gracile	0.51	0.00	0.57	0.29	0.58	81.94
Minutocellus sp.	0.51	0.00	0.56	0.41	0.57	82.51
Rhizosolenia setigera	0.51	0.00	0.53	0.48	0.54	83.06
Cyclotella undulata	0.00	0.37	0.50	0.29	0.51	83.57
Unknown Vegetative cell sp.	0.31	0.00	0.48	0.28	0.49	84.06
Aphanocapsa sp.	0.36	0.08	0.45	0.39	0.46	84.52
Prorocentrum micans	0.34	0.00	0.45	0.24	0.46	84.98
Prorocentrum redfieldi	0.41	0.00	0.45	0.19	0.46	85.44
Unknown bluegreen sp.	0.33	0.00	0.43	0.32	0.44	85.88
Ceratium hircus	0.36	0.00	0.42	0.33	0.43	86.31
Chaetoceros muelleri	0.35	0.00	0.42	0.33	0.42	86.74
Euglena acus	0.00	0.35	0.41	0.34	0.42	87.15
Scenedesmus abundans v. brevicauda	0.00	0.35	0.39	0.37	0.39	87.55
Coscinodiscus sp.	0.28	0.00	0.38	0.30	0.39	87.94
Tetraedron sp.	0.30	0.05	0.37	0.35	0.38	88.32
Akistrodesmus sp.	0.33	0.00	0.36	0.30	0.37	88.69
Nitzschia fruticosa	0.00	0.30	0.36	0.35	0.37	89.06
Merismopedia glauca	0.00	0.32	0.36	0.36	0.37	89.43
Pyrophacus sp.	0.26	0.00	0.35	0.26	0.35	89.78
Chaetoceros subtilis	0.16	0.16	0.35	0.25	0.35	90.14

Groups 70%Grp5 & 70%Grp1

Average dissimilarity = 97.38

Species	Group 70%Grp5 Av.Abund	Group 70%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	7.46	1.15	7.75	1.68	7.96	7.96
Unknown diatom sp. D	6.13	0.00	6.82	2.00	7.00	14.96
Unknown Cryptophyte sp.	5.10	0.00	6.27	2.31	6.43	21.40
Thalassiosira sp.	4.15	0.00	4.52	2.46	4.64	26.03
Synechocystis aquaticus Sauvageau	0.00	3.49	4.37	1.54	4.48	30.52
Nitzschia closterium	3.83	0.00	4.30	2.46	4.41	34.93
Unknown diatom sp.	3.67	0.00	4.13	2.23	4.24	39.17
Cryptomonas sp.1	0.00	3.26	3.94	2.68	4.04	43.21
Nitzschia pungens	2.56	0.12	2.90	1.24	2.98	46.19
Scenedesmus quadricauda v. Westii	0.00	2.19	2.60	1.30	2.67	48.86
Unknown Dinoflagellate sp.	2.35	0.00	2.58	1.29	2.65	51.51
Chaetoceros sp.	2.39	0.00	2.56	1.12	2.63	54.14
Gonyaulax palustre	0.00	1.82	2.16	1.44	2.22	56.36
Spermatozoopsis exultans	0.00	1.79	2.14	1.26	2.20	58.56
Skeletonema menezelli	2.03	0.00	1.90	0.41	1.95	60.51

Cryptomonas erosa	0.00	1.46	1.68	1.12	1.73	62.23
Pyramimonas sp.	1.39	0.00	1.66	0.79	1.71	63.94
Leptocylindricus minimum	1.46	0.00	1.51	0.76	1.55	65.49
Chlymentomonas sp.	0.00	1.14	1.32	0.94	1.35	66.84
Cryptomonas ovata	0.00	1.01	1.22	0.86	1.26	68.10
Chaetoceros muelleri	1.09	0.00	1.14	0.59	1.17	69.27
Peridinium sp.	1.06	0.00	1.07	0.58	1.10	70.37
Coelosphaerium sp.	0.00	0.90	1.03	0.57	1.06	71.43
Asterionella japonica	0.98	0.00	0.99	0.57	1.02	72.46
Eutreptiella sp.	0.12	0.80	0.99	0.85	1.01	73.47
Thalassionema nitzschoides	0.96	0.00	0.94	0.60	0.97	74.44
Ceratium hircus	0.95	0.00	0.91	0.48	0.94	75.37
Leptocylindricus danicus	0.69	0.00	0.83	0.52	0.86	76.23
Minutocellus sp.	0.83	0.00	0.83	0.54	0.85	77.08
Navicula sp. large	0.73	0.00	0.81	0.60	0.84	77.92
Rhizosolenia setigera	0.77	0.00	0.79	0.59	0.81	78.73
Cyclotella sp.	0.00	0.73	0.79	0.65	0.81	79.54
Nitzschia palea	0.00	0.70	0.78	0.82	0.80	80.35
Unknown flagellate sp. 1	0.00	0.56	0.66	0.58	0.68	81.02
Prorocentrum sp.	0.58	0.00	0.63	0.41	0.65	81.68
Unknown diatom sp. A	0.58	0.00	0.63	0.42	0.65	82.33
Navicula sp.	0.00	0.48	0.60	0.64	0.61	82.94
Chroococcus minutus	0.00	0.56	0.59	0.43	0.60	83.54
Navicula sp. small	0.46	0.00	0.46	0.36	0.48	84.02
Cyclotella undulata	0.00	0.37	0.46	0.29	0.47	84.48
Chaetoceros subtilis	0.27	0.16	0.44	0.28	0.46	84.94
Aphanocapsa sp.	0.40	0.08	0.42	0.42	0.43	85.37
Chaetoceros gracile	0.36	0.00	0.41	0.20	0.43	85.80
Pyrophacus sp.	0.39	0.00	0.40	0.29	0.41	86.21
Euglena acus	0.00	0.35	0.38	0.34	0.39	86.59
Scenedesmus abundans v. brevicauda	0.00	0.35	0.36	0.37	0.37	86.96
Apedinella radians	0.30	0.00	0.35	0.37	0.36	87.32
Unknown bluegreen sp.	0.36	0.00	0.35	0.43	0.35	87.67
Merismopedia glauca	0.00	0.32	0.33	0.36	0.34	88.02
Nitzschia fruticosa	0.00	0.30	0.33	0.35	0.34	88.36
Scenedesmus sp.	0.27	0.00	0.32	0.29	0.33	88.69
Akistrodesmus sp.	0.28	0.00	0.32	0.27	0.33	89.02
Nitzschia delicatissima	0.31	0.00	0.31	0.20	0.32	89.33
Stephanodiscus sp.	0.00	0.26	0.31	0.34	0.31	89.65
Prorocentrum micans	0.32	0.00	0.30	0.37	0.31	89.95
Unknown diatom sp. 17	0.22	0.00	0.29	0.29	0.30	90.25

Groups 70%Grp4 & 70%Grp1

Average dissimilarity = 97.50

Species	Group 70%Grp4 Av.Abund	Group 70%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	9.98	1.99	10.24	10.24
Unknown diatom sp. D	8.36	0.00	8.00	2.80	8.20	18.44
Unknown Cryptophyte sp.	7.43	0.00	7.47	10.00	7.66	26.10
Skeletonema costatum	5.96	1.15	4.81	3.03	4.94	31.04
Thalassiosira sp.	4.72	0.00	4.80	7.05	4.93	35.97
Unknown diatom sp.	4.70	0.00	4.65	7.18	4.77	40.74
Nitzschia closterium	4.12	0.00	4.28	3.89	4.39	45.13
Pyramimonas sp.	3.83	0.00	3.89	7.77	3.99	49.12
Synechocystis aquaticus Sauvageau	0.00	3.49	3.69	1.69	3.78	52.90
Cryptomonas sp.1	0.00	3.26	3.35	3.36	3.43	56.33
Rhizosolenia fragilissima	2.34	0.00	2.76	0.98	2.83	59.16
Chaetoceros sp.	3.08	0.00	2.70	0.98	2.77	61.93
Gymnodinium sp.	2.63	0.00	2.30	0.98	2.36	64.29
Scenedesmus quadricauda v. Westii	0.00	2.19	2.21	1.38	2.27	66.56
Apedinella radians	1.78	0.00	2.10	0.98	2.15	68.71
Nitzschia pungens	2.29	0.12	2.02	1.02	2.07	70.78
Gonyaulax palustre	0.00	1.82	1.84	1.54	1.89	72.67
Spermatozoopsis exultans	0.00	1.79	1.82	1.35	1.87	74.54
Cerataulina bergonii large	1.50	0.00	1.76	0.98	1.81	76.35
Leptocylicus minimum	1.88	0.00	1.65	0.98	1.69	78.04
Cryptomonas erosa	0.00	1.46	1.44	1.17	1.48	79.52
Prorocentrum sp.	1.50	0.00	1.31	0.98	1.34	80.87
Peridinium sp.	1.50	0.00	1.31	0.98	1.34	82.21
Chlymentomonas sp.	0.00	1.14	1.13	0.97	1.16	83.36
Rhizosolenia setigera	1.26	0.00	1.10	0.98	1.13	84.49
Navicula sp. large	1.26	0.00	1.10	0.98	1.13	85.62
Leptocylicus danicus	1.26	0.00	1.10	0.98	1.13	86.75
Cryptomonas ovata	0.00	1.01	1.04	0.88	1.07	87.82
Coelosphaerium sp.	0.00	0.90	0.89	0.59	0.91	88.73
Eutreptiella sp.	0.00	0.80	0.79	0.85	0.81	89.54
Cyclotella sp.	0.00	0.73	0.68	0.66	0.70	90.24

Groups 70%Grp7 & 70%Grp1

Average dissimilarity = 96.57

Species	Group 70%Grp7 Av.Abund	Group 70%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
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Synechocystis aquaticus Sauvageau	0.00	3.49	6.96	1.48	7.21	7.21
Cryptomonas sp.1	0.00	3.26	6.17	2.54	6.39	13.60
Skeletonema costatum	3.27	1.15	4.91	1.12	5.08	18.69
Scenedesmus quadricauda v. Westii	0.00	2.19	4.03	1.25	4.17	22.85
Unknown pennate diatom sp.	2.07	0.00	3.79	1.66	3.93	26.78
Spermatozoopsis exultans	0.00	1.79	3.35	1.19	3.47	30.24
Gonyaulax palustre	0.00	1.82	3.34	1.43	3.46	33.71
Cyclotella sp.	1.76	0.73	3.30	0.91	3.41	37.12
Cyclotella sp. (small)	1.79	0.00	3.12	0.70	3.23	40.35
Cryptomonas erosa	0.00	1.46	2.57	1.12	2.66	43.01
Cyclotella sp. (large)	1.45	0.00	2.42	0.60	2.50	45.51
Chlymentomonas sp.	0.00	1.14	2.01	0.92	2.08	47.60
Scenedesmus quadricauda	1.15	0.00	1.93	1.07	2.00	49.60
Cryptomonas ovata	0.00	1.01	1.91	0.84	1.98	51.58
Gymnodinium sp.	1.01	0.00	1.87	0.98	1.93	53.51
Schroederia setigera	1.04	0.00	1.71	1.04	1.77	55.28
Thalassiosira pseudonana	1.05	0.00	1.67	0.56	1.73	57.01
Eutreptia sp.	0.88	0.00	1.64	0.95	1.70	58.71
Coelosphaerium sp.	0.00	0.90	1.58	0.56	1.64	60.34
Scenedesmus bijinga	0.90	0.17	1.54	0.86	1.59	61.93
Eutreptiella sp.	0.00	0.80	1.40	0.82	1.45	63.38
Thalassiosira decipiens	0.91	0.00	1.33	0.49	1.38	64.76
Nitzschia longissima	0.78	0.00	1.30	0.92	1.34	66.10
Nitzschia palea	0.00	0.70	1.18	0.80	1.23	67.33
Akistrodesmus falcatus	0.64	0.00	1.05	0.68	1.09	68.42
Unknown flagellate sp. 1	0.00	0.56	1.02	0.58	1.06	69.47
Navicula sp.	0.00	0.48	0.96	0.62	0.99	70.46
Chaetoceros subtilis	0.44	0.16	0.94	0.52	0.98	71.44
Chroococcus minutus	0.00	0.56	0.85	0.43	0.88	72.32
Amphiprora sp.	0.49	0.00	0.84	0.62	0.87	73.20
Actinastrum hantzschii	0.49	0.00	0.81	0.50	0.84	74.04
Bluegreen filamentous sp.	0.41	0.00	0.79	0.60	0.82	74.85
Cyclotella undulata	0.00	0.37	0.71	0.29	0.74	75.59
Melosira sp.	0.36	0.00	0.63	0.50	0.65	76.24
Cyclotella meneghiniana	0.40	0.00	0.61	0.27	0.63	76.87
Dictyosphaerium sp.	0.46	0.00	0.58	0.39	0.60	77.47
Scenedesmus acutus	0.34	0.00	0.58	0.40	0.60	78.07
Euglena acus	0.00	0.35	0.56	0.33	0.58	78.65
Crucigenia sp.	0.22	0.00	0.55	0.50	0.57	79.22
Euglena sp.	0.09	0.21	0.53	0.26	0.55	79.77
Merismopedia punctata	0.29	0.00	0.52	0.37	0.53	80.30
Scenedesmus abundans v. brevicauda	0.00	0.35	0.51	0.37	0.53	80.83
Nitzschia fruticosa	0.00	0.30	0.50	0.34	0.52	81.36

Pleurosigma sp.	0.24	0.00	0.49	0.50	0.51	81.87
Merismopedia glauca	0.00	0.32	0.49	0.36	0.50	82.37
Stephanodiscus sp.	0.00	0.26	0.47	0.34	0.49	82.86
Scenedesmus acuminatus	0.26	0.09	0.46	0.45	0.48	83.34
Melosira nummuloidea	0.25	0.00	0.46	0.40	0.48	83.82
Nitzschia sp.	0.09	0.10	0.41	0.38	0.43	84.25
Cryptomonas curvata	0.00	0.24	0.41	0.40	0.42	84.67
Scenedesmus abundans	0.29	0.00	0.41	0.39	0.42	85.09
Scenedesmus sp.	0.26	0.00	0.39	0.40	0.41	85.50
Spirulina sp.1	0.00	0.24	0.38	0.34	0.39	85.89
Micractinium pusillum	0.30	0.00	0.38	0.37	0.39	86.29
Gymnodinium simplex	0.00	0.20	0.37	0.43	0.38	86.67
Lyngbya contorta (trichome)	0.00	0.25	0.35	0.32	0.37	87.03
Oocystis sp.	0.00	0.27	0.35	0.37	0.37	87.40
Phormidium fragile (trichome)	0.00	0.24	0.35	0.37	0.36	87.76
Kirchneriella sp.	0.11	0.07	0.34	0.33	0.36	88.11
Nitzschia tryblionella	0.00	0.17	0.34	0.36	0.35	88.46
Tetrastrum sp.	0.24	0.00	0.34	0.40	0.35	88.81
Paralia sulcata	0.00	0.20	0.34	0.35	0.35	89.16
Chlamydomonas sp.	0.00	0.25	0.34	0.37	0.35	89.51
Prorocentrum minimum	0.16	0.00	0.33	0.39	0.34	89.85
Tropodoneis lepidoptera	0.19	0.00	0.28	0.27	0.29	90.14

Groups 70%Grp9 & 70%Grp1

Average dissimilarity = 94.87

Species	Group 70%Grp9 Av.Abund	Group 70%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	3.49	7.62	1.53	8.03	8.03
Cryptomonas sp.1	0.00	3.26	6.73	2.75	7.10	15.12
Skeletonema costatum	4.02	1.15	5.99	1.67	6.32	21.44
Scenedesmus quadricauda v. Westii	0.00	2.19	4.38	1.28	4.62	26.06
Spermatozoopsis exultans	0.00	1.79	3.65	1.21	3.85	29.90
Gonyaulax palustre	0.00	1.82	3.64	1.47	3.83	33.74
Chaetoceros subtilis	1.53	0.16	3.41	0.91	3.59	37.33
Cryptomonas erosa	0.00	1.46	2.79	1.14	2.94	40.27
Chlymentomonas sp.	0.00	1.14	2.19	0.93	2.30	42.57
Nitzschia closterium	1.16	0.00	2.14	1.13	2.26	44.83
Cryptomonas ovata	0.00	1.01	2.08	0.86	2.19	47.02
Peridinium aciculiferum	0.96	0.00	2.07	0.81	2.18	49.21
Coelosphaerium sp.	0.00	0.90	1.71	0.57	1.81	51.02
Cyclotella sp.	0.31	0.73	1.54	0.77	1.62	52.64

Eutreptiella sp.	0.00	0.80	1.51	0.83	1.60	54.23
Schizothrix sp.	0.87	0.00	1.51	0.50	1.60	55.83
Leptocylindricus minimum	0.86	0.00	1.51	0.77	1.59	57.42
Chaetoceros socialis	0.85	0.00	1.50	0.81	1.58	59.00
Unknown pennate diatom sp.	0.79	0.00	1.42	0.83	1.50	60.50
Nitzschia palea	0.00	0.70	1.28	0.81	1.35	61.85
Thalassiosira pseudonana	0.71	0.00	1.27	0.72	1.34	63.19
Nitzschia longissima	0.64	0.00	1.21	0.86	1.27	64.46
Thalassiosira sp.	0.61	0.00	1.20	0.55	1.27	65.73
Unknown flagellate sp. 1	0.00	0.56	1.11	0.58	1.17	66.91
Navicula sp.	0.08	0.48	1.09	0.66	1.15	68.05
Ceratulina bergonii	0.49	0.00	1.00	0.40	1.05	69.11
Chroococcus minutus	0.00	0.56	0.92	0.43	0.97	70.07
Chaetoceros neogracile	0.50	0.00	0.88	0.58	0.92	71.00
Nitzschia pungens	0.38	0.12	0.79	0.56	0.84	71.83
Eutreptia sp.	0.45	0.00	0.79	0.62	0.84	72.67
Cyclotella undulata	0.00	0.37	0.78	0.29	0.82	73.49
Rhizosolenia setigera	0.41	0.00	0.78	0.56	0.82	74.31
Euglena sp.	0.20	0.21	0.75	0.32	0.79	75.10
Thalassionema nitzschoides	0.40	0.00	0.71	0.51	0.75	75.85
Gymnodinium sp.	0.33	0.00	0.64	0.51	0.67	76.52
Prorocentrum minimum	0.37	0.00	0.62	0.55	0.65	77.17
Euglena acus	0.00	0.35	0.61	0.34	0.64	77.81
Cyclotella sp. (small)	0.25	0.00	0.56	0.28	0.59	78.40
Schroederia setigera	0.27	0.00	0.55	0.41	0.58	78.99
Scenedesmus abundans v. brevicauda	0.00	0.35	0.55	0.37	0.58	79.57
Nitzschia fruticosa	0.00	0.30	0.55	0.35	0.58	80.14
Merismopedia glauca	0.00	0.32	0.52	0.36	0.55	80.70
Gonyaulax polygramma	0.24	0.00	0.52	0.40	0.55	81.24
Stephanodiscus sp.	0.00	0.26	0.51	0.34	0.54	81.78
Peridinium sp.	0.26	0.00	0.49	0.39	0.52	82.30
Cryptomonas curvata	0.00	0.24	0.44	0.40	0.47	82.77
Spirulina sp.1	0.00	0.24	0.41	0.34	0.43	83.20
Gymnodinium simplex	0.00	0.20	0.40	0.43	0.42	83.63
Prorocentrum micans	0.24	0.00	0.40	0.40	0.42	84.05
Scrippsiella sp.	0.24	0.00	0.40	0.44	0.42	84.47
Lyngbya contorta (trichome)	0.00	0.25	0.38	0.32	0.40	84.87
Oocystis sp.	0.00	0.27	0.38	0.37	0.40	85.26
Phormidium fragile (trichome)	0.00	0.24	0.37	0.37	0.39	85.65
Nitzschia tryblionella	0.00	0.17	0.37	0.36	0.39	86.04
Paralia sulcata	0.00	0.20	0.36	0.35	0.38	86.43
Gonyaulax spinifera	0.20	0.00	0.36	0.41	0.38	86.81
Chlamydomonas sp.	0.00	0.25	0.36	0.37	0.38	87.19

Nitzschia sp.	0.06	0.10	0.32	0.37	0.34	87.52
Ceratium hircus	0.18	0.00	0.31	0.30	0.32	87.84
Melosira granulata	0.00	0.18	0.30	0.35	0.32	88.17
Gonyaulax monilata	0.17	0.00	0.30	0.32	0.32	88.49
Chaetoceros compressum	0.15	0.00	0.30	0.27	0.32	88.80
Mallomonas acaroides	0.00	0.16	0.29	0.30	0.31	89.11
Merismopedia sp.	0.00	0.20	0.29	0.30	0.30	89.41
Asterionella glacialis	0.17	0.00	0.29	0.28	0.30	89.72
Leptocylicus danicus	0.16	0.00	0.28	0.33	0.29	90.01

Groups 70%Grp10 & 70%Grp1

Average dissimilarity = 94.73

Species	Group 70%Grp10 Av.Abund	Group 70%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	3.49	6.97	1.65	7.36	7.36
Cryptomonas sp.1	0.00	3.26	6.20	3.28	6.54	13.90
Skeletonema costatum	4.06	1.15	5.58	1.72	5.89	19.79
Chaetoceros subtilis	2.80	0.16	5.16	1.53	5.45	25.24
Scenedesmus quadricauda v. Westii	0.00	2.19	4.05	1.35	4.27	29.52
Gonyaulax palustre	0.00	1.82	3.36	1.54	3.55	33.07
Spermatozoopsis exultans	0.00	1.79	3.36	1.29	3.55	36.61
Cyclotella sp. (small)	1.40	0.00	2.59	0.68	2.73	39.35
Cryptomonas erosa	0.00	1.46	2.59	1.18	2.73	42.08
Schroederia setigera	1.25	0.00	2.29	1.43	2.42	44.49
Thalassiosira pseudonana	1.15	0.00	2.12	0.70	2.24	46.74
Peridinium aciculiferum	1.07	0.00	2.09	0.71	2.21	48.94
Cyclotella sp.	0.79	0.73	2.07	0.82	2.19	51.13
Chlymentomonas sp.	0.00	1.14	2.03	0.96	2.14	53.27
Cryptomonas ovata	0.00	1.01	1.92	0.88	2.03	55.30
Gymnodinium sp.	1.06	0.00	1.91	0.82	2.02	57.32
Nitzschia longissima	0.91	0.00	1.75	1.21	1.84	59.16
Coelosphaerium sp.	0.00	0.90	1.59	0.58	1.68	60.84
Eutreptiella sp.	0.00	0.80	1.41	0.85	1.49	62.32
Schizothrix sp.	0.71	0.00	1.39	0.47	1.46	63.79
Unknown pennate diatom sp.	0.72	0.00	1.35	0.72	1.42	65.21
Scenedesmus quadracauda	0.73	0.00	1.33	0.81	1.40	66.61
Nitzschia palea	0.00	0.70	1.19	0.83	1.26	67.87
Thalassiosira decipiens	0.59	0.00	1.08	0.73	1.14	69.01
Euglena sp.	0.38	0.21	1.07	0.47	1.13	70.14
Unknown flagellate sp. 1	0.00	0.56	1.03	0.60	1.08	71.22
Gonyaulax polygramma	0.53	0.00	1.02	0.67	1.07	72.29

Navicula sp.	0.00	0.48	0.96	0.65	1.01	73.30
Scenedesmus bijinga	0.43	0.17	0.91	0.57	0.96	74.26
Chroococcus minutus	0.00	0.56	0.86	0.44	0.91	75.18
Akistrodesmus falcatus	0.46	0.00	0.79	0.56	0.84	76.01
Eutreptia sp.	0.42	0.00	0.76	0.58	0.80	76.81
Nitzschia closterium	0.40	0.00	0.73	0.59	0.78	77.59
Cyclotella undulata	0.00	0.37	0.72	0.30	0.76	78.35
Peridinium sp.	0.41	0.00	0.69	0.55	0.73	79.08
Euglena acus	0.00	0.35	0.57	0.34	0.60	79.68
Scenedesmus acuminatus	0.24	0.09	0.55	0.47	0.58	80.25
Nitzschia pungens	0.21	0.12	0.53	0.51	0.56	80.81
Thalassiosira sp.	0.31	0.00	0.52	0.48	0.55	81.37
Scenedesmus abundans v. brevicauda	0.00	0.35	0.52	0.37	0.55	81.92
Nitzschia fruticosa	0.00	0.30	0.51	0.35	0.54	82.45
Prorocentrum minimum	0.29	0.00	0.50	0.50	0.52	82.98
Merismopedia glauca	0.00	0.32	0.49	0.37	0.52	83.50
Leptocylindricus minimum	0.29	0.00	0.48	0.40	0.50	84.00
Stephanodiscus sp.	0.00	0.26	0.47	0.35	0.50	84.50
Merismopedia punctata	0.23	0.00	0.47	0.33	0.49	85.00
Nostoc sp.(trichomes)	0.21	0.00	0.44	0.42	0.46	85.46
Cryptomonas curvata	0.00	0.24	0.41	0.41	0.44	85.90
Spirulina sp.1	0.00	0.24	0.38	0.34	0.41	86.30
Gymnodinium simplex	0.00	0.20	0.37	0.44	0.39	86.69
Bacillaria paradoxa	0.13	0.09	0.36	0.31	0.38	87.08
Lyngbya contorta (trichome)	0.00	0.25	0.36	0.32	0.38	87.46
Oocystis sp.	0.00	0.27	0.36	0.37	0.38	87.83
Scrippsiella sp.	0.18	0.00	0.36	0.33	0.38	88.21
Phormidium fragile (trichome)	0.00	0.24	0.35	0.37	0.37	88.58
Leptocylindricus danicus	0.20	0.00	0.35	0.33	0.37	88.95
Chlamydomonas sp.	0.00	0.25	0.34	0.37	0.36	89.30
Nitzschia tryblionella	0.00	0.17	0.34	0.37	0.36	89.66
Paralia sulcata	0.00	0.20	0.34	0.36	0.36	90.02

Groups 70%Grp11 & 70%Grp1

Average dissimilarity = 95.46

Species	Group 70%Grp11 Av.Abund	Group 70%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.90	1.15	8.61	1.44	9.02	9.02
Synechocystis aquaticus Sauvageau	0.00	3.49	6.60	1.51	6.92	15.94
Cryptomonas sp.1	0.00	3.26	5.87	2.66	6.15	22.09
Scenedesmus quadricauda v. Westii	0.00	2.19	3.83	1.28	4.02	26.10

Gonyaulax palustre	0.00	1.82	3.19	1.45	3.34	29.44
Spermatozoopsis exultans	0.00	1.79	3.18	1.22	3.34	32.78
Prorocentrum minimum	1.59	0.00	2.60	0.96	2.72	35.50
Thalassiosira pseudonana	1.56	0.00	2.50	0.82	2.62	38.12
Cryptomonas erosa	0.00	1.46	2.45	1.13	2.57	40.69
Eutreptia sp.	1.43	0.00	2.33	0.98	2.44	43.14
Thalassiosira sp.	1.38	0.00	2.31	0.64	2.42	45.55
Cyclotella sp.	0.83	0.73	1.94	0.79	2.03	47.59
Chlymentomonas sp.	0.00	1.14	1.92	0.93	2.01	49.60
Cryptomonas ovata	0.00	1.01	1.82	0.85	1.90	51.50
Chaetoceros subtilis	0.83	0.16	1.54	0.73	1.61	53.12
Coelosphaerium sp.	0.00	0.90	1.51	0.57	1.58	54.70
Schroederia setigera	0.82	0.00	1.44	0.89	1.51	56.20
Peridinium aciculiferum	0.84	0.00	1.41	0.81	1.48	57.68
Euglena sp.	0.69	0.21	1.40	0.48	1.47	59.15
Eutreptiella sp.	0.00	0.80	1.34	0.82	1.40	60.55
Thalassiosira decipiens	0.84	0.00	1.33	0.77	1.39	61.94
Unknown pennate diatom sp.	0.81	0.00	1.30	0.68	1.37	63.30
Nitzschia longissima	0.74	0.00	1.24	0.96	1.30	64.60
Leptocylindricus minimum	0.75	0.00	1.13	0.57	1.19	65.78
Nitzschia palea	0.00	0.70	1.13	0.81	1.19	66.97
Scrippsiella sp.	0.59	0.00	1.04	0.64	1.09	68.06
Nitzschia closterium	0.62	0.00	1.00	0.89	1.04	69.11
Ceratulina bergonii	0.53	0.00	0.98	0.42	1.02	70.13
Unknown flagellate sp. 1	0.00	0.56	0.97	0.58	1.02	71.15
Navicula sp.	0.00	0.48	0.90	0.63	0.95	72.10
Merismopedia punctata	0.54	0.00	0.85	0.45	0.89	72.98
Gymnodinium sp.	0.53	0.00	0.84	0.69	0.88	73.86
Chroococcus minutus	0.00	0.56	0.82	0.43	0.86	74.73
Schizothrix sp.	0.49	0.00	0.78	0.42	0.81	75.54
Scenedesmus quadracauda	0.46	0.00	0.68	0.48	0.71	76.25
Cyclotella undulata	0.00	0.37	0.68	0.29	0.71	76.96
Akistrodesmus falcatus	0.43	0.00	0.67	0.54	0.71	77.67
Crucigenia sp.	0.38	0.00	0.60	0.48	0.63	78.30
Chaetoceros neogracile	0.31	0.00	0.57	0.51	0.59	78.89
Scenedesmus bijinga	0.28	0.17	0.56	0.52	0.58	79.47
Euglena acus	0.00	0.35	0.54	0.34	0.57	80.04
Pyramimonas sp.	0.33	0.00	0.52	0.35	0.54	80.58
Scenedesmus abundans v. brevicauda	0.00	0.35	0.50	0.37	0.52	81.10
Nitzschia fruticosa	0.00	0.30	0.48	0.35	0.50	81.60
Merismopedia glauca	0.00	0.32	0.47	0.36	0.49	82.09
Nostoc sp.(trichomes)	0.27	0.00	0.45	0.42	0.48	82.57
Stephanodiscus sp.	0.00	0.26	0.45	0.34	0.47	83.04

Peridinium sp.	0.31	0.00	0.44	0.55	0.47	83.51
Oocystis sp.	0.08	0.27	0.44	0.42	0.46	83.96
Chaetoceros socialis	0.28	0.00	0.42	0.36	0.44	84.41
Scenedesmus acuminatus	0.19	0.09	0.39	0.40	0.41	84.82
Cryptomonas curvata	0.00	0.24	0.39	0.40	0.41	85.23
Thalassionema nitzschoides	0.20	0.00	0.39	0.33	0.41	85.64
Spirulina sp.1	0.00	0.24	0.37	0.34	0.38	86.02
Gymnodinium simplex	0.00	0.20	0.35	0.43	0.37	86.39
Lyngbya contorta (trichome)	0.00	0.25	0.34	0.32	0.36	86.75
Nitzschia pungens	0.12	0.12	0.34	0.41	0.36	87.11
Phormidium fragile (trichome)	0.00	0.24	0.33	0.37	0.35	87.46
Bluegreen filamentous sp.	0.21	0.00	0.33	0.42	0.34	87.80
Chlamydomonas sp.	0.00	0.25	0.32	0.37	0.34	88.14
Paralia sulcata	0.00	0.20	0.32	0.35	0.34	88.47
Nitzschia tryblionella	0.00	0.17	0.32	0.36	0.34	88.81
Melosira granulata	0.00	0.18	0.27	0.35	0.28	89.09
Merismopedia sp.	0.00	0.20	0.26	0.30	0.27	89.37
Mallomonas acaroides	0.00	0.16	0.26	0.29	0.27	89.64
Gonyaulax polygramma	0.15	0.00	0.25	0.36	0.26	89.90
Rhizosolenia setigera	0.16	0.00	0.24	0.27	0.25	90.15

Groups 70%Grp8 & 70%Grp1

Average dissimilarity = 96.94

Species	Group 70%Grp8 Av.Abund	Group 70%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	3.49	6.29	1.33	6.49	6.49
Skeletonema costatum	5.07	1.15	6.14	1.51	6.33	12.82
Cryptomonas sp.1	0.00	3.26	5.59	2.07	5.76	18.58
Scenedesmus quadricauda v. Westii	0.00	2.19	3.65	1.16	3.76	22.34
Schizothrix sp.	2.14	0.00	3.14	0.68	3.24	25.58
Spermatozoopsis exultans	0.00	1.79	3.03	1.10	3.13	28.71
Gonyaulax palustre	0.00	1.82	3.03	1.31	3.12	31.83
Thalassionema nitzschoides	1.63	0.00	2.70	0.70	2.78	34.61
Cryptomonas erosa	0.00	1.46	2.33	1.05	2.40	37.02
Ceratulina bergonii	1.39	0.00	2.22	0.75	2.29	39.31
Leptocylindricus minimum	1.63	0.00	2.03	1.11	2.09	41.40
Chlymentomonas sp.	0.00	1.14	1.83	0.87	1.88	43.29
Chaetoceros socialis	1.47	0.00	1.75	0.82	1.80	45.09
Cryptomonas ovata	0.00	1.01	1.73	0.80	1.78	46.87
Nitzschia closterium	1.37	0.00	1.72	0.81	1.78	48.65
Chaetoceros neogracile	1.24	0.00	1.70	0.88	1.75	50.40

Unknown pennate diatom sp.	1.09	0.00	1.65	0.84	1.70	52.10
Nitzschia pungens	1.11	0.12	1.47	0.74	1.52	53.62
Coelosphaerium sp.	0.00	0.90	1.43	0.54	1.48	55.10
Prorocentrum micans	0.97	0.00	1.43	0.98	1.48	56.57
Rhizosolenia setigera	0.93	0.00	1.37	0.78	1.41	57.98
Thalassiosira sp.	0.93	0.00	1.31	0.64	1.35	59.34
Eutreptiella sp.	0.00	0.80	1.27	0.78	1.31	60.65
Nitzschia palea	0.00	0.70	1.08	0.77	1.11	61.76
Cyclotella sp.	0.00	0.73	1.07	0.62	1.10	62.86
Ceratium hircus	0.73	0.00	1.03	0.84	1.06	63.92
Asterionella glacialis	0.87	0.00	1.01	0.67	1.04	64.96
Chaetoceros compressum	0.87	0.00	1.01	0.66	1.04	66.00
Thalassiosira decipiens	0.64	0.00	0.98	0.60	1.01	67.02
Navicula sp.	0.15	0.48	0.94	0.66	0.97	67.98
Chaetoceros sp.	0.56	0.00	0.94	0.34	0.97	68.95
Unknown flagellate sp. 1	0.00	0.56	0.93	0.55	0.95	69.91
Prorocentrum minimum	0.72	0.00	0.88	0.94	0.91	70.81
Chaetoceros subtilis	0.59	0.16	0.81	0.53	0.84	71.65
Chroococcus minutus	0.00	0.56	0.78	0.42	0.80	72.45
Nitzschia longissima	0.64	0.00	0.77	0.86	0.79	73.25
Peridinium sp.	0.41	0.00	0.71	0.53	0.73	73.98
Melosira sp.	0.26	0.00	0.65	0.32	0.67	74.65
Cyclotella undulata	0.00	0.37	0.65	0.28	0.67	75.31
Leptocylindricus danicus	0.46	0.00	0.56	0.59	0.58	75.89
Amphora sp.	0.41	0.00	0.55	0.42	0.57	76.46
Euglena acus	0.00	0.35	0.51	0.33	0.53	76.99
Scenedesmus abundans v. brevicauda	0.00	0.35	0.47	0.36	0.49	77.48
Nitzschia fruticosa	0.00	0.30	0.46	0.33	0.47	77.95
Merismopedia glauca	0.00	0.32	0.44	0.35	0.46	78.41
Thalassiosira pseudonana	0.37	0.00	0.43	0.39	0.44	78.85
Stephanodiscus sp.	0.00	0.26	0.43	0.33	0.44	79.29
Chaetoceros curvisetus	0.43	0.00	0.41	0.33	0.42	79.72
Pleurosigma sp.	0.27	0.00	0.41	0.46	0.42	80.14
Gonyaulax polygramma	0.22	0.00	0.41	0.35	0.42	80.56
Thalassiosira oestrupii	0.30	0.00	0.39	0.50	0.40	80.96
Chaetoceros lorenzianum	0.32	0.00	0.39	0.43	0.40	81.36
Euglena sp.	0.00	0.21	0.38	0.20	0.39	81.74
Cryptomonas curvata	0.00	0.24	0.37	0.39	0.38	82.13
Gonyaulax monilata	0.19	0.00	0.35	0.35	0.36	82.49
Peridinium tuba	0.27	0.00	0.35	0.48	0.36	82.85
Spirulina sp.1	0.00	0.24	0.35	0.33	0.36	83.21
Gymnodinium simplex	0.00	0.20	0.33	0.41	0.34	83.55
Rhizosolenia delicatula	0.26	0.00	0.33	0.42	0.34	83.89

Lyngbya contorta (trichome)	0.00	0.25	0.33	0.31	0.34	84.23
Oocystis sp.	0.00	0.27	0.32	0.36	0.33	84.56
Gymnodinium sp.	0.25	0.00	0.32	0.50	0.33	84.90
Phormidium fragile (trichome)	0.00	0.24	0.32	0.36	0.33	85.22
Chlamydomonas sp.	0.00	0.25	0.31	0.36	0.32	85.54
Scrippsiella sp.	0.24	0.00	0.31	0.43	0.32	85.85
Nitzschia tryblionella	0.00	0.17	0.31	0.34	0.31	86.17
Paralia sulcata	0.00	0.20	0.30	0.34	0.31	86.48
Thalassiothrix frauenfeldianum	0.18	0.00	0.30	0.32	0.31	86.80
Scenedesmus bijinga	0.06	0.17	0.30	0.35	0.31	87.10
Gonyaulax digitalis	0.20	0.00	0.29	0.30	0.30	87.40
Rhizosolenia calcar-avis	0.22	0.00	0.29	0.41	0.30	87.70
Coscinosira polychorda	0.21	0.00	0.28	0.36	0.29	87.99
Melosira granulata	0.00	0.18	0.26	0.34	0.27	88.25
Eutreptia sp.	0.14	0.00	0.26	0.26	0.26	88.52
Nitzschia sp.	0.05	0.10	0.25	0.34	0.26	88.78
Merismopedia sp.	0.00	0.20	0.25	0.29	0.26	89.03
Hemiaulis hauckii	0.20	0.00	0.25	0.36	0.26	89.29
Mallomonas acaroides	0.00	0.16	0.25	0.29	0.25	89.54
Nostoc sp.(trichomes)	0.17	0.00	0.24	0.34	0.25	89.79
Coscinodiscus sp.	0.10	0.00	0.24	0.26	0.25	90.04

Groups 70%Grp3 & 70%Grp2

Average dissimilarity = 98.73

Species	Group 70%Grp3 Av.Abund	Group 70%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	8.76	1.61	8.87	8.87
Skeletonema costatum	0.16	3.66	6.62	1.69	6.71	15.58
Unknown diatom sp.	3.09	0.00	5.56	2.37	5.63	21.21
Cryptomonas sp.1	0.00	2.86	5.24	2.12	5.31	26.52
Synechocystis aquaticus Sauvageau	0.00	2.84	5.18	1.50	5.25	31.77
Unknown diatom sp. D	2.34	0.00	4.09	1.58	4.15	35.92
Thalassiosira sp.	2.01	0.00	3.58	1.92	3.63	39.54
Prorocentrum micans	1.61	0.25	3.33	0.60	3.37	42.92
Unknown Dinoflagellate sp.	1.73	0.00	3.19	0.96	3.23	46.14
Scenedesmus sp.	1.47	0.00	2.46	1.15	2.50	48.64
Navicula sp. small	1.23	0.00	2.24	0.85	2.27	50.91
Chlymentomonas sp.	0.00	0.92	1.66	0.81	1.68	52.59
Eutreptiella sp.	0.35	0.75	1.58	0.83	1.61	54.20
Peridinium cerasus	0.00	0.89	1.58	0.67	1.60	55.80
Coscinodiscus sp.	0.83	0.00	1.55	0.57	1.57	57.37

Unknown bluegreen sp.	0.83	0.00	1.49	0.90	1.51	58.88
Nitzschia pungens	0.80	0.11	1.43	0.82	1.45	60.33
Pyramimonas sp.	0.84	0.00	1.42	0.83	1.44	61.77
Gymnodinium simplex	0.00	0.75	1.37	0.72	1.39	63.15
Tetraedron sp.	0.82	0.00	1.30	0.75	1.31	64.47
Gymnodinium splendens	0.00	0.71	1.29	0.49	1.31	65.78
Navicula sp. large	0.66	0.00	1.29	0.65	1.31	67.09
Akistrodesmus sp.	0.76	0.00	1.21	0.57	1.23	68.31
Chroococcus minutus	0.00	0.62	1.11	0.41	1.13	69.44
Leptocylindricus minimum	0.61	0.00	1.09	0.65	1.10	70.54
Spermatozoopsis exultans	0.00	0.63	1.07	0.68	1.08	71.63
Ceratium hircus	0.00	0.57	1.06	0.50	1.07	72.70
Cryptomonas ovata	0.00	0.59	1.05	0.62	1.06	73.76
Nitzschia sp.	0.38	0.13	0.93	0.45	0.94	74.70
Gonyaulax palustre	0.00	0.53	0.93	0.61	0.94	75.65
Thalassionema nitzschoides	0.35	0.16	0.81	0.51	0.82	76.46
Prorocentrum sp.	0.45	0.00	0.80	0.38	0.81	77.27
Unknown flagellate sp. 1	0.00	0.45	0.78	0.56	0.79	78.06
Calycomonas ovalis	0.00	0.44	0.77	0.45	0.78	78.84
Cyclotella sp.	0.00	0.42	0.73	0.49	0.74	79.58
Schizothrix calcicola	0.48	0.00	0.70	0.58	0.71	80.29
Eutreptia sp.	0.37	0.00	0.70	0.35	0.71	81.00
Prorocentrum redfieldi	0.40	0.00	0.63	0.36	0.64	81.64
Cryptomonas erosa	0.00	0.37	0.61	0.51	0.62	82.26
Rhizosolenia setigera	0.00	0.35	0.61	0.41	0.62	82.88
Chaetoceros subtilis	0.00	0.34	0.60	0.44	0.61	83.49
Leptocylindricus danicus	0.27	0.00	0.58	0.39	0.59	84.08
Trichodesmium sp.	0.38	0.00	0.58	0.38	0.59	84.67
Aphanocapsa sp.	0.36	0.00	0.54	0.39	0.54	85.21
Biddulphia sinensis	0.00	0.29	0.50	0.39	0.50	85.71
Scenedesmus quadricauda v. Westii	0.00	0.30	0.48	0.42	0.49	86.20
Chroococcus sp.	0.32	0.00	0.47	0.38	0.47	86.68
Oscillatoria sp.	0.32	0.00	0.47	0.39	0.47	87.15
Chaetoceros compressum	0.00	0.26	0.44	0.32	0.45	87.60
Chaetoceros decipiens	0.00	0.23	0.42	0.34	0.42	88.02
Nitzschia closterium	0.20	0.05	0.36	0.33	0.37	88.38
Unknown diatom sp. A	0.20	0.00	0.36	0.27	0.37	88.75
Merismopedia sp.	0.18	0.08	0.36	0.31	0.36	89.11
Actinastrum sp.	0.18	0.00	0.35	0.37	0.36	89.47
Unknown diatom sp. 17	0.20	0.00	0.34	0.39	0.34	89.82
Crucigenia sp.	0.21	0.00	0.32	0.38	0.32	90.14

Groups 70%Grp6 & 70%Grp2

Average dissimilarity = 94.49

Species	Group 70%Grp6 Av.Abund	Group 70%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	8.99	1.58	9.52	9.52
Unknown Cryptophyte sp.	6.29	0.00	8.79	2.26	9.31	18.82
Skeletonema costatum	3.34	3.66	4.83	1.29	5.11	23.93
Thalassiosira sp.	3.51	0.00	4.65	1.06	4.92	28.86
Unknown diatom sp.	3.30	0.00	4.37	1.64	4.63	33.48
Unknown Dinoflagellate sp.	3.01	0.00	4.25	1.26	4.50	37.98
Cryptomonas sp.1	0.00	2.86	4.06	2.02	4.30	42.28
Synechocystis aquaticus Sauvageau	0.00	2.84	4.02	1.45	4.26	46.54
Prorocentrum minimum	1.60	0.00	2.42	0.35	2.56	49.10
Peridinium sp.	1.80	0.00	2.22	0.75	2.35	51.45
Pyramimonas sp.	1.63	0.00	2.03	0.92	2.15	53.60
Eutreptia sp.	1.21	0.00	1.71	0.49	1.81	55.42
Eutreptiella sp.	0.69	0.75	1.70	0.63	1.80	57.21
Skeletonema menezelli	1.46	0.00	1.64	0.34	1.73	58.94
Chaetoceros sp.	1.28	0.00	1.49	0.61	1.57	60.51
Chlymentomonas sp.	0.00	0.92	1.29	0.81	1.37	61.88
Nitzschia closterium	0.92	0.05	1.26	0.68	1.33	63.21
Peridinium cerasus	0.00	0.89	1.24	0.67	1.31	64.52
Ceratium hircus	0.36	0.57	1.13	0.61	1.20	65.72
Nitzschia pungens	0.82	0.11	1.13	0.60	1.19	66.91
Gymnodinium simplex	0.00	0.75	1.06	0.71	1.12	68.03
Prorocentrum sp.	0.77	0.00	1.03	0.33	1.09	69.12
Gymnodinium splendens	0.00	0.71	1.00	0.49	1.06	70.18
Rhizosolenia setigera	0.51	0.35	0.91	0.63	0.97	71.15
Chroococcus minutus	0.00	0.62	0.87	0.40	0.92	72.07
Unknown Katodinium sp.	0.54	0.00	0.85	0.29	0.90	72.97
Spermatozoopsis exultans	0.00	0.63	0.84	0.67	0.89	73.86
Leptocylindricus minimum	0.72	0.00	0.83	0.54	0.88	74.74
Cryptomonas ovata	0.00	0.59	0.82	0.61	0.86	75.61
Prorocentrum micans	0.34	0.25	0.79	0.39	0.84	76.45
Scenedesmus sp.	0.60	0.00	0.78	0.44	0.82	77.27
Gonyaulax palustre	0.00	0.53	0.73	0.60	0.77	78.04
Leptocylindricus danicus	0.65	0.00	0.71	0.35	0.75	78.79
Apedinella radians	0.50	0.00	0.65	0.44	0.69	79.48
Glenodinium sp.	0.50	0.00	0.64	0.30	0.68	80.16
Navicula sp. large	0.47	0.00	0.63	0.44	0.67	80.82
Chaetoceros subtilis	0.16	0.34	0.62	0.42	0.66	81.48
Unknown diatom sp. A	0.52	0.00	0.61	0.33	0.65	82.13

Chaetoceros gracile	0.51	0.00	0.61	0.29	0.65	82.77
Unknown flagellate sp. 1	0.00	0.45	0.61	0.55	0.65	83.42
Calycomonas ovalis	0.00	0.44	0.60	0.44	0.64	84.06
Minutocellus sp.	0.51	0.00	0.60	0.41	0.63	84.69
Cyclotella sp.	0.00	0.42	0.57	0.49	0.61	85.30
Unknown Vegetative cell sp.	0.31	0.00	0.53	0.28	0.56	85.86
Cryptomonas erosa	0.00	0.37	0.49	0.51	0.51	86.37
Prorocentrum redfieldi	0.41	0.00	0.48	0.19	0.51	86.88
Unknown bluegreen sp.	0.33	0.00	0.46	0.32	0.49	87.38
Chaetoceros muelleri	0.35	0.00	0.45	0.33	0.47	87.85
Coscinodiscus sp.	0.28	0.00	0.41	0.30	0.44	88.29
Aphanocapsa sp.	0.36	0.00	0.40	0.34	0.43	88.72
Biddulphia sinensis	0.00	0.29	0.39	0.39	0.41	89.13
Akistrodesmus sp.	0.33	0.00	0.39	0.30	0.41	89.54
Scenedesmus quadricauda v. Westii	0.00	0.30	0.38	0.41	0.40	89.94
Pyrophacus sp.	0.26	0.00	0.38	0.26	0.40	90.34

Groups 70%Grp5 & 70%Grp2

Average dissimilarity = 91.28

Species	Group 70%Grp5 Av.Abund	Group 70%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.13	0.00	7.30	2.04	8.00	8.00
Unknown Cryptophyte sp.	5.10	0.00	6.75	2.28	7.40	15.39
Skeletonema costatum	7.46	3.66	6.32	1.59	6.92	22.31
Thalassiosira sp.	4.15	0.00	4.82	2.50	5.28	27.60
Nitzschia closterium	3.83	0.05	4.55	2.47	4.98	32.58
Unknown diatom sp.	3.67	0.00	4.42	2.26	4.84	37.42
Cryptomonas sp.1	0.00	2.86	3.69	1.96	4.05	41.46
Synechocystis aquaticus Sauvageau	0.00	2.84	3.66	1.42	4.01	45.47
Nitzschia pungens	2.56	0.11	3.10	1.24	3.40	48.87
Unknown Dinoflagellate sp.	2.35	0.00	2.76	1.30	3.03	51.90
Chaetoceros sp.	2.39	0.00	2.73	1.13	2.99	54.89
Skeletonema menezelli	2.03	0.00	2.00	0.41	2.19	57.08
Pyramimonas sp.	1.39	0.00	1.79	0.79	1.96	59.04
Leptocylindricus minimum	1.46	0.00	1.60	0.76	1.76	60.80
Ceratium hircus	0.95	0.57	1.48	0.71	1.62	62.42
Chaetoceros muelleri	1.09	0.00	1.22	0.60	1.33	63.76
Chlymentomonas sp.	0.00	0.92	1.18	0.80	1.29	65.05
Peridinium sp.	1.06	0.00	1.14	0.58	1.25	66.30
Peridinium cerasus	0.00	0.89	1.12	0.66	1.23	67.53
Thalassionema nitzschoides	0.96	0.16	1.12	0.64	1.23	68.75

Rhizosolenia setigera	0.77	0.35	1.09	0.72	1.20	69.95
Asterionella japonica	0.98	0.00	1.06	0.57	1.16	71.11
Eutreptiella sp.	0.12	0.75	1.01	0.74	1.11	72.22
Gymnodinium simplex	0.00	0.75	0.96	0.70	1.06	73.28
Gymnodinium splendens	0.00	0.71	0.91	0.48	1.00	74.27
Leptocylindricus danicus	0.69	0.00	0.90	0.52	0.99	75.26
Minutocellus sp.	0.83	0.00	0.88	0.54	0.97	76.22
Navicula sp. large	0.73	0.00	0.87	0.60	0.96	77.18
Chroococcus minutus	0.00	0.62	0.79	0.40	0.87	78.05
Spermatozoopsis exultans	0.00	0.63	0.77	0.67	0.84	78.89
Cryptomonas ovata	0.00	0.59	0.74	0.61	0.81	79.70
Chaetoceros subtilis	0.27	0.34	0.69	0.42	0.76	80.46
Prorocentrum sp.	0.58	0.00	0.68	0.41	0.74	81.21
Unknown diatom sp. A	0.58	0.00	0.68	0.42	0.74	81.95
Gonyaulax palustre	0.00	0.53	0.66	0.59	0.73	82.68
Prorocentrum micans	0.32	0.25	0.57	0.55	0.63	83.31
Unknown flagellate sp. 1	0.00	0.45	0.56	0.55	0.61	83.91
Calycomonas ovalis	0.00	0.44	0.55	0.44	0.60	84.52
Cyclotella sp.	0.00	0.42	0.52	0.48	0.57	85.09
Navicula sp. small	0.46	0.00	0.49	0.36	0.54	85.63
Cryptomonas erosa	0.00	0.37	0.44	0.50	0.49	86.12
Chaetoceros gracile	0.36	0.00	0.44	0.20	0.49	86.60
Pyrophacus sp.	0.39	0.00	0.42	0.29	0.46	87.06
Apedinella radians	0.30	0.00	0.37	0.37	0.41	87.47
Aphanocapsa sp.	0.40	0.00	0.37	0.37	0.41	87.88
Unknown bluegreen sp.	0.36	0.00	0.37	0.43	0.40	88.28
Biddulphia sinensis	0.00	0.29	0.36	0.38	0.39	88.67
Scenedesmus quadricauda v. Westii	0.00	0.30	0.35	0.41	0.38	89.05
Scenedesmus sp.	0.27	0.00	0.34	0.29	0.38	89.43
Akistrodesmus sp.	0.28	0.00	0.34	0.28	0.37	89.80
Nitzschia delicatissima	0.31	0.00	0.33	0.20	0.36	90.16

Groups 70%Grp4 & 70%Grp2

Average dissimilarity = 91.50

Species	Group 70%Grp4 Av.Abund	Group 70%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	10.63	2.00	11.62	11.62
Unknown diatom sp. D	8.36	0.00	8.46	2.92	9.25	20.87
Unknown Cryptophyte sp.	7.43	0.00	7.93	13.09	8.67	29.54
Thalassiosira sp.	4.72	0.00	5.10	7.65	5.58	35.11
Unknown diatom sp.	4.70	0.00	4.93	8.62	5.39	40.51

Nitzschia closterium	4.12	0.05	4.50	3.78	4.92	45.42
Pyramimonas sp.	3.83	0.00	4.13	8.67	4.51	49.94
Cryptomonas sp.1	0.00	2.86	3.10	2.27	3.39	53.32
Synechocystis aquaticus Sauvageau	0.00	2.84	3.07	1.53	3.36	56.68
Rhizosolenia fragilissima	2.34	0.05	2.94	1.00	3.22	59.90
Chaetoceros sp.	3.08	0.00	2.84	0.99	3.10	63.00
Skeletonema costatum	5.96	3.66	2.43	1.23	2.65	65.65
Gymnodinium sp.	2.63	0.00	2.42	0.99	2.65	68.30
Apedinella radians	1.78	0.00	2.24	0.99	2.45	70.75
Nitzschia pungens	2.29	0.11	2.13	1.03	2.33	73.08
Cerataulina bergonii large	1.50	0.00	1.89	0.99	2.06	75.14
Leptocylicus minimum	1.88	0.00	1.73	0.99	1.89	77.03
Prorocentrum sp.	1.50	0.00	1.38	0.99	1.51	78.54
Peridinium sp.	1.50	0.00	1.38	0.99	1.51	80.05
Rhizosolenia setigera	1.26	0.35	1.25	1.07	1.37	81.42
Navicula sp. large	1.26	0.00	1.16	0.99	1.27	82.68
Leptocylicus danicus	1.26	0.00	1.16	0.99	1.27	83.95
Chlymentomonas sp.	0.00	0.92	0.99	0.83	1.08	85.03
Peridinium cerasus	0.00	0.89	0.95	0.69	1.04	86.07
Gymnodinium simplex	0.00	0.75	0.81	0.72	0.88	86.96
Eutreptiella sp.	0.00	0.75	0.79	0.73	0.86	87.82
Gymnodinium splendens	0.00	0.71	0.76	0.51	0.83	88.65
Chroococcus minutus	0.00	0.62	0.67	0.41	0.73	89.38
Spermatozoopsis exultans	0.00	0.63	0.65	0.69	0.71	90.09

Groups 70%Grp7 & 70%Grp2

Average dissimilarity = 92.65

Species	Group 70%Grp7 Av.Abund	Group 70%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	3.66	6.69	1.26	7.23	7.23
Cryptomonas sp.1	0.00	2.86	6.00	1.85	6.48	13.71
Synechocystis aquaticus Sauvageau	0.00	2.84	5.92	1.40	6.39	20.10
Unknown pennate diatom sp.	2.07	0.00	4.24	1.64	4.57	24.67
Cyclotella sp.	1.76	0.42	3.53	0.86	3.81	28.48
Cyclotella sp. (small)	1.79	0.00	3.46	0.71	3.73	32.21
Cyclotella sp. (large)	1.45	0.00	2.66	0.60	2.88	35.09
Scenedesmus quadricauda	1.15	0.00	2.13	1.08	2.30	37.39
Gymnodinium sp.	1.01	0.00	2.08	0.99	2.24	39.63
Chlymentomonas sp.	0.00	0.92	1.90	0.78	2.05	41.68
Schroederia setigera	1.04	0.00	1.89	1.04	2.04	43.72
Thalassiosira pseudonana	1.05	0.00	1.84	0.57	1.98	45.70

Eutreptia sp.	0.88	0.00	1.83	0.96	1.97	47.67
Peridinium cerasus	0.00	0.89	1.80	0.65	1.94	49.61
Scenedesmus bijinga	0.90	0.00	1.64	0.83	1.77	51.38
Gymnodinium simplex	0.00	0.75	1.57	0.69	1.69	53.08
Gymnodinium splendens	0.00	0.71	1.48	0.46	1.60	54.68
Eutreptiella sp.	0.00	0.75	1.48	0.71	1.60	56.27
Thalassiosira decipiens	0.91	0.00	1.45	0.50	1.57	57.84
Nitzschia longissima	0.78	0.00	1.43	0.93	1.55	59.39
Chroococcus minutus	0.00	0.62	1.27	0.39	1.37	60.76
Chaetoceros subtilis	0.44	0.34	1.27	0.64	1.37	62.13
Ceratium hircus	0.00	0.57	1.21	0.49	1.31	63.44
Spermatozoopsis exultans	0.00	0.63	1.21	0.66	1.30	64.74
Cryptomonas ovata	0.00	0.59	1.19	0.60	1.29	66.03
Akistrodesmus falcatus	0.64	0.00	1.16	0.67	1.25	67.28
Gonyaulax palustre	0.00	0.53	1.05	0.59	1.13	68.41
Amphiprora sp.	0.49	0.00	0.93	0.62	1.01	69.42
Actinastrum hantzschii	0.49	0.00	0.89	0.50	0.96	70.39
Bluegreen filamentous sp.	0.41	0.00	0.88	0.60	0.95	71.34
Unknown flagellate sp. 1	0.00	0.45	0.88	0.55	0.95	72.30
Calycomonas ovalis	0.00	0.44	0.88	0.44	0.95	73.24
Melosira sp.	0.36	0.00	0.70	0.51	0.76	74.00
Rhizosolenia setigera	0.00	0.35	0.69	0.40	0.75	74.75
Cryptomonas erosa	0.00	0.37	0.69	0.50	0.74	75.49
Cyclotella meneghiniana	0.40	0.00	0.66	0.28	0.71	76.21
Scenedesmus acutus	0.34	0.00	0.63	0.40	0.69	76.89
Crucigenia sp.	0.22	0.00	0.63	0.51	0.68	77.57
Dictyosphaerium sp.	0.46	0.00	0.62	0.39	0.67	78.24
Merismopedia punctata	0.29	0.00	0.58	0.37	0.62	78.86
Biddulphia sinensis	0.00	0.29	0.56	0.38	0.61	79.47
Pleurosigma sp.	0.24	0.00	0.56	0.50	0.60	80.07
Nitzschia sp.	0.09	0.13	0.56	0.36	0.60	80.68
Scenedesmus quadricauda v. Westii	0.00	0.30	0.54	0.41	0.58	81.26
Melosira nummuloidea	0.25	0.00	0.52	0.40	0.56	81.81
Chaetoceros compressum	0.00	0.26	0.50	0.32	0.54	82.36
Prorocentrum micans	0.00	0.25	0.50	0.39	0.54	82.90
Chaetoceros decipiens	0.00	0.23	0.47	0.33	0.51	83.41
Scenedesmus abundans	0.29	0.00	0.44	0.39	0.48	83.88
Kirchneriella sp.	0.11	0.09	0.43	0.34	0.46	84.35
Scenedesmus sp.	0.26	0.00	0.43	0.40	0.46	84.81
Micractinium pusillum	0.30	0.00	0.41	0.38	0.44	85.25
Scenedesmus acuminatus	0.26	0.00	0.40	0.41	0.43	85.68
Prorocentrum minimum	0.16	0.00	0.37	0.39	0.40	86.08
Tetrastrum sp.	0.24	0.00	0.36	0.40	0.39	86.47

Coscinodiscus eccentricus	0.00	0.18	0.34	0.36	0.37	86.84
Nitzschia palea	0.00	0.18	0.33	0.33	0.36	87.20
Thalassionema nitzschoides	0.00	0.16	0.33	0.22	0.35	87.56
Amphidinium crassum	0.00	0.18	0.33	0.31	0.35	87.91
Cyclotella undulata	0.00	0.16	0.31	0.27	0.34	88.25
Coelosphaerium sp.	0.00	0.18	0.31	0.26	0.34	88.58
Tropodineis lepidoptera	0.19	0.00	0.31	0.28	0.33	88.92
Nitzschia closterium	0.08	0.05	0.30	0.34	0.32	89.24
Unknown chlorophyte sp.	0.18	0.00	0.29	0.28	0.32	89.56
Unkown C sp.	0.22	0.00	0.28	0.28	0.31	89.86
Rhizosolenia stolterfothii	0.00	0.14	0.28	0.20	0.30	90.16

Groups 70%Grp9 & 70%Grp2

Average dissimilarity = 84.85

Species	Group 70%Grp9 Av.Abund	Group 70%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Cryptomonas sp.1	0.00	2.86	6.59	1.94	7.77	7.77
Synechocystis aquaticus Sauvageau	0.00	2.84	6.49	1.45	7.65	15.42
Skeletonema costatum	4.02	3.66	4.36	1.10	5.14	20.57
Chaetoceros subtilis	1.53	0.34	3.72	0.92	4.38	24.95
Nitzschia closterium	1.16	0.05	2.37	1.15	2.79	27.73
Peridinium aciculiferum	0.96	0.00	2.35	0.82	2.77	30.51
Chlymentomonas sp.	0.00	0.92	2.08	0.79	2.45	32.96
Peridinium cerasus	0.00	0.89	1.97	0.66	2.32	35.28
Gymnodinium simplex	0.00	0.75	1.72	0.71	2.03	37.30
Schizothrix sp.	0.87	0.00	1.68	0.50	1.97	39.28
Leptocylicus minimum	0.86	0.00	1.67	0.77	1.97	41.25
Chaetoceros socialis	0.85	0.00	1.67	0.82	1.96	43.21
Gymnodinium splendens	0.00	0.71	1.63	0.47	1.92	45.13
Eutreptiella sp.	0.00	0.75	1.62	0.72	1.90	47.03
Unknown pennate diatom sp.	0.79	0.00	1.57	0.83	1.86	48.89
Ceratium hircus	0.18	0.57	1.52	0.56	1.79	50.68
Thalassiosira pseudonana	0.71	0.00	1.41	0.72	1.66	52.34
Chroococcus minutus	0.00	0.62	1.39	0.40	1.64	53.98
Rhizosolenia setigera	0.41	0.35	1.36	0.66	1.60	55.58
Thalassiosira sp.	0.61	0.00	1.35	0.55	1.59	57.17
Nitzschia longissima	0.64	0.00	1.35	0.87	1.59	58.76
Cyclotella sp.	0.31	0.42	1.32	0.64	1.55	60.31
Spermatozoopsis exultans	0.00	0.63	1.32	0.67	1.55	61.86
Cryptomonas ovata	0.00	0.59	1.31	0.61	1.54	63.40
Gonyaulax palustre	0.00	0.53	1.15	0.60	1.35	64.76

Ceratulina bergonii	0.49	0.00	1.12	0.40	1.33	66.08
Thalassionema nitzschoides	0.40	0.16	1.06	0.53	1.25	67.34
Chaetoceros neogracile	0.50	0.00	0.97	0.59	1.14	68.48
Unknown flagellate sp. 1	0.00	0.45	0.97	0.55	1.14	69.62
Calycomonas ovalis	0.00	0.44	0.96	0.44	1.13	70.75
Nitzschia pungens	0.38	0.11	0.90	0.54	1.07	71.81
Eutreptia sp.	0.45	0.00	0.88	0.63	1.03	72.85
Prorocentrum micans	0.24	0.25	0.88	0.56	1.03	73.88
Chaetoceros compressum	0.15	0.26	0.82	0.42	0.97	74.85
Cryptomonas erosa	0.00	0.37	0.75	0.51	0.88	75.73
Gymnodinium sp.	0.33	0.00	0.71	0.50	0.84	76.57
Prorocentrum minimum	0.37	0.00	0.68	0.55	0.81	77.38
Cyclotella sp. (small)	0.25	0.00	0.63	0.28	0.75	78.13
Schroederia setigera	0.27	0.00	0.62	0.41	0.73	78.86
Biddulphia sinensis	0.00	0.29	0.61	0.39	0.72	79.58
Gonyaulax polygramma	0.24	0.00	0.59	0.41	0.69	80.28
Chaetoceros decipiens	0.05	0.23	0.59	0.37	0.69	80.97
Scenedesmus quadricauda v. Westii	0.00	0.30	0.59	0.41	0.69	81.66
Peridinium sp.	0.26	0.00	0.55	0.39	0.65	82.31
Asterionella glacialis	0.17	0.09	0.50	0.34	0.59	82.90
Nitzschia sp.	0.06	0.13	0.45	0.30	0.53	83.43
Scrippsiella sp.	0.24	0.00	0.44	0.44	0.51	83.94
Navicula sp.	0.08	0.13	0.41	0.41	0.48	84.42
Gonyaulax spinifera	0.20	0.00	0.40	0.41	0.48	84.90
Coscinodiscus eccentricus	0.00	0.18	0.38	0.37	0.44	85.34
Nitzschia palea	0.00	0.18	0.36	0.34	0.43	85.77
Euglena sp.	0.20	0.00	0.36	0.32	0.42	86.19
Amphidinium crassum	0.00	0.18	0.36	0.31	0.42	86.61
Cyclotella undulata	0.00	0.16	0.34	0.27	0.40	87.01
Coelosphaerium sp.	0.00	0.18	0.34	0.27	0.40	87.41
Gonyaulax monilata	0.17	0.00	0.34	0.32	0.40	87.81
Crucigenia fenestrata	0.04	0.11	0.32	0.24	0.37	88.18
Rhizosolenia calcar-avis	0.03	0.13	0.31	0.29	0.37	88.54
Leptocylindricus danicus	0.16	0.00	0.30	0.33	0.36	88.90
Rhizosolenia stolterfothii	0.00	0.14	0.30	0.21	0.36	89.26
Actinopterychus undulatus	0.00	0.12	0.29	0.23	0.35	89.61
Scenedesmus quadracauda	0.13	0.00	0.28	0.28	0.33	89.94
Thalassiosira oestrupii	0.15	0.00	0.28	0.33	0.33	90.27

Groups 70%Grp10 & 70%Grp2

Average dissimilarity = 86.19

Species	Group 70%Grp10 Av.Abund	Group 70%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Cryptomonas sp.1	0.00	2.86	6.00	2.19	6.96	6.96
Synechocystis aquaticus Sauvageau	0.00	2.84	5.92	1.54	6.87	13.83
Chaetoceros subtilis	2.80	0.34	5.42	1.50	6.29	20.11
Skeletonema costatum	4.06	3.66	3.95	1.31	4.59	24.70
Cyclotella sp. (small)	1.40	0.00	2.88	0.68	3.34	28.04
Schroederia setigera	1.25	0.00	2.54	1.46	2.95	30.99
Thalassiosira pseudonana	1.15	0.00	2.36	0.70	2.74	33.73
Peridinium aciculiferum	1.07	0.00	2.34	0.72	2.71	36.44
Gymnodinium sp.	1.06	0.00	2.12	0.83	2.46	38.89
Cyclotella sp.	0.79	0.42	2.02	0.72	2.34	41.23
Nitzschia longissima	0.91	0.00	1.95	1.22	2.26	43.49
Chlymentomonas sp.	0.00	0.92	1.90	0.82	2.20	45.70
Peridinium cerasus	0.00	0.89	1.80	0.68	2.09	47.78
Gymnodinium simplex	0.00	0.75	1.57	0.73	1.82	49.60
Schizothrix sp.	0.71	0.00	1.55	0.47	1.80	51.40
Unknown pennate diatom sp.	0.72	0.00	1.50	0.73	1.74	53.14
Eutreptiella sp.	0.00	0.75	1.48	0.74	1.72	54.86
Gymnodinium splendens	0.00	0.71	1.48	0.49	1.72	56.57
Scenedesmus quadricauda	0.73	0.00	1.47	0.81	1.71	58.28
Chroococcus minutus	0.00	0.62	1.27	0.41	1.47	59.75
Ceratium hircus	0.00	0.57	1.21	0.51	1.41	61.16
Spermatozoopsis exultans	0.00	0.63	1.21	0.69	1.41	62.57
Thalassiosira decipiens	0.59	0.00	1.20	0.74	1.39	63.95
Cryptomonas ovata	0.00	0.59	1.19	0.63	1.39	65.34
Gonyaulax polygramma	0.53	0.00	1.14	0.67	1.32	66.66
Gonyaulax palustre	0.00	0.53	1.06	0.61	1.22	67.88
Unknown flagellate sp. 1	0.00	0.45	0.89	0.57	1.03	68.91
Calycomonas ovalis	0.00	0.44	0.88	0.45	1.02	69.93
Akistrodesmus falcatus	0.46	0.00	0.88	0.56	1.02	70.95
Scenedesmus bijinga	0.43	0.00	0.87	0.50	1.01	71.96
Nitzschia closterium	0.40	0.05	0.86	0.62	1.00	72.96
Eutreptia sp.	0.42	0.00	0.84	0.59	0.98	73.93
Euglena sp.	0.38	0.00	0.80	0.50	0.92	74.86
Rhizosolenia setigera	0.06	0.35	0.78	0.46	0.90	75.76
Peridinium sp.	0.41	0.00	0.76	0.56	0.88	76.64
Cryptomonas erosa	0.00	0.37	0.69	0.52	0.80	77.44
Nitzschia pungens	0.21	0.11	0.62	0.49	0.72	78.16
Thalassiosira sp.	0.31	0.00	0.58	0.48	0.67	78.83
Biddulphia sinensis	0.00	0.29	0.57	0.39	0.66	79.49
Prorocentrum minimum	0.29	0.00	0.55	0.50	0.64	80.13
Scenedesmus quadricauda v. Westii	0.00	0.30	0.54	0.42	0.63	80.75

Leptocylindricus minimum	0.29	0.00	0.53	0.41	0.61	81.36
Merismopedia punctata	0.23	0.00	0.53	0.33	0.61	81.97
Chaetoceros compressum	0.00	0.26	0.50	0.33	0.58	82.56
Prorocentrum micans	0.00	0.25	0.50	0.41	0.58	83.14
Scenedesmus acuminatus	0.24	0.00	0.50	0.42	0.58	83.72
Nostoc sp.(trichomes)	0.21	0.00	0.49	0.42	0.57	84.29
Thalassionema nitzschoides	0.09	0.16	0.49	0.31	0.57	84.86
Chaetoceros decipiens	0.00	0.23	0.47	0.34	0.55	85.41
Scrippsiella sp.	0.18	0.00	0.40	0.33	0.46	85.87
Leptocylindricus danicus	0.20	0.00	0.38	0.33	0.44	86.32
Pleurosigma sp.	0.16	0.00	0.38	0.30	0.44	86.75
Bacillaria paradoxa	0.13	0.08	0.37	0.31	0.43	87.19
Coscinodiscus eccentricus	0.00	0.18	0.35	0.37	0.40	87.59
Chaetoceros neogracile	0.17	0.00	0.35	0.34	0.40	87.99
Nitzschia palea	0.00	0.18	0.34	0.34	0.39	88.38
Amphidinium crassum	0.00	0.18	0.33	0.31	0.38	88.76
Bluegreen filamentous sp.	0.15	0.00	0.32	0.34	0.37	89.14
Cyclotella undulata	0.00	0.16	0.31	0.28	0.37	89.50
Coelosphaerium sp.	0.00	0.18	0.31	0.27	0.36	89.86
Scenedesmus acutus	0.16	0.00	0.31	0.23	0.36	90.22

Groups 70%Grp11 & 70%Grp2

Average dissimilarity = 86.66

Species	Group 70%Grp11 Av.Abund	Group 70%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.90	3.66	6.48	1.16	7.48	7.48
Cryptomonas sp.1	0.00	2.86	5.68	1.91	6.55	14.03
Synechocystis aquaticus Sauvageau	0.00	2.84	5.60	1.42	6.46	20.49
Prorocentrum minimum	1.59	0.00	2.86	0.97	3.30	23.79
Thalassiosira pseudonana	1.56	0.00	2.74	0.83	3.16	26.95
Eutreptia sp.	1.43	0.00	2.57	0.98	2.96	29.91
Thalassiosira sp.	1.38	0.00	2.54	0.65	2.93	32.85
Cyclotella sp.	0.83	0.42	1.84	0.68	2.13	34.97
Chlymentomonas sp.	0.00	0.92	1.80	0.79	2.07	37.05
Chaetoceros subtilis	0.83	0.34	1.77	0.81	2.05	39.09
Peridinium cerasus	0.00	0.89	1.70	0.65	1.97	41.06
Schroederia setigera	0.82	0.00	1.60	0.90	1.85	42.91
Peridinium aciculiferum	0.84	0.00	1.56	0.82	1.80	44.70
Gymnodinium simplex	0.00	0.75	1.48	0.70	1.71	46.41
Thalassiosira decipiens	0.84	0.00	1.45	0.78	1.68	48.09
Unknown pennate diatom sp.	0.81	0.00	1.43	0.68	1.66	49.74

Eutreptiella sp.	0.00	0.75	1.40	0.71	1.62	51.36
Gymnodinium splendens	0.00	0.71	1.40	0.47	1.62	52.98
Nitzschia longissima	0.74	0.00	1.36	0.97	1.57	54.55
Leptocylindricus minimum	0.75	0.00	1.24	0.58	1.43	55.98
Chroococcus minutus	0.00	0.62	1.20	0.40	1.39	57.37
Euglena sp.	0.69	0.00	1.20	0.44	1.39	58.75
Ceratium hircus	0.08	0.57	1.20	0.52	1.38	60.14
Scrippsiella sp.	0.59	0.00	1.16	0.63	1.34	61.48
Spermatozoopsis exultans	0.00	0.63	1.15	0.67	1.32	62.80
Cryptomonas ovata	0.00	0.59	1.13	0.61	1.30	64.10
Nitzschia closterium	0.62	0.05	1.11	0.91	1.28	65.39
Ceratulina bergonii	0.53	0.00	1.10	0.42	1.26	66.65
Gonyaulax palustre	0.00	0.53	1.00	0.60	1.15	67.80
Merismopedia punctata	0.54	0.00	0.93	0.46	1.07	68.88
Gymnodinium sp.	0.53	0.00	0.92	0.70	1.06	69.94
Rhizosolenia setigera	0.16	0.35	0.85	0.48	0.98	70.92
Schizothrix sp.	0.49	0.00	0.85	0.43	0.98	71.90
Unknown flagellate sp. 1	0.00	0.45	0.84	0.55	0.97	72.87
Calycomonas ovalis	0.00	0.44	0.83	0.44	0.96	73.83
Scenedesmus quadricauda	0.46	0.00	0.74	0.48	0.85	74.68
Akistrodesmus falcatus	0.43	0.00	0.74	0.54	0.85	75.54
Thalassionema nitzschoides	0.20	0.16	0.70	0.39	0.81	76.35
Crucigenia sp.	0.38	0.00	0.66	0.48	0.76	77.11
Cryptomonas erosa	0.00	0.37	0.66	0.50	0.76	77.87
Prorocentrum micans	0.13	0.25	0.63	0.51	0.73	78.60
Chaetoceros neogracile	0.31	0.00	0.63	0.51	0.73	79.32
Pyramimonas sp.	0.33	0.00	0.56	0.35	0.65	79.97
Biddulphia sinensis	0.00	0.29	0.54	0.38	0.62	80.59
Scenedesmus quadricauda v. Westii	0.00	0.30	0.51	0.41	0.59	81.18
Nostoc sp.(trichomes)	0.27	0.00	0.50	0.42	0.58	81.76
Peridinium sp.	0.31	0.00	0.48	0.55	0.56	82.32
Chaetoceros compressum	0.00	0.26	0.48	0.32	0.55	82.87
Chaetoceros socialis	0.28	0.00	0.46	0.36	0.53	83.40
Chaetoceros decipiens	0.00	0.23	0.45	0.34	0.52	83.92
Scenedesmus bijinga	0.28	0.00	0.44	0.43	0.51	84.43
Nitzschia pungens	0.12	0.11	0.39	0.37	0.45	84.88
Bluegreen filamentous sp.	0.21	0.00	0.36	0.42	0.41	85.29
Coscinodiscus eccentricus	0.00	0.18	0.33	0.37	0.38	85.67
Scenedesmus acuminatus	0.19	0.00	0.32	0.35	0.37	86.04
Nitzschia palea	0.00	0.18	0.32	0.33	0.37	86.41
Amphidinium crassum	0.00	0.18	0.31	0.31	0.36	86.77
Cyclotella undulata	0.00	0.16	0.30	0.27	0.34	87.11
Coelosphaerium sp.	0.00	0.18	0.30	0.26	0.34	87.45

Nitzschia sp.	0.00	0.13	0.28	0.23	0.32	87.78
Gonyaulax polygramma	0.15	0.00	0.27	0.36	0.31	88.09
Rhizosolenia stolterfothii	0.00	0.14	0.26	0.21	0.30	88.39
Dinophysis caudata	0.10	0.07	0.26	0.37	0.30	88.70
Actinopterychus undulatus	0.00	0.12	0.25	0.23	0.29	88.99
Nitzschia sigma	0.15	0.00	0.25	0.27	0.29	89.28
Navicula sp.	0.00	0.13	0.25	0.31	0.29	89.57
Rhizosolenia styliiformis	0.00	0.14	0.24	0.25	0.28	89.84
Peridinium trochoideum	0.14	0.00	0.23	0.29	0.27	90.11

Groups 70%Grp8 & 70%Grp2

Average dissimilarity = 89.36

Species	Group 70%Grp8 Av.Abund	Group 70%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.07	3.66	6.13	1.23	6.86	6.86
Cryptomonas sp.1	0.00	2.86	5.42	1.58	6.06	12.92
Synechocystis aquaticus Sauvageau	0.00	2.84	5.34	1.26	5.98	18.90
Schizothrix sp.	2.14	0.00	3.43	0.68	3.84	22.74
Thalassionema nitzschoides	1.63	0.16	3.05	0.72	3.41	26.15
Ceratulina bergonii	1.39	0.00	2.47	0.73	2.76	28.91
Leptocylindricus minimum	1.63	0.00	2.19	1.12	2.45	31.35
Chaetoceros socialis	1.47	0.00	1.88	0.82	2.10	33.45
Nitzschia closterium	1.37	0.05	1.88	0.84	2.10	35.55
Chaetoceros neogracile	1.24	0.00	1.84	0.88	2.06	37.61
Unknown pennate diatom sp.	1.09	0.00	1.82	0.83	2.04	39.65
Rhizosolenia setigera	0.93	0.35	1.72	0.82	1.93	41.58
Chlymentomonas sp.	0.00	0.92	1.71	0.73	1.92	43.50
Ceratium hircus	0.73	0.57	1.67	0.76	1.86	45.36
Prorocentrum micans	0.97	0.25	1.63	0.99	1.83	47.19
Peridinium cerasus	0.00	0.89	1.62	0.61	1.82	49.01
Nitzschia pungens	1.11	0.11	1.61	0.74	1.80	50.81
Thalassiosira sp.	0.93	0.00	1.43	0.64	1.60	52.42
Gymnodinium simplex	0.00	0.75	1.41	0.66	1.58	54.00
Chaetoceros compressum	0.87	0.26	1.36	0.70	1.52	55.52
Gymnodinium splendens	0.00	0.71	1.34	0.44	1.50	57.01
Eutreptiella sp.	0.00	0.75	1.34	0.67	1.49	58.51
Asterionella glacialis	0.87	0.09	1.19	0.69	1.33	59.84
Chroococcus minutus	0.00	0.62	1.15	0.38	1.28	61.12
Chaetoceros subtilis	0.59	0.34	1.11	0.64	1.24	62.36
Spermatozoopsis exultans	0.00	0.63	1.09	0.63	1.22	63.58
Thalassiosira decipiens	0.64	0.00	1.09	0.58	1.22	64.80

Cryptomonas ovata	0.00	0.59	1.08	0.57	1.20	66.01
Chaetoceros sp.	0.56	0.00	1.04	0.33	1.16	67.17
Gonyaulax palustre	0.00	0.53	0.95	0.57	1.06	68.24
Prorocentrum minimum	0.72	0.00	0.94	0.94	1.06	69.29
Nitzschia longissima	0.64	0.00	0.83	0.86	0.92	70.22
Unknown flagellate sp. 1	0.00	0.45	0.80	0.52	0.89	71.11
Calycomonas ovalis	0.00	0.44	0.79	0.42	0.89	72.00
Peridinium sp.	0.41	0.00	0.79	0.52	0.88	72.88
Melosira sp.	0.26	0.00	0.75	0.32	0.84	73.72
Cyclotella sp.	0.00	0.42	0.75	0.46	0.84	74.56
Cryptomonas erosa	0.00	0.37	0.62	0.48	0.70	75.26
Leptocylindricus danicus	0.46	0.00	0.60	0.58	0.68	75.93
Amphora sp.	0.41	0.00	0.60	0.42	0.67	76.61
Biddulphia sinensis	0.00	0.29	0.51	0.37	0.57	77.18
Scenedesmus quadricauda v. Westii	0.00	0.30	0.49	0.39	0.55	77.72
Rhizosolenia calcar-avis	0.22	0.13	0.49	0.45	0.54	78.27
Thalassiosira pseudonana	0.37	0.00	0.46	0.39	0.52	78.78
Gonyaulax polygramma	0.22	0.00	0.45	0.35	0.51	79.29
Navicula sp.	0.15	0.13	0.45	0.46	0.50	79.79
Pleurosigma sp.	0.27	0.00	0.45	0.46	0.50	80.29
Chaetoceros curvisetus	0.43	0.00	0.43	0.33	0.48	80.78
Chaetoceros decipiens	0.00	0.23	0.43	0.32	0.48	81.26
Thalassiosira oestrupii	0.30	0.00	0.42	0.50	0.47	81.72
Chaetoceros lorenzianum	0.32	0.00	0.42	0.43	0.46	82.19
Gonyaulax monilata	0.19	0.00	0.39	0.35	0.44	82.63
Rhizosolenia stolterfothii	0.10	0.14	0.38	0.29	0.42	83.05
Peridinium tuba	0.27	0.00	0.38	0.48	0.42	83.48
Rhizosolenia delicatula	0.26	0.00	0.36	0.42	0.40	83.88
Nitzschia sp.	0.05	0.13	0.35	0.28	0.39	84.27
Gymnodinium sp.	0.25	0.00	0.35	0.50	0.39	84.66
Thalassiothrix frauenfeldianum	0.18	0.00	0.33	0.32	0.37	85.03
Scrippsiella sp.	0.24	0.00	0.33	0.43	0.37	85.40
Hemiaulis hauckii	0.20	0.04	0.32	0.40	0.36	85.76
Gonyaulax digitalis	0.20	0.00	0.32	0.30	0.35	86.11
Coscinodiscus eccentricus	0.00	0.18	0.31	0.35	0.35	86.46
Coscinosira polychorda	0.21	0.00	0.31	0.36	0.34	86.80
Nitzschia palea	0.00	0.18	0.30	0.32	0.34	87.14
Amphidinium crassum	0.00	0.18	0.30	0.30	0.33	87.47
Eutreptia sp.	0.14	0.00	0.29	0.26	0.32	87.79
Cyclotella undulata	0.00	0.16	0.28	0.26	0.32	88.11
Coelosphaerium sp.	0.00	0.18	0.28	0.25	0.32	88.43
Coscinodiscus sp.	0.10	0.00	0.27	0.25	0.31	88.73
Nostoc sp.(trichomes)	0.17	0.00	0.27	0.34	0.30	89.03

Dinophysis caudata	0.11	0.07	0.26	0.36	0.30	89.33
Amphiprora sp.	0.21	0.00	0.25	0.44	0.28	89.61
Actinoptychus undulatus	0.00	0.12	0.24	0.22	0.27	89.88
Bacillaria paradoxa	0.09	0.08	0.23	0.26	0.26	90.14

Groups 70%Grp1 & 70%Grp2

Average dissimilarity = 67.68

Species	Group 70%Grp1 Av.Abund	Group 70%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	1.15	3.66	5.68	1.46	8.40	8.40
Synechocystis aquaticus Sauvageau	3.49	2.84	4.10	1.14	6.06	14.46
Scenedesmus quadricauda v. Westii	2.19	0.30	3.94	1.28	5.82	20.28
Gonyaulax palustre	1.82	0.53	3.04	1.37	4.50	24.77
Spermatozoopsis exultans	1.79	0.63	3.02	1.17	4.47	29.24
Cryptomonas erosa	1.46	0.37	2.56	1.19	3.78	33.02
Chlymentomonas sp.	1.14	0.92	2.30	1.08	3.40	36.42
Cryptomonas sp.1	3.26	2.86	2.30	1.24	3.39	39.81
Cryptomonas ovata	1.01	0.59	2.11	1.00	3.12	42.93
Eutreptiella sp.	0.80	0.75	1.85	1.00	2.74	45.67
Chroococcus minutus	0.56	0.62	1.80	0.58	2.67	48.34
Coelosphaerium sp.	0.90	0.18	1.77	0.63	2.62	50.95
Peridinium cerasus	0.00	0.89	1.67	0.67	2.46	53.42
Cyclotella sp.	0.73	0.42	1.58	0.81	2.33	55.75
Gymnodinium simplex	0.20	0.75	1.53	0.81	2.26	58.02
Unknown flagellate sp. 1	0.56	0.45	1.46	0.81	2.15	60.17
Gymnodinium splendens	0.12	0.71	1.45	0.52	2.14	62.30
Nitzschia palea	0.70	0.18	1.32	0.88	1.94	64.25
Ceratium hircus	0.00	0.57	1.12	0.50	1.65	65.90
Navicula sp.	0.48	0.13	1.07	0.71	1.58	67.48
Cyclotella undulata	0.37	0.16	0.98	0.38	1.45	68.93
Chaetoceros subtilis	0.16	0.34	0.86	0.48	1.27	70.20
Calycomonas ovalis	0.05	0.44	0.86	0.47	1.27	71.47
Rhizosolenia setigera	0.00	0.35	0.64	0.41	0.95	72.42
Euglena acus	0.35	0.04	0.63	0.37	0.94	73.36
Merismopedia glauca	0.32	0.03	0.56	0.38	0.82	74.18
Nitzschia fruticosa	0.30	0.02	0.54	0.37	0.80	74.98
Scenedesmus abundans v. brevicauda	0.35	0.00	0.53	0.37	0.79	75.77
Biddulphia sinensis	0.00	0.29	0.52	0.39	0.78	76.54
Stephanodiscus sp.	0.26	0.00	0.49	0.35	0.72	77.26
Chaetoceros compressum	0.00	0.26	0.47	0.32	0.69	77.95
Prorocentrum micans	0.00	0.25	0.47	0.40	0.69	78.64

Nitzschia tryblionella	0.17	0.08	0.47	0.44	0.69	79.33
Coscinodiscus eccentricus	0.08	0.18	0.46	0.42	0.69	80.02
Cryptomonas curvata	0.24	0.04	0.46	0.44	0.68	80.70
Oscillatoria rubescens (trichome)	0.15	0.14	0.45	0.40	0.66	81.36
Nitzschia sp.	0.10	0.13	0.45	0.36	0.66	82.02
Oocystis sp.	0.27	0.05	0.44	0.41	0.65	82.67
Chaetoceros decipiens	0.00	0.23	0.44	0.34	0.65	83.31
Euglena sp.	0.21	0.00	0.43	0.21	0.63	83.95
Spirulina sp.1	0.24	0.02	0.42	0.36	0.62	84.57
Paralia sulcata	0.20	0.05	0.41	0.41	0.61	85.18
Merismopedia sp.	0.20	0.08	0.40	0.34	0.60	85.78
Amphidinium crassum	0.08	0.18	0.39	0.37	0.58	86.36
Actinopterychus undulatus	0.07	0.12	0.38	0.31	0.56	86.92
Lyngbya contorta (trichome)	0.25	0.00	0.37	0.32	0.54	87.46
Nitzschia pungens	0.12	0.11	0.36	0.37	0.53	87.99
Phormidium fragile (trichome)	0.24	0.00	0.36	0.37	0.53	88.52
Chlamydomonas sp.	0.25	0.00	0.35	0.37	0.51	89.03
Melosira granulata	0.18	0.03	0.34	0.38	0.50	89.53
Bacillaria paradoxa	0.09	0.08	0.32	0.29	0.47	90.01

Appendix K. SIMPER test results for the combined river species averaged by the 75% grouping level.

SIMPER

Similarity Percentages - species contributions

Worksheet

File: F:\3 Rivers\Combined Files\combspeciesOKwithchemBIOENVtransformed.pri

Sample selection: All

Variable selection: All

Parameters

Standardise data: No

Transform: None

Cut off for low contributions: 90.00%

Factor name: Sim75%RPC

Factor groups

75%Grp4 ALA0

75%Grp7 ALA6-12-18

75%Grp6 ALASFB-TB

75%Grp5 ALASFC

75%Grp8 LMR0

75%Grp10 LMR12

75%Grp12 LMR6

75%Grp13 LMRRUSK

75%Grp9 LMRTB

75%Grp11 LMR18

75%Grp1 PR1

75%Grp3 PR2-3

75%Grp2 PR4

Group 75%Grp4

Average similarity: 38.31

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	9.85	1.91	25.72	25.72
Unknown diatom sp.	3.09	7.36	2.09	19.21	44.92
Unknown diatom sp. D	2.34	4.39	1.18	11.46	56.38

Thalassiosira sp.	2.01	4.32	1.49	11.27	67.65
Unknown Dinoflagellate sp.	1.73	2.40	0.75	6.27	73.92
Scenedesmus sp.	1.47	1.96	0.69	5.12	79.04
Navicula sp. small	1.23	1.28	0.48	3.34	82.38
Prorocentrum micans	1.61	1.00	0.27	2.62	85.00
Unknown bluegreen sp.	0.83	0.95	0.49	2.48	87.47
Pyramimonas sp.	0.84	0.82	0.48	2.13	89.60
Nitzschia pungens	0.80	0.67	0.40	1.74	91.34

Group 75%Grp7

Average similarity: 37.91

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	6.29	10.04	2.82	26.49	26.49
Unknown diatom sp. D	6.79	8.20	1.42	21.63	48.12
Unknown diatom sp.	3.30	4.17	1.16	11.00	59.11
Unknown Dinoflagellate sp.	3.01	3.56	0.92	9.40	68.51
Thalassiosira sp.	3.51	3.52	0.95	9.27	77.79
Skeletonema costatum	3.34	2.31	0.55	6.08	83.87
Pyramimonas sp.	1.63	1.17	0.53	3.08	86.95
Peridinium sp.	1.80	1.00	0.42	2.63	89.58
Nitzschia closterium	0.92	0.47	0.32	1.24	90.83

Group 75%Grp6

Average similarity: 48.79

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	7.46	8.77	1.27	17.97	17.97
Unknown Cryptophyte sp.	5.10	8.12	2.97	16.63	34.61
Unknown diatom sp. D	6.13	7.02	2.13	14.38	48.99
Thalassiosira sp.	4.15	5.02	1.98	10.28	59.27
Nitzschia closterium	3.83	4.73	1.94	9.70	68.97
Unknown diatom sp.	3.67	4.53	1.68	9.28	78.25
Nitzschia pungens	2.56	2.27	0.78	4.66	82.91
Unknown Dinoflagellate sp.	2.35	2.06	0.87	4.23	87.14
Chaetoceros sp.	2.39	1.80	0.71	3.68	90.82

Group 75%Grp5

Average similarity: 53.05

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	7.43	9.07	#####	17.11	17.11
Unknown Dinoflagellate sp.	9.23	8.34	#####	15.73	32.83
Skeletonema costatum	5.96	7.54	#####	14.21	47.04
Unknown diatom sp. D	8.36	6.34	#####	11.95	58.99
Thalassiosira sp.	4.72	6.34	#####	11.95	70.94
Nitzschia closterium	4.12	5.33	#####	10.05	80.99
Unknown diatom sp.	4.70	5.04	#####	9.50	90.50

Group 75%Grp8

Average similarity: 24.66

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Unknown pennate diatom sp.	2.07	5.70	1.16	23.13	23.13
Skeletonema costatum	3.27	3.50	0.73	14.18	37.30
Scenedesmus quadrauda	1.15	1.70	0.64	6.90	44.20
Gymnodinium sp.	1.01	1.67	0.62	6.79	50.99
Cyclotella sp.	1.76	1.57	0.40	6.35	57.34
Cyclotella sp. (small)	1.79	1.49	0.34	6.06	63.40
Schroederia setigera	1.04	1.46	0.62	5.94	69.33
Eutreptia sp.	0.88	1.40	0.53	5.66	75.00
Scenedesmus bijinga	0.90	0.99	0.43	4.00	79.00
Nitzschia longissima	0.78	0.97	0.52	3.93	82.93
Cyclotella sp. (large)	1.45	0.81	0.26	3.29	86.22
Akistrodesmus falcatus	0.64	0.53	0.34	2.16	88.38
Thalassiosira pseudonana	1.05	0.46	0.25	1.87	90.25

Group 75%Grp10

Average similarity: 35.51

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	3.94	14.67	2.10	41.32	41.32
Chaetoceros subtilis	2.19	7.10	0.91	20.00	61.32
Peridinium aciculiferum	1.12	2.24	0.48	6.30	67.62
Nitzschia longissima	0.75	1.23	0.54	3.47	71.09
Thalassiosira pseudonana	0.90	1.22	0.46	3.45	74.54
Nitzschia closterium	0.79	1.11	0.55	3.14	77.68
Unknown pennate diatom sp.	0.75	1.08	0.47	3.05	80.72
Thalassiosira sp.	0.84	1.01	0.37	2.85	83.57
Chaetoceros socialis	0.70	0.83	0.40	2.34	85.92
Eutreptia sp.	0.58	0.64	0.40	1.80	87.71

Leptocylindricus minimum	0.80	0.62	0.34	1.73	89.44
Schroederia setigera	0.53	0.57	0.28	1.61	91.05

Group 75%Grp12

Average similarity: 36.53

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	4.06	12.80	4.40	35.05	35.05
Chaetoceros subtilis	2.80	7.10	1.22	19.42	54.47
Schroederia setigera	1.25	2.96	1.01	8.10	62.57
Nitzschia longissima	0.91	2.09	0.77	5.71	68.28
Peridinium aciculiferum	1.07	1.35	0.40	3.71	71.99
Cyclotella sp. (small)	1.40	1.33	0.35	3.63	75.63
Gymnodinium sp.	1.06	1.31	0.47	3.60	79.22
Thalassiosira pseudonana	1.15	1.19	0.37	3.25	82.47
Scenedesmus quadricauda	0.73	0.94	0.43	2.57	85.04
Unknown pennate diatom sp.	0.72	0.84	0.36	2.30	87.34
Thalassiosira decipiens	0.59	0.65	0.37	1.77	89.11
Gonyaulax polygramma	0.53	0.60	0.36	1.65	90.76

Group 75%Grp13

Average similarity: 30.98

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	5.90	14.08	1.52	45.45	45.45
Prorocentrum minimum	1.59	2.06	0.67	6.64	52.09
Eutreptia sp.	1.43	1.99	0.68	6.42	58.51
Thalassiosira pseudonana	1.56	1.57	0.46	5.06	63.57
Schroederia setigera	0.82	1.20	0.53	3.87	67.44
Nitzschia longissima	0.74	1.06	0.57	3.42	70.86
Thalassiosira sp.	1.38	1.04	0.36	3.36	74.22
Peridinium aciculiferum	0.84	0.95	0.46	3.05	77.27
Chaetoceros subtilis	0.83	0.81	0.36	2.62	79.89
Thalassiosira decipiens	0.84	0.78	0.45	2.53	82.42
Nitzschia closterium	0.62	0.73	0.52	2.37	84.79
Unknown pennate diatom sp.	0.81	0.68	0.34	2.20	86.98
Scrippsiella sp.	0.59	0.55	0.34	1.76	88.74
Gymnodinium sp.	0.53	0.42	0.36	1.36	90.10

Group 75%Grp9

Average similarity: 25.76

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	5.07	6.66	1.11	25.84	25.84
Thalassionema nitzschoides	1.63	1.98	0.58	7.70	33.54
Ceratulina bergonii	1.39	1.86	0.75	7.22	40.76
Leptocylicus minimum	1.63	1.56	0.76	6.05	46.81
Schizothrix sp.	2.14	1.36	0.35	5.29	52.10
Chaetoceros neogracile	1.24	1.15	0.66	4.48	56.58
Unknown pennate diatom sp.	1.09	1.11	0.49	4.30	60.89
Prorocentrum micans	0.97	1.11	0.63	4.30	65.19
Nitzschia closterium	1.37	0.90	0.51	3.50	68.69
Chaetoceros socialis	1.47	0.89	0.47	3.47	72.16
Rhizosolenia setigera	0.93	0.86	0.44	3.33	75.48
Ceratium hircus	0.73	0.63	0.47	2.45	77.93
Nitzschia pungens	1.11	0.62	0.39	2.39	80.32
Thalassiosira sp.	0.93	0.56	0.36	2.19	82.52
Prorocentrum minimum	0.72	0.56	0.54	2.17	84.68
Thalassiosira decipiens	0.64	0.47	0.32	1.82	86.51
Nitzschia longissima	0.64	0.45	0.49	1.75	88.26
Chaetoceros compressum	0.87	0.38	0.32	1.46	89.72
Asterionella glacialis	0.87	0.38	0.33	1.46	91.18

Group 75%Grp11

Average similarity: 31.21

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	4.09	15.09	2.15	48.37	48.37
Nitzschia closterium	1.55	4.16	1.35	13.32	61.69
Peridinium aciculiferum	0.79	1.62	0.41	5.20	66.89
Leptocylicus minimum	0.93	1.45	0.48	4.64	71.53
Chaetoceros socialis	0.99	1.34	0.50	4.30	75.83
Chaetoceros subtilis	0.83	1.24	0.33	3.99	79.82
Unknown pennate diatom sp.	0.84	0.99	0.43	3.16	82.98
Nitzschia longissima	0.53	0.80	0.43	2.55	85.53
Rhizosolenia setigera	0.54	0.67	0.33	2.14	87.67
Chaetoceros neogracile	0.63	0.58	0.36	1.87	89.54
Thalassiosira pseudonana	0.51	0.40	0.30	1.28	90.81

Group 75%Grp1

Average similarity: 43.01

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Cryptomonas sp.1	3.26	9.91	2.87	23.05	23.05
Synechocystis aquaticus Sauvageau	3.49	9.53	1.16	22.17	45.22
Scenedesmus quadricauda v. Westii	2.19	4.43	1.01	10.31	55.52
Gonyaulax palustre	1.82	3.93	1.12	9.14	64.66
Spermatozoopsis exultans	1.79	3.64	0.96	8.45	73.12
Cryptomonas erosa	1.46	2.37	0.75	5.52	78.64
Chlymentomonas sp.	1.14	1.57	0.58	3.65	82.29
Cryptomonas ovata	1.01	1.43	0.53	3.32	85.61
Skeletonema costatum	1.15	1.35	0.42	3.14	88.75
Eutreptiella sp.	0.80	0.94	0.47	2.18	90.93

Group 75%Grp3

Average similarity: 40.96

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	3.76	12.26	1.44	29.93	29.93
Cryptomonas sp.1	2.99	9.85	2.12	24.06	53.99
Synechocystis aquaticus Sauvageau	2.77	7.62	1.09	18.60	72.59
Chlymentomonas sp.	0.99	1.61	0.52	3.92	76.51
Spermatozoopsis exultans	0.77	1.03	0.45	2.51	79.01
Cryptomonas ovata	0.76	0.97	0.42	2.38	81.39
Peridinium cerasus	0.90	0.97	0.38	2.38	83.77
Eutreptiella sp.	0.78	0.94	0.42	2.31	86.08
Gymnodinium splendens	0.94	0.94	0.30	2.30	88.38
Gonyaulax palustre	0.72	0.87	0.42	2.13	90.52

Group 75%Grp2

Average similarity: 36.78

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Skeletonema costatum	3.45	10.43	1.25	28.35	28.35
Cryptomonas sp.1	2.59	8.76	2.35	23.82	52.17
Synechocystis aquaticus Sauvageau	2.99	7.99	1.08	21.73	73.90
Gymnodinium simplex	1.01	1.71	0.55	4.65	78.54
Peridinium cerasus	0.87	1.08	0.43	2.95	81.49
Chlymentomonas sp.	0.80	1.04	0.45	2.83	84.32
Ceratium hircus	0.97	1.03	0.38	2.80	87.13
Eutreptiella sp.	0.69	0.82	0.40	2.24	89.37
Rhizosolenia setigera	0.73	0.67	0.33	1.82	91.19

Groups 75%Grp4 & 75%Grp7

Average dissimilarity = 68.88

Species	Group 75%Grp4 Av.Abund	Group 75%Grp7 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	2.34	6.79	6.00	1.25	8.71	8.71
Unknown Cryptophyte sp.	4.79	6.29	4.17	1.26	6.05	14.76
Skeletonema costatum	0.16	3.34	3.86	0.85	5.60	20.37
Thalassiosira sp.	2.01	3.51	3.21	0.98	4.66	25.03
Unknown Dinoflagellate sp.	1.73	3.01	3.15	1.27	4.58	29.61
Unknown diatom sp.	3.09	3.30	2.46	1.25	3.58	33.18
Prorocentrum micans	1.61	0.34	2.36	0.60	3.43	36.61
Prorocentrum minimum	0.16	1.60	2.24	0.37	3.25	39.87
Peridinium sp.	0.00	1.80	2.01	0.75	2.91	42.78
Pyramimonas sp.	0.84	1.63	1.96	1.18	2.85	45.63
Scenedesmus sp.	1.47	0.60	1.89	1.15	2.75	48.38
Eutreptia sp.	0.37	1.21	1.80	0.58	2.61	50.99
Skeletonema menezelli	0.14	1.46	1.63	0.37	2.37	53.35
Navicula sp. small	1.23	0.21	1.61	0.87	2.33	55.68
Nitzschia pungens	0.80	0.82	1.45	0.92	2.11	57.79
Chaetoceros sp.	0.13	1.28	1.41	0.64	2.05	59.84
Prorocentrum sp.	0.45	0.77	1.34	0.47	1.94	61.78
Coscinodiscus sp.	0.83	0.28	1.27	0.64	1.84	63.62
Unknown bluegreen sp.	0.83	0.33	1.24	0.89	1.80	65.42
Leptocylindricus minimum	0.61	0.72	1.20	0.85	1.75	67.16
Nitzschia closterium	0.20	0.92	1.19	0.70	1.73	68.90
Eutreptiella sp.	0.35	0.69	1.16	0.45	1.69	70.59
Navicula sp. large	0.66	0.47	1.16	0.78	1.69	72.28
Tetraedron sp.	0.82	0.30	1.11	0.79	1.62	73.89
Akistrodesmus sp.	0.76	0.33	1.10	0.63	1.60	75.49
Leptocylindricus danicus	0.27	0.65	0.96	0.50	1.39	76.88
Prorocentrum redfieldi	0.40	0.41	0.86	0.35	1.25	78.13
Unknown Katodinium sp.	0.11	0.54	0.85	0.32	1.23	79.36
Unknown diatom sp. A	0.20	0.52	0.76	0.42	1.11	80.47
Glenodinium sp.	0.13	0.50	0.70	0.36	1.02	81.49
Aphanocapsa sp.	0.36	0.36	0.69	0.51	1.01	82.49
Schizothrix calcicola	0.48	0.12	0.61	0.59	0.89	83.38
Minutocellus sp.	0.09	0.51	0.61	0.46	0.89	84.27
Apedinella radians	0.00	0.50	0.58	0.44	0.85	85.12
Unknown Vegetative cell sp.	0.13	0.31	0.58	0.35	0.85	85.97
Chaetoceros gracile	0.00	0.51	0.55	0.29	0.80	86.77

Rhizosolenia setigera	0.00	0.51	0.52	0.48	0.75	87.51
Nitzschia sp.	0.38	0.00	0.50	0.37	0.73	88.25
Thalassionema nitzschoides	0.35	0.14	0.50	0.53	0.73	88.97
Trichodesmium sp.	0.38	0.00	0.42	0.37	0.61	89.58
Ceratium hircus	0.00	0.36	0.41	0.33	0.59	90.18

Groups 75%Grp4 & 75%Grp6

Average dissimilarity = 69.49

Species	Group 75%Grp4 Av.Abund	Group 75%Grp6 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	0.16	7.46	8.27	1.68	11.91	11.91
Unknown diatom sp. D	2.34	6.13	4.46	1.31	6.42	18.33
Nitzschia closterium	0.20	3.83	4.02	2.23	5.78	24.11
Unknown Cryptophyte sp.	4.79	5.10	3.05	1.26	4.39	28.50
Thalassiosira sp.	2.01	4.15	2.75	1.62	3.95	32.45
Nitzschia pungens	0.80	2.56	2.61	1.32	3.76	36.21
Chaetoceros sp.	0.13	2.39	2.46	1.14	3.54	39.75
Unknown Dinoflagellate sp.	1.73	2.35	2.31	1.25	3.33	43.09
Prorocentrum micans	1.61	0.32	2.07	0.60	2.98	46.07
Unknown diatom sp.	3.09	3.67	2.02	1.17	2.90	48.97
Skeletonema menezelli	0.14	2.03	1.96	0.44	2.82	51.79
Pyramimonas sp.	0.84	1.39	1.72	1.04	2.48	54.26
Leptocylicus minimum	0.61	1.46	1.67	0.97	2.40	56.67
Scenedesmus sp.	1.47	0.27	1.66	1.11	2.40	59.06
Navicula sp. small	1.23	0.46	1.60	0.89	2.30	61.36
Navicula sp. large	0.66	0.73	1.19	0.86	1.71	63.07
Thalassionema nitzschoides	0.35	0.96	1.11	0.76	1.60	64.67
Chaetoceros muelleri	0.00	1.09	1.11	0.59	1.60	66.27
Unknown bluegreen sp.	0.83	0.36	1.05	0.96	1.51	67.78
Peridinium sp.	0.00	1.06	1.04	0.58	1.50	69.27
Coscinodiscus sp.	0.83	0.12	1.02	0.59	1.47	70.75
Akistrodesmus sp.	0.76	0.28	1.00	0.62	1.44	72.19
Prorocentrum sp.	0.45	0.58	0.99	0.56	1.43	73.61
Leptocylicus danicus	0.27	0.69	0.99	0.65	1.42	75.04
Asterionella japonica	0.00	0.98	0.97	0.57	1.39	76.43
Tetraedron sp.	0.82	0.12	0.94	0.74	1.35	77.77
Ceratium hircus	0.00	0.95	0.89	0.48	1.28	79.05
Minutocellus sp.	0.09	0.83	0.85	0.58	1.23	80.28
Unknown diatom sp. A	0.20	0.58	0.77	0.49	1.11	81.39
Rhizosolenia setigera	0.00	0.77	0.77	0.59	1.11	82.50
Aphanocapsa sp.	0.36	0.40	0.64	0.53	0.92	83.43

Eutreptia sp.	0.37	0.08	0.54	0.40	0.77	84.20
Nitzschia sp.	0.38	0.10	0.53	0.42	0.77	84.97
Eutreptiella sp.	0.35	0.12	0.48	0.43	0.70	85.66
Schizothrix calcicola	0.48	0.00	0.48	0.57	0.69	86.35
Unknown diatom sp. 17	0.20	0.22	0.46	0.45	0.66	87.02
Prorocentrum redfieldi	0.40	0.00	0.42	0.35	0.60	87.62
Chaetoceros gracile	0.00	0.36	0.40	0.20	0.58	88.20
Nitzschia delicatissima	0.09	0.31	0.39	0.26	0.56	88.76
Trichodesmium sp.	0.38	0.00	0.39	0.37	0.56	89.33
Pyrophacus sp.	0.00	0.39	0.38	0.29	0.55	89.88
Prorocentrum minimum	0.16	0.16	0.37	0.30	0.53	90.41

Groups 75%Grp7 & 75%Grp6

Average dissimilarity = 60.39

Species	Group 75%Grp7 Av.Abund	Group 75%Grp6 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.34	7.46	5.68	1.41	9.40	9.40
Unknown diatom sp. D	6.79	6.13	4.23	1.22	7.01	16.41
Nitzschia closterium	0.92	3.83	2.91	1.72	4.82	21.23
Thalassiosira sp.	3.51	4.15	2.72	1.03	4.51	25.74
Skeletonema menezelli	1.46	2.03	2.54	0.53	4.20	29.94
Unknown Dinoflagellate sp.	3.01	2.35	2.34	1.21	3.88	33.82
Nitzschia pungens	0.82	2.56	2.29	1.23	3.80	37.61
Chaetoceros sp.	1.28	2.39	2.24	1.18	3.72	41.33
Unknown Cryptophyte sp.	6.29	5.10	2.20	1.03	3.64	44.97
Unknown diatom sp.	3.30	3.67	2.03	1.12	3.36	48.33
Peridinium sp.	1.80	1.06	1.88	0.90	3.12	51.45
Prorocentrum minimum	1.60	0.16	1.74	0.37	2.88	54.33
Pyramimonas sp.	1.63	1.39	1.73	1.10	2.86	57.19
Leptocylindricus minimum	0.72	1.46	1.45	0.90	2.41	59.60
Eutreptia sp.	1.21	0.08	1.23	0.51	2.03	61.63
Chaetoceros muelleri	0.35	1.09	1.12	0.68	1.86	63.49
Prorocentrum sp.	0.77	0.58	1.10	0.50	1.82	65.31
Leptocylindricus danicus	0.65	0.69	1.05	0.62	1.74	67.05
Ceratium hircus	0.36	0.95	0.98	0.59	1.62	68.68
Minutocellus sp.	0.51	0.83	0.96	0.67	1.59	70.27
Navicula sp. large	0.47	0.73	0.91	0.73	1.50	71.77
Rhizosolenia setigera	0.51	0.77	0.89	0.75	1.48	73.25
Asterionella japonica	0.10	0.98	0.87	0.59	1.44	74.69
Unknown diatom sp. A	0.52	0.58	0.87	0.53	1.44	76.13
Thalassionema nitzschoides	0.14	0.96	0.84	0.63	1.40	77.52

Eutreptiella sp.	0.69	0.12	0.75	0.37	1.24	78.77
Chaetoceros gracile	0.51	0.36	0.74	0.34	1.23	79.99
Scenedesmus sp.	0.60	0.27	0.73	0.52	1.20	81.20
Unknown Katodinium sp.	0.54	0.10	0.67	0.33	1.10	82.30
Apedinella radians	0.50	0.30	0.65	0.56	1.07	83.37
Navicula sp. small	0.21	0.46	0.56	0.46	0.93	84.30
Prorocentrum micans	0.34	0.32	0.55	0.38	0.91	85.22
Pyrophacus sp.	0.26	0.39	0.55	0.39	0.91	86.13
Unknown bluegreen sp.	0.33	0.36	0.55	0.50	0.91	87.03
Aphanocapsa sp.	0.36	0.40	0.55	0.49	0.90	87.94
Akistrodesmus sp.	0.33	0.28	0.51	0.40	0.84	88.78
Glenodinium sp.	0.50	0.00	0.45	0.30	0.75	89.52
Unknown Vegetative cell sp.	0.31	0.12	0.43	0.33	0.70	90.23

Groups 75%Grp4 & 75%Grp5

Average dissimilarity = 69.16

Species	Group 75%Grp4 Av.Abund	Group 75%Grp5 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	1.73	9.23	7.95	1.62	11.50	11.50
Skeletonema costatum	0.16	5.96	5.70	6.07	8.25	19.75
Unknown diatom sp. D	2.34	8.36	5.55	1.60	8.03	27.78
Nitzschia closterium	0.20	4.12	3.98	3.03	5.76	33.54
Unknown Cryptophyte sp.	4.79	7.43	3.47	1.93	5.02	38.56
Pyramimonas sp.	0.84	3.83	2.98	2.58	4.31	42.87
Thalassiosira sp.	2.01	4.72	2.70	2.25	3.91	46.78
Rhizosolenia fragilissima	0.00	2.34	2.67	0.97	3.86	50.64
Chaetoceros sp.	0.13	3.08	2.65	1.01	3.83	54.46
Gymnodinium sp.	0.09	2.63	2.26	1.01	3.26	57.72
Nitzschia pungens	0.80	2.29	2.06	1.28	2.98	60.70
Apedinella radians	0.00	1.78	2.03	0.97	2.93	63.64
Unknown diatom sp.	3.09	4.70	1.79	1.40	2.59	66.22
Cerataulina bergonii large	0.00	1.50	1.70	0.97	2.46	68.69
Leptocylindricus minimum	0.61	1.88	1.69	1.21	2.44	71.13
Prorocentrum micans	1.61	0.00	1.66	0.56	2.40	73.53
Prorocentrum sp.	0.45	1.50	1.41	1.01	2.03	75.57
Scenedesmus sp.	1.47	0.00	1.39	1.12	2.01	77.58
Peridinium sp.	0.00	1.50	1.28	0.98	1.85	79.43
Navicula sp. small	1.23	0.00	1.22	0.83	1.76	81.18
Navicula sp. large	0.66	1.26	1.17	1.05	1.70	82.88
Leptocylindricus danicus	0.27	1.26	1.12	1.02	1.62	84.50
Rhizosolenia setigera	0.00	1.26	1.07	0.98	1.55	86.06

Coscinodiscus sp.	0.83	0.00	0.83	0.57	1.20	87.26
Unknown bluegreen sp.	0.83	0.00	0.81	0.88	1.18	88.43
Tetraedron sp.	0.82	0.00	0.75	0.72	1.09	89.52
Akistrodesmus sp.	0.76	0.00	0.70	0.56	1.01	90.53

Groups 75%Grp7 & 75%Grp5

Average dissimilarity = 55.36

Species	Group 75%Grp7 Av.Abund	Group 75%Grp5 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	3.01	9.23	5.76	1.39	10.40	10.40
Unknown diatom sp. D	6.79	8.36	4.08	1.34	7.36	17.76
Skeletonema costatum	3.34	5.96	3.49	1.58	6.30	24.06
Nitzschia closterium	0.92	4.12	2.82	1.96	5.10	29.16
Chaetoceros sp.	1.28	3.08	2.45	1.13	4.43	33.59
Thalassiosira sp.	3.51	4.72	2.28	1.08	4.11	37.71
Rhizosolenia fragilissima	0.09	2.34	2.25	0.97	4.06	41.76
Pyramimonas sp.	1.63	3.83	2.06	1.36	3.73	45.49
Unknown Cryptophyte sp.	6.29	7.43	2.04	1.31	3.69	49.18
Gymnodinium sp.	0.15	2.63	1.98	0.99	3.57	52.74
Nitzschia pungens	0.82	2.29	1.81	1.12	3.28	56.02
Unknown diatom sp.	3.30	4.70	1.79	1.18	3.24	59.26
Peridinium sp.	1.80	1.50	1.69	1.04	3.05	62.31
Apedinella radians	0.50	1.78	1.67	1.01	3.02	65.32
Leptocylicus minimum	0.72	1.88	1.48	1.08	2.67	68.00
Prorocentrum sp.	0.77	1.50	1.45	0.85	2.61	70.61
Cerataulina bergonii large	0.07	1.50	1.44	0.97	2.60	73.21
Prorocentrum minimum	1.60	0.00	1.42	0.35	2.56	75.77
Leptocylicus danicus	0.65	1.26	1.20	0.94	2.17	77.94
Skeletonema menezelli	1.46	0.00	1.08	0.33	1.95	79.89
Eutreptia sp.	1.21	0.00	1.03	0.49	1.87	81.76
Navicula sp. large	0.47	1.26	1.03	1.01	1.86	83.62
Rhizosolenia setigera	0.51	1.26	1.02	1.04	1.85	85.46
Eutreptiella sp.	0.69	0.00	0.59	0.33	1.06	86.53
Unknown Katodinium sp.	0.54	0.00	0.49	0.28	0.89	87.41
Scenedesmus sp.	0.60	0.00	0.48	0.44	0.87	88.29
Glenodinium sp.	0.50	0.00	0.40	0.30	0.73	89.01
Unknown diatom sp. A	0.52	0.00	0.40	0.33	0.72	89.73
Minutocellus sp.	0.51	0.00	0.39	0.41	0.70	90.43

Groups 75%Grp6 & 75%Grp5

Average dissimilarity = 49.02

Species	Group 75%Grp6 Av.Abund	Group 75%Grp5 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	2.35	9.23	6.02	1.49	12.27	12.27
Unknown diatom sp. D	6.13	8.36	3.53	1.34	7.20	19.47
Skeletonema costatum	7.46	5.96	3.08	1.64	6.28	25.75
Chaetoceros sp.	2.39	3.08	2.38	1.33	4.86	30.60
Rhizosolenia fragilissima	0.00	2.34	2.10	0.96	4.29	34.89
Pyramimonas sp.	1.39	3.83	2.07	1.77	4.23	39.12
Unknown Cryptophyte sp.	5.10	7.43	1.97	2.45	4.02	43.14
Nitzschia pungens	2.56	2.29	1.96	1.23	4.00	47.14
Gymnodinium sp.	0.22	2.63	1.88	1.01	3.83	50.97
Apedinella radians	0.30	1.78	1.57	0.99	3.20	54.17
Leptocylicus minimum	1.46	1.88	1.56	1.11	3.19	57.35
Unknown diatom sp.	3.67	4.70	1.44	1.11	2.93	60.28
Skeletonema menezelli	2.03	0.00	1.37	0.41	2.80	63.09
Cerataulina bergonii large	0.12	1.50	1.33	0.96	2.72	65.80
Peridinium sp.	1.06	1.50	1.30	1.03	2.65	68.45
Thalassiosira sp.	4.15	4.72	1.24	0.88	2.52	70.97
Nitzschia closterium	3.83	4.12	1.19	1.12	2.42	73.39
Prorocentrum sp.	0.58	1.50	1.18	0.99	2.41	75.80
Leptocylicus danicus	0.69	1.26	1.04	1.02	2.12	77.92
Rhizosolenia setigera	0.77	1.26	1.03	1.04	2.09	80.02
Navicula sp. large	0.73	1.26	1.01	1.05	2.06	82.08
Chaetoceros muelleri	1.09	0.00	0.80	0.59	1.64	83.72
Asterionella japonica	0.98	0.00	0.70	0.56	1.44	85.16
Thalassionema nitzschoides	0.96	0.00	0.67	0.59	1.38	86.53
Ceratium hircus	0.95	0.00	0.65	0.48	1.34	87.87
Minutocellus sp.	0.83	0.00	0.59	0.54	1.20	89.06
Unknown diatom sp. A	0.58	0.00	0.43	0.41	0.88	89.94
Navicula sp. small	0.46	0.00	0.33	0.35	0.67	90.62

Groups 75%Grp4 & 75%Grp8

Average dissimilarity = 98.12

Species	Group 75%Grp4 Av.Abund	Group 75%Grp8 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	8.48	1.49	8.64	8.64
Unknown diatom sp.	3.09	0.00	5.38	2.09	5.48	14.12
Skeletonema costatum	0.16	3.27	4.62	1.00	4.71	18.83
Unknown diatom sp. D	2.34	0.00	3.96	1.47	4.04	22.86

Unknown pennate diatom sp.	0.00	2.07	3.59	1.67	3.66	26.52
Thalassiosira sp.	2.01	0.10	3.37	1.65	3.44	29.96
Unknown Dinoflagellate sp.	1.73	0.00	3.09	0.92	3.14	33.11
Prorocentrum micans	1.61	0.00	3.08	0.53	3.14	36.24
Cyclotella sp. (small)	0.00	1.79	2.97	0.70	3.02	39.27
Cyclotella sp.	0.00	1.76	2.87	0.74	2.92	42.19
Scenedesmus sp.	1.47	0.26	2.35	1.12	2.40	44.58
Cyclotella sp. (large)	0.00	1.45	2.31	0.59	2.35	46.93
Navicula sp. small	1.23	0.00	2.17	0.82	2.21	49.14
Scenedesmus quadracauda	0.00	1.15	1.84	1.07	1.87	51.02
Eutreptia sp.	0.37	0.88	1.84	0.93	1.87	52.89
Gymnodinium sp.	0.09	1.01	1.76	0.99	1.79	54.68
Schroederia setigera	0.00	1.04	1.63	1.04	1.66	56.35
Thalassiosira pseudonana	0.00	1.05	1.59	0.56	1.62	57.97
Coscinodiscus sp.	0.83	0.00	1.50	0.55	1.52	59.49
Unknown bluegreen sp.	0.83	0.00	1.44	0.86	1.47	60.97
Scenedesmus bijinga	0.00	0.90	1.42	0.83	1.44	62.41
Pyramimonas sp.	0.84	0.00	1.37	0.80	1.40	63.81
Nitzschia pungens	0.80	0.00	1.33	0.76	1.35	65.17
Tetraedron sp.	0.82	0.08	1.28	0.76	1.31	66.47
Thalassiosira decipiens	0.00	0.91	1.28	0.49	1.30	67.77
Navicula sp. large	0.66	0.00	1.25	0.62	1.27	69.05
Nitzschia longissima	0.00	0.78	1.23	0.92	1.26	70.31
Akistrodesmus sp.	0.76	0.00	1.17	0.56	1.19	71.50
Leptocylindricus minimum	0.61	0.00	1.06	0.63	1.08	72.58
Akistrodesmus falcatus	0.00	0.64	1.00	0.68	1.02	73.60
Nitzschia sp.	0.38	0.09	0.89	0.46	0.90	74.50
Melosira sp.	0.20	0.36	0.81	0.57	0.83	75.33
Amphiprora sp.	0.00	0.49	0.80	0.61	0.82	76.15
Prorocentrum sp.	0.45	0.00	0.77	0.38	0.78	76.93
Actinastrum hantzschii	0.00	0.49	0.77	0.50	0.78	77.72
Bluegreen filamentous sp.	0.00	0.41	0.75	0.60	0.76	78.48
Crucigenia sp.	0.21	0.22	0.71	0.64	0.73	79.20
Chaetoceros subtilis	0.00	0.44	0.70	0.49	0.72	79.92
Schizothrix calcicola	0.48	0.00	0.68	0.57	0.69	80.61
Prorocentrum redfieldi	0.40	0.00	0.61	0.35	0.62	81.23
Cyclotella meneghiniana	0.00	0.40	0.58	0.27	0.59	81.82
Leptocylindricus danicus	0.27	0.00	0.57	0.38	0.58	82.40
Thalassionema nitzschoides	0.35	0.00	0.56	0.47	0.57	82.97
Trichodesmium sp.	0.38	0.00	0.56	0.37	0.57	83.54
Dictyosphaerium sp.	0.00	0.46	0.56	0.39	0.57	84.11
Eutreptiella sp.	0.35	0.00	0.56	0.38	0.57	84.68
Scenedesmus acutus	0.00	0.34	0.55	0.40	0.56	85.23

Pleurosigma sp.	0.09	0.24	0.54	0.56	0.55	85.79
Aphanocapsa sp.	0.36	0.00	0.52	0.38	0.53	86.32
Prorocentrum minimum	0.16	0.16	0.50	0.47	0.51	86.83
Merismopedia punctata	0.00	0.29	0.49	0.38	0.50	87.33
Chroococcus sp.	0.32	0.00	0.45	0.38	0.46	87.79
Oscillatoria sp.	0.32	0.00	0.45	0.38	0.46	88.25
Melosira nummuloidea	0.00	0.25	0.44	0.40	0.45	88.70
Nitzschia closterium	0.20	0.08	0.44	0.37	0.44	89.14
Scenedesmus abundans	0.00	0.29	0.39	0.39	0.40	89.54
Micractinium pusillum	0.00	0.30	0.37	0.37	0.37	89.91
Franceia sp.	0.13	0.12	0.36	0.37	0.37	90.28

Groups 75%Grp7 & 75%Grp8

Average dissimilarity = 95.98

Species	Group 75%Grp7 Av.Abund	Group 75%Grp8 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	8.71	1.52	9.08	9.08
Unknown Cryptophyte sp.	6.29	0.00	8.51	2.09	8.87	17.95
Skeletonema costatum	3.34	3.27	5.04	1.10	5.25	23.20
Thalassiosira sp.	3.51	0.10	4.46	1.03	4.65	27.85
Unknown diatom sp.	3.30	0.00	4.23	1.57	4.41	32.26
Unknown Dinoflagellate sp.	3.01	0.00	4.11	1.22	4.29	36.55
Unknown pennate diatom sp.	0.00	2.07	2.80	1.68	2.91	39.46
Prorocentrum minimum	1.60	0.16	2.48	0.37	2.58	42.04
Cyclotella sp. (small)	0.00	1.79	2.34	0.68	2.44	44.48
Eutreptia sp.	1.21	0.88	2.30	0.80	2.40	46.88
Cyclotella sp.	0.00	1.76	2.26	0.72	2.35	49.23
Peridinium sp.	1.80	0.00	2.15	0.74	2.24	51.48
Pyramimonas sp.	1.63	0.00	1.97	0.91	2.05	53.53
Cyclotella sp. (large)	0.00	1.45	1.84	0.58	1.91	55.44
Skeletonema menezelli	1.46	0.00	1.59	0.33	1.65	57.09
Scenedesmus quadracauda	0.00	1.15	1.46	1.05	1.52	58.62
Gymnodinium sp.	0.15	1.01	1.45	0.99	1.51	60.13
Chaetoceros sp.	1.28	0.00	1.44	0.60	1.50	61.63
Schroederia setigera	0.00	1.04	1.30	1.03	1.35	62.98
Thalassiosira pseudonana	0.00	1.05	1.28	0.55	1.33	64.31
Nitzschia closterium	0.92	0.08	1.24	0.70	1.29	65.61
Scenedesmus bijinga	0.00	0.90	1.13	0.82	1.18	66.78
Thalassiosira decipiens	0.00	0.91	1.04	0.48	1.08	67.86
Nitzschia pungens	0.82	0.00	1.02	0.55	1.06	68.92
Prorocentrum sp.	0.77	0.00	1.00	0.33	1.04	69.96

Nitzschia longissima	0.00	0.78	0.98	0.91	1.02	70.98
Eutreptiella sp.	0.69	0.00	0.96	0.34	1.00	71.98
Scenedesmus sp.	0.60	0.26	0.96	0.56	1.00	72.98
Unknown Katodinium sp.	0.54	0.00	0.83	0.28	0.86	73.84
Leptocylicus minimum	0.72	0.00	0.81	0.54	0.84	74.68
Akistrodesmus falcatus	0.00	0.64	0.80	0.68	0.83	75.51
Chaetoceros subtilis	0.16	0.44	0.71	0.47	0.73	76.25
Leptocylicus danicus	0.65	0.00	0.69	0.35	0.71	76.96
Amphiprora sp.	0.00	0.49	0.64	0.60	0.66	77.62
Apedinella radians	0.50	0.00	0.63	0.43	0.66	78.28
Glenodinium sp.	0.50	0.00	0.62	0.30	0.65	78.93
Actinastrum hantzschii	0.00	0.49	0.61	0.50	0.64	79.56
Navicula sp. large	0.47	0.00	0.61	0.44	0.63	80.20
Unknown diatom sp. A	0.52	0.00	0.59	0.33	0.62	80.82
Chaetoceros gracile	0.51	0.00	0.59	0.29	0.62	81.43
Minutocellus sp.	0.51	0.00	0.58	0.41	0.60	82.04
Bluegreen filamentous sp.	0.00	0.41	0.58	0.60	0.60	82.64
Rhizosolenia setigera	0.51	0.00	0.55	0.47	0.57	83.21
Unknown Vegetative cell sp.	0.31	0.00	0.51	0.27	0.53	83.74
Prorocentrum micans	0.34	0.00	0.48	0.24	0.50	84.24
Cyclotella meneghiniana	0.00	0.40	0.47	0.27	0.49	84.73
Melosira sp.	0.00	0.36	0.47	0.49	0.49	85.22
Prorocentrum redfieldi	0.41	0.00	0.47	0.19	0.49	85.71
Dictyosphaerium sp.	0.00	0.46	0.46	0.39	0.48	86.19
Unknown bluegreen sp.	0.33	0.00	0.45	0.31	0.47	86.66
Ceratium hircus	0.36	0.00	0.44	0.33	0.46	87.12
Scenedesmus acutus	0.00	0.34	0.44	0.39	0.45	87.57
Chaetoceros muelleri	0.35	0.00	0.43	0.33	0.45	88.02
Pleurosigma sp.	0.08	0.24	0.42	0.50	0.44	88.46
Tetraedron sp.	0.30	0.08	0.40	0.36	0.42	88.88
Coscinodiscus sp.	0.28	0.00	0.40	0.29	0.42	89.30
Aphanocapsa sp.	0.36	0.00	0.39	0.33	0.41	89.71
Merismopedia punctata	0.00	0.29	0.38	0.38	0.40	90.10

Groups 75%Grp6 & 75%Grp8

Average dissimilarity = 94.09

Species	Group 75%Grp6 Av.Abund	Group 75%Grp8 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	7.46	3.27	7.38	1.38	7.85	7.85
Unknown diatom sp. D	6.13	0.00	7.08	1.93	7.52	15.37
Unknown Cryptophyte sp.	5.10	0.00	6.54	2.10	6.95	22.32

Thalassiosira sp.	4.15	0.10	4.60	2.26	4.89	27.21
Nitzschia closterium	3.83	0.08	4.36	2.33	4.64	31.85
Unknown diatom sp.	3.67	0.00	4.28	2.13	4.55	36.40
Nitzschia pungens	2.56	0.00	3.04	1.20	3.23	39.63
Unknown Dinoflagellate sp.	2.35	0.00	2.68	1.26	2.85	42.47
Chaetoceros sp.	2.39	0.00	2.65	1.10	2.81	45.29
Unknown pennate diatom sp.	0.00	2.07	2.55	1.65	2.71	47.99
Cyclotella sp. (small)	0.00	1.79	2.14	0.68	2.27	50.27
Cyclotella sp.	0.00	1.76	2.06	0.71	2.19	52.46
Skeletonema menezelli	2.03	0.00	1.95	0.40	2.07	54.53
Pyramimonas sp.	1.39	0.00	1.74	0.77	1.85	56.38
Cyclotella sp. (large)	0.00	1.45	1.68	0.58	1.79	58.16
Leptocylicus minimum	1.46	0.00	1.56	0.75	1.65	59.82
Scenedesmus quadracauda	0.00	1.15	1.34	1.03	1.42	61.24
Gymnodinium sp.	0.22	1.01	1.32	0.99	1.40	62.64
Schroederia setigera	0.00	1.04	1.19	1.01	1.26	63.90
Chaetoceros muelleri	1.09	0.00	1.18	0.59	1.25	65.16
Thalassiosira pseudonana	0.00	1.05	1.17	0.54	1.25	66.41
Eutreptia sp.	0.08	0.88	1.12	0.92	1.19	67.60
Peridinium sp.	1.06	0.00	1.11	0.57	1.18	68.78
Scenedesmus bijinga	0.00	0.90	1.03	0.81	1.10	69.87
Asterionella japonica	0.98	0.00	1.03	0.57	1.09	70.96
Thalassionema nitzschoides	0.96	0.00	0.97	0.59	1.03	71.99
Thalassiosira decipiens	0.00	0.91	0.96	0.48	1.02	73.01
Ceratium hircus	0.95	0.00	0.94	0.48	1.00	74.01
Nitzschia longissima	0.00	0.78	0.90	0.90	0.95	74.96
Leptocylicus danicus	0.69	0.00	0.87	0.51	0.93	75.89
Minutocellus sp.	0.83	0.00	0.86	0.53	0.91	76.80
Navicula sp. large	0.73	0.00	0.85	0.59	0.90	77.70
Rhizosolenia setigera	0.77	0.00	0.82	0.58	0.87	78.57
Chaetoceros subtilis	0.27	0.44	0.76	0.47	0.81	79.38
Akistrodesmus falcatus	0.00	0.64	0.73	0.68	0.78	80.16
Prorocentrum sp.	0.58	0.00	0.66	0.41	0.70	80.86
Unknown diatom sp. A	0.58	0.00	0.66	0.41	0.70	81.56
Amphiprora sp.	0.00	0.49	0.58	0.60	0.62	82.18
Scenedesmus sp.	0.27	0.26	0.57	0.46	0.60	82.78
Actinastrum hantzschii	0.00	0.49	0.56	0.49	0.59	83.37
Bluegreen filamentous sp.	0.00	0.41	0.52	0.59	0.55	83.93
Navicula sp. small	0.46	0.00	0.48	0.36	0.51	84.43
Prorocentrum minimum	0.16	0.16	0.44	0.35	0.46	84.90
Cyclotella meneghiniana	0.00	0.40	0.43	0.27	0.46	85.36
Dictyosphaerium sp.	0.00	0.46	0.43	0.39	0.46	85.82
Chaetoceros gracile	0.36	0.00	0.43	0.20	0.46	86.28

Melosira sp.	0.00	0.36	0.43	0.49	0.46	86.73
Pyrophacus sp.	0.39	0.00	0.41	0.29	0.43	87.16
Scenedesmus acutus	0.00	0.34	0.40	0.39	0.42	87.59
Aphanocapsa sp.	0.40	0.00	0.36	0.36	0.39	87.97
Apedinella radians	0.30	0.00	0.36	0.36	0.38	88.36
Unknown bluegreen sp.	0.36	0.00	0.36	0.43	0.38	88.74
Merismopedia punctata	0.00	0.29	0.35	0.37	0.37	89.10
Crucigenia sp.	0.00	0.22	0.34	0.49	0.36	89.46
Akistrodesmus sp.	0.28	0.00	0.33	0.27	0.35	89.81
Pleurosigma sp.	0.00	0.24	0.32	0.49	0.34	90.15

Groups 75%Grp5 & 75%Grp8

Average dissimilarity = 93.75

Species	Group 75%Grp5 Av.Abund	Group 75%Grp8 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	10.31	1.89	11.00	11.00
Unknown diatom sp. D	8.36	0.00	8.22	2.71	8.77	19.77
Unknown Cryptophyte sp.	7.43	0.00	7.70	6.73	8.21	27.98
Thalassiosira sp.	4.72	0.10	4.86	4.63	5.19	33.17
Unknown diatom sp.	4.70	0.00	4.79	5.81	5.11	38.27
Nitzschia closterium	4.12	0.08	4.32	3.41	4.61	42.88
Skeletonema costatum	5.96	3.27	4.25	1.57	4.53	47.41
Pyramimonas sp.	3.83	0.00	4.01	5.76	4.27	51.69
Rhizosolenia fragilissima	2.34	0.00	2.86	0.96	3.05	54.74
Chaetoceros sp.	3.08	0.00	2.76	0.97	2.95	57.69
Gymnodinium sp.	2.63	1.01	2.52	1.45	2.68	60.37
Apedinella radians	1.78	0.00	2.17	0.96	2.32	62.69
Unknown pennate diatom sp.	0.00	2.07	2.15	1.86	2.29	64.98
Nitzschia pungens	2.29	0.00	2.05	0.97	2.19	67.17
Cerataulina bergonii large	1.50	0.00	1.83	0.96	1.95	69.12
Cyclotella sp. (small)	0.00	1.79	1.82	0.68	1.94	71.06
Cyclotella sp.	0.00	1.76	1.75	0.72	1.87	72.93
Leptocylicus minimum	1.88	0.00	1.69	0.97	1.80	74.73
Cyclotella sp. (large)	0.00	1.45	1.44	0.58	1.54	76.26
Prorocentrum sp.	1.50	0.00	1.34	0.97	1.43	77.69
Peridinium sp.	1.50	0.00	1.34	0.97	1.43	79.12
Scenedesmus quadricauda	0.00	1.15	1.14	1.06	1.22	80.34
Rhizosolenia setigera	1.26	0.00	1.13	0.97	1.20	81.55
Navicula sp. large	1.26	0.00	1.13	0.97	1.20	82.75
Leptocylicus danicus	1.26	0.00	1.13	0.97	1.20	83.95
Schroederia setigera	0.00	1.04	1.02	1.04	1.09	85.04

Thalassiosira pseudonana	0.00	1.05	1.01	0.54	1.08	86.11
Eutreptia sp.	0.00	0.88	0.93	0.93	0.99	87.10
Scenedesmus bijinga	0.00	0.90	0.88	0.83	0.94	88.05
Thalassiosira decipiens	0.00	0.91	0.83	0.48	0.89	88.93
Nitzschia longissima	0.00	0.78	0.77	0.92	0.82	89.75
Akistrodesmus falcatus	0.00	0.64	0.63	0.69	0.67	90.42

Groups 75%Grp4 & 75%Grp10

Average dissimilarity = 94.96

Species	Group 75%Grp4 Av.Abund	Group 75%Grp10 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	9.08	1.54	9.56	9.56
Skeletonema costatum	0.16	3.94	7.08	2.45	7.46	17.02
Unknown diatom sp.	3.09	0.00	5.76	2.20	6.06	23.08
Chaetoceros subtilis	0.00	2.19	4.47	1.22	4.70	27.79
Unknown diatom sp. D	2.34	0.00	4.23	1.52	4.46	32.25
Prorocentrum micans	1.61	0.24	3.44	0.57	3.62	35.86
Unknown Dinoflagellate sp.	1.73	0.00	3.31	0.93	3.48	39.35
Thalassiosira sp.	2.01	0.84	3.03	1.38	3.19	42.54
Scenedesmus sp.	1.47	0.07	2.53	1.13	2.66	45.20
Navicula sp. small	1.23	0.00	2.33	0.83	2.45	47.65
Peridinium aciculiferum	0.00	1.12	2.24	0.85	2.35	50.00
Leptocylindricus minimum	0.61	0.80	1.77	0.92	1.86	51.86
Nitzschia pungens	0.80	0.45	1.65	0.92	1.73	53.60
Schizothrix sp.	0.00	1.06	1.63	0.56	1.72	55.31
Coscinodiscus sp.	0.83	0.00	1.60	0.56	1.69	57.00
Thalassiosira pseudonana	0.00	0.90	1.58	0.82	1.67	58.67
Unknown bluegreen sp.	0.83	0.00	1.55	0.88	1.63	60.30
Nitzschia closterium	0.20	0.79	1.50	0.93	1.58	61.88
Pyramimonas sp.	0.84	0.00	1.47	0.81	1.55	63.42
Eutreptia sp.	0.37	0.58	1.45	0.71	1.52	64.94
Navicula sp. large	0.66	0.00	1.34	0.63	1.41	66.36
Tetraedron sp.	0.82	0.00	1.34	0.74	1.41	67.77
Nitzschia longissima	0.00	0.75	1.32	0.92	1.39	69.15
Unknown pennate diatom sp.	0.00	0.75	1.29	0.86	1.36	70.51
Akistrodesmus sp.	0.76	0.05	1.29	0.59	1.36	71.87
Chaetoceros socialis	0.00	0.70	1.20	0.76	1.26	73.13
Schroederia setigera	0.00	0.53	1.02	0.61	1.07	74.21
Nitzschia sp.	0.38	0.11	0.93	0.46	0.98	75.19
Thalassionema nitzschoides	0.35	0.32	0.91	0.66	0.96	76.15
Prorocentrum sp.	0.45	0.00	0.82	0.38	0.87	77.02

Leptocylindricus danicus	0.27	0.18	0.81	0.48	0.85	77.86
Prorocentrum minimum	0.16	0.38	0.79	0.60	0.83	78.70
Gymnodinium sp.	0.09	0.37	0.76	0.60	0.80	79.50
Cyclotella sp.	0.00	0.45	0.73	0.49	0.77	80.26
Schizothrix calcicola	0.48	0.00	0.72	0.57	0.76	81.02
Cyclotella sp. (small)	0.00	0.35	0.72	0.32	0.76	81.78
Ceratulina bergonii	0.00	0.40	0.68	0.44	0.72	82.49
Prorocentrum redfieldi	0.40	0.00	0.65	0.36	0.68	83.18
Chaetoceros neogracile	0.00	0.39	0.59	0.55	0.63	83.80
Trichodesmium sp.	0.38	0.00	0.59	0.38	0.62	84.43
Eutreptiella sp.	0.35	0.00	0.59	0.39	0.62	85.05
Gonyaulax monilata	0.00	0.33	0.56	0.47	0.59	85.64
Aphanocapsa sp.	0.36	0.00	0.55	0.39	0.58	86.22
Chroococcus sp.	0.32	0.00	0.48	0.38	0.51	86.73
Oscillatoria sp.	0.32	0.00	0.48	0.39	0.50	87.23
Gonyaulax spinifera	0.00	0.27	0.47	0.48	0.50	87.73
Scrippsiella sp.	0.00	0.29	0.47	0.47	0.50	88.23
Rhizosolenia setigera	0.00	0.28	0.45	0.48	0.48	88.70
Gonyaulax polygramma	0.00	0.21	0.43	0.40	0.45	89.15
Unknown diatom sp. A	0.20	0.00	0.37	0.26	0.39	89.55
Actinastrum sp.	0.18	0.00	0.37	0.36	0.39	89.94
Chaetoceros sp.	0.13	0.12	0.36	0.41	0.38	90.32

Groups 75%Grp7 & 75%Grp10

Average dissimilarity = 90.57

Species	Group 75%Grp7 Av.Abund	Group 75%Grp10 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	9.20	1.55	10.16	10.16
Unknown Cryptophyte sp.	6.29	0.00	9.02	2.16	9.95	20.11
Skeletonema costatum	3.34	3.94	4.86	1.36	5.36	25.48
Unknown diatom sp.	3.30	0.00	4.47	1.60	4.94	30.42
Unknown Dinoflagellate sp.	3.01	0.00	4.36	1.23	4.81	35.23
Thalassiosira sp.	3.51	0.84	4.31	1.01	4.75	39.98
Chaetoceros subtilis	0.16	2.19	3.44	1.23	3.80	43.78
Prorocentrum minimum	1.60	0.38	2.78	0.39	3.07	46.85
Peridinium sp.	1.80	0.20	2.34	0.80	2.59	49.43
Eutreptia sp.	1.21	0.58	2.16	0.67	2.39	51.82
Pyramimonas sp.	1.63	0.00	2.08	0.91	2.29	54.11
Peridinium aciculiferum	0.00	1.12	1.70	0.84	1.87	55.98
Nitzschia closterium	0.92	0.79	1.69	1.04	1.87	57.85
Skeletonema menezelli	1.46	0.00	1.66	0.34	1.83	59.69

Chaetoceros sp.	1.28	0.12	1.59	0.65	1.75	61.44
Leptocylicus minimum	0.72	0.80	1.45	0.86	1.61	63.04
Nitzschia pungens	0.82	0.45	1.38	0.75	1.52	64.57
Schizothrix sp.	0.11	1.06	1.38	0.57	1.52	66.09
Thalassiosira pseudonana	0.00	0.90	1.24	0.81	1.37	67.46
Prorocentrum sp.	0.77	0.00	1.05	0.33	1.16	68.62
Nitzschia longissima	0.00	0.75	1.03	0.91	1.14	69.76
Eutreptiella sp.	0.69	0.00	1.02	0.35	1.13	70.88
Unknown pennate diatom sp.	0.00	0.75	1.01	0.84	1.12	72.00
Chaetoceros socialis	0.00	0.70	0.94	0.75	1.04	73.04
Leptocylicus danicus	0.65	0.18	0.90	0.44	0.99	74.04
Unknown Katodinium sp.	0.54	0.00	0.88	0.28	0.97	75.01
Scenedesmus sp.	0.60	0.07	0.85	0.47	0.94	75.95
Rhizosolenia setigera	0.51	0.28	0.82	0.67	0.91	76.86
Schroederia setigera	0.00	0.53	0.78	0.60	0.86	77.72
Prorocentrum micans	0.34	0.24	0.76	0.36	0.84	78.56
Ceratium hircus	0.36	0.22	0.68	0.44	0.75	79.31
Apedinella radians	0.50	0.00	0.67	0.43	0.74	80.04
Glenodinium sp.	0.50	0.00	0.65	0.30	0.72	80.76
Gymnodinium sp.	0.15	0.37	0.65	0.57	0.72	81.48
Navicula sp. large	0.47	0.00	0.64	0.44	0.71	82.19
Chaetoceros gracile	0.51	0.00	0.62	0.29	0.69	82.88
Unknown diatom sp. A	0.52	0.00	0.62	0.33	0.69	83.57
Minutocellus sp.	0.51	0.00	0.61	0.41	0.67	84.24
Cyclotella sp.	0.00	0.45	0.58	0.48	0.64	84.88
Unknown Vegetative cell sp.	0.31	0.00	0.55	0.27	0.61	85.48
Cyclotella sp. (small)	0.00	0.35	0.54	0.32	0.60	86.08
Ceratulina bergonii	0.00	0.40	0.54	0.44	0.59	86.67
Prorocentrum redfieldi	0.41	0.00	0.49	0.19	0.54	87.22
Thalassionema nitzschoides	0.14	0.32	0.49	0.52	0.54	87.76
Chaetoceros neogracile	0.00	0.39	0.48	0.55	0.53	88.28
Unknown bluegreen sp.	0.33	0.00	0.48	0.31	0.53	88.81
Chaetoceros muelleri	0.35	0.00	0.46	0.33	0.51	89.32
Akistrodesmus sp.	0.33	0.05	0.45	0.34	0.50	89.82
Gonyaulax monilata	0.00	0.33	0.44	0.47	0.49	90.30

Groups 75%Grp6 & 75%Grp10

Average dissimilarity = 85.53

Species	Group 75%Grp6 Av.Abund	Group 75%Grp10 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.13	0.00	7.44	1.99	8.70	8.70

Unknown Cryptophyte sp.	5.10	0.00	6.92	2.15	8.09	16.79
Skeletonema costatum	7.46	3.94	6.27	1.56	7.33	24.12
Unknown diatom sp.	3.67	0.00	4.50	2.20	5.27	29.38
Thalassiosira sp.	4.15	0.84	4.15	1.90	4.86	34.24
Nitzschia closterium	3.83	0.79	3.95	1.94	4.61	38.85
Chaetoceros subtilis	0.27	2.19	3.14	1.22	3.67	42.52
Nitzschia pungens	2.56	0.45	3.06	1.25	3.58	46.10
Unknown Dinoflagellate sp.	2.35	0.00	2.82	1.28	3.29	49.40
Chaetoceros sp.	2.39	0.12	2.76	1.14	3.23	52.63
Skeletonema menezelli	2.03	0.00	2.03	0.41	2.37	55.00
Leptocylindricus minimum	1.46	0.80	1.92	0.97	2.25	57.25
Pyramimonas sp.	1.39	0.00	1.84	0.78	2.15	59.40
Peridinium aciculiferum	0.00	1.12	1.53	0.82	1.79	61.19
Peridinium sp.	1.06	0.20	1.29	0.66	1.51	62.70
Chaetoceros muelleri	1.09	0.00	1.24	0.59	1.45	64.14
Thalassionema nitzschoides	0.96	0.32	1.20	0.74	1.40	65.55
Schizothrix sp.	0.00	1.06	1.20	0.55	1.40	66.95
Ceratium hircus	0.95	0.22	1.14	0.56	1.34	68.29
Thalassiosira pseudonana	0.00	0.90	1.13	0.80	1.32	69.61
Asterionella japonica	0.98	0.00	1.07	0.57	1.25	70.86
Leptocylindricus danicus	0.69	0.18	1.03	0.59	1.20	72.07
Rhizosolenia setigera	0.77	0.28	1.03	0.73	1.20	73.27
Nitzschia longissima	0.00	0.75	0.94	0.90	1.10	74.37
Unknown pennate diatom sp.	0.00	0.75	0.93	0.84	1.08	75.45
Minutocellus sp.	0.83	0.00	0.90	0.54	1.05	76.50
Navicula sp. large	0.73	0.00	0.89	0.59	1.04	77.54
Chaetoceros socialis	0.00	0.70	0.86	0.74	1.00	78.54
Eutreptia sp.	0.08	0.58	0.78	0.73	0.91	79.45
Schroederia setigera	0.00	0.53	0.71	0.60	0.83	80.28
Prorocentrum sp.	0.58	0.00	0.69	0.41	0.81	81.09
Unknown diatom sp. A	0.58	0.00	0.69	0.42	0.81	81.90
Prorocentrum minimum	0.16	0.38	0.66	0.48	0.77	82.67
Gymnodinium sp.	0.22	0.37	0.64	0.62	0.74	83.42
Prorocentrum micans	0.32	0.24	0.54	0.54	0.63	84.05
Cyclotella sp.	0.00	0.45	0.53	0.48	0.62	84.67
Navicula sp. small	0.46	0.00	0.50	0.36	0.58	85.25
Cyclotella sp. (small)	0.00	0.35	0.49	0.32	0.57	85.82
Ceratulina bergonii	0.00	0.40	0.49	0.44	0.57	86.40
Chaetoceros gracile	0.36	0.00	0.45	0.20	0.53	86.92
Chaetoceros neogracile	0.00	0.39	0.44	0.54	0.51	87.43
Pyrophacus sp.	0.39	0.00	0.43	0.29	0.50	87.93
Scenedesmus sp.	0.27	0.07	0.41	0.34	0.48	88.41
Gonyaulax monilata	0.00	0.33	0.40	0.46	0.47	88.89

Akistrodesmus sp.	0.28	0.05	0.40	0.31	0.47	89.35
Apedinella radians	0.30	0.00	0.38	0.37	0.44	89.80
Aphanocapsa sp.	0.40	0.00	0.38	0.37	0.44	90.24

Groups 75%Grp5 & 75%Grp10

Average dissimilarity = 85.96

Species	Group 75%Grp5 Av.Abund	Group 75%Grp10 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	10.82	1.93	12.59	12.59
Unknown diatom sp. D	8.36	0.00	8.59	2.85	9.99	22.57
Unknown Cryptophyte sp.	7.43	0.00	8.05	8.69	9.37	31.95
Unknown diatom sp.	4.70	0.00	5.01	7.11	5.83	37.77
Thalassiosira sp.	4.72	0.84	4.28	2.80	4.98	42.75
Pyramimonas sp.	3.83	0.00	4.19	6.79	4.88	47.63
Nitzschia closterium	4.12	0.79	3.81	2.31	4.43	52.06
Rhizosolenia fragilissima	2.34	0.05	3.00	0.98	3.49	55.55
Chaetoceros sp.	3.08	0.12	2.89	1.02	3.36	58.92
Gymnodinium sp.	2.63	0.37	2.51	1.13	2.92	61.84
Chaetoceros subtilis	0.00	2.19	2.51	1.31	2.92	64.75
Skeletonema costatum	5.96	3.94	2.30	1.44	2.67	67.43
Apedinella radians	1.78	0.00	2.29	0.97	2.66	70.08
Nitzschia pungens	2.29	0.45	2.20	1.14	2.56	72.65
Cerataulina bergonii large	1.50	0.00	1.92	0.97	2.24	74.88
Leptocylindricus minimum	1.88	0.80	1.86	1.16	2.17	77.05
Peridinium sp.	1.50	0.20	1.43	1.06	1.66	78.71
Prorocentrum sp.	1.50	0.00	1.40	0.98	1.62	80.33
Peridinium aciculiferum	0.00	1.12	1.27	0.86	1.47	81.81
Rhizosolenia setigera	1.26	0.28	1.21	1.10	1.41	83.22
Leptocylindricus danicus	1.26	0.18	1.20	1.03	1.39	84.62
Navicula sp. large	1.26	0.00	1.17	0.98	1.37	85.98
Schizothrix sp.	0.00	1.06	1.03	0.55	1.20	87.18
Thalassiosira pseudonana	0.00	0.90	0.96	0.82	1.11	88.29
Nitzschia longissima	0.00	0.75	0.79	0.93	0.92	89.21
Unknown pennate diatom sp.	0.00	0.75	0.78	0.86	0.91	90.13

Groups 75%Grp8 & 75%Grp10

Average dissimilarity = 81.73

Species	Group 75%Grp8 Av.Abund	Group 75%Grp10 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
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Skeletonema costatum	3.27	3.94	6.87	1.39	8.41	8.41
Chaetoceros subtilis	0.44	2.19	4.84	1.01	5.92	14.33
Cyclotella sp. (small)	1.79	0.35	3.90	0.77	4.77	19.10
Cyclotella sp.	1.76	0.45	3.69	0.83	4.52	23.62
Unknown pennate diatom sp.	2.07	0.75	3.53	1.12	4.32	27.94
Thalassiosira pseudonana	1.05	0.90	2.88	0.93	3.52	31.46
Cyclotella sp. (large)	1.45	0.08	2.85	0.62	3.49	34.95
Peridinium aciculiferum	0.11	1.12	2.62	0.82	3.21	38.16
Scenedesmus quadricauda	1.15	0.16	2.22	1.06	2.71	40.87
Gymnodinium sp.	1.01	0.37	2.14	0.98	2.62	43.49
Schroederia setigera	1.04	0.53	2.13	1.04	2.60	46.10
Eutreptia sp.	0.88	0.58	1.99	1.05	2.44	48.53
Schizothrix sp.	0.00	1.06	1.82	0.56	2.22	50.76
Nitzschia longissima	0.78	0.75	1.80	1.04	2.20	52.96
Thalassiosira sp.	0.10	0.84	1.80	0.70	2.20	55.15
Scenedesmus bijinga	0.90	0.00	1.71	0.80	2.09	57.24
Thalassiosira decipiens	0.91	0.06	1.58	0.52	1.93	59.17
Nitzschia closterium	0.08	0.79	1.56	0.88	1.90	61.08
Leptocylindricus minimum	0.00	0.80	1.36	0.67	1.66	62.73
Chaetoceros socialis	0.00	0.70	1.35	0.73	1.66	64.39
Akistrodesmus falcatus	0.64	0.00	1.21	0.65	1.48	65.87
Amphiprora sp.	0.49	0.05	1.03	0.65	1.25	67.12
Bluegreen filamentous sp.	0.41	0.00	0.93	0.58	1.14	68.26
Actinastrum hantzschii	0.49	0.00	0.93	0.48	1.14	69.40
Prorocentrum minimum	0.16	0.38	0.92	0.65	1.13	70.53
Nitzschia pungens	0.00	0.45	0.83	0.54	1.02	71.55
Scenedesmus acutus	0.34	0.10	0.82	0.45	1.01	72.56
Ceratulina bergonii	0.00	0.40	0.77	0.42	0.95	73.50
Melosira sp.	0.36	0.00	0.74	0.49	0.90	74.41
Crucigenia sp.	0.22	0.00	0.68	0.49	0.84	75.24
Cyclotella meneghiniana	0.40	0.00	0.68	0.27	0.83	76.08
Scrippsiella sp.	0.08	0.29	0.66	0.53	0.81	76.89
Chaetoceros neogracile	0.00	0.39	0.66	0.54	0.81	77.69
Gonyaulax monilata	0.00	0.33	0.64	0.46	0.78	78.47
Dictyosphaerium sp.	0.46	0.00	0.63	0.39	0.78	79.25
Merismopedia punctata	0.29	0.00	0.61	0.36	0.74	79.99
Pleurosigma sp.	0.24	0.00	0.60	0.48	0.73	80.72
Melosira nummuloidea	0.25	0.00	0.54	0.39	0.66	81.38
Gonyaulax spinifera	0.00	0.27	0.54	0.47	0.66	82.04
Nitzschia sp.	0.09	0.11	0.53	0.38	0.65	82.69
Thalassionema nitzschoidea	0.00	0.32	0.53	0.46	0.65	83.34
Scenedesmus sp.	0.26	0.07	0.53	0.46	0.64	83.98
Rhizosolenia setigera	0.00	0.28	0.51	0.47	0.62	84.60

Gonyaulax polygramma	0.00	0.21	0.50	0.38	0.61	85.22
Scenedesmus acuminatus	0.26	0.07	0.50	0.46	0.61	85.83
Scenedesmus abundans	0.29	0.00	0.45	0.39	0.55	86.38
Micractinium pusillum	0.30	0.00	0.42	0.37	0.51	86.89
Prorocentrum micans	0.00	0.24	0.40	0.40	0.50	87.38
Peridinium sp.	0.00	0.20	0.38	0.38	0.47	87.85
Tetrastrum sp.	0.24	0.00	0.37	0.40	0.46	88.31
Peridinium trochoideum	0.10	0.09	0.36	0.35	0.45	88.76
Ceratium hircus	0.00	0.22	0.36	0.30	0.44	89.20
Euglena sp.	0.09	0.14	0.36	0.40	0.44	89.64
Tropodoneis lepidoptera	0.19	0.00	0.32	0.27	0.39	90.03

Groups 75%Grp4 & 75%Grp12

Average dissimilarity = 97.33

Species	Group 75%Grp4 Av.Abund	Group 75%Grp12 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	8.54	1.61	8.77	8.77
Skeletonema costatum	0.16	4.06	6.89	2.58	7.08	15.85
Unknown diatom sp.	3.09	0.00	5.42	2.40	5.57	21.42
Chaetoceros subtilis	0.00	2.80	4.97	1.56	5.11	26.52
Unknown diatom sp. D	2.34	0.00	3.99	1.58	4.10	30.63
Thalassiosira sp.	2.01	0.31	3.16	1.65	3.25	33.87
Unknown Dinoflagellate sp.	1.73	0.00	3.10	0.97	3.19	37.06
Prorocentrum micans	1.61	0.00	3.09	0.55	3.18	40.24
Cyclotella sp. (small)	0.00	1.40	2.46	0.67	2.53	42.77
Scenedesmus sp.	1.47	0.00	2.41	1.15	2.47	45.24
Navicula sp. small	1.23	0.00	2.18	0.85	2.24	47.48
Schroederia setigera	0.00	1.25	2.17	1.43	2.23	49.71
Thalassiosira pseudonana	0.00	1.15	2.02	0.69	2.07	51.79
Peridinium aciculiferum	0.00	1.07	1.98	0.71	2.03	53.82
Gymnodinium sp.	0.09	1.06	1.84	0.85	1.89	55.71
Nitzschia longissima	0.00	0.91	1.65	1.20	1.70	57.41
Coscinodiscus sp.	0.83	0.00	1.50	0.57	1.55	58.95
Unknown bluegreen sp.	0.83	0.00	1.45	0.90	1.49	60.45
Nitzschia pungens	0.80	0.21	1.42	0.89	1.46	61.91
Pyramimonas sp.	0.84	0.06	1.41	0.86	1.44	63.35
Cyclotella sp.	0.00	0.79	1.33	0.53	1.37	64.72
Schizothrix sp.	0.00	0.71	1.31	0.47	1.35	66.07
Unknown pennate diatom sp.	0.00	0.72	1.28	0.72	1.31	67.38
Tetraedron sp.	0.82	0.00	1.27	0.75	1.30	68.69
Leptocylindricus minimum	0.61	0.29	1.27	0.76	1.30	69.99

Scenedesmus quadracauda	0.00	0.73	1.26	0.80	1.30	71.28
Navicula sp. large	0.66	0.00	1.26	0.65	1.29	72.57
Eutreptia sp.	0.37	0.42	1.21	0.62	1.25	73.82
Akistrodesmus sp.	0.76	0.00	1.18	0.57	1.22	75.04
Thalassiosira decipiens	0.00	0.59	1.02	0.73	1.05	76.09
Gonyaulax polygramma	0.00	0.53	0.96	0.67	0.99	77.08
Nitzschia closterium	0.20	0.40	0.90	0.64	0.93	78.01
Leptocylicus danicus	0.27	0.20	0.80	0.50	0.82	78.82
Prorocentrum sp.	0.45	0.00	0.78	0.38	0.80	79.62
Akistrodesmus falcatus	0.00	0.46	0.76	0.56	0.78	80.40
Scenedesmus bijinga	0.00	0.43	0.75	0.50	0.77	81.16
Nitzschia sp.	0.38	0.00	0.72	0.38	0.74	81.91
Schizothrix calcicola	0.48	0.00	0.69	0.58	0.71	82.61
Euglena sp.	0.00	0.38	0.68	0.49	0.69	83.31
Thalassionema nitzschoides	0.35	0.09	0.67	0.54	0.68	83.99
Peridinium sp.	0.00	0.41	0.66	0.55	0.68	84.67
Prorocentrum minimum	0.16	0.29	0.65	0.56	0.67	85.34
Prorocentrum redfieldi	0.40	0.00	0.62	0.36	0.63	85.97
Trichodesmium sp.	0.38	0.00	0.57	0.38	0.58	86.55
Eutreptiella sp.	0.35	0.00	0.56	0.39	0.58	87.13
Aphanocapsa sp.	0.36	0.00	0.52	0.39	0.54	87.67
Melosira sp.	0.20	0.15	0.49	0.41	0.50	88.17
Chroococcus sp.	0.32	0.00	0.46	0.38	0.47	88.64
Oscillatoria sp.	0.32	0.00	0.46	0.39	0.47	89.11
Actinastrum sp.	0.18	0.08	0.45	0.43	0.46	89.57
Merismopedia punctata	0.00	0.23	0.44	0.33	0.46	90.02

Groups 75%Grp7 & 75%Grp12

Average dissimilarity = 92.62

Species	Group 75%Grp7 Av.Abund	Group 75%Grp12 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	8.82	1.59	9.53	9.53
Unknown Cryptophyte sp.	6.29	0.00	8.62	2.28	9.31	18.83
Skeletonema costatum	3.34	4.06	4.81	1.49	5.19	24.03
Thalassiosira sp.	3.51	0.31	4.40	1.05	4.75	28.78
Unknown diatom sp.	3.30	0.00	4.29	1.64	4.63	33.41
Unknown Dinoflagellate sp.	3.01	0.00	4.17	1.27	4.50	37.91
Chaetoceros subtilis	0.16	2.80	3.92	1.51	4.23	42.14
Prorocentrum minimum	1.60	0.29	2.59	0.39	2.80	44.94
Peridinium sp.	1.80	0.41	2.33	0.88	2.52	47.46
Pyramimonas sp.	1.63	0.06	2.01	0.95	2.17	49.63

Eutreptia sp.	1.21	0.42	1.98	0.63	2.14	51.76
Cyclotella sp. (small)	0.00	1.40	1.93	0.66	2.08	53.84
Schroederia setigera	0.00	1.25	1.70	1.38	1.84	55.68
Skeletonema menezelli	1.46	0.00	1.61	0.34	1.74	57.42
Thalassiosira pseudonana	0.00	1.15	1.58	0.68	1.70	59.12
Peridinium aciculiferum	0.00	1.07	1.53	0.71	1.66	60.78
Gymnodinium sp.	0.15	1.06	1.50	0.83	1.62	62.40
Chaetoceros sp.	1.28	0.00	1.46	0.61	1.58	63.98
Nitzschia closterium	0.92	0.40	1.42	0.86	1.53	65.51
Nitzschia longissima	0.00	0.91	1.29	1.17	1.39	66.89
Nitzschia pungens	0.82	0.21	1.18	0.67	1.28	68.17
Schizothrix sp.	0.11	0.71	1.09	0.48	1.18	69.35
Cyclotella sp.	0.00	0.79	1.05	0.52	1.13	70.48
Leptocylindricus minimum	0.72	0.29	1.04	0.68	1.12	71.60
Prorocentrum sp.	0.77	0.00	1.01	0.33	1.09	72.69
Unknown pennate diatom sp.	0.00	0.72	1.00	0.71	1.08	73.77
Scenedesmus quadracauda	0.00	0.73	0.99	0.79	1.07	74.84
Eutreptiella sp.	0.69	0.00	0.97	0.35	1.05	75.89
Leptocylindricus danicus	0.65	0.20	0.91	0.45	0.98	76.86
Unknown Katodinium sp.	0.54	0.00	0.84	0.29	0.90	77.77
Thalassiosira decipiens	0.00	0.59	0.81	0.72	0.87	78.64
Scenedesmus sp.	0.60	0.00	0.76	0.44	0.82	79.46
Gonyaulax polygramma	0.00	0.53	0.75	0.67	0.80	80.26
Apedinella radians	0.50	0.00	0.64	0.44	0.69	80.96
Glenodinium sp.	0.50	0.00	0.63	0.30	0.68	81.63
Navicula sp. large	0.47	0.00	0.62	0.44	0.67	82.30
Rhizosolenia setigera	0.51	0.06	0.61	0.53	0.66	82.96
Unknown diatom sp. A	0.52	0.00	0.60	0.33	0.65	83.61
Chaetoceros gracile	0.51	0.00	0.60	0.29	0.65	84.26
Akistrodesmus falcatus	0.00	0.46	0.60	0.55	0.65	84.91
Minutocellus sp.	0.51	0.00	0.59	0.41	0.64	85.54
Scenedesmus bijinga	0.00	0.43	0.59	0.49	0.63	86.18
Euglena sp.	0.00	0.38	0.52	0.48	0.57	86.74
Unknown Vegetative cell sp.	0.31	0.00	0.52	0.28	0.56	87.30
Prorocentrum micans	0.34	0.00	0.48	0.24	0.52	87.82
Prorocentrum redfieldi	0.41	0.00	0.47	0.19	0.51	88.33
Unknown bluegreen sp.	0.33	0.00	0.46	0.32	0.49	88.82
Ceratium hircus	0.36	0.00	0.45	0.33	0.48	89.31
Chaetoceros muelleri	0.35	0.00	0.44	0.33	0.47	89.78
Coscinodiscus sp.	0.28	0.00	0.41	0.30	0.44	90.22

Groups 75%Grp6 & 75%Grp12

Average dissimilarity = 88.68

Species	Group 75%Grp6 Av.Abund	Group 75%Grp12 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.13	0.00	7.17	2.04	8.09	8.09
Unknown Cryptophyte sp.	5.10	0.00	6.62	2.32	7.47	15.56
Skeletonema costatum	7.46	4.06	6.01	1.69	6.78	22.34
Thalassiosira sp.	4.15	0.31	4.47	2.31	5.04	27.38
Unknown diatom sp.	3.67	0.00	4.34	2.27	4.89	32.28
Nitzschia closterium	3.83	0.40	4.12	2.23	4.64	36.92
Chaetoceros subtilis	0.27	2.80	3.58	1.48	4.04	40.96
Nitzschia pungens	2.56	0.21	3.02	1.29	3.40	44.36
Unknown Dinoflagellate sp.	2.35	0.00	2.72	1.30	3.06	47.42
Chaetoceros sp.	2.39	0.00	2.68	1.13	3.03	50.45
Skeletonema menezelli	2.03	0.00	1.98	0.41	2.23	52.68
Pyramimonas sp.	1.39	0.06	1.76	0.82	1.99	54.66
Cyclotella sp. (small)	0.00	1.40	1.76	0.65	1.98	56.64
Leptocylindricus minimum	1.46	0.29	1.68	0.85	1.89	58.54
Schroederia setigera	0.00	1.25	1.55	1.35	1.75	60.29
Thalassiosira pseudonana	0.00	1.15	1.44	0.67	1.62	61.91
Peridinium aciculiferum	0.00	1.07	1.39	0.70	1.57	63.48
Peridinium sp.	1.06	0.41	1.37	0.76	1.55	65.03
Gymnodinium sp.	0.22	1.06	1.37	0.84	1.55	66.57
Chaetoceros muelleri	1.09	0.00	1.20	0.60	1.35	67.93
Nitzschia longissima	0.00	0.91	1.17	1.15	1.32	69.24
Thalassionema nitzschoides	0.96	0.09	1.04	0.64	1.18	70.42
Asterionella japonica	0.98	0.00	1.04	0.57	1.17	71.60
Leptocylindricus danicus	0.69	0.20	1.01	0.61	1.14	72.73
Cyclotella sp.	0.00	0.79	0.96	0.51	1.08	73.81
Ceratium hircus	0.95	0.00	0.95	0.48	1.07	74.88
Schizothrix sp.	0.00	0.71	0.92	0.46	1.04	75.93
Unknown pennate diatom sp.	0.00	0.72	0.91	0.70	1.03	76.95
Scenedesmus quadricauda	0.00	0.73	0.90	0.78	1.02	77.97
Rhizosolenia setigera	0.77	0.06	0.87	0.63	0.98	78.95
Minutocellus sp.	0.83	0.00	0.87	0.54	0.98	79.93
Navicula sp. large	0.73	0.00	0.86	0.60	0.97	80.90
Thalassiosira decipiens	0.00	0.59	0.74	0.71	0.83	81.73
Gonyaulax polygramma	0.00	0.53	0.68	0.66	0.76	82.49
Prorocentrum sp.	0.58	0.00	0.67	0.41	0.75	83.25
Unknown diatom sp. A	0.58	0.00	0.67	0.42	0.75	84.00
Eutreptia sp.	0.08	0.42	0.60	0.59	0.68	84.67
Prorocentrum minimum	0.16	0.29	0.55	0.43	0.63	85.30
Akistrodesmus falcatus	0.00	0.46	0.55	0.54	0.62	85.92

Scenedesmus bijinga	0.00	0.43	0.54	0.49	0.60	86.52
Navicula sp. small	0.46	0.00	0.48	0.36	0.55	87.07
Euglena sp.	0.00	0.38	0.48	0.47	0.54	87.61
Chaetoceros gracile	0.36	0.00	0.44	0.20	0.49	88.10
Pyrophacus sp.	0.39	0.00	0.41	0.29	0.47	88.56
Aphanocapsa sp.	0.40	0.00	0.37	0.37	0.42	88.98
Apedinella radians	0.30	0.00	0.37	0.37	0.41	89.39
Unknown bluegreen sp.	0.36	0.00	0.36	0.43	0.41	89.80
Scenedesmus sp.	0.27	0.00	0.34	0.29	0.38	90.18

Groups 75%Grp5 & 75%Grp12

Average dissimilarity = 88.10

Species	Group 75%Grp5 Av.Abund	Group 75%Grp12 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	10.47	1.99	11.88	11.88
Unknown diatom sp. D	8.36	0.00	8.35	2.89	9.48	21.36
Unknown Cryptophyte sp.	7.43	0.00	7.82	14.28	8.87	30.23
Unknown diatom sp.	4.70	0.00	4.86	8.68	5.52	35.75
Thalassiosira sp.	4.72	0.31	4.72	4.74	5.35	41.10
Nitzschia closterium	4.12	0.40	4.06	3.06	4.61	45.71
Pyramimonas sp.	3.83	0.06	4.00	8.22	4.54	50.26
Chaetoceros subtilis	0.00	2.80	2.98	1.56	3.38	53.64
Rhizosolenia fragilissima	2.34	0.00	2.90	0.98	3.29	56.93
Chaetoceros sp.	3.08	0.00	2.81	0.98	3.18	60.12
Gymnodinium sp.	2.63	1.06	2.56	1.34	2.90	63.02
Skeletonema costatum	5.96	4.06	2.25	1.69	2.55	65.57
Apedinella radians	1.78	0.00	2.21	0.98	2.50	68.07
Nitzschia pungens	2.29	0.21	2.12	1.08	2.41	70.48
Cerataulina bergonii large	1.50	0.00	1.85	0.98	2.11	72.58
Leptocylindricus minimum	1.88	0.29	1.75	1.07	1.99	74.57
Cyclotella sp. (small)	0.00	1.40	1.48	0.66	1.68	76.26
Peridinium sp.	1.50	0.41	1.42	1.14	1.61	77.87
Prorocentrum sp.	1.50	0.00	1.36	0.98	1.55	79.42
Schroederia setigera	0.00	1.25	1.31	1.42	1.49	80.91
Thalassiosira pseudonana	0.00	1.15	1.21	0.69	1.38	82.29
Leptocylindricus danicus	1.26	0.20	1.17	1.03	1.33	83.62
Peridinium aciculiferum	0.00	1.07	1.17	0.72	1.33	84.94
Rhizosolenia setigera	1.26	0.06	1.16	1.02	1.31	86.26
Navicula sp. large	1.26	0.00	1.15	0.98	1.30	87.56
Nitzschia longissima	0.00	0.91	0.98	1.21	1.12	88.67
Cyclotella sp.	0.00	0.79	0.81	0.52	0.92	89.59

Schizothrix sp.	0.00	0.71	0.78	0.47	0.88	90.47
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Groups 75%Grp8 & 75%Grp12

Average dissimilarity = 75.44

Species	Group 75%Grp8 Av.Abund	Group 75%Grp12 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	4.06	6.41	1.43	8.49	8.49
Chaetoceros subtilis	0.44	2.80	5.19	1.33	6.88	15.37
Cyclotella sp. (small)	1.79	1.40	4.49	0.97	5.96	21.33
Cyclotella sp.	1.76	0.79	3.75	0.92	4.97	26.30
Unknown pennate diatom sp.	2.07	0.72	3.27	1.30	4.33	30.63
Thalassiosira pseudonana	1.05	1.15	3.17	0.90	4.21	34.84
Cyclotella sp. (large)	1.45	0.11	2.70	0.64	3.59	38.43
Gymnodinium sp.	1.01	1.06	2.48	1.13	3.29	41.72
Peridinium aciculiferum	0.11	1.07	2.30	0.71	3.05	44.77
Thalassiosira decipiens	0.91	0.59	2.16	0.82	2.87	47.64
Scenedesmus quadracauda	1.15	0.73	2.13	1.13	2.82	50.46
Schroederia setigera	1.04	1.25	2.11	1.17	2.80	53.26
Scenedesmus bijinga	0.90	0.43	1.85	0.90	2.45	55.71
Eutreptia sp.	0.88	0.42	1.83	1.04	2.42	58.13
Nitzschia longissima	0.78	0.91	1.76	1.13	2.33	60.45
Akistrodesmus falcatus	0.64	0.46	1.51	0.83	2.00	62.46
Schizothrix sp.	0.00	0.71	1.50	0.45	1.99	64.45
Gonyaulax polygramma	0.00	0.53	1.10	0.64	1.46	65.91
Amphiprora sp.	0.49	0.12	1.01	0.70	1.34	67.25
Bluegreen filamentous sp.	0.41	0.15	0.99	0.68	1.32	68.57
Merismopedia punctata	0.29	0.23	0.94	0.49	1.25	69.82
Nitzschia closterium	0.08	0.40	0.89	0.63	1.18	71.00
Actinastrum hantzschii	0.49	0.00	0.87	0.50	1.15	72.16
Scenedesmus acutus	0.34	0.16	0.86	0.46	1.14	73.29
Euglena sp.	0.09	0.38	0.85	0.53	1.13	74.42
Melosira sp.	0.36	0.15	0.84	0.60	1.11	75.53
Pleurosigma sp.	0.24	0.16	0.79	0.56	1.04	76.57
Scenedesmus acuminatus	0.26	0.24	0.77	0.57	1.03	77.60
Prorocentrum minimum	0.16	0.29	0.75	0.62	1.00	78.60
Peridinium sp.	0.00	0.41	0.73	0.54	0.97	79.57
Crucigenia sp.	0.22	0.10	0.72	0.57	0.96	80.53
Thalassiosira sp.	0.10	0.31	0.66	0.54	0.87	81.40
Cyclotella meneghiniana	0.40	0.00	0.65	0.28	0.86	82.26
Nostoc sp.(trichomes)	0.09	0.21	0.63	0.49	0.83	83.09
Dictyosphaerium sp.	0.46	0.00	0.61	0.39	0.81	83.90

Tropodineis lepidoptera	0.19	0.14	0.54	0.35	0.71	84.61
Scrippsiella sp.	0.08	0.18	0.53	0.41	0.70	85.31
Leptocylicus minimum	0.00	0.29	0.51	0.39	0.67	85.98
Melosira nummuloidea	0.25	0.00	0.50	0.40	0.66	86.64
Tetrastrum sp.	0.24	0.09	0.50	0.45	0.66	87.31
Nitzschia pungens	0.00	0.21	0.44	0.41	0.59	87.89
Scenedesmus abundans	0.29	0.00	0.43	0.39	0.57	88.47
Scenedesmus sp.	0.26	0.00	0.42	0.40	0.55	89.02
Micrasteridium pusillum	0.30	0.00	0.40	0.38	0.53	89.55
Leptocylicus danicus	0.00	0.20	0.37	0.32	0.49	90.04

Groups 75%Grp10 & 75%Grp12

Average dissimilarity = 65.88

Species	Group 75%Grp10 Av.Abund	Group 75%Grp12 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Chaetoceros subtilis	2.19	2.80	4.13	1.34	6.27	6.27
Skeletonema costatum	3.94	4.06	3.36	1.19	5.11	11.38
Cyclotella sp. (small)	0.35	1.40	3.33	0.75	5.05	16.43
Peridinium aciculiferum	1.12	1.07	3.17	1.03	4.81	21.24
Thalassiosira pseudonana	0.90	1.15	2.99	0.95	4.54	25.78
Schizothrix sp.	1.06	0.71	2.87	0.73	4.36	30.14
Schroederia setigera	0.53	1.25	2.40	1.28	3.65	33.79
Gymnodinium sp.	0.37	1.06	2.31	0.93	3.51	37.30
Cyclotella sp.	0.45	0.79	2.09	0.70	3.17	40.47
Unknown pennate diatom sp.	0.75	0.72	2.01	0.99	3.05	43.52
Thalassiosira sp.	0.84	0.31	1.93	0.82	2.93	46.45
Nitzschia longissima	0.75	0.91	1.86	1.10	2.82	49.27
Nitzschia closterium	0.79	0.40	1.72	1.01	2.61	51.88
Leptocylicus minimum	0.80	0.29	1.63	0.79	2.47	54.35
Scenedesmus quadracauda	0.16	0.73	1.61	0.84	2.44	56.79
Eutreptia sp.	0.58	0.42	1.47	0.91	2.23	59.02
Gonyaulax polygramma	0.21	0.53	1.36	0.75	2.07	61.09
Chaetoceros socialis	0.70	0.00	1.36	0.76	2.06	63.15
Thalassiosira decipiens	0.06	0.59	1.28	0.75	1.95	65.10
Nitzschia pungens	0.45	0.21	1.12	0.70	1.70	66.79
Prorocentrum minimum	0.38	0.29	1.05	0.74	1.59	68.38
Peridinium sp.	0.20	0.41	1.01	0.67	1.54	69.92
Euglena sp.	0.14	0.38	0.98	0.57	1.49	71.40
Ceratulina bergonii	0.40	0.14	0.97	0.53	1.48	72.88
Akistrodesmus falcatus	0.00	0.46	0.91	0.55	1.38	74.26
Scenedesmus bijinga	0.00	0.43	0.91	0.49	1.38	75.64

Chaetoceros neogracile	0.39	0.17	0.90	0.64	1.36	77.00
Scrippsiella sp.	0.29	0.18	0.84	0.56	1.28	78.28
Thalassionema nitzschoides	0.32	0.09	0.67	0.52	1.02	79.30
Leptocylindricus danicus	0.18	0.20	0.65	0.46	0.99	80.29
Gonyaulax monilata	0.33	0.00	0.64	0.47	0.97	81.26
Scenedesmus acuminatus	0.07	0.24	0.61	0.46	0.92	82.18
Rhizosolenia setigera	0.28	0.06	0.60	0.54	0.91	83.09
Nostoc sp.(trichomes)	0.05	0.21	0.57	0.45	0.87	83.96
Merismopedia punctata	0.00	0.23	0.55	0.33	0.84	84.79
Gonyaulax spinifera	0.27	0.00	0.54	0.49	0.82	85.61
Scenedesmus acutus	0.10	0.16	0.52	0.32	0.79	86.40
Cyclotella sp. (large)	0.08	0.11	0.42	0.32	0.63	87.03
Prorocentrum micans	0.24	0.00	0.41	0.41	0.62	87.65
Pleurosigma sp.	0.00	0.16	0.40	0.29	0.61	88.25
Ceratium hircus	0.22	0.00	0.37	0.31	0.56	88.81
Peridinium concinnum	0.09	0.12	0.35	0.41	0.53	89.33
Bluegreen filamentous sp.	0.00	0.15	0.34	0.33	0.51	89.85
Amphiprora sp.	0.05	0.12	0.33	0.40	0.50	90.35

Groups 75%Grp4 & 75%Grp13

Average dissimilarity = 94.88

Species	Group 75%Grp4 Av.Abund	Group 75%Grp13 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	0.16	5.90	9.59	1.62	10.11	10.11
Unknown Cryptophyte sp.	4.79	0.04	8.04	1.50	8.47	18.58
Unknown diatom sp.	3.09	0.00	5.14	2.15	5.42	23.99
Unknown diatom sp. D	2.34	0.00	3.79	1.50	3.99	27.99
Thalassiosira sp.	2.01	1.38	3.39	1.42	3.57	31.56
Prorocentrum micans	1.61	0.13	2.99	0.56	3.15	34.71
Unknown Dinoflagellate sp.	1.73	0.00	2.94	0.93	3.10	37.81
Prorocentrum minimum	0.16	1.59	2.49	0.97	2.62	40.44
Thalassiosira pseudonana	0.00	1.56	2.39	0.82	2.52	42.95
Eutreptia sp.	0.37	1.43	2.38	1.00	2.50	45.46
Scenedesmus sp.	1.47	0.05	2.28	1.12	2.40	47.85
Navicula sp. small	1.23	0.00	2.07	0.82	2.18	50.04
Leptocylindricus minimum	0.61	0.75	1.62	0.83	1.71	51.75
Pyramimonas sp.	0.84	0.33	1.54	0.87	1.63	53.38
Coscinodiscus sp.	0.83	0.05	1.47	0.59	1.55	54.93
Unknown bluegreen sp.	0.83	0.00	1.38	0.87	1.45	56.38
Schroederia setigera	0.00	0.82	1.37	0.89	1.44	57.82
Peridinium aciculiferum	0.00	0.84	1.34	0.81	1.42	59.24

Chaetoceros subtilis	0.00	0.83	1.33	0.70	1.40	60.64
Nitzschia pungens	0.80	0.12	1.32	0.81	1.39	62.03
Thalassiosira decipiens	0.00	0.84	1.27	0.77	1.34	63.36
Unknown pennate diatom sp.	0.00	0.81	1.24	0.68	1.31	64.67
Tetraedron sp.	0.82	0.07	1.24	0.75	1.31	65.98
Navicula sp. large	0.66	0.00	1.19	0.63	1.25	67.23
Cyclotella sp.	0.00	0.83	1.19	0.50	1.25	68.49
Nitzschia longissima	0.00	0.74	1.18	0.96	1.24	69.73
Akistrodesmus sp.	0.76	0.04	1.17	0.59	1.24	70.97
Nitzschia closterium	0.20	0.62	1.11	0.91	1.17	72.14
Euglena sp.	0.00	0.69	1.05	0.44	1.10	73.24
Scrippsiella sp.	0.00	0.59	0.99	0.64	1.04	74.29
Ceratulina bergonii	0.00	0.53	0.93	0.42	0.98	75.26
Gymnodinium sp.	0.09	0.53	0.86	0.74	0.91	76.17
Merismopedia punctata	0.00	0.54	0.81	0.45	0.85	77.03
Thalassionema nitzschoides	0.35	0.20	0.79	0.57	0.83	77.86
Crucigenia sp.	0.21	0.38	0.77	0.60	0.81	78.67
Schizothrix sp.	0.00	0.49	0.74	0.42	0.78	79.45
Prorocentrum sp.	0.45	0.00	0.74	0.38	0.78	80.23
Nitzschia sp.	0.38	0.00	0.68	0.37	0.72	80.95
Schizothrix calcicola	0.48	0.00	0.66	0.57	0.69	81.64
Scenedesmus quadracauda	0.00	0.46	0.65	0.48	0.69	82.32
Akistrodesmus falcatus	0.00	0.43	0.64	0.54	0.68	83.00
Leptocylindricus danicus	0.27	0.09	0.61	0.42	0.64	83.64
Prorocentrum redfieldi	0.40	0.00	0.59	0.36	0.62	84.26
Oscillatoria sp.	0.32	0.10	0.56	0.48	0.59	84.85
Trichodesmium sp.	0.38	0.00	0.54	0.37	0.57	85.42
Chaetoceros neogracile	0.00	0.31	0.54	0.52	0.57	85.99
Eutreptiella sp.	0.35	0.00	0.53	0.38	0.56	86.55
Aphanocapsa sp.	0.36	0.00	0.50	0.38	0.53	87.08
Chroococcus sp.	0.32	0.00	0.44	0.38	0.46	87.54
Nostoc sp.(trichomes)	0.00	0.27	0.43	0.42	0.46	87.99
Peridinium sp.	0.00	0.31	0.43	0.55	0.45	88.44
Chaetoceros socialis	0.00	0.28	0.40	0.36	0.43	88.87
Scenedesmus bijinga	0.00	0.28	0.39	0.43	0.41	89.28
Unknown diatom sp. A	0.20	0.00	0.33	0.26	0.35	89.63
Actinastrum sp.	0.18	0.00	0.32	0.36	0.34	89.97
Unknown diatom sp. 17	0.20	0.00	0.31	0.38	0.33	90.30

Groups 75%Grp7 & 75%Grp13

Average dissimilarity = 89.16

Species	Group 75%Grp7 Av.Abund	Group 75%Grp13 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	8.43	1.53	9.45	9.45
Unknown Cryptophyte sp.	6.29	0.04	8.17	2.11	9.17	18.62
Skeletonema costatum	3.34	5.90	6.18	1.28	6.93	25.55
Thalassiosira sp.	3.51	1.38	4.17	1.06	4.68	30.23
Unknown diatom sp.	3.30	0.00	4.10	1.59	4.60	34.82
Unknown Dinoflagellate sp.	3.01	0.00	3.97	1.23	4.45	39.28
Prorocentrum minimum	1.60	1.59	3.50	0.59	3.93	43.21
Eutreptia sp.	1.21	1.43	2.58	0.93	2.89	46.10
Peridinium sp.	1.80	0.31	2.18	0.83	2.45	48.55
Pyramimonas sp.	1.63	0.33	1.99	0.95	2.23	50.78
Thalassiosira pseudonana	0.00	1.56	1.92	0.80	2.15	52.92
Skeletonema menezelli	1.46	0.00	1.55	0.34	1.73	54.66
Nitzschia closterium	0.92	0.62	1.44	1.00	1.62	56.28
Chaetoceros sp.	1.28	0.00	1.40	0.60	1.57	57.85
Leptocylindricus minimum	0.72	0.75	1.36	0.79	1.53	59.38
Chaetoceros subtilis	0.16	0.83	1.18	0.68	1.32	60.70
Schroederia setigera	0.00	0.82	1.07	0.88	1.20	61.90
Peridinium aciculiferum	0.00	0.84	1.07	0.80	1.20	63.10
Nitzschia pungens	0.82	0.12	1.06	0.60	1.19	64.29
Thalassiosira decipiens	0.00	0.84	1.02	0.77	1.15	65.43
Unknown pennate diatom sp.	0.00	0.81	0.99	0.68	1.11	66.55
Prorocentrum sp.	0.77	0.00	0.96	0.33	1.08	67.63
Cyclotella sp.	0.00	0.83	0.96	0.49	1.08	68.71
Nitzschia longissima	0.00	0.74	0.94	0.95	1.05	69.76
Eutreptiella sp.	0.69	0.00	0.93	0.34	1.04	70.80
Euglena sp.	0.00	0.69	0.84	0.44	0.94	71.74
Unknown Katodinium sp.	0.54	0.00	0.79	0.28	0.89	72.63
Scrippsiella sp.	0.00	0.59	0.78	0.64	0.87	73.50
Scenedesmus sp.	0.60	0.05	0.77	0.47	0.87	74.37
Gymnodinium sp.	0.15	0.53	0.76	0.69	0.85	75.22
Leptocylindricus danicus	0.65	0.09	0.73	0.38	0.82	76.04
Ceratulina bergonii	0.00	0.53	0.72	0.43	0.81	76.85
Schizothrix sp.	0.11	0.49	0.68	0.45	0.76	77.61
Rhizosolenia setigera	0.51	0.16	0.67	0.55	0.75	78.36
Merismopedia punctata	0.00	0.54	0.65	0.45	0.73	79.09
Apedinella radians	0.50	0.00	0.61	0.43	0.69	79.78
Glenodinium sp.	0.50	0.00	0.60	0.30	0.67	80.45
Prorocentrum micans	0.34	0.13	0.59	0.32	0.67	81.12
Navicula sp. large	0.47	0.00	0.59	0.44	0.66	81.78
Unknown diatom sp. A	0.52	0.00	0.58	0.33	0.65	82.42
Chaetoceros gracile	0.51	0.00	0.57	0.29	0.64	83.07

Minutocellus sp.	0.51	0.00	0.56	0.41	0.63	83.70
Scenedesmus quadricauda	0.00	0.46	0.53	0.47	0.60	84.30
Akistrodesmus falcatus	0.00	0.43	0.52	0.53	0.58	84.88
Unknown Vegetative cell sp.	0.31	0.00	0.49	0.27	0.55	85.43
Ceratium hircus	0.36	0.08	0.49	0.37	0.54	85.97
Coscinodiscus sp.	0.28	0.05	0.46	0.35	0.52	86.49
Crucigenia sp.	0.00	0.38	0.46	0.47	0.52	87.01
Prorocentrum redfieldi	0.41	0.00	0.45	0.19	0.51	87.52
Unknown bluegreen sp.	0.33	0.00	0.43	0.31	0.49	88.01
Amphora sp.	0.20	0.13	0.43	0.36	0.48	88.49
Akistrodesmus sp.	0.33	0.04	0.42	0.34	0.48	88.97
Chaetoceros neogracile	0.00	0.31	0.42	0.51	0.47	89.44
Chaetoceros muelleri	0.35	0.00	0.42	0.33	0.47	89.91
Tetraedron sp.	0.30	0.07	0.39	0.35	0.44	90.35

Groups 75%Grp6 & 75%Grp13

Average dissimilarity = 84.29

Species	Group 75%Grp6 Av.Abund	Group 75%Grp13 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.13	0.00	6.87	1.95	8.15	8.15
Unknown Cryptophyte sp.	5.10	0.04	6.28	2.15	7.45	15.60
Skeletonema costatum	7.46	5.90	5.56	1.34	6.59	22.20
Unknown diatom sp.	3.67	0.00	4.16	2.16	4.93	27.13
Thalassiosira sp.	4.15	1.38	3.92	1.78	4.65	31.77
Nitzschia closterium	3.83	0.62	3.76	2.02	4.46	36.23
Nitzschia pungens	2.56	0.12	2.92	1.22	3.46	39.69
Unknown Dinoflagellate sp.	2.35	0.00	2.60	1.27	3.09	42.78
Chaetoceros sp.	2.39	0.00	2.57	1.11	3.05	45.83
Skeletonema menezelli	2.03	0.00	1.90	0.41	2.26	48.09
Prorocentrum minimum	0.16	1.59	1.89	0.94	2.25	50.34
Leptocylicus minimum	1.46	0.75	1.82	0.93	2.16	52.50
Thalassiosira pseudonana	0.00	1.56	1.76	0.79	2.09	54.58
Pyramimonas sp.	1.39	0.33	1.76	0.83	2.09	56.67
Eutreptia sp.	0.08	1.43	1.63	0.98	1.93	58.60
Peridinium sp.	1.06	0.31	1.24	0.71	1.47	60.08
Chaetoceros subtilis	0.27	0.83	1.18	0.68	1.40	61.48
Chaetoceros muelleri	1.09	0.00	1.15	0.59	1.36	62.84
Thalassionema nitzschoides	0.96	0.20	1.09	0.69	1.29	64.13
Asterionella japonica	0.98	0.00	1.00	0.57	1.19	65.32
Schroederia setigera	0.00	0.82	0.98	0.87	1.16	66.48
Peridinium aciculiferum	0.00	0.84	0.98	0.79	1.16	67.64

Ceratium hircus	0.95	0.08	0.96	0.51	1.14	68.78
Thalassiosira decipiens	0.00	0.84	0.94	0.76	1.12	69.89
Unknown pennate diatom sp.	0.00	0.81	0.91	0.68	1.08	70.97
Rhizosolenia setigera	0.77	0.16	0.89	0.64	1.06	72.03
Cyclotella sp.	0.00	0.83	0.89	0.49	1.05	73.08
Leptocylindricus danicus	0.69	0.09	0.89	0.54	1.05	74.13
Nitzschia longissima	0.00	0.74	0.86	0.94	1.02	75.15
Minutocellus sp.	0.83	0.00	0.84	0.54	0.99	76.14
Navicula sp. large	0.73	0.00	0.82	0.59	0.97	77.12
Euglena sp.	0.00	0.69	0.77	0.43	0.92	78.04
Gymnodinium sp.	0.22	0.53	0.73	0.74	0.87	78.90
Scrippsiella sp.	0.00	0.59	0.71	0.64	0.84	79.74
Ceratulina bergonii	0.00	0.53	0.65	0.42	0.78	80.52
Prorocentrum sp.	0.58	0.00	0.64	0.41	0.76	81.28
Unknown diatom sp. A	0.58	0.00	0.64	0.42	0.76	82.03
Merismopedia punctata	0.00	0.54	0.60	0.45	0.71	82.74
Schizothrix sp.	0.00	0.49	0.55	0.42	0.65	83.39
Scenedesmus quadracauda	0.00	0.46	0.49	0.47	0.58	83.98
Akistrodesmus falcatus	0.00	0.43	0.48	0.53	0.56	84.54
Navicula sp. small	0.46	0.00	0.47	0.36	0.55	85.09
Crucigenia sp.	0.00	0.38	0.42	0.47	0.50	85.60
Chaetoceros gracile	0.36	0.00	0.42	0.20	0.49	86.09
Prorocentrum micans	0.32	0.13	0.42	0.49	0.49	86.58
Pyrophacus sp.	0.39	0.00	0.40	0.29	0.47	87.05
Chaetoceros neogracile	0.00	0.31	0.38	0.51	0.45	87.51
Akistrodesmus sp.	0.28	0.04	0.37	0.32	0.44	87.95
Scenedesmus sp.	0.27	0.05	0.37	0.33	0.44	88.39
Aphanocapsa sp.	0.40	0.00	0.35	0.37	0.42	88.81
Apedinella radians	0.30	0.00	0.35	0.36	0.42	89.23
Unknown bluegreen sp.	0.36	0.00	0.35	0.43	0.41	89.64
Nostoc sp.(trichomes)	0.00	0.27	0.31	0.41	0.37	90.02

Groups 75%Grp5 & 75%Grp13

Average dissimilarity = 84.83

Species	Group 75%Grp5 Av.Abund	Group 75%Grp13 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	10.04	1.94	11.83	11.83
Unknown diatom sp. D	8.36	0.00	8.03	2.74	9.47	21.30
Unknown Cryptophyte sp.	7.43	0.04	7.47	7.12	8.81	30.10
Unknown diatom sp.	4.70	0.00	4.67	6.21	5.51	35.61
Thalassiosira sp.	4.72	1.38	3.83	2.28	4.52	40.13

Nitzschia closterium	4.12	0.62	3.70	2.63	4.36	44.50
Pyramimonas sp.	3.83	0.33	3.59	3.06	4.23	48.73
Rhizosolenia fragilissima	2.34	0.00	2.78	0.97	3.27	52.00
Chaetoceros sp.	3.08	0.00	2.71	0.98	3.19	55.20
Skeletonema costatum	5.96	5.90	2.67	1.11	3.14	58.34
Gymnodinium sp.	2.63	0.53	2.38	1.18	2.80	61.14
Apedinella radians	1.78	0.00	2.11	0.97	2.49	63.63
Nitzschia pungens	2.29	0.12	2.03	1.02	2.39	66.02
Leptocylicus minimum	1.88	0.75	1.79	1.13	2.11	68.14
Cerataulina bergonii large	1.50	0.00	1.77	0.97	2.09	70.23
Prorocentrum minimum	0.00	1.59	1.56	0.95	1.84	72.07
Thalassiosira pseudonana	0.00	1.56	1.51	0.80	1.79	73.85
Eutreptia sp.	0.00	1.43	1.40	1.01	1.65	75.51
Peridinium sp.	1.50	0.31	1.35	1.12	1.59	77.10
Prorocentrum sp.	1.50	0.00	1.31	0.98	1.55	78.65
Rhizosolenia setigera	1.26	0.16	1.13	1.01	1.34	79.99
Leptocylicus danicus	1.26	0.09	1.11	0.99	1.31	81.30
Navicula sp. large	1.26	0.00	1.11	0.98	1.30	82.60
Peridinium aciculiferum	0.00	0.84	0.83	0.81	0.98	83.58
Schroederia setigera	0.00	0.82	0.83	0.90	0.98	84.56
Chaetoceros subtilis	0.00	0.83	0.82	0.71	0.97	85.54
Thalassiosira decipiens	0.00	0.84	0.81	0.78	0.96	86.49
Unknown pennate diatom sp.	0.00	0.81	0.78	0.69	0.92	87.41
Cyclotella sp.	0.00	0.83	0.77	0.49	0.91	88.32
Nitzschia longissima	0.00	0.74	0.74	0.98	0.87	89.19
Euglena sp.	0.00	0.69	0.67	0.44	0.79	89.97
Scrippsiella sp.	0.00	0.59	0.60	0.67	0.71	90.68

Groups 75%Grp8 & 75%Grp13

Average dissimilarity = 79.52

Species	Group 75%Grp8 Av.Abund	Group 75%Grp13 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	5.90	8.85	1.18	11.13	11.13
Cyclotella sp.	1.76	0.83	3.57	0.87	4.49	15.62
Thalassiosira pseudonana	1.05	1.56	3.32	0.96	4.17	19.79
Cyclotella sp. (small)	1.79	0.13	3.25	0.71	4.09	23.88
Unknown pennate diatom sp.	2.07	0.81	3.20	1.16	4.03	27.91
Prorocentrum minimum	0.16	1.59	2.73	0.97	3.44	31.35
Thalassiosira sp.	0.10	1.38	2.50	0.65	3.14	34.49
Eutreptia sp.	0.88	1.43	2.49	1.08	3.13	37.61
Cyclotella sp. (large)	1.45	0.00	2.46	0.59	3.09	40.71

Thalassiosira decipiens	0.91	0.84	2.27	0.86	2.85	43.56
Scenedesmus quadracauda	1.15	0.46	2.10	1.09	2.64	46.20
Schroederia setigera	1.04	0.82	1.91	1.10	2.40	48.60
Gymnodinium sp.	1.01	0.53	1.90	1.01	2.39	50.99
Chaetoceros subtilis	0.44	0.83	1.76	0.79	2.22	53.21
Scenedesmus bijinga	0.90	0.28	1.62	0.87	2.03	55.24
Peridinium aciculiferum	0.11	0.84	1.55	0.82	1.95	57.19
Nitzschia longissima	0.78	0.74	1.55	1.04	1.95	59.14
Akistrodesmus falcatus	0.64	0.43	1.38	0.80	1.74	60.88
Merismopedia punctata	0.29	0.54	1.25	0.57	1.57	62.45
Euglena sp.	0.09	0.69	1.24	0.47	1.55	64.01
Leptocylindricus minimum	0.00	0.75	1.19	0.56	1.50	65.51
Scrippsiella sp.	0.08	0.59	1.18	0.64	1.48	66.99
Nitzschia closterium	0.08	0.62	1.10	0.87	1.38	68.37
Ceratulina bergonii	0.00	0.53	1.07	0.40	1.34	69.72
Crucigenia sp.	0.22	0.38	1.02	0.69	1.28	71.00
Bluegreen filamentous sp.	0.41	0.21	0.96	0.68	1.21	72.21
Amphiprora sp.	0.49	0.04	0.89	0.63	1.12	73.33
Actinastrum hantzschii	0.49	0.00	0.83	0.48	1.04	74.37
Schizothrix sp.	0.00	0.49	0.82	0.42	1.03	75.40
Cyclotella meneghiniana	0.40	0.10	0.74	0.32	0.93	76.33
Melosira sp.	0.36	0.00	0.65	0.49	0.81	77.14
Nostoc sp.(trichomes)	0.09	0.27	0.63	0.49	0.80	77.94
Scenedesmus acuminatus	0.26	0.19	0.62	0.53	0.77	78.71
Chaetoceros neogracile	0.00	0.31	0.61	0.49	0.77	79.48
Scenedesmus acutus	0.34	0.00	0.59	0.39	0.74	80.22
Dictyosphaerium sp.	0.46	0.00	0.58	0.39	0.73	80.95
Melosira nummuloidea	0.25	0.09	0.57	0.44	0.71	81.66
Pyramimonas sp.	0.00	0.33	0.54	0.34	0.68	82.35
Pleurosigma sp.	0.24	0.00	0.51	0.48	0.64	82.99
Peridinium sp.	0.00	0.31	0.47	0.54	0.59	83.58
Scenedesmus sp.	0.26	0.05	0.46	0.44	0.58	84.16
Chaetoceros socialis	0.00	0.28	0.45	0.35	0.56	84.72
Thalassionema nitzschoidea	0.00	0.20	0.43	0.32	0.54	85.26
Scenedesmus abundans	0.29	0.00	0.41	0.38	0.52	85.77
Peridinium trochoideum	0.10	0.14	0.39	0.39	0.49	86.26
Tetrastrum sp.	0.24	0.04	0.39	0.44	0.49	86.75
Micractinium pusillum	0.30	0.00	0.38	0.37	0.48	87.23
Selenastrum gracile	0.11	0.11	0.34	0.38	0.43	87.66
Akistrodesmus fractus	0.10	0.07	0.33	0.33	0.42	88.08
Dinobryon sp.	0.16	0.05	0.30	0.33	0.38	88.46
Tropodoneis lepidoptera	0.19	0.00	0.29	0.27	0.36	88.82
Phacus sp.	0.11	0.04	0.28	0.32	0.35	89.17

Nitzschia sp.	0.09	0.00	0.27	0.26	0.35	89.51
Unknown chlorophyte sp.	0.18	0.00	0.27	0.27	0.34	89.86
Unkown C sp.	0.22	0.00	0.27	0.27	0.33	90.19

Groups 75%Grp10 & 75%Grp13

Average dissimilarity = 70.71

Species	Group 75%Grp10 Av.Abund	Group 75%Grp13 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.94	5.90	6.38	1.08	9.02	9.02
Chaetoceros subtilis	2.19	0.83	4.18	1.00	5.91	14.92
Thalassiosira sp.	0.84	1.38	3.23	0.86	4.57	19.49
Thalassiosira pseudonana	0.90	1.56	3.21	1.06	4.54	24.03
Prorocentrum minimum	0.38	1.59	2.92	0.99	4.14	28.17
Eutreptia sp.	0.58	1.43	2.61	1.02	3.69	31.86
Peridinium aciculiferum	1.12	0.84	2.59	0.98	3.66	35.51
Schizothrix sp.	1.06	0.49	2.26	0.70	3.19	38.70
Leptocylindricus minimum	0.80	0.75	2.02	0.86	2.86	41.57
Unknown pennate diatom sp.	0.75	0.81	2.02	0.98	2.85	44.42
Cyclotella sp.	0.45	0.83	1.89	0.67	2.67	47.09
Schroederia setigera	0.53	0.82	1.87	0.98	2.65	49.73
Nitzschia longissima	0.75	0.74	1.64	1.02	2.31	52.05
Ceratulina bergonii	0.40	0.53	1.63	0.56	2.31	54.35
Nitzschia closterium	0.79	0.62	1.63	1.03	2.30	56.65
Thalassiosira decipiens	0.06	0.84	1.53	0.79	2.16	58.81
Chaetoceros socialis	0.70	0.28	1.51	0.80	2.13	60.94
Scrippsiella sp.	0.29	0.59	1.41	0.72	1.99	62.93
Euglena sp.	0.14	0.69	1.38	0.49	1.95	64.88
Gymnodinium sp.	0.37	0.53	1.27	0.79	1.79	66.68
Chaetoceros neogracile	0.39	0.31	1.05	0.71	1.48	68.16
Scenedesmus quadracauda	0.16	0.46	0.97	0.58	1.37	69.53
Cyclotella sp. (small)	0.35	0.13	0.97	0.37	1.37	70.90
Merismopedia punctata	0.00	0.54	0.96	0.45	1.36	72.26
Nitzschia pungens	0.45	0.12	0.92	0.61	1.30	73.56
Thalassionema nitzschoides	0.32	0.20	0.86	0.53	1.21	74.77
Akistrodesmus falcatus	0.00	0.43	0.76	0.53	1.08	75.85
Peridinium sp.	0.20	0.31	0.74	0.65	1.05	76.90
Gonyaulax monilata	0.33	0.07	0.74	0.49	1.05	77.95
Rhizosolenia setigera	0.28	0.16	0.69	0.53	0.98	78.93
Crucigenia sp.	0.00	0.38	0.69	0.47	0.97	79.90
Gonyaulax polygramma	0.21	0.15	0.67	0.51	0.94	80.84
Gonyaulax spinifera	0.27	0.10	0.64	0.55	0.90	81.74

Pyramimonas sp.	0.00	0.33	0.58	0.35	0.82	82.56
Nostoc sp.(trichomes)	0.05	0.27	0.57	0.45	0.81	83.38
Prorocentrum micans	0.24	0.13	0.56	0.54	0.79	84.16
Scenedesmus bijinga	0.00	0.28	0.45	0.43	0.64	84.81
Ceratium hircus	0.22	0.08	0.43	0.36	0.61	85.42
Scenedesmus acuminatus	0.07	0.19	0.42	0.41	0.60	86.01
Leptocylindricus danicus	0.18	0.09	0.40	0.38	0.56	86.57
Peridinium trochoideum	0.09	0.14	0.39	0.36	0.55	87.12
Bluegreen filamentous sp.	0.00	0.21	0.37	0.42	0.52	87.64
Amphora sp.	0.06	0.13	0.33	0.42	0.47	88.11
Gonyaulax digitalis	0.08	0.09	0.28	0.37	0.39	88.50
Nitzschia sigma	0.00	0.15	0.26	0.26	0.37	88.86
Nitzschia sp.	0.11	0.00	0.24	0.32	0.35	89.21
Dinophysis caudata	0.07	0.10	0.24	0.37	0.34	89.55
Thalassiosira aestivalis	0.00	0.18	0.23	0.20	0.32	89.87
Selenastrum gracile	0.00	0.11	0.23	0.28	0.32	90.19

Groups 75%Grp12 & 75%Grp13

Average dissimilarity = 70.23

Species	Group 75%Grp12 Av.Abund	Group 75%Grp13 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	4.06	5.90	5.95	1.19	8.47	8.47
Chaetoceros subtilis	2.80	0.83	4.53	1.27	6.44	14.92
Thalassiosira pseudonana	1.15	1.56	3.37	1.03	4.79	19.71
Prorocentrum minimum	0.29	1.59	2.75	1.02	3.91	23.62
Cyclotella sp. (small)	1.40	0.13	2.73	0.69	3.88	27.50
Thalassiosira sp.	0.31	1.38	2.63	0.73	3.74	31.24
Peridinium aciculiferum	1.07	0.84	2.47	0.92	3.52	34.76
Eutreptia sp.	0.42	1.43	2.46	1.04	3.50	38.26
Cyclotella sp.	0.79	0.83	2.30	0.73	3.27	41.53
Gymnodinium sp.	1.06	0.53	2.09	0.96	2.98	44.51
Unknown pennate diatom sp.	0.72	0.81	1.95	0.93	2.78	47.29
Schizothrix sp.	0.71	0.49	1.93	0.60	2.75	50.04
Schroederia setigera	1.25	0.82	1.93	1.20	2.74	52.78
Thalassiosira decipiens	0.59	0.84	1.76	0.99	2.50	55.29
Scenedesmus quadracauda	0.73	0.46	1.66	0.93	2.37	57.65
Euglena sp.	0.38	0.69	1.64	0.62	2.34	59.99
Nitzschia longissima	0.91	0.74	1.57	1.07	2.23	62.22
Leptocylindricus minimum	0.29	0.75	1.46	0.69	2.09	64.31
Nitzschia closterium	0.40	0.62	1.29	0.98	1.84	66.15
Scrippsiella sp.	0.18	0.59	1.28	0.71	1.82	67.97

Akistrodesmus falcatus	0.46	0.43	1.23	0.76	1.75	69.72
Merismopedia punctata	0.23	0.54	1.23	0.56	1.75	71.47
Ceratulina bergonii	0.14	0.53	1.23	0.50	1.75	73.22
Gonyaulax polygramma	0.53	0.15	1.13	0.71	1.60	74.82
Scenedesmus bijinga	0.43	0.28	1.06	0.63	1.51	76.34
Peridinium sp.	0.41	0.31	0.96	0.74	1.36	77.70
Nostoc sp.(trichomes)	0.21	0.27	0.81	0.58	1.15	78.85
Chaetoceros neogracile	0.17	0.31	0.81	0.61	1.15	80.00
Crucigenia sp.	0.10	0.38	0.76	0.53	1.08	81.07
Scenedesmus acuminatus	0.24	0.19	0.69	0.54	0.98	82.06
Pyramimonas sp.	0.06	0.33	0.65	0.41	0.93	82.98
Bluegreen filamentous sp.	0.15	0.21	0.57	0.52	0.81	83.80
Nitzschia pungens	0.21	0.12	0.57	0.50	0.81	84.61
Thalassionema nitzschoides	0.09	0.20	0.55	0.40	0.79	85.40
Chaetoceros socialis	0.00	0.28	0.45	0.36	0.64	86.04
Leptocylindricus danicus	0.20	0.09	0.44	0.38	0.63	86.67
Rhizosolenia setigera	0.06	0.16	0.35	0.34	0.51	87.17
Pleurosigma sp.	0.16	0.00	0.34	0.29	0.49	87.66
Selenastrum gracile	0.06	0.11	0.31	0.37	0.44	88.10
Scenedesmus acutus	0.16	0.00	0.28	0.23	0.41	88.50
Crucigenia quadratus	0.09	0.07	0.27	0.31	0.39	88.89
Peridinium concinum	0.12	0.05	0.27	0.39	0.39	89.28
Amphiprora sp.	0.12	0.04	0.27	0.39	0.38	89.66
Gonyaulax digitalis	0.06	0.09	0.26	0.37	0.37	90.03

Groups 75%Grp4 & 75%Grp9

Average dissimilarity = 94.13

Species	Group 75%Grp4 Av.Abund	Group 75%Grp9 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	7.69	1.37	8.17	8.17
Skeletonema costatum	0.16	5.07	6.45	1.53	6.85	15.02
Unknown diatom sp.	3.09	0.00	4.88	1.82	5.19	20.20
Unknown diatom sp. D	2.34	0.00	3.60	1.36	3.82	24.03
Prorocentrum micans	1.61	0.97	3.26	0.68	3.47	27.50
Schizothrix sp.	0.00	2.14	3.00	0.68	3.19	30.69
Unknown Dinoflagellate sp.	1.73	0.00	2.80	0.87	2.97	33.66
Thalassiosira sp.	2.01	0.93	2.76	1.29	2.93	36.59
Thalassionema nitzschoides	0.35	1.63	2.50	0.72	2.66	39.25
Scenedesmus sp.	1.47	0.00	2.17	1.04	2.31	41.55
Ceratulina bergonii	0.00	1.39	2.12	0.76	2.25	43.80
Leptocylindricus minimum	0.61	1.63	2.04	1.12	2.17	45.97

Navicula sp. small	1.23	0.00	1.97	0.78	2.09	48.06
Nitzschia pungens	0.80	1.11	1.88	0.97	2.00	50.06
Nitzschia closterium	0.20	1.37	1.76	0.85	1.87	51.93
Chaetoceros socialis	0.00	1.47	1.69	0.82	1.80	53.73
Chaetoceros neogracile	0.00	1.24	1.63	0.88	1.73	55.46
Unknown pennate diatom sp.	0.00	1.09	1.57	0.85	1.67	57.12
Coscinodiscus sp.	0.83	0.10	1.44	0.58	1.53	58.65
Unknown bluegreen sp.	0.83	0.00	1.31	0.82	1.39	60.04
Rhizosolenia setigera	0.00	0.93	1.30	0.79	1.39	61.43
Pyramimonas sp.	0.84	0.06	1.26	0.78	1.34	62.77
Tetraedron sp.	0.82	0.00	1.15	0.70	1.22	63.99
Navicula sp. large	0.66	0.00	1.13	0.60	1.20	65.19
Akistrodesmus sp.	0.76	0.00	1.07	0.54	1.14	66.32
Chaetoceros sp.	0.13	0.56	1.00	0.38	1.06	67.38
Ceratium hircus	0.00	0.73	0.99	0.84	1.05	68.43
Asterionella glacialis	0.00	0.87	0.98	0.67	1.04	69.47
Chaetoceros compressum	0.00	0.87	0.97	0.66	1.04	70.51
Prorocentrum minimum	0.16	0.72	0.96	0.93	1.02	71.52
Thalassiosira decipiens	0.00	0.64	0.93	0.61	0.99	72.51
Leptocylicus danicus	0.27	0.46	0.89	0.61	0.95	73.46
Melosira sp.	0.20	0.26	0.80	0.40	0.85	74.31
Eutreptia sp.	0.37	0.14	0.80	0.41	0.85	75.16
Nitzschia longissima	0.00	0.64	0.74	0.86	0.79	75.95
Nitzschia sp.	0.38	0.05	0.71	0.40	0.75	76.70
Prorocentrum sp.	0.45	0.00	0.70	0.37	0.74	77.44
Peridinium sp.	0.00	0.41	0.67	0.53	0.71	78.16
Schizothrix calcicola	0.48	0.00	0.62	0.56	0.66	78.82
Chaetoceros subtilis	0.00	0.59	0.60	0.54	0.64	79.46
Prorocentrum redfieldi	0.40	0.00	0.56	0.35	0.59	80.05
Amphora sp.	0.00	0.41	0.53	0.42	0.56	80.61
Trichodesmium sp.	0.38	0.00	0.51	0.36	0.54	81.16
Eutreptiella sp.	0.35	0.00	0.51	0.37	0.54	81.69
Aphanocapsa sp.	0.36	0.00	0.47	0.37	0.50	82.20
Pleurosigma sp.	0.09	0.27	0.47	0.53	0.50	82.70
Thalassiosira pseudonana	0.00	0.37	0.42	0.39	0.44	83.14
Chroococcus sp.	0.32	0.00	0.42	0.37	0.44	83.58
Oscillatoria sp.	0.32	0.00	0.41	0.38	0.44	84.02
Gymnodinium sp.	0.09	0.25	0.41	0.54	0.44	84.46
Chaetoceros curvisetus	0.00	0.43	0.40	0.33	0.42	84.88
Gonyaulax polygramma	0.00	0.22	0.38	0.35	0.41	85.29
Chaetoceros lorenzianum	0.00	0.32	0.37	0.43	0.40	85.69
Thalassiosira oestrupii	0.00	0.30	0.37	0.50	0.40	86.08
Peridinium tuba	0.00	0.27	0.34	0.48	0.36	86.44

Gonyaulax monilata	0.00	0.19	0.33	0.35	0.35	86.79
Unknown diatom sp. A	0.20	0.00	0.32	0.25	0.34	87.13
Rhizosolenia delicatula	0.00	0.26	0.32	0.42	0.34	87.47
Actinastrum sp.	0.18	0.00	0.31	0.34	0.33	87.80
Unknown diatom sp. 17	0.20	0.00	0.30	0.37	0.32	88.11
Scrippsiella sp.	0.00	0.24	0.30	0.43	0.31	88.43
Thalassiothrix frauenfeldianum	0.00	0.18	0.29	0.32	0.30	88.73
Crucigenia sp.	0.21	0.00	0.28	0.36	0.30	89.03
Bacteriastrum sp.	0.22	0.00	0.28	0.26	0.30	89.32
Gonyaulax digitalis	0.00	0.20	0.28	0.30	0.30	89.62
Rhizosolenia calcar-avis	0.00	0.22	0.28	0.41	0.29	89.91
Coscinosira polychorda	0.00	0.21	0.27	0.36	0.29	90.20

Groups 75%Grp7 & 75%Grp9

Average dissimilarity = 90.82

Species	Group 75%Grp7 Av.Abund	Group 75%Grp9 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	8.01	1.43	8.82	8.82
Unknown Cryptophyte sp.	6.29	0.00	7.81	1.91	8.60	17.43
Skeletonema costatum	3.34	5.07	5.22	1.26	5.74	23.17
Unknown diatom sp.	3.30	0.00	3.90	1.48	4.29	27.46
Thalassiosira sp.	3.51	0.93	3.79	0.95	4.17	31.63
Unknown Dinoflagellate sp.	3.01	0.00	3.77	1.16	4.16	35.79
Prorocentrum minimum	1.60	0.72	2.57	0.42	2.83	38.62
Schizothrix sp.	0.11	2.14	2.47	0.68	2.72	41.34
Peridinium sp.	1.80	0.41	2.14	0.86	2.36	43.70
Thalassionema nitzschoides	0.14	1.63	2.04	0.73	2.25	45.94
Pyramimonas sp.	1.63	0.06	1.82	0.89	2.01	47.95
Nitzschia closterium	0.92	1.37	1.81	0.98	1.99	49.94
Leptocylicus minimum	0.72	1.63	1.77	1.12	1.95	51.90
Chaetoceros sp.	1.28	0.56	1.75	0.67	1.92	53.82
Ceratulina bergonii	0.00	1.39	1.68	0.81	1.85	55.67
Eutreptia sp.	1.21	0.14	1.62	0.52	1.79	57.45
Nitzschia pungens	0.82	1.11	1.61	0.86	1.77	59.22
Skeletonema menezelli	1.46	0.00	1.47	0.33	1.62	60.85
Chaetoceros socialis	0.00	1.47	1.42	0.81	1.56	62.41
Prorocentrum micans	0.34	0.97	1.40	0.78	1.54	63.95
Chaetoceros neogracile	0.00	1.24	1.33	0.88	1.47	65.42
Unknown pennate diatom sp.	0.00	1.09	1.25	0.86	1.38	66.80
Rhizosolenia setigera	0.51	0.93	1.25	0.92	1.37	68.17
Ceratium hircus	0.36	0.73	1.05	0.82	1.16	69.33

Leptocylindricus danicus	0.65	0.46	1.00	0.55	1.10	70.43
Prorocentrum sp.	0.77	0.00	0.92	0.32	1.01	71.44
Eutreptiella sp.	0.69	0.00	0.88	0.33	0.97	72.41
Asterionella glacialis	0.00	0.87	0.82	0.66	0.91	73.31
Chaetoceros compressum	0.00	0.87	0.82	0.66	0.90	74.22
Unknown Katodinium sp.	0.54	0.00	0.76	0.27	0.83	75.05
Thalassiosira decipiens	0.00	0.64	0.74	0.63	0.81	75.86
Scenedesmus sp.	0.60	0.00	0.69	0.43	0.76	76.63
Amphora sp.	0.20	0.41	0.66	0.47	0.72	77.35
Chaetoceros subtilis	0.16	0.59	0.65	0.48	0.72	78.07
Nitzschia longissima	0.00	0.64	0.62	0.86	0.69	78.75
Apedinella radians	0.50	0.00	0.58	0.42	0.64	79.39
Chaetoceros gracile	0.51	0.05	0.58	0.30	0.63	80.03
Glenodinium sp.	0.50	0.00	0.57	0.29	0.63	80.65
Navicula sp. large	0.47	0.00	0.56	0.43	0.62	81.27
Unknown diatom sp. A	0.52	0.00	0.55	0.32	0.60	81.88
Minutocellus sp.	0.51	0.00	0.54	0.40	0.59	82.47
Coscinodiscus sp.	0.28	0.10	0.50	0.38	0.55	83.02
Unknown Vegetative cell sp.	0.31	0.00	0.47	0.26	0.51	83.53
Melosira sp.	0.00	0.26	0.44	0.32	0.49	84.02
Prorocentrum redfieldi	0.41	0.00	0.43	0.19	0.48	84.50
Unknown bluegreen sp.	0.33	0.00	0.41	0.30	0.45	84.95
Chaetoceros muelleri	0.35	0.00	0.40	0.32	0.44	85.39
Gymnodinium sp.	0.15	0.25	0.39	0.46	0.43	85.82
Pleurosigma sp.	0.08	0.27	0.38	0.47	0.42	86.24
Aphanocapsa sp.	0.36	0.00	0.36	0.33	0.40	86.64
Thalassiosira pseudonana	0.00	0.37	0.35	0.39	0.39	87.02
Akistrodesmus sp.	0.33	0.00	0.35	0.29	0.38	87.41
Chaetoceros curvisetus	0.00	0.43	0.35	0.33	0.38	87.79
Pyrophacus sp.	0.26	0.00	0.33	0.25	0.37	88.16
Chaetoceros lorenzianum	0.00	0.32	0.31	0.43	0.35	88.50
Thalassiosira oestrupii	0.00	0.30	0.31	0.49	0.34	88.84
Prorocentrum gracile	0.20	0.11	0.31	0.29	0.34	89.18
Tetraedron sp.	0.30	0.00	0.31	0.30	0.34	89.52
Gonyaulax polygramma	0.00	0.22	0.30	0.35	0.33	89.85
Navicula sp. small	0.21	0.00	0.30	0.28	0.33	90.18

Groups 75%Grp6 & 75%Grp9

Average dissimilarity = 83.97

Species	Group 75%Grp6 Av.Abund	Group 75%Grp9 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
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Unknown diatom sp. D	6.13	0.00	6.54	1.81	7.79	7.79
Unknown Cryptophyte sp.	5.10	0.00	6.02	1.93	7.17	14.96
Skeletonema costatum	7.46	5.07	5.95	1.18	7.09	22.05
Unknown diatom sp.	3.67	0.00	3.96	1.97	4.71	26.76
Thalassiosira sp.	4.15	0.93	3.68	1.63	4.38	31.14
Nitzschia closterium	3.83	1.37	3.37	1.50	4.01	35.15
Nitzschia pungens	2.56	1.11	2.65	1.16	3.15	38.30
Chaetoceros sp.	2.39	0.56	2.53	1.06	3.02	41.32
Unknown Dinoflagellate sp.	2.35	0.00	2.48	1.22	2.95	44.27
Schizothrix sp.	0.00	2.14	2.24	0.66	2.67	46.95
Thalassionema nitzschoides	0.96	1.63	2.06	0.83	2.45	49.39
Leptocylicus minimum	1.46	1.63	1.97	1.14	2.35	51.74
Skeletonema menezelli	2.03	0.00	1.82	0.40	2.16	53.90
Pyramimonas sp.	1.39	0.06	1.61	0.76	1.91	55.82
Ceratulina bergonii	0.00	1.39	1.54	0.81	1.83	57.65
Ceratium hircus	0.95	0.73	1.37	0.85	1.63	59.28
Chaetoceros socialis	0.00	1.47	1.32	0.80	1.58	60.86
Rhizosolenia setigera	0.77	0.93	1.28	0.95	1.53	62.39
Peridinium sp.	1.06	0.41	1.28	0.75	1.52	63.91
Chaetoceros neogracile	0.00	1.24	1.24	0.87	1.47	65.38
Unknown pennate diatom sp.	0.00	1.09	1.15	0.85	1.37	66.76
Prorocentrum micans	0.32	0.97	1.11	1.03	1.33	68.08
Chaetoceros muelleri	1.09	0.00	1.10	0.58	1.31	69.39
Leptocylicus danicus	0.69	0.46	1.02	0.67	1.22	70.60
Asterionella japonica	0.98	0.00	0.95	0.56	1.14	71.74
Prorocentrum minimum	0.16	0.72	0.82	0.71	0.98	72.72
Minutocellus sp.	0.83	0.00	0.80	0.53	0.95	73.67
Navicula sp. large	0.73	0.00	0.78	0.58	0.93	74.60
Asterionella glacialis	0.00	0.87	0.77	0.66	0.92	75.51
Chaetoceros compressum	0.00	0.87	0.77	0.66	0.91	76.42
Chaetoceros subtilis	0.27	0.59	0.72	0.48	0.85	77.28
Thalassiosira decipiens	0.00	0.64	0.68	0.63	0.81	78.09
Prorocentrum sp.	0.58	0.00	0.61	0.40	0.73	78.81
Unknown diatom sp. A	0.58	0.00	0.61	0.41	0.72	79.53
Nitzschia longissima	0.00	0.64	0.58	0.85	0.69	80.23
Amphora sp.	0.08	0.41	0.48	0.48	0.57	80.80
Navicula sp. small	0.46	0.00	0.44	0.35	0.53	81.33
Chaetoceros gracile	0.36	0.05	0.43	0.21	0.51	81.84
Gymnodinium sp.	0.22	0.25	0.41	0.53	0.49	82.32
Melosira sp.	0.00	0.26	0.40	0.32	0.47	82.79
Pyrophacus sp.	0.39	0.00	0.38	0.29	0.45	83.25
Guinardia flaccida	0.22	0.15	0.37	0.38	0.45	83.69
Aphanocapsa sp.	0.40	0.00	0.34	0.36	0.40	84.10

Apedinella radians	0.30	0.00	0.33	0.36	0.40	84.49
Unknown bluegreen sp.	0.36	0.00	0.33	0.42	0.39	84.89
Thalassiosira pseudonana	0.00	0.37	0.33	0.39	0.39	85.28
Chaetoceros curvisetus	0.00	0.43	0.33	0.33	0.39	85.67
Scenedesmus sp.	0.27	0.00	0.31	0.28	0.36	86.03
Akistrodesmus sp.	0.28	0.00	0.31	0.27	0.36	86.39
Nitzschia delicatissima	0.31	0.00	0.29	0.20	0.35	86.75
Chaetoceros lorenzianum	0.00	0.32	0.29	0.43	0.35	87.09
Pleurosigma sp.	0.00	0.27	0.29	0.46	0.35	87.44
Thalassiosira oestrupii	0.00	0.30	0.29	0.49	0.34	87.79
Eutreptia sp.	0.08	0.14	0.28	0.32	0.34	88.12
Unknown diatom sp. 17	0.22	0.00	0.28	0.28	0.33	88.45
Gonyaulax polygramma	0.00	0.22	0.27	0.35	0.33	88.78
Peridinium tuba	0.00	0.27	0.26	0.48	0.31	89.09
Hemiaulis hauckii	0.10	0.20	0.26	0.41	0.30	89.39
Polykrikos sp.	0.26	0.00	0.25	0.20	0.30	89.69
Prorocentrum gracile	0.13	0.11	0.24	0.30	0.29	89.98
Rhizosolenia delicatula	0.00	0.26	0.24	0.42	0.29	90.27

Groups 75%Grp5 & 75%Grp9

Average dissimilarity = 85.40

Species	Group 75%Grp5 Av.Abund	Group 75%Grp9 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	9.56	1.81	11.19	11.19
Unknown diatom sp. D	8.36	0.00	7.67	2.49	8.98	20.17
Unknown Cryptophyte sp.	7.43	0.00	7.16	4.68	8.39	28.56
Unknown diatom sp.	4.70	0.00	4.46	4.32	5.22	33.78
Thalassiosira sp.	4.72	0.93	3.78	2.13	4.43	38.21
Pyramimonas sp.	3.83	0.06	3.68	3.95	4.31	42.52
Skeletonema costatum	5.96	5.07	3.34	1.38	3.91	46.43
Nitzschia closterium	4.12	1.37	3.16	1.61	3.70	50.12
Chaetoceros sp.	3.08	0.56	2.67	1.01	3.13	53.25
Rhizosolenia fragilissima	2.34	0.11	2.63	0.95	3.08	56.33
Gymnodinium sp.	2.63	0.25	2.23	1.03	2.62	58.94
Nitzschia pungens	2.29	1.11	2.06	1.14	2.41	61.35
Apedinella radians	1.78	0.00	2.01	0.94	2.35	63.70
Schizothrix sp.	0.00	2.14	1.95	0.67	2.28	65.98
Leptocylindricus minimum	1.88	1.63	1.82	1.31	2.13	68.12
Cerataulina bergonii large	1.50	0.00	1.69	0.94	1.98	70.09
Thalassionema nitzschoides	0.00	1.63	1.57	0.75	1.84	71.93
Peridinium sp.	1.50	0.41	1.32	1.15	1.54	73.47

Ceratulina bergonii	0.00	1.39	1.31	0.89	1.54	75.01
Prorocentrum sp.	1.50	0.00	1.26	0.96	1.47	76.49
Rhizosolenia setigera	1.26	0.93	1.19	1.13	1.39	77.88
Chaetoceros socialis	0.00	1.47	1.18	0.81	1.38	79.26
Leptocylicus danicus	1.26	0.46	1.10	1.08	1.29	80.55
Chaetoceros neogracile	0.00	1.24	1.08	0.90	1.26	81.81
Navicula sp. large	1.26	0.00	1.06	0.96	1.24	83.05
Unknown pennate diatom sp.	0.00	1.09	0.99	0.89	1.16	84.21
Prorocentrum micans	0.00	0.97	0.88	0.99	1.04	85.25
Asterionella glacialis	0.00	0.87	0.68	0.66	0.80	86.05
Chaetoceros compressum	0.00	0.87	0.68	0.66	0.80	86.85
Ceratium hircus	0.00	0.73	0.65	0.85	0.76	87.60
Prorocentrum minimum	0.00	0.72	0.59	0.94	0.69	88.29
Thalassiosira decipiens	0.00	0.64	0.58	0.67	0.68	88.97
Nitzschia longissima	0.00	0.64	0.51	0.87	0.60	89.57
Chaetoceros subtilis	0.00	0.59	0.44	0.54	0.51	90.08

Groups 75%Grp8 & 75%Grp9

Average dissimilarity = 88.63

Species	Group 75%Grp8 Av.Abund	Group 75%Grp9 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	5.07	6.84	1.37	7.72	7.72
Schizothrix sp.	0.00	2.14	3.32	0.66	3.75	11.47
Cyclotella sp. (small)	1.79	0.00	3.03	0.66	3.42	14.90
Cyclotella sp.	1.76	0.00	2.95	0.69	3.33	18.22
Thalassionema nitzschoides	0.00	1.63	2.92	0.67	3.30	21.52
Unknown pennate diatom sp.	2.07	1.09	2.88	1.05	3.25	24.78
Ceratulina bergonii	0.00	1.39	2.40	0.68	2.71	27.48
Cyclotella sp. (large)	1.45	0.00	2.34	0.56	2.64	30.12
Leptocylicus minimum	0.00	1.63	2.12	1.09	2.39	32.51
Thalassiosira decipiens	0.91	0.64	1.97	0.71	2.23	34.74
Scenedesmus quadricauda	1.15	0.06	1.87	0.97	2.11	36.85
Thalassiosira pseudonana	1.05	0.37	1.86	0.62	2.10	38.95
Nitzschia closterium	0.08	1.37	1.85	0.84	2.09	41.05
Chaetoceros socialis	0.00	1.47	1.82	0.81	2.05	43.10
Gymnodinium sp.	1.01	0.25	1.79	0.88	2.02	45.11
Chaetoceros neogracile	0.00	1.24	1.79	0.86	2.02	47.13
Schroederia setigera	1.04	0.09	1.66	0.94	1.87	49.00
Eutreptia sp.	0.88	0.14	1.65	0.86	1.87	50.87
Prorocentrum micans	0.00	0.97	1.52	0.94	1.71	52.58
Scenedesmus bijinga	0.90	0.06	1.48	0.77	1.67	54.25

Nitzschia pungens	0.00	1.11	1.48	0.69	1.67	55.92
Rhizosolenia setigera	0.00	0.93	1.47	0.73	1.65	57.57
Thalassiosira sp.	0.10	0.93	1.44	0.65	1.62	59.19
Nitzschia longissima	0.78	0.64	1.38	0.94	1.55	60.74
Melosira sp.	0.36	0.26	1.16	0.48	1.31	62.06
Chaetoceros subtilis	0.44	0.59	1.15	0.68	1.30	63.36
Ceratium hircus	0.00	0.73	1.08	0.82	1.22	64.58
Akistrodesmus falcatus	0.64	0.05	1.06	0.64	1.19	65.77
Asterionella glacialis	0.00	0.87	1.05	0.66	1.18	66.96
Chaetoceros compressum	0.00	0.87	1.05	0.65	1.18	68.14
Prorocentrum minimum	0.16	0.72	1.02	0.91	1.15	69.29
Chaetoceros sp.	0.00	0.56	1.01	0.32	1.14	70.43
Amphiprora sp.	0.49	0.21	0.93	0.67	1.05	71.49
Bluegreen filamentous sp.	0.41	0.06	0.82	0.56	0.93	72.41
Actinastrum hantzschii	0.49	0.00	0.79	0.46	0.89	73.30
Peridinium sp.	0.00	0.41	0.77	0.50	0.87	74.17
Pleurosigma sp.	0.24	0.27	0.77	0.60	0.86	75.03
Merismopedia punctata	0.29	0.09	0.65	0.39	0.73	75.77
Melosira nummuloidea	0.25	0.13	0.59	0.45	0.67	76.43
Leptocylindricus danicus	0.00	0.46	0.58	0.57	0.66	77.09
Amphora sp.	0.00	0.41	0.58	0.40	0.66	77.75
Cyclotella meneghiniana	0.40	0.00	0.58	0.26	0.66	78.41
Crucigenia sp.	0.22	0.00	0.56	0.44	0.63	79.04
Scenedesmus acutus	0.34	0.00	0.56	0.38	0.63	79.67
Dictyosphaerium sp.	0.46	0.00	0.55	0.38	0.62	80.29
Scrippsiella sp.	0.08	0.24	0.44	0.49	0.50	80.79
Gonyaulax polygramma	0.00	0.22	0.44	0.34	0.49	81.28
Nostoc sp.(trichomes)	0.09	0.17	0.43	0.41	0.48	81.77
Chaetoceros curvisetus	0.00	0.43	0.42	0.33	0.48	82.24
Thalassiosira oestrupii	0.00	0.30	0.40	0.49	0.46	82.70
Chaetoceros lorenzianum	0.00	0.32	0.40	0.43	0.45	83.15
Scenedesmus abundans	0.29	0.00	0.39	0.37	0.44	83.59
Gonyaulax monilata	0.00	0.19	0.38	0.33	0.43	84.02
Scenedesmus sp.	0.26	0.00	0.38	0.39	0.42	84.45
Peridinium tuba	0.00	0.27	0.37	0.47	0.41	84.86
Micractinium pusillum	0.30	0.00	0.36	0.36	0.41	85.27
Tropodineis lepidoptera	0.19	0.08	0.36	0.32	0.40	85.67
Scenedesmus acuminatus	0.26	0.00	0.35	0.39	0.40	86.07
Rhizosolenia delicatula	0.00	0.26	0.35	0.41	0.39	86.46
Nitzschia sp.	0.09	0.05	0.35	0.28	0.39	86.85
Thalassiothrix frauenfeldianum	0.00	0.18	0.32	0.31	0.37	87.21
Tetrastrum sp.	0.24	0.00	0.32	0.39	0.36	87.58
Peridinium aciculiferum	0.11	0.06	0.32	0.32	0.36	87.94

Gonyaulax digitalis	0.00	0.20	0.31	0.29	0.35	88.29
Rhizosolenia calcar-avis	0.00	0.22	0.30	0.40	0.34	88.62
Coscinosira polychorda	0.00	0.21	0.30	0.35	0.33	88.96
Coscinodiscus sp.	0.00	0.10	0.27	0.24	0.31	89.26
Hemiaulis hauckii	0.00	0.20	0.26	0.36	0.29	89.56
Unknown chlorophyte sp.	0.18	0.00	0.26	0.26	0.29	89.85
Unkown C sp.	0.22	0.00	0.25	0.27	0.29	90.13

Groups 75%Grp10 & 75%Grp9

Average dissimilarity = 77.93

Species	Group 75%Grp10 Av.Abund	Group 75%Grp9 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.94	5.07	5.98	1.18	7.68	7.68
Chaetoceros subtilis	2.19	0.59	4.50	0.90	5.77	13.45
Schizothrix sp.	1.06	2.14	4.23	0.84	5.43	18.88
Thalassionema nitzschoides	0.32	1.63	3.10	0.68	3.98	22.86
Ceratulina bergonii	0.40	1.39	2.61	0.70	3.35	26.21
Leptocylindricus minimum	0.80	1.63	2.42	1.12	3.11	29.32
Peridinium aciculiferum	1.12	0.06	2.37	0.74	3.04	32.36
Chaetoceros socialis	0.70	1.47	2.36	1.03	3.03	35.39
Nitzschia closterium	0.79	1.37	2.32	1.06	2.98	38.36
Thalassiosira sp.	0.84	0.93	2.25	0.82	2.89	41.25
Unknown pennate diatom sp.	0.75	1.09	2.08	0.89	2.67	43.92
Chaetoceros neogracile	0.39	1.24	1.96	0.92	2.52	46.43
Nitzschia pungens	0.45	1.11	1.88	0.84	2.42	48.85
Thalassiosira pseudonana	0.90	0.37	1.79	0.82	2.30	51.15
Rhizosolenia setigera	0.28	0.93	1.66	0.80	2.13	53.28
Prorocentrum micans	0.24	0.97	1.65	0.97	2.12	55.40
Nitzschia longissima	0.75	0.64	1.45	0.93	1.87	57.27
Ceratium hircus	0.22	0.73	1.32	0.85	1.69	58.96
Chaetoceros sp.	0.12	0.56	1.21	0.36	1.56	60.52
Prorocentrum minimum	0.38	0.72	1.21	0.95	1.55	62.07
Thalassiosira decipiens	0.06	0.64	1.19	0.57	1.52	63.59
Eutreptia sp.	0.58	0.14	1.14	0.71	1.47	65.06
Schroederia setigera	0.53	0.09	1.12	0.60	1.44	66.50
Asterionella glacialis	0.00	0.87	1.11	0.67	1.42	67.92
Chaetoceros compressum	0.00	0.87	1.11	0.66	1.42	69.34
Peridinium sp.	0.20	0.41	1.00	0.59	1.29	70.62
Gymnodinium sp.	0.37	0.25	0.88	0.57	1.13	71.75
Gonyaulax monilata	0.33	0.19	0.86	0.54	1.10	72.85
Melosira sp.	0.00	0.26	0.82	0.30	1.05	73.91

Gonyaulax polygramma	0.21	0.22	0.81	0.49	1.04	74.94
Leptocylicus danicus	0.18	0.46	0.80	0.64	1.03	75.97
Cyclotella sp. (small)	0.35	0.00	0.75	0.30	0.97	76.94
Cyclotella sp.	0.45	0.00	0.74	0.46	0.95	77.89
Scrippsiella sp.	0.29	0.24	0.71	0.60	0.91	78.80
Amphora sp.	0.06	0.41	0.70	0.45	0.90	79.70
Thalassiosira oestrupii	0.07	0.30	0.51	0.53	0.65	80.35
Gonyaulax spinifera	0.27	0.00	0.48	0.45	0.62	80.97
Pleurosigma sp.	0.00	0.27	0.46	0.45	0.59	81.56
Peridinium tuba	0.05	0.27	0.45	0.52	0.58	82.14
Chaetoceros curvisetus	0.00	0.43	0.44	0.33	0.56	82.71
Chaetoceros lorenzianum	0.00	0.32	0.42	0.43	0.54	83.25
Gonyaulax digitalis	0.08	0.20	0.42	0.36	0.54	83.79
Scenedesmus quadricauda	0.16	0.06	0.41	0.37	0.52	84.31
Navicula sp.	0.11	0.15	0.40	0.45	0.52	84.83
Rhizosolenia delicatula	0.00	0.26	0.37	0.41	0.47	85.30
Thalassiothrix frauenfeldianum	0.00	0.18	0.35	0.31	0.45	85.75
Amphiprora sp.	0.05	0.21	0.34	0.47	0.44	86.19
Peridinium concinnum	0.09	0.19	0.34	0.42	0.43	86.62
Nostoc sp.(trichomes)	0.05	0.17	0.33	0.39	0.43	87.05
Rhizosolenia calcar-avis	0.00	0.22	0.32	0.40	0.41	87.46
Nitzschia sp.	0.11	0.05	0.31	0.36	0.40	87.86
Coscinosira polychorda	0.00	0.21	0.31	0.36	0.40	88.26
Ebria tripartita	0.06	0.16	0.30	0.42	0.39	88.65
Coscinodiscus sp.	0.00	0.10	0.30	0.24	0.38	89.04
Dictyocha fibula	0.05	0.11	0.28	0.34	0.36	89.39
Hemiaulis hauckii	0.00	0.20	0.27	0.36	0.35	89.74
Guinardia flaccida	0.05	0.15	0.25	0.35	0.33	90.07

Groups 75%Grp12 & 75%Grp9

Average dissimilarity = 81.67

Species	Group 75%Grp12 Av.Abund	Group 75%Grp9 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	4.06	5.07	5.67	1.34	6.94	6.94
Chaetoceros subtilis	2.80	0.59	4.77	1.18	5.84	12.78
Schizothrix sp.	0.71	2.14	3.90	0.81	4.78	17.55
Thalassionema nitzschoides	0.09	1.63	2.89	0.71	3.54	21.09
Cyclotella sp. (small)	1.40	0.00	2.52	0.63	3.08	24.18
Ceratulina bergonii	0.14	1.39	2.36	0.75	2.88	27.06
Thalassiosira pseudonana	1.15	0.37	2.22	0.71	2.72	29.78
Leptocylicus minimum	0.29	1.63	2.18	1.13	2.67	32.45

Schroederia setigera	1.25	0.09	2.16	1.20	2.65	35.10
Peridinium aciculiferum	1.07	0.06	2.06	0.66	2.53	37.63
Unknown pennate diatom sp.	0.72	1.09	2.03	0.98	2.48	40.11
Nitzschia closterium	0.40	1.37	2.01	0.95	2.46	42.57
Gymnodinium sp.	1.06	0.25	1.89	0.80	2.31	44.88
Chaetoceros socialis	0.00	1.47	1.84	0.82	2.26	47.14
Chaetoceros neogracile	0.17	1.24	1.84	0.91	2.26	49.40
Nitzschia pungens	0.21	1.11	1.65	0.80	2.03	51.42
Thalassiosira sp.	0.31	0.93	1.60	0.75	1.96	53.38
Nitzschia longissima	0.91	0.64	1.57	0.97	1.92	55.30
Prorocentrum micans	0.00	0.97	1.53	0.98	1.87	57.18
Rhizosolenia setigera	0.06	0.93	1.48	0.80	1.82	58.99
Thalassiosira decipiens	0.59	0.64	1.48	0.82	1.81	60.81
Cyclotella sp.	0.79	0.00	1.36	0.50	1.67	62.48
Scenedesmus quadracauda	0.73	0.06	1.32	0.76	1.61	64.09
Gonyaulax polygramma	0.53	0.22	1.19	0.68	1.46	65.54
Peridinium sp.	0.41	0.41	1.12	0.71	1.37	66.92
Prorocentrum minimum	0.29	0.72	1.10	0.97	1.34	68.26
Ceratium hircus	0.00	0.73	1.09	0.85	1.34	69.60
Asterionella glacialis	0.00	0.87	1.07	0.67	1.30	70.90
Chaetoceros compressum	0.00	0.87	1.06	0.67	1.30	72.20
Chaetoceros sp.	0.00	0.56	1.01	0.34	1.24	73.44
Eutreptia sp.	0.42	0.14	0.90	0.59	1.10	74.55
Melosira sp.	0.15	0.26	0.88	0.40	1.07	75.62
Scenedesmus bijinga	0.43	0.06	0.84	0.51	1.03	76.65
Leptocylindricus danicus	0.20	0.46	0.82	0.63	1.00	77.65
Akistrodesmus falcatus	0.46	0.05	0.82	0.56	1.00	78.65
Euglena sp.	0.38	0.00	0.70	0.46	0.85	79.50
Pleurosigma sp.	0.16	0.27	0.68	0.50	0.83	80.33
Nostoc sp.(trichomes)	0.21	0.17	0.61	0.50	0.75	81.08
Merismopedia punctata	0.23	0.09	0.61	0.37	0.74	81.83
Scrippsiella sp.	0.18	0.24	0.60	0.49	0.74	82.57
Amphora sp.	0.00	0.41	0.59	0.42	0.72	83.29
Scenedesmus acuminatus	0.24	0.00	0.44	0.39	0.54	83.82
Chaetoceros curvisetus	0.00	0.43	0.43	0.33	0.52	84.35
Thalassiosira oestrupii	0.00	0.30	0.41	0.50	0.50	84.85
Chaetoceros lorenzianum	0.00	0.32	0.41	0.43	0.50	85.35
Amphiprora sp.	0.12	0.21	0.40	0.53	0.49	85.84
Gonyaulax digitalis	0.06	0.20	0.40	0.37	0.49	86.34
Gonyaulax monilata	0.00	0.19	0.38	0.35	0.47	86.80
Peridinium concinnum	0.12	0.19	0.38	0.49	0.46	87.27
Peridinium tuba	0.00	0.27	0.37	0.48	0.45	87.72
Bluegreen filamentous sp.	0.15	0.06	0.36	0.37	0.44	88.16

Rhizosolenia delicatula	0.00	0.26	0.35	0.42	0.43	88.58
Tropodineis lepidoptera	0.14	0.08	0.33	0.28	0.40	88.98
Thalassiothrix frauenfeldianum	0.00	0.18	0.32	0.32	0.40	89.38
Rhizosolenia calcar-avis	0.00	0.22	0.30	0.41	0.37	89.75
Coscinosira polychorda	0.00	0.21	0.30	0.36	0.37	90.12

Groups 75%Grp13 & 75%Grp9

Average dissimilarity = 79.16

Species	Group 75%Grp13 Av.Abund	Group 75%Grp9 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.90	5.07	7.26	1.02	9.17	9.17
Schizothrix sp.	0.49	2.14	3.46	0.75	4.37	13.54
Thalassiosira sp.	1.38	0.93	2.75	0.79	3.47	17.00
Thalassionema nitzschoides	0.20	1.63	2.74	0.69	3.46	20.47
Thalassiosira pseudonana	1.56	0.37	2.51	0.81	3.17	23.64
Ceratulina bergonii	0.53	1.39	2.50	0.74	3.16	26.79
Prorocentrum minimum	1.59	0.72	2.42	0.92	3.06	29.85
Leptocylicus minimum	0.75	1.63	2.31	1.11	2.92	32.77
Eutreptia sp.	1.43	0.14	2.26	0.90	2.85	35.62
Unknown pennate diatom sp.	0.81	1.09	2.02	0.92	2.55	38.17
Nitzschia closterium	0.62	1.37	1.95	1.02	2.47	40.64
Chaetoceros socialis	0.28	1.47	1.91	0.87	2.41	43.05
Chaetoceros neogracile	0.31	1.24	1.77	0.91	2.24	45.29
Thalassiosira decipiens	0.84	0.64	1.62	0.81	2.05	47.34
Chaetoceros subtilis	0.83	0.59	1.60	0.77	2.03	49.36
Nitzschia pungens	0.12	1.11	1.50	0.74	1.89	51.26
Rhizosolenia setigera	0.16	0.93	1.47	0.78	1.86	53.12
Prorocentrum micans	0.13	0.97	1.45	0.96	1.83	54.95
Schroederia setigera	0.82	0.09	1.41	0.80	1.78	56.73
Peridinium aciculiferum	0.84	0.06	1.39	0.76	1.76	58.48
Nitzschia longissima	0.74	0.64	1.27	0.94	1.60	60.09
Cyclotella sp.	0.83	0.00	1.20	0.48	1.51	61.60
Scrippsiella sp.	0.59	0.24	1.13	0.64	1.43	63.03
Ceratium hircus	0.08	0.73	1.07	0.84	1.35	64.38
Euglena sp.	0.69	0.00	1.06	0.42	1.34	65.72
Asterionella glacialis	0.00	0.87	1.02	0.67	1.29	67.01
Chaetoceros compressum	0.00	0.87	1.02	0.66	1.28	68.29
Chaetoceros sp.	0.00	0.56	0.96	0.33	1.21	69.50
Merismopedia punctata	0.54	0.09	0.94	0.47	1.19	70.69
Gymnodinium sp.	0.53	0.25	0.93	0.76	1.17	71.86
Peridinium sp.	0.31	0.41	0.92	0.64	1.16	73.02

Scenedesmus quadracauda	0.46	0.06	0.74	0.51	0.93	73.96
Akistrodesmus falcatus	0.43	0.05	0.70	0.55	0.89	74.84
Melosira sp.	0.00	0.26	0.69	0.30	0.87	75.71
Amphora sp.	0.13	0.41	0.68	0.50	0.86	76.57
Leptocylindricus danicus	0.09	0.46	0.63	0.61	0.80	77.37
Nostoc sp.(trichomes)	0.27	0.17	0.61	0.51	0.77	78.14
Gonyaulax polygramma	0.15	0.22	0.59	0.46	0.75	78.89
Crucigenia sp.	0.38	0.00	0.58	0.45	0.74	79.63
Pyramimonas sp.	0.33	0.06	0.55	0.37	0.69	80.32
Chaetoceros curvisetus	0.07	0.43	0.49	0.38	0.63	80.95
Gonyaulax monilata	0.07	0.19	0.48	0.37	0.61	81.56
Scenedesmus bijinga	0.28	0.06	0.48	0.46	0.61	82.17
Thalassiosira oestrupii	0.04	0.30	0.44	0.53	0.56	82.73
Gonyaulax digitalis	0.09	0.20	0.42	0.39	0.53	83.26
Pleurosigma sp.	0.00	0.27	0.41	0.45	0.52	83.78
Nitzschia sigma	0.15	0.19	0.41	0.41	0.52	84.30
Chaetoceros lorenzianum	0.00	0.32	0.39	0.43	0.49	84.79
Bluegreen filamentous sp.	0.21	0.06	0.38	0.45	0.48	85.27
Rhizosolenia delicatula	0.04	0.26	0.37	0.45	0.47	85.74
Coscinodiscus sp.	0.05	0.10	0.37	0.30	0.46	86.20
Peridinium tuba	0.00	0.27	0.35	0.47	0.45	86.65
Thalassiothrix frauenfeldianum	0.00	0.18	0.31	0.32	0.39	87.04
Amphiprora sp.	0.04	0.21	0.29	0.47	0.37	87.40
Rhizosolenia calcar-avis	0.00	0.22	0.29	0.40	0.36	87.77
Coscinosira polychorda	0.00	0.21	0.29	0.36	0.36	88.13
Scenedesmus acuminatus	0.19	0.00	0.28	0.33	0.36	88.49
Melosira nummuloidea	0.09	0.13	0.28	0.35	0.35	88.84
Peridinium concinnum	0.05	0.19	0.28	0.41	0.35	89.19
Hemiaulis hauckii	0.00	0.20	0.25	0.36	0.32	89.50
Dinophysis caudata	0.10	0.11	0.24	0.41	0.31	89.81
Navicula sp.	0.00	0.15	0.24	0.35	0.30	90.11

Groups 75%Grp4 & 75%Grp11

Average dissimilarity = 95.83

Species	Group 75%Grp4 Av.Abund	Group 75%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	9.32	1.54	9.73	9.73
Skeletonema costatum	0.16	4.09	7.46	2.25	7.78	17.51
Unknown diatom sp.	3.09	0.00	5.91	2.19	6.17	23.68
Unknown diatom sp. D	2.34	0.00	4.34	1.51	4.53	28.21
Prorocentrum micans	1.61	0.25	3.55	0.57	3.70	31.91

Thalassiosira sp.	2.01	0.36	3.52	1.61	3.67	35.59
Unknown Dinoflagellate sp.	1.73	0.00	3.40	0.93	3.55	39.14
Nitzschia closterium	0.20	1.55	2.79	1.56	2.91	42.04
Scenedesmus sp.	1.47	0.07	2.59	1.13	2.70	44.75
Navicula sp. small	1.23	0.00	2.39	0.83	2.49	47.24
Leptocylicus minimum	0.61	0.93	1.92	1.01	2.01	49.25
Chaetoceros subtilis	0.00	0.83	1.77	0.63	1.85	51.09
Chaetoceros socialis	0.00	0.99	1.67	0.88	1.74	52.83
Coscinodiscus sp.	0.83	0.00	1.65	0.56	1.72	54.55
Peridinium aciculiferum	0.00	0.79	1.65	0.79	1.72	56.27
Nitzschia pungens	0.80	0.30	1.63	0.86	1.71	57.98
Pyramimonas sp.	0.84	0.15	1.59	0.85	1.66	59.64
Unknown bluegreen sp.	0.83	0.00	1.59	0.88	1.66	61.29
Unknown pennate diatom sp.	0.00	0.84	1.41	0.80	1.47	62.77
Navicula sp. large	0.66	0.00	1.38	0.63	1.44	64.21
Tetraedron sp.	0.82	0.00	1.37	0.74	1.43	65.64
Akistrodesmus sp.	0.76	0.05	1.32	0.59	1.38	67.01
Schizothrix sp.	0.00	0.67	1.24	0.43	1.29	68.31
Ceratulina bergonii	0.00	0.59	1.21	0.42	1.27	69.57
Thalassionema nitzschoides	0.35	0.48	1.21	0.73	1.26	70.84
Eutreptia sp.	0.37	0.31	1.13	0.52	1.18	72.01
Chaetoceros neogracile	0.00	0.63	1.09	0.64	1.14	73.15
Rhizosolenia setigera	0.00	0.54	1.03	0.66	1.08	74.22
Nitzschia longissima	0.00	0.53	0.96	0.80	1.01	75.23
Prorocentrum sp.	0.45	0.00	0.84	0.38	0.88	76.11
Thalassiosira pseudonana	0.00	0.51	0.81	0.64	0.85	76.96
Leptocylicus danicus	0.27	0.15	0.80	0.48	0.83	77.79
Nitzschia sp.	0.38	0.00	0.79	0.38	0.83	78.62
Prorocentrum minimum	0.16	0.35	0.75	0.60	0.78	79.40
Schizothrix calcicola	0.48	0.00	0.73	0.57	0.77	80.17
Prorocentrum redfieldi	0.40	0.00	0.66	0.36	0.69	80.86
Gymnodinium sp.	0.09	0.30	0.64	0.54	0.67	81.53
Eutreptiella sp.	0.35	0.00	0.61	0.39	0.63	82.16
Trichodesmium sp.	0.38	0.00	0.61	0.38	0.63	82.79
Peridinium sp.	0.00	0.32	0.60	0.42	0.63	83.42
Chaetoceros compressum	0.00	0.31	0.58	0.40	0.61	84.03
Aphanocapsa sp.	0.36	0.00	0.56	0.39	0.59	84.61
Asterionella glacialis	0.00	0.35	0.56	0.42	0.59	85.20
Gonyaulax polygramma	0.00	0.27	0.55	0.41	0.58	85.78
Chroococcus sp.	0.32	0.00	0.49	0.38	0.51	86.29
Oscillatoria sp.	0.32	0.00	0.49	0.39	0.51	86.80
Euglena sp.	0.00	0.26	0.41	0.34	0.42	87.22
Chaetoceros sp.	0.13	0.11	0.40	0.34	0.42	87.64

Unknown diatom sp. A	0.20	0.00	0.38	0.26	0.40	88.04
Actinastrum sp.	0.18	0.00	0.38	0.35	0.40	88.44
Thalassiosira oestrupii	0.00	0.23	0.37	0.42	0.39	88.83
Unknown diatom sp. 17	0.20	0.00	0.36	0.38	0.37	89.20
Cyclotella sp.	0.00	0.17	0.34	0.33	0.36	89.56
Crucigenia sp.	0.21	0.00	0.33	0.37	0.35	89.91
Bacteriastrum sp.	0.22	0.00	0.33	0.26	0.34	90.25

Groups 75%Grp7 & 75%Grp11

Average dissimilarity = 90.59

Species	Group 75%Grp7 Av.Abund	Group 75%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	9.39	1.55	10.36	10.36
Unknown Cryptophyte sp.	6.29	0.00	9.20	2.15	10.16	20.52
Skeletonema costatum	3.34	4.09	5.13	1.37	5.66	26.18
Thalassiosira sp.	3.51	0.36	4.65	1.03	5.13	31.31
Unknown diatom sp.	3.30	0.00	4.56	1.60	5.03	36.34
Unknown Dinoflagellate sp.	3.01	0.00	4.45	1.23	4.91	41.26
Prorocentrum minimum	1.60	0.35	2.81	0.39	3.10	44.36
Peridinium sp.	1.80	0.32	2.44	0.83	2.70	47.05
Nitzschia closterium	0.92	1.55	2.24	1.52	2.47	49.53
Pyramimonas sp.	1.63	0.15	2.14	0.93	2.36	51.89
Eutreptia sp.	1.21	0.31	2.01	0.57	2.22	54.10
Skeletonema menezelli	1.46	0.00	1.69	0.34	1.86	55.97
Leptocylicus minimum	0.72	0.93	1.64	1.00	1.81	57.77
Chaetoceros sp.	1.28	0.11	1.63	0.64	1.80	59.57
Chaetoceros subtilis	0.16	0.83	1.46	0.64	1.61	61.18
Chaetoceros socialis	0.00	0.99	1.31	0.86	1.45	62.63
Nitzschia pungens	0.82	0.30	1.31	0.67	1.45	64.08
Peridinium aciculiferum	0.00	0.79	1.24	0.77	1.36	65.44
Rhizosolenia setigera	0.51	0.54	1.14	0.83	1.25	66.69
Unknown pennate diatom sp.	0.00	0.84	1.11	0.78	1.23	67.92
Prorocentrum sp.	0.77	0.00	1.08	0.33	1.19	69.11
Schizothrix sp.	0.11	0.67	1.04	0.45	1.15	70.26
Eutreptiella sp.	0.69	0.00	1.04	0.35	1.15	71.41
Ceratulina bergonii	0.00	0.59	0.91	0.41	1.01	72.42
Unknown Katodinium sp.	0.54	0.00	0.90	0.28	1.00	73.42
Leptocylicus danicus	0.65	0.15	0.88	0.42	0.98	74.39
Scenedesmus sp.	0.60	0.07	0.87	0.47	0.96	75.36
Chaetoceros neogracile	0.00	0.63	0.85	0.63	0.94	76.30
Prorocentrum micans	0.34	0.25	0.79	0.37	0.88	77.17

Thalassionema nitzschoides	0.14	0.48	0.77	0.60	0.85	78.02
Nitzschia longissima	0.00	0.53	0.75	0.79	0.83	78.85
Apedinella radians	0.50	0.00	0.68	0.43	0.75	79.60
Glenodinium sp.	0.50	0.00	0.66	0.30	0.73	80.33
Navicula sp. large	0.47	0.00	0.66	0.44	0.72	81.06
Thalassiosira pseudonana	0.00	0.51	0.65	0.64	0.71	81.77
Chaetoceros gracile	0.51	0.00	0.63	0.29	0.70	82.47
Ceratium hircus	0.36	0.14	0.63	0.43	0.70	83.17
Unknown diatom sp. A	0.52	0.00	0.63	0.33	0.70	83.87
Minutocellus sp.	0.51	0.00	0.62	0.41	0.68	84.55
Unknown Vegetative cell sp.	0.31	0.00	0.56	0.27	0.62	85.17
Gymnodinium sp.	0.15	0.30	0.55	0.49	0.61	85.79
Amphora sp.	0.20	0.21	0.55	0.40	0.61	86.40
Prorocentrum redfieldi	0.41	0.00	0.50	0.19	0.55	86.95
Unknown bluegreen sp.	0.33	0.00	0.49	0.31	0.54	87.49
Chaetoceros muelleri	0.35	0.00	0.47	0.33	0.52	88.00
Akistrodesmus sp.	0.33	0.05	0.46	0.34	0.50	88.51
Chaetoceros compressum	0.00	0.31	0.45	0.40	0.50	89.00
Asterionella glacialis	0.00	0.35	0.45	0.42	0.49	89.49
Coscinodiscus sp.	0.28	0.00	0.43	0.30	0.48	89.97
Gonyaulax polygramma	0.00	0.27	0.42	0.41	0.46	90.44

Groups 75%Grp6 & 75%Grp11

Average dissimilarity = 84.35

Species	Group 75%Grp6 Av.Abund	Group 75%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.13	0.00	7.58	1.99	8.98	8.98
Unknown Cryptophyte sp.	5.10	0.00	7.05	2.13	8.36	17.35
Skeletonema costatum	7.46	4.09	6.41	1.52	7.60	24.94
Thalassiosira sp.	4.15	0.36	4.66	2.14	5.52	30.47
Unknown diatom sp.	3.67	0.00	4.58	2.19	5.44	35.90
Nitzschia closterium	3.83	1.55	3.39	1.78	4.01	39.92
Nitzschia pungens	2.56	0.30	3.16	1.23	3.75	43.67
Unknown Dinoflagellate sp.	2.35	0.00	2.87	1.28	3.40	47.06
Chaetoceros sp.	2.39	0.11	2.81	1.13	3.33	50.40
Skeletonema menezelli	2.03	0.00	2.06	0.41	2.44	52.84
Leptocylicus minimum	1.46	0.93	2.02	1.07	2.39	55.23
Pyramimonas sp.	1.39	0.15	1.90	0.79	2.26	57.49
Chaetoceros subtilis	0.27	0.83	1.42	0.64	1.68	59.17
Peridinium sp.	1.06	0.32	1.40	0.70	1.66	60.83
Thalassionema nitzschoides	0.96	0.48	1.37	0.82	1.62	62.45

Rhizosolenia setigera	0.77	0.54	1.26	0.88	1.49	63.94
Chaetoceros muelleri	1.09	0.00	1.26	0.59	1.49	65.43
Chaetoceros socialis	0.00	0.99	1.20	0.85	1.42	66.86
Ceratium hircus	0.95	0.14	1.12	0.55	1.32	68.18
Peridinium aciculiferum	0.00	0.79	1.11	0.76	1.32	69.50
Asterionella japonica	0.98	0.00	1.09	0.57	1.29	70.79
Leptocylindricus danicus	0.69	0.15	1.03	0.58	1.22	72.01
Unknown pennate diatom sp.	0.00	0.84	1.02	0.78	1.21	73.22
Minutocellus sp.	0.83	0.00	0.91	0.54	1.08	74.30
Navicula sp. large	0.73	0.00	0.91	0.59	1.08	75.38
Schizothrix sp.	0.00	0.67	0.87	0.42	1.03	76.41
Ceratulina bergonii	0.00	0.59	0.82	0.41	0.98	77.39
Chaetoceros neogracile	0.00	0.63	0.78	0.63	0.92	78.31
Prorocentrum sp.	0.58	0.00	0.71	0.41	0.84	79.15
Unknown diatom sp. A	0.58	0.00	0.70	0.42	0.84	79.98
Nitzschia longissima	0.00	0.53	0.68	0.79	0.81	80.79
Prorocentrum minimum	0.16	0.35	0.63	0.46	0.75	81.54
Thalassiosira pseudonana	0.00	0.51	0.59	0.63	0.70	82.24
Prorocentrum micans	0.32	0.25	0.56	0.54	0.67	82.91
Gymnodinium sp.	0.22	0.30	0.56	0.54	0.66	83.57
Navicula sp. small	0.46	0.00	0.51	0.36	0.60	84.17
Eutreptia sp.	0.08	0.31	0.49	0.49	0.58	84.75
Chaetoceros gracile	0.36	0.00	0.46	0.20	0.54	85.30
Pyrophacus sp.	0.39	0.00	0.43	0.29	0.51	85.81
Scenedesmus sp.	0.27	0.07	0.43	0.34	0.51	86.31
Asterionella glacialis	0.00	0.35	0.41	0.41	0.49	86.80
Chaetoceros compressum	0.00	0.31	0.41	0.40	0.48	87.28
Akistrodesmus sp.	0.28	0.05	0.40	0.31	0.48	87.76
Apedinella radians	0.30	0.00	0.39	0.37	0.46	88.22
Aphanocapsa sp.	0.40	0.00	0.38	0.37	0.45	88.67
Gonyaulax polygramma	0.00	0.27	0.38	0.40	0.45	89.12
Unknown bluegreen sp.	0.36	0.00	0.38	0.43	0.45	89.57
Amphora sp.	0.08	0.21	0.34	0.43	0.41	89.98
Nitzschia delicatissima	0.31	0.00	0.34	0.20	0.40	90.37

Groups 75%Grp5 & 75%Grp11

Average dissimilarity = 84.57

Species	Group 75%Grp5 Av.Abund	Group 75%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	11.00	1.92	13.00	13.00
Unknown diatom sp. D	8.36	0.00	8.71	2.86	10.30	23.30

Unknown Cryptophyte sp.	7.43	0.00	8.18	8.57	9.67	32.97
Unknown diatom sp.	4.70	0.00	5.08	7.13	6.01	38.98
Thalassiosira sp.	4.72	0.36	4.85	3.78	5.74	44.72
Pyramimonas sp.	3.83	0.15	4.13	4.23	4.88	49.60
Nitzschia closterium	4.12	1.55	3.10	1.79	3.66	53.26
Rhizosolenia fragilissima	2.34	0.08	3.05	0.98	3.61	56.87
Chaetoceros sp.	3.08	0.11	2.93	1.01	3.47	60.34
Gymnodinium sp.	2.63	0.30	2.53	1.09	2.99	63.33
Skeletonema costatum	5.96	4.09	2.45	1.46	2.90	66.23
Apedinella radians	1.78	0.00	2.33	0.97	2.75	68.98
Nitzschia pungens	2.29	0.30	2.21	1.08	2.62	71.59
Cerataulina bergonii large	1.50	0.00	1.96	0.97	2.31	73.91
Leptocylindricus minimum	1.88	0.93	1.93	1.35	2.28	76.19
Peridinium sp.	1.50	0.32	1.47	1.06	1.74	77.92
Prorocentrum sp.	1.50	0.00	1.41	0.98	1.67	79.59
Rhizosolenia setigera	1.26	0.54	1.29	1.20	1.52	81.11
Leptocylindricus danicus	1.26	0.15	1.21	1.04	1.43	82.54
Navicula sp. large	1.26	0.00	1.19	0.98	1.41	83.95
Chaetoceros socialis	0.00	0.99	1.02	0.87	1.20	85.15
Chaetoceros subtilis	0.00	0.83	0.98	0.65	1.16	86.31
Peridinium aciculiferum	0.00	0.79	0.91	0.79	1.08	87.39
Unknown pennate diatom sp.	0.00	0.84	0.86	0.79	1.02	88.41
Schizothrix sp.	0.00	0.67	0.73	0.43	0.86	89.28
Ceratulina bergonii	0.00	0.59	0.68	0.42	0.80	90.08

Groups 75%Grp8 & 75%Grp11

Average dissimilarity = 85.18

Species	Group 75%Grp8 Av.Abund	Group 75%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	4.09	7.29	1.37	8.56	8.56
Cyclotella sp. (small)	1.79	0.15	3.83	0.74	4.50	13.06
Unknown pennate diatom sp.	2.07	0.84	3.75	1.12	4.40	17.45
Cyclotella sp.	1.76	0.17	3.68	0.79	4.33	21.78
Nitzschia closterium	0.08	1.55	3.01	1.41	3.54	25.32
Cyclotella sp. (large)	1.45	0.00	2.84	0.60	3.33	28.65
Thalassiosira pseudonana	1.05	0.51	2.42	0.75	2.84	31.49
Chaetoceros subtilis	0.44	0.83	2.39	0.70	2.81	34.30
Scenedesmus quadricauda	1.15	0.09	2.29	1.05	2.69	36.99
Gymnodinium sp.	1.01	0.30	2.24	0.98	2.63	39.62
Schroederia setigera	1.04	0.00	2.02	1.00	2.37	41.99
Eutreptia sp.	0.88	0.31	2.01	0.98	2.36	44.36

Peridinium aciculiferum	0.11	0.79	1.99	0.76	2.33	46.69
Leptocylindricus minimum	0.00	0.93	1.90	0.81	2.23	48.92
Chaetoceros socialis	0.00	0.99	1.89	0.85	2.22	51.14
Scenedesmus bijinga	0.90	0.00	1.75	0.80	2.06	53.20
Thalassiosira decipiens	0.91	0.12	1.73	0.57	2.04	55.23
Nitzschia longissima	0.78	0.53	1.70	1.02	1.99	57.23
Ceratulina bergonii	0.00	0.59	1.44	0.40	1.69	58.92
Schizothrix sp.	0.00	0.67	1.42	0.42	1.66	60.58
Akistrodesmus falcatus	0.64	0.00	1.24	0.65	1.46	62.04
Chaetoceros neogracile	0.00	0.63	1.23	0.62	1.45	63.48
Rhizosolenia setigera	0.00	0.54	1.21	0.62	1.42	64.90
Amphiprora sp.	0.49	0.11	1.07	0.67	1.26	66.16
Thalassionema nitzschoides	0.00	0.48	1.01	0.54	1.19	67.35
Bluegreen filamentous sp.	0.41	0.00	0.97	0.58	1.13	68.48
Actinastrum hantzschii	0.49	0.00	0.96	0.48	1.13	69.61
Thalassiosira sp.	0.10	0.36	0.96	0.42	1.12	70.73
Prorocentrum minimum	0.16	0.35	0.88	0.65	1.03	71.76
Melosira sp.	0.36	0.00	0.76	0.49	0.89	72.66
Pleurosigma sp.	0.24	0.11	0.75	0.56	0.88	73.53
Crucigenia sp.	0.22	0.00	0.71	0.49	0.84	74.37
Cyclotella meneghiniana	0.40	0.00	0.70	0.27	0.82	75.19
Peridinium sp.	0.00	0.32	0.69	0.41	0.81	76.00
Scenedesmus acutus	0.34	0.00	0.68	0.40	0.80	76.80
Chaetoceros compressum	0.00	0.31	0.67	0.39	0.79	77.59
Gonyaulax polygramma	0.00	0.27	0.65	0.40	0.76	78.35
Dictyosphaerium sp.	0.46	0.00	0.65	0.39	0.76	79.11
Asterionella glacialis	0.00	0.35	0.63	0.41	0.74	79.85
Melosira nummuloides	0.25	0.06	0.63	0.43	0.73	80.58
Merismopedia punctata	0.29	0.00	0.62	0.36	0.73	81.31
Nitzschia pungens	0.00	0.30	0.61	0.40	0.71	82.03
Euglena sp.	0.09	0.26	0.57	0.41	0.67	82.69
Scenedesmus sp.	0.26	0.07	0.55	0.46	0.64	83.34
Scenedesmus acuminatus	0.26	0.08	0.52	0.46	0.61	83.95
Scrippsiella sp.	0.08	0.19	0.47	0.48	0.55	84.50
Scenedesmus abundans	0.29	0.00	0.46	0.39	0.54	85.04
Prorocentrum micans	0.00	0.25	0.45	0.38	0.53	85.56
Micractinium pusillum	0.30	0.00	0.42	0.37	0.50	86.06
Thalassiosira oestrupii	0.00	0.23	0.42	0.41	0.49	86.55
Tetrastrum sp.	0.24	0.00	0.38	0.40	0.45	87.00
Nitzschia sp.	0.09	0.00	0.35	0.26	0.41	87.41
Amphora sp.	0.00	0.21	0.35	0.41	0.41	87.82
Tropodineis lepidoptera	0.19	0.00	0.33	0.27	0.38	88.20
Kirchneriella sp.	0.11	0.00	0.32	0.27	0.37	88.57

Unknown chlorophyte sp.	0.18	0.00	0.31	0.27	0.36	88.93
Akistrodesmus fractus	0.10	0.00	0.30	0.27	0.35	89.28
Unkown C sp.	0.22	0.00	0.29	0.27	0.35	89.63
Ceratium hircus	0.00	0.14	0.29	0.30	0.34	89.97
Leptocylindricus danicus	0.00	0.15	0.28	0.32	0.32	90.30

Groups 75%Grp10 & 75%Grp11

Average dissimilarity = 67.40

Species	Group 75%Grp10 Av.Abund	Group 75%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Chaetoceros subtilis	2.19	0.83	5.02	1.08	7.45	7.45
Skeletonema costatum	3.94	4.09	3.96	0.91	5.87	13.32
Peridinium aciculiferum	1.12	0.79	3.06	1.05	4.54	17.86
Schizothrix sp.	1.06	0.67	3.00	0.71	4.45	22.31
Nitzschia closterium	0.79	1.55	2.84	1.22	4.22	26.53
Leptocylindricus minimum	0.80	0.93	2.52	0.98	3.74	30.27
Chaetoceros socialis	0.70	0.99	2.38	1.01	3.53	33.81
Thalassiosira sp.	0.84	0.36	2.35	0.75	3.48	37.29
Unknown pennate diatom sp.	0.75	0.84	2.22	1.02	3.29	40.58
Thalassiosira pseudonana	0.90	0.51	2.21	0.93	3.28	43.86
Ceratulina bergonii	0.40	0.59	2.08	0.54	3.08	46.94
Nitzschia longissima	0.75	0.53	1.82	1.01	2.70	49.64
Chaetoceros neogracile	0.39	0.63	1.64	0.79	2.44	52.08
Rhizosolenia setigera	0.28	0.54	1.52	0.74	2.26	54.34
Eutreptia sp.	0.58	0.31	1.47	0.86	2.18	56.52
Thalassionema nitzschoides	0.32	0.48	1.41	0.70	2.09	58.61
Nitzschia pungens	0.45	0.30	1.33	0.66	1.98	60.58
Schroederia setigera	0.53	0.00	1.32	0.60	1.97	62.55
Cyclotella sp. (small)	0.35	0.15	1.27	0.39	1.89	64.44
Gymnodinium sp.	0.37	0.30	1.24	0.64	1.85	66.28
Cyclotella sp.	0.45	0.17	1.19	0.59	1.76	68.05
Prorocentrum minimum	0.38	0.35	1.18	0.75	1.75	69.79
Gonyaulax polygramma	0.21	0.27	1.09	0.55	1.62	71.41
Peridinium sp.	0.20	0.32	1.04	0.55	1.55	72.96
Prorocentrum micans	0.24	0.25	0.83	0.55	1.23	74.19
Scrippsiella sp.	0.29	0.19	0.80	0.61	1.19	75.38
Gonyaulax spinifera	0.27	0.13	0.76	0.57	1.13	76.51
Chaetoceros compressum	0.00	0.31	0.73	0.39	1.09	77.59
Euglena sp.	0.14	0.26	0.71	0.45	1.05	78.64
Gonyaulax monilata	0.33	0.00	0.70	0.47	1.04	79.69
Asterionella glacialis	0.00	0.35	0.67	0.42	1.00	80.68

Ceratium hircus	0.22	0.14	0.67	0.43	0.99	81.67
Leptocylindricus danicus	0.18	0.15	0.59	0.45	0.88	82.55
Scenedesmus quadrauda	0.16	0.09	0.56	0.39	0.83	83.38
Thalassiosira oestrupii	0.07	0.23	0.55	0.47	0.82	84.20
Chaetoceros sp.	0.12	0.11	0.50	0.36	0.75	84.95
Amphora sp.	0.06	0.21	0.48	0.47	0.72	85.67
Thalassiosira decipiens	0.06	0.12	0.44	0.36	0.65	86.32
Dictyocha fibula	0.05	0.11	0.34	0.39	0.51	86.82
Peridinium tuba	0.05	0.11	0.31	0.39	0.46	87.29
Nitzschia sp.	0.11	0.00	0.29	0.32	0.43	87.72
Navicula sp.	0.11	0.06	0.29	0.40	0.43	88.15
Amphiprora sp.	0.05	0.11	0.29	0.39	0.43	88.58
Chaetoceros breve	0.00	0.11	0.26	0.23	0.39	88.97
Pleurosigma sp.	0.00	0.11	0.26	0.33	0.39	89.36
Scenedesmus acuminatus	0.07	0.08	0.26	0.32	0.38	89.74
Synedra sp.	0.05	0.08	0.26	0.31	0.38	90.12

Groups 75%Grp12 & 75%Grp11

Average dissimilarity = 72.66

Species	Group 75%Grp12 Av.Abund	Group 75%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Chaetoceros subtilis	2.80	0.83	5.29	1.39	7.28	7.28
Skeletonema costatum	4.06	4.09	3.84	1.14	5.28	12.56
Cyclotella sp. (small)	1.40	0.15	3.22	0.71	4.44	17.00
Peridinium aciculiferum	1.07	0.79	2.92	0.97	4.03	21.03
Nitzschia closterium	0.40	1.55	2.80	1.40	3.86	24.89
Thalassiosira pseudonana	1.15	0.51	2.78	0.83	3.83	28.71
Schroederia setigera	1.25	0.00	2.73	1.39	3.76	32.47
Schizothrix sp.	0.71	0.67	2.62	0.63	3.61	36.08
Gymnodinium sp.	1.06	0.30	2.37	0.89	3.26	39.34
Unknown pennate diatom sp.	0.72	0.84	2.21	1.00	3.04	42.38
Leptocylindricus minimum	0.29	0.93	2.02	0.92	2.78	45.17
Chaetoceros socialis	0.00	0.99	1.89	0.89	2.60	47.77
Cyclotella sp.	0.79	0.17	1.87	0.61	2.58	50.35
Nitzschia longissima	0.91	0.53	1.84	1.09	2.54	52.89
Scenedesmus quadrauda	0.73	0.09	1.63	0.82	2.25	55.13
Ceratulina bergonii	0.14	0.59	1.58	0.48	2.17	57.31
Gonyaulax polygramma	0.53	0.27	1.50	0.76	2.06	59.37
Chaetoceros neogracile	0.17	0.63	1.40	0.72	1.93	61.30
Thalassiosira decipiens	0.59	0.12	1.37	0.79	1.89	63.19
Thalassiosira sp.	0.31	0.36	1.27	0.58	1.75	64.94

Peridinium sp.	0.41	0.32	1.27	0.69	1.74	66.68
Rhizosolenia setigera	0.06	0.54	1.23	0.70	1.70	68.37
Eutreptia sp.	0.42	0.31	1.21	0.74	1.67	70.05
Euglena sp.	0.38	0.26	1.18	0.60	1.62	71.67
Thalassionema nitzschoides	0.09	0.48	1.11	0.61	1.53	73.20
Prorocentrum minimum	0.29	0.35	1.01	0.73	1.39	74.59
Nitzschia pungens	0.21	0.30	0.97	0.59	1.33	75.92
Akistrodesmus falcatus	0.46	0.00	0.93	0.55	1.29	77.21
Scenedesmus bijinga	0.43	0.00	0.93	0.49	1.28	78.49
Scrippsiella sp.	0.18	0.19	0.68	0.49	0.93	79.42
Chaetoceros compressum	0.00	0.31	0.67	0.41	0.93	80.35
Scenedesmus acuminatus	0.24	0.08	0.63	0.47	0.87	81.22
Leptocylindricus danicus	0.20	0.15	0.63	0.45	0.87	82.09
Asterionella glacialis	0.00	0.35	0.63	0.42	0.87	82.96
Pleurosigma sp.	0.16	0.11	0.60	0.41	0.83	83.79
Merismopedia punctata	0.23	0.00	0.57	0.33	0.78	84.57
Nostoc sp.(trichomes)	0.21	0.00	0.54	0.41	0.74	85.31
Prorocentrum micans	0.00	0.25	0.45	0.39	0.62	85.93
Thalassiosira oestrupii	0.00	0.23	0.42	0.42	0.58	86.51
Amphiprora sp.	0.12	0.11	0.38	0.46	0.52	87.03
Pyramimonas sp.	0.06	0.15	0.36	0.33	0.49	87.52
Amphora sp.	0.00	0.21	0.35	0.42	0.48	88.00
Bluegreen filamentous sp.	0.15	0.00	0.35	0.33	0.48	88.48
Scenedesmus acutus	0.16	0.00	0.33	0.23	0.45	88.93
Synedra sp.	0.06	0.08	0.31	0.33	0.43	89.36
Tropodineis lepidoptera	0.14	0.00	0.29	0.23	0.40	89.76
Ceratium hircus	0.00	0.14	0.29	0.31	0.40	90.16

Groups 75%Grp13 & 75%Grp11

Average dissimilarity = 73.49

Species	Group 75%Grp13 Av.Abund	Group 75%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.90	4.09	6.77	1.07	9.22	9.22
Thalassiosira pseudonana	1.56	0.51	3.08	0.94	4.19	13.41
Thalassiosira sp.	1.38	0.36	3.00	0.73	4.09	17.49
Prorocentrum minimum	1.59	0.35	2.99	0.98	4.07	21.57
Eutreptia sp.	1.43	0.31	2.70	0.98	3.67	25.24
Chaetoceros subtilis	0.83	0.83	2.56	0.83	3.48	28.72
Nitzschia closterium	0.62	1.55	2.40	1.14	3.27	31.99
Leptocylindricus minimum	0.75	0.93	2.31	0.95	3.14	35.13
Peridinium aciculiferum	0.84	0.79	2.20	0.98	2.99	38.12

Unknown pennate diatom sp.	0.81	0.84	2.17	0.96	2.95	41.07
Ceratulina bergonii	0.53	0.59	2.14	0.57	2.91	43.98
Schizothrix sp.	0.49	0.67	1.96	0.58	2.66	46.64
Chaetoceros socialis	0.28	0.99	1.95	0.91	2.65	49.29
Schroederia setigera	0.82	0.00	1.73	0.86	2.35	51.65
Cyclotella sp.	0.83	0.17	1.66	0.58	2.26	53.90
Thalassiosira decipiens	0.84	0.12	1.62	0.81	2.20	56.10
Euglena sp.	0.69	0.26	1.57	0.53	2.13	58.23
Nitzschia longissima	0.74	0.53	1.53	1.00	2.09	60.32
Chaetoceros neogracile	0.31	0.63	1.45	0.76	1.97	62.29
Scrippsiella sp.	0.59	0.19	1.35	0.67	1.84	64.13
Rhizosolenia setigera	0.16	0.54	1.28	0.68	1.74	65.87
Gymnodinium sp.	0.53	0.30	1.24	0.80	1.69	67.55
Thalassionema nitzschoides	0.20	0.48	1.22	0.62	1.67	69.22
Peridinium sp.	0.31	0.32	1.00	0.63	1.36	70.58
Merismopedia punctata	0.54	0.00	0.99	0.45	1.34	71.93
Scenedesmus quadracauda	0.46	0.09	0.93	0.53	1.26	73.19
Gonyaulax polygramma	0.15	0.27	0.80	0.51	1.09	74.28
Akistrodesmus falcatus	0.43	0.00	0.78	0.53	1.07	75.35
Pyramimonas sp.	0.33	0.15	0.76	0.41	1.03	76.38
Nitzschia pungens	0.12	0.30	0.74	0.49	1.00	77.39
Crucigenia sp.	0.38	0.00	0.70	0.47	0.96	78.35
Chaetoceros compressum	0.00	0.31	0.64	0.39	0.87	79.21
Prorocentrum micans	0.13	0.25	0.60	0.51	0.82	80.03
Asterionella glacialis	0.00	0.35	0.60	0.41	0.81	80.84
Cyclotella sp. (small)	0.13	0.15	0.57	0.30	0.77	81.61
Nostoc sp.(trichomes)	0.27	0.00	0.53	0.41	0.73	82.34
Amphora sp.	0.13	0.21	0.51	0.55	0.70	83.04
Thalassiosira oestrupii	0.04	0.23	0.47	0.46	0.64	83.68
Scenedesmus bijinga	0.28	0.00	0.46	0.43	0.63	84.31
Scenedesmus acuminatus	0.19	0.08	0.44	0.41	0.60	84.91
Gonyaulax spinifera	0.10	0.13	0.39	0.43	0.54	85.45
Bluegreen filamentous sp.	0.21	0.00	0.38	0.42	0.51	85.96
Nitzschia sigma	0.15	0.06	0.37	0.34	0.51	86.47
Thalassiosira allenii	0.10	0.10	0.37	0.34	0.50	86.97
Leptocylindricus danicus	0.09	0.15	0.36	0.38	0.49	87.46
Ceratium hircus	0.08	0.14	0.36	0.36	0.49	87.95
Chaetoceros curvisetus	0.07	0.11	0.30	0.30	0.41	88.36
Thalassiosira rotula	0.07	0.06	0.28	0.26	0.39	88.75
Chaetoceros sp.	0.00	0.11	0.25	0.22	0.34	89.09
Peridinium trochoideum	0.14	0.00	0.25	0.29	0.34	89.42
Selenastrum gracile	0.11	0.00	0.23	0.28	0.32	89.74
Thalassiosira aestivalis	0.18	0.00	0.23	0.20	0.32	90.06

Groups 75%Grp9 & 75%Grp11

Average dissimilarity = 75.55

Species	Group 75%Grp9 Av.Abund	Group 75%Grp11 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.07	4.09	6.32	1.17	8.37	8.37
Schizothrix sp.	2.14	0.67	4.17	0.77	5.52	13.89
Thalassionema nitzschoides	1.63	0.48	3.19	0.69	4.23	18.11
Nitzschia closterium	1.37	1.55	2.99	1.26	3.95	22.07
Ceratulina bergonii	1.39	0.59	2.99	0.69	3.95	26.02
Chaetoceros socialis	1.47	0.99	2.62	1.09	3.47	29.49
Leptocylindricus minimum	1.63	0.93	2.52	1.04	3.33	32.82
Unknown pennate diatom sp.	1.09	0.84	2.27	0.90	3.00	35.83
Chaetoceros neogracile	1.24	0.63	2.18	0.94	2.89	38.71
Chaetoceros subtilis	0.59	0.83	2.16	0.64	2.86	41.57
Thalassiosira sp.	0.93	0.36	1.91	0.68	2.53	44.11
Rhizosolenia setigera	0.93	0.54	1.90	0.84	2.52	46.62
Nitzschia pungens	1.11	0.30	1.84	0.78	2.44	49.06
Peridinium aciculiferum	0.06	0.79	1.79	0.68	2.36	51.42
Prorocentrum micans	0.97	0.25	1.73	0.97	2.29	53.71
Chaetoceros compressum	0.87	0.31	1.48	0.73	1.96	55.67
Asterionella glacialis	0.87	0.35	1.44	0.76	1.91	57.58
Chaetoceros sp.	0.56	0.11	1.29	0.36	1.70	59.28
Thalassiosira decipiens	0.64	0.12	1.29	0.59	1.70	60.99
Nitzschia longissima	0.64	0.53	1.26	0.91	1.67	62.66
Ceratium hircus	0.73	0.14	1.26	0.84	1.67	64.33
Peridinium sp.	0.41	0.32	1.23	0.62	1.63	65.96
Prorocentrum minimum	0.72	0.35	1.18	0.95	1.56	67.52
Thalassiosira pseudonana	0.37	0.51	1.13	0.70	1.50	69.02
Gonyaulax polygramma	0.22	0.27	0.93	0.50	1.23	70.25
Melosira sp.	0.26	0.00	0.86	0.30	1.14	71.39
Amphora sp.	0.41	0.21	0.84	0.52	1.12	72.51
Leptocylindricus danicus	0.46	0.15	0.78	0.64	1.03	73.54
Gymnodinium sp.	0.25	0.30	0.78	0.60	1.03	74.56
Eutreptia sp.	0.14	0.31	0.76	0.49	1.01	75.57
Thalassiosira oestrupii	0.30	0.23	0.70	0.62	0.93	76.50
Pleurosigma sp.	0.27	0.11	0.61	0.54	0.81	77.31
Chaetoceros curvisetus	0.43	0.11	0.61	0.40	0.80	78.12
Chaetoceros lorenzianum	0.32	0.13	0.58	0.48	0.76	78.88
Scrippsiella sp.	0.24	0.19	0.55	0.58	0.73	79.61
Peridinium tuba	0.27	0.11	0.52	0.56	0.69	80.30

Gonyaulax monilata	0.19	0.00	0.43	0.33	0.57	80.87
Euglena sp.	0.00	0.26	0.41	0.32	0.54	81.41
Rhizosolenia calcar-avis	0.22	0.06	0.41	0.46	0.54	81.95
Amphiprora sp.	0.21	0.11	0.38	0.54	0.50	82.45
Rhizosolenia delicatula	0.26	0.00	0.38	0.41	0.50	82.95
Dictyocha fibula	0.11	0.11	0.37	0.40	0.50	83.45
Thalassiothrix frauenfeldianum	0.18	0.00	0.36	0.31	0.47	83.92
Cyclotella sp.	0.00	0.17	0.36	0.31	0.47	84.39
Rhizosolenia alata	0.19	0.07	0.35	0.45	0.46	84.85
Navicula sp.	0.15	0.06	0.34	0.40	0.46	85.31
Cyclotella sp. (small)	0.00	0.15	0.34	0.21	0.45	85.76
Nitzschia sigma	0.19	0.06	0.34	0.40	0.45	86.21
Gonyaulax digitalis	0.20	0.00	0.33	0.30	0.44	86.65
Scenedesmus quadricauda	0.06	0.09	0.33	0.29	0.44	87.10
Ebria tripartita	0.16	0.08	0.33	0.43	0.43	87.53
Coscinosira polychorda	0.21	0.00	0.32	0.36	0.43	87.95
Coscinodiscus sp.	0.10	0.00	0.31	0.24	0.42	88.37
Synedra sp.	0.09	0.08	0.30	0.30	0.40	88.77
Coolia sp.	0.12	0.07	0.29	0.36	0.39	89.16
Nostoc sp.(trichomes)	0.17	0.00	0.28	0.34	0.37	89.53
Chaetoceros breve	0.07	0.11	0.28	0.27	0.37	89.90
Hemiaulis hauckii	0.20	0.00	0.28	0.36	0.37	90.27

Groups 75%Grp4 & 75%Grp1

Average dissimilarity = 99.24

Species	Group 75%Grp4 Av.Abund	Group 75%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	7.96	1.59	8.02	8.02
Synechocystis aquaticus Sauvageau	0.00	3.49	6.13	1.62	6.18	14.20
Cryptomonas sp.1	0.00	3.26	5.47	3.08	5.51	19.71
Unknown diatom sp.	3.09	0.00	5.05	2.32	5.09	24.80
Unknown diatom sp. D	2.34	0.00	3.73	1.56	3.76	28.56
Scenedesmus quadricauda v. Westii	0.00	2.19	3.58	1.34	3.61	32.17
Thalassiosira sp.	2.01	0.00	3.26	1.89	3.28	35.46
Gonyaulax palustre	0.00	1.82	2.98	1.51	3.00	38.46
Spermatozoopsis exultans	0.00	1.79	2.97	1.28	2.99	41.45
Unknown Dinoflagellate sp.	1.73	0.00	2.89	0.96	2.91	44.37
Prorocentrum micans	1.61	0.00	2.87	0.55	2.89	47.26
Cryptomonas erosa	0.00	1.46	2.30	1.16	2.32	49.58
Scenedesmus sp.	1.47	0.00	2.25	1.14	2.27	51.85
Navicula sp. small	1.23	0.00	2.04	0.84	2.05	53.90

Skeletonema costatum	0.16	1.15	2.03	0.77	2.05	55.95
Chlymentomonas sp.	0.00	1.14	1.80	0.96	1.82	57.76
Cryptomonas ovata	0.00	1.01	1.70	0.88	1.71	59.47
Eutreptiella sp.	0.35	0.80	1.48	0.92	1.49	60.97
Coelosphaerium sp.	0.00	0.90	1.41	0.58	1.42	62.39
Coscinodiscus sp.	0.83	0.00	1.40	0.57	1.41	63.80
Unknown bluegreen sp.	0.83	0.00	1.36	0.89	1.37	65.17
Pyramimonas sp.	0.84	0.00	1.30	0.82	1.31	66.48
Nitzschia pungens	0.80	0.12	1.29	0.82	1.30	67.77
Tetraedron sp.	0.82	0.05	1.21	0.76	1.22	69.00
Navicula sp. large	0.66	0.00	1.17	0.64	1.18	70.17
Akistrodesmus sp.	0.76	0.00	1.11	0.57	1.12	71.29
Nitzschia palea	0.00	0.70	1.06	0.83	1.07	72.37
Cyclotella sp.	0.00	0.73	1.06	0.66	1.07	73.44
Leptocylindricus minimum	0.61	0.00	0.99	0.65	1.00	74.43
Unknown flagellate sp. 1	0.00	0.56	0.91	0.59	0.92	75.35
Navicula sp.	0.00	0.48	0.84	0.65	0.84	76.19
Nitzschia sp.	0.38	0.10	0.80	0.46	0.80	76.99
Chroococcus minutus	0.00	0.56	0.78	0.43	0.78	77.78
Prorocentrum sp.	0.45	0.00	0.73	0.38	0.73	78.51
Schizothrix calcicola	0.48	0.00	0.65	0.58	0.66	79.17
Eutreptia sp.	0.37	0.00	0.63	0.35	0.64	79.81
Cyclotella undulata	0.00	0.37	0.63	0.29	0.64	80.44
Aphanocapsa sp.	0.36	0.08	0.58	0.44	0.58	81.03
Prorocentrum redfieldi	0.40	0.00	0.58	0.36	0.58	81.61
Trichodesmium sp.	0.38	0.00	0.53	0.38	0.54	82.15
Thalassionema nitzschoides	0.35	0.00	0.53	0.49	0.53	82.68
Leptocylindricus danicus	0.27	0.00	0.52	0.38	0.53	83.21
Euglena acus	0.00	0.35	0.51	0.34	0.51	83.72
Scenedesmus abundans v. brevicauda	0.00	0.35	0.47	0.37	0.48	84.20
Nitzschia fruticosa	0.00	0.30	0.45	0.35	0.46	84.66
Merismopedia sp.	0.18	0.20	0.45	0.40	0.45	85.11
Merismopedia glauca	0.00	0.32	0.44	0.36	0.45	85.55
Chroococcus sp.	0.32	0.00	0.43	0.38	0.44	85.99
Oscillatoria sp.	0.32	0.00	0.43	0.39	0.44	86.43
Stephanodiscus sp.	0.00	0.26	0.42	0.34	0.42	86.85
Euglena sp.	0.00	0.21	0.37	0.21	0.37	87.22
Cryptomonas curvata	0.00	0.24	0.37	0.41	0.37	87.59
Spirulina sp.1	0.00	0.24	0.35	0.34	0.35	87.94
Unknown diatom sp. A	0.20	0.00	0.33	0.26	0.33	88.27
Gymnodinium simplex	0.00	0.20	0.33	0.44	0.33	88.60
Oocystis sp.	0.00	0.27	0.33	0.37	0.33	88.93
Lyngbya contorta (trichome)	0.00	0.25	0.33	0.32	0.33	89.26

Phormidium fragile (trichome)	0.00	0.24	0.32	0.37	0.32	89.58
Actinastrum sp.	0.18	0.00	0.32	0.37	0.32	89.90
Unknown diatom sp. 17	0.20	0.00	0.31	0.39	0.31	90.21

Groups 75%Grp7 & 75%Grp1

Average dissimilarity = 98.08

Species	Group 75%Grp7 Av.Abund	Group 75%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	8.35	1.57	8.51	8.51
Unknown Cryptophyte sp.	6.29	0.00	8.14	2.24	8.30	16.81
Synechocystis aquaticus Sauvageau	0.00	3.49	4.79	1.58	4.89	21.70
Thalassiosira sp.	3.51	0.00	4.32	1.05	4.40	26.10
Cryptomonas sp.1	0.00	3.26	4.31	2.83	4.40	30.50
Skeletonema costatum	3.34	1.15	4.07	1.00	4.15	34.65
Unknown diatom sp.	3.30	0.00	4.06	1.63	4.14	38.79
Unknown Dinoflagellate sp.	3.01	0.00	3.93	1.26	4.01	42.80
Scenedesmus quadricauda v. Westii	0.00	2.19	2.84	1.32	2.89	45.69
Gonyaulax palustre	0.00	1.82	2.36	1.47	2.41	48.10
Spermatozoopsis exultans	0.00	1.79	2.34	1.28	2.39	50.50
Prorocentrum minimum	1.60	0.00	2.23	0.35	2.27	52.77
Peridinium sp.	1.80	0.00	2.07	0.75	2.11	54.88
Pyramimonas sp.	1.63	0.00	1.90	0.92	1.93	56.81
Cryptomonas erosa	0.00	1.46	1.84	1.14	1.87	58.69
Eutreptiella sp.	0.69	0.80	1.60	0.66	1.63	60.32
Eutreptia sp.	1.21	0.00	1.59	0.49	1.62	61.93
Skeletonema menezelli	1.46	0.00	1.54	0.34	1.57	63.50
Chlymentomonas sp.	0.00	1.14	1.44	0.95	1.46	64.97
Chaetoceros sp.	1.28	0.00	1.39	0.60	1.42	66.38
Cryptomonas ovata	0.00	1.01	1.34	0.86	1.37	67.75
Nitzschia closterium	0.92	0.00	1.14	0.66	1.16	68.91
Coelosphaerium sp.	0.00	0.90	1.13	0.58	1.15	70.06
Nitzschia pungens	0.82	0.12	1.04	0.60	1.06	71.13
Prorocentrum sp.	0.77	0.00	0.95	0.33	0.97	72.10
Cyclotella sp.	0.00	0.73	0.86	0.66	0.87	72.97
Nitzschia palea	0.00	0.70	0.85	0.82	0.87	73.84
Unknown Katodinium sp.	0.54	0.07	0.84	0.31	0.86	74.70
Leptocylicus minimum	0.72	0.00	0.78	0.54	0.79	75.49
Scenedesmus sp.	0.60	0.00	0.72	0.44	0.74	76.23
Unknown flagellate sp. 1	0.00	0.56	0.72	0.59	0.73	76.96
Leptocylicus danicus	0.65	0.00	0.66	0.35	0.68	77.64
Navicula sp.	0.00	0.48	0.65	0.65	0.67	78.31

Chroococcus minutus	0.00	0.56	0.64	0.43	0.65	78.96
Apedinella radians	0.50	0.00	0.61	0.44	0.62	79.57
Glenodinium sp.	0.50	0.00	0.60	0.30	0.61	80.18
Navicula sp. large	0.47	0.00	0.58	0.44	0.60	80.78
Unknown diatom sp. A	0.52	0.00	0.57	0.33	0.58	81.36
Chaetoceros gracile	0.51	0.00	0.57	0.29	0.58	81.94
Minutocellus sp.	0.51	0.00	0.56	0.41	0.57	82.51
Rhizosolenia setigera	0.51	0.00	0.53	0.48	0.54	83.06
Cyclotella undulata	0.00	0.37	0.50	0.29	0.51	83.57
Unknown Vegetative cell sp.	0.31	0.00	0.48	0.28	0.49	84.06
Aphanocapsa sp.	0.36	0.08	0.45	0.39	0.46	84.52
Prorocentrum micans	0.34	0.00	0.45	0.24	0.46	84.98
Prorocentrum redfieldi	0.41	0.00	0.45	0.19	0.46	85.44
Unknown bluegreen sp.	0.33	0.00	0.43	0.32	0.44	85.88
Ceratium hircus	0.36	0.00	0.42	0.33	0.43	86.31
Chaetoceros muelleri	0.35	0.00	0.42	0.33	0.42	86.74
Euglena acus	0.00	0.35	0.41	0.34	0.42	87.15
Scenedesmus abundans v. brevicauda	0.00	0.35	0.39	0.37	0.39	87.55
Coscinodiscus sp.	0.28	0.00	0.38	0.30	0.39	87.94
Tetraedron sp.	0.30	0.05	0.37	0.35	0.38	88.32
Akistrodesmus sp.	0.33	0.00	0.36	0.30	0.37	88.69
Nitzschia fruticosa	0.00	0.30	0.36	0.35	0.37	89.06
Merismopedia glauca	0.00	0.32	0.36	0.36	0.37	89.43
Pyrophacus sp.	0.26	0.00	0.35	0.26	0.35	89.78
Chaetoceros subtilis	0.16	0.16	0.35	0.25	0.35	90.14

Groups 75%Grp6 & 75%Grp1

Average dissimilarity = 97.38

Species	Group 75%Grp6 Av.Abund	Group 75%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	7.46	1.15	7.75	1.68	7.96	7.96
Unknown diatom sp. D	6.13	0.00	6.82	2.00	7.00	14.96
Unknown Cryptophyte sp.	5.10	0.00	6.27	2.31	6.43	21.40
Thalassiosira sp.	4.15	0.00	4.52	2.46	4.64	26.03
Synechocystis aquaticus Sauvageau	0.00	3.49	4.37	1.54	4.48	30.52
Nitzschia closterium	3.83	0.00	4.30	2.46	4.41	34.93
Unknown diatom sp.	3.67	0.00	4.13	2.23	4.24	39.17
Cryptomonas sp.1	0.00	3.26	3.94	2.68	4.04	43.21
Nitzschia pungens	2.56	0.12	2.90	1.24	2.98	46.19
Scenedesmus quadricauda v. Westii	0.00	2.19	2.60	1.30	2.67	48.86
Unknown Dinoflagellate sp.	2.35	0.00	2.58	1.29	2.65	51.51

Chaetoceros sp.	2.39	0.00	2.56	1.12	2.63	54.14
Gonyaulax palustre	0.00	1.82	2.16	1.44	2.22	56.36
Spermatozoopsis exultans	0.00	1.79	2.14	1.26	2.20	58.56
Skeletonema menezelli	2.03	0.00	1.90	0.41	1.95	60.51
Cryptomonas erosa	0.00	1.46	1.68	1.12	1.73	62.23
Pyramimonas sp.	1.39	0.00	1.66	0.79	1.71	63.94
Leptocylindricus minimum	1.46	0.00	1.51	0.76	1.55	65.49
Chlymentomonas sp.	0.00	1.14	1.32	0.94	1.35	66.84
Cryptomonas ovata	0.00	1.01	1.22	0.86	1.26	68.10
Chaetoceros muelleri	1.09	0.00	1.14	0.59	1.17	69.27
Peridinium sp.	1.06	0.00	1.07	0.58	1.10	70.37
Coelosphaerium sp.	0.00	0.90	1.03	0.57	1.06	71.43
Asterionella japonica	0.98	0.00	0.99	0.57	1.02	72.46
Eutreptiella sp.	0.12	0.80	0.99	0.85	1.01	73.47
Thalassionema nitzschoides	0.96	0.00	0.94	0.60	0.97	74.44
Ceratium hircus	0.95	0.00	0.91	0.48	0.94	75.37
Leptocylindricus danicus	0.69	0.00	0.83	0.52	0.86	76.23
Minutocellus sp.	0.83	0.00	0.83	0.54	0.85	77.08
Navicula sp. large	0.73	0.00	0.81	0.60	0.84	77.92
Rhizosolenia setigera	0.77	0.00	0.79	0.59	0.81	78.73
Cyclotella sp.	0.00	0.73	0.79	0.65	0.81	79.54
Nitzschia palea	0.00	0.70	0.78	0.82	0.80	80.35
Unknown flagellate sp. 1	0.00	0.56	0.66	0.58	0.68	81.02
Prorocentrum sp.	0.58	0.00	0.63	0.41	0.65	81.68
Unknown diatom sp. A	0.58	0.00	0.63	0.42	0.65	82.33
Navicula sp.	0.00	0.48	0.60	0.64	0.61	82.94
Chroococcus minutus	0.00	0.56	0.59	0.43	0.60	83.54
Navicula sp. small	0.46	0.00	0.46	0.36	0.48	84.02
Cyclotella undulata	0.00	0.37	0.46	0.29	0.47	84.48
Chaetoceros subtilis	0.27	0.16	0.44	0.28	0.46	84.94
Aphanocapsa sp.	0.40	0.08	0.42	0.42	0.43	85.37
Chaetoceros gracile	0.36	0.00	0.41	0.20	0.43	85.80
Pyrophacus sp.	0.39	0.00	0.40	0.29	0.41	86.21
Euglena acus	0.00	0.35	0.38	0.34	0.39	86.59
Scenedesmus abundans v. brevicauda	0.00	0.35	0.36	0.37	0.37	86.96
Apedinella radians	0.30	0.00	0.35	0.37	0.36	87.32
Unknown bluegreen sp.	0.36	0.00	0.35	0.43	0.35	87.67
Merismopedia glauca	0.00	0.32	0.33	0.36	0.34	88.02
Nitzschia fruticosa	0.00	0.30	0.33	0.35	0.34	88.36
Scenedesmus sp.	0.27	0.00	0.32	0.29	0.33	88.69
Akistrodesmus sp.	0.28	0.00	0.32	0.27	0.33	89.02
Nitzschia delicatissima	0.31	0.00	0.31	0.20	0.32	89.33
Stephanodiscus sp.	0.00	0.26	0.31	0.34	0.31	89.65

Prorocentrum micans	0.32	0.00	0.30	0.37	0.31	89.95
Unknown diatom sp. 17	0.22	0.00	0.29	0.29	0.30	90.25

Groups 75%Grp5 & 75%Grp1

Average dissimilarity = 97.50

Species	Group 75%Grp5 Av.Abund	Group 75%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	9.98	1.99	10.24	10.24
Unknown diatom sp. D	8.36	0.00	8.00	2.80	8.20	18.44
Unknown Cryptophyte sp.	7.43	0.00	7.47	10.00	7.66	26.10
Skeletonema costatum	5.96	1.15	4.81	3.03	4.94	31.04
Thalassiosira sp.	4.72	0.00	4.80	7.05	4.93	35.97
Unknown diatom sp.	4.70	0.00	4.65	7.18	4.77	40.74
Nitzschia closterium	4.12	0.00	4.28	3.89	4.39	45.13
Pyramimonas sp.	3.83	0.00	3.89	7.77	3.99	49.12
Synechocystis aquaticus Sauvageau	0.00	3.49	3.69	1.69	3.78	52.90
Cryptomonas sp.1	0.00	3.26	3.35	3.36	3.43	56.33
Rhizosolenia fragilissima	2.34	0.00	2.76	0.98	2.83	59.16
Chaetoceros sp.	3.08	0.00	2.70	0.98	2.77	61.93
Gymnodinium sp.	2.63	0.00	2.30	0.98	2.36	64.29
Scenedesmus quadricauda v. Westii	0.00	2.19	2.21	1.38	2.27	66.56
Apedinella radians	1.78	0.00	2.10	0.98	2.15	68.71
Nitzschia pungens	2.29	0.12	2.02	1.02	2.07	70.78
Gonyaulax palustre	0.00	1.82	1.84	1.54	1.89	72.67
Spermatozoopsis exultans	0.00	1.79	1.82	1.35	1.87	74.54
Cerataulina bergonii large	1.50	0.00	1.76	0.98	1.81	76.35
Leptocylindricus minimum	1.88	0.00	1.65	0.98	1.69	78.04
Cryptomonas erosa	0.00	1.46	1.44	1.17	1.48	79.52
Prorocentrum sp.	1.50	0.00	1.31	0.98	1.34	80.87
Peridinium sp.	1.50	0.00	1.31	0.98	1.34	82.21
Chlymentomonas sp.	0.00	1.14	1.13	0.97	1.16	83.36
Rhizosolenia setigera	1.26	0.00	1.10	0.98	1.13	84.49
Navicula sp. large	1.26	0.00	1.10	0.98	1.13	85.62
Leptocylindricus danicus	1.26	0.00	1.10	0.98	1.13	86.75
Cryptomonas ovata	0.00	1.01	1.04	0.88	1.07	87.82
Coelosphaerium sp.	0.00	0.90	0.89	0.59	0.91	88.73
Eutreptiella sp.	0.00	0.80	0.79	0.85	0.81	89.54
Cyclotella sp.	0.00	0.73	0.68	0.66	0.70	90.24

Groups 75%Grp8 & 75%Grp1

Average dissimilarity = 96.57

Species	Group 75%Grp8 Av.Abund	Group 75%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	3.49	6.96	1.48	7.21	7.21
Cryptomonas sp.1	0.00	3.26	6.17	2.54	6.39	13.60
Skeletonema costatum	3.27	1.15	4.91	1.12	5.08	18.69
Scenedesmus quadricauda v. Westii	0.00	2.19	4.03	1.25	4.17	22.85
Unknown pennate diatom sp.	2.07	0.00	3.79	1.66	3.93	26.78
Spermatozoopsis exultans	0.00	1.79	3.35	1.19	3.47	30.24
Gonyaulax palustre	0.00	1.82	3.34	1.43	3.46	33.71
Cyclotella sp.	1.76	0.73	3.30	0.91	3.41	37.12
Cyclotella sp. (small)	1.79	0.00	3.12	0.70	3.23	40.35
Cryptomonas erosa	0.00	1.46	2.57	1.12	2.66	43.01
Cyclotella sp. (large)	1.45	0.00	2.42	0.60	2.50	45.51
Chlymentomonas sp.	0.00	1.14	2.01	0.92	2.08	47.60
Scenedesmus quadracauda	1.15	0.00	1.93	1.07	2.00	49.60
Cryptomonas ovata	0.00	1.01	1.91	0.84	1.98	51.58
Gymnodinium sp.	1.01	0.00	1.87	0.98	1.93	53.51
Schroederia setigera	1.04	0.00	1.71	1.04	1.77	55.28
Thalassiosira pseudonana	1.05	0.00	1.67	0.56	1.73	57.01
Eutreptia sp.	0.88	0.00	1.64	0.95	1.70	58.71
Coelosphaerium sp.	0.00	0.90	1.58	0.56	1.64	60.34
Scenedesmus bijinga	0.90	0.17	1.54	0.86	1.59	61.93
Eutreptiella sp.	0.00	0.80	1.40	0.82	1.45	63.38
Thalassiosira decipiens	0.91	0.00	1.33	0.49	1.38	64.76
Nitzschia longissima	0.78	0.00	1.30	0.92	1.34	66.10
Nitzschia palea	0.00	0.70	1.18	0.80	1.23	67.33
Akistrodesmus falcatus	0.64	0.00	1.05	0.68	1.09	68.42
Unknown flagellate sp. 1	0.00	0.56	1.02	0.58	1.06	69.47
Navicula sp.	0.00	0.48	0.96	0.62	0.99	70.46
Chaetoceros subtilis	0.44	0.16	0.94	0.52	0.98	71.44
Chroococcus minutus	0.00	0.56	0.85	0.43	0.88	72.32
Amphiprora sp.	0.49	0.00	0.84	0.62	0.87	73.20
Actinastrum hantzschii	0.49	0.00	0.81	0.50	0.84	74.04
Bluegreen filamentous sp.	0.41	0.00	0.79	0.60	0.82	74.85
Cyclotella undulata	0.00	0.37	0.71	0.29	0.74	75.59
Melosira sp.	0.36	0.00	0.63	0.50	0.65	76.24
Cyclotella meneghiniana	0.40	0.00	0.61	0.27	0.63	76.87
Dictyosphaerium sp.	0.46	0.00	0.58	0.39	0.60	77.47
Scenedesmus acutus	0.34	0.00	0.58	0.40	0.60	78.07
Euglena acus	0.00	0.35	0.56	0.33	0.58	78.65
Crucigenia sp.	0.22	0.00	0.55	0.50	0.57	79.22

Euglena sp.	0.09	0.21	0.53	0.26	0.55	79.77
Merismopedia punctata	0.29	0.00	0.52	0.37	0.53	80.30
Scenedesmus abundans v. brevicauda	0.00	0.35	0.51	0.37	0.53	80.83
Nitzschia fruticosa	0.00	0.30	0.50	0.34	0.52	81.36
Pleurosigma sp.	0.24	0.00	0.49	0.50	0.51	81.87
Merismopedia glauca	0.00	0.32	0.49	0.36	0.50	82.37
Stephanodiscus sp.	0.00	0.26	0.47	0.34	0.49	82.86
Scenedesmus acuminatus	0.26	0.09	0.46	0.45	0.48	83.34
Melosira nummuloidea	0.25	0.00	0.46	0.40	0.48	83.82
Nitzschia sp.	0.09	0.10	0.41	0.38	0.43	84.25
Cryptomonas curvata	0.00	0.24	0.41	0.40	0.42	84.67
Scenedesmus abundans	0.29	0.00	0.41	0.39	0.42	85.09
Scenedesmus sp.	0.26	0.00	0.39	0.40	0.41	85.50
Spirulina sp.1	0.00	0.24	0.38	0.34	0.39	85.89
Micractinium pusillum	0.30	0.00	0.38	0.37	0.39	86.29
Gymnodinium simplex	0.00	0.20	0.37	0.43	0.38	86.67
Lyngbya contorta (trichome)	0.00	0.25	0.35	0.32	0.37	87.03
Oocystis sp.	0.00	0.27	0.35	0.37	0.37	87.40
Phormidium fragile (trichome)	0.00	0.24	0.35	0.37	0.36	87.76
Kirchneriella sp.	0.11	0.07	0.34	0.33	0.36	88.11
Nitzschia tryblionella	0.00	0.17	0.34	0.36	0.35	88.46
Tetrastrum sp.	0.24	0.00	0.34	0.40	0.35	88.81
Paralia sulcata	0.00	0.20	0.34	0.35	0.35	89.16
Chlamydomonas sp.	0.00	0.25	0.34	0.37	0.35	89.51
Prorocentrum minimum	0.16	0.00	0.33	0.39	0.34	89.85
Tropodoneis lepidoptera	0.19	0.00	0.28	0.27	0.29	90.14

Groups 75%Grp10 & 75%Grp1

Average dissimilarity = 94.65

Species	Group 75%Grp10 Av.Abund	Group 75%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	3.49	7.50	1.53	7.93	7.93
Cryptomonas sp.1	0.00	3.26	6.64	2.76	7.01	14.94
Skeletonema costatum	3.94	1.15	5.79	1.71	6.12	21.06
Chaetoceros subtilis	2.19	0.16	4.71	1.22	4.98	26.04
Scenedesmus quadricauda v. Westii	0.00	2.19	4.32	1.28	4.57	30.61
Spermatozoopsis exultans	0.00	1.79	3.60	1.22	3.80	34.41
Gonyaulax palustre	0.00	1.82	3.59	1.47	3.79	38.20
Cryptomonas erosa	0.00	1.46	2.75	1.14	2.91	41.10
Peridinium aciculiferum	1.12	0.00	2.38	0.85	2.51	43.61
Chlymentomonas sp.	0.00	1.14	2.16	0.93	2.28	45.89

Cryptomonas ovata	0.00	1.01	2.05	0.86	2.17	48.06
Schizothrix sp.	1.06	0.00	1.71	0.57	1.80	49.87
Coelosphaerium sp.	0.00	0.90	1.69	0.57	1.79	51.65
Thalassiosira pseudonana	0.90	0.00	1.67	0.82	1.76	53.41
Cyclotella sp.	0.45	0.73	1.62	0.80	1.72	55.13
Thalassiosira sp.	0.84	0.00	1.62	0.71	1.71	56.84
Eutreptiella sp.	0.00	0.80	1.50	0.83	1.58	58.42
Nitzschia closterium	0.79	0.00	1.42	0.88	1.50	59.92
Nitzschia longissima	0.75	0.00	1.39	0.93	1.47	61.39
Unknown pennate diatom sp.	0.75	0.00	1.36	0.86	1.44	62.83
Leptocylindricus minimum	0.80	0.00	1.28	0.69	1.35	64.18
Nitzschia palea	0.00	0.70	1.27	0.81	1.34	65.51
Chaetoceros socialis	0.70	0.00	1.26	0.76	1.33	66.85
Unknown flagellate sp. 1	0.00	0.56	1.10	0.58	1.16	68.00
Navicula sp.	0.11	0.48	1.09	0.68	1.15	69.15
Schroederia setigera	0.53	0.00	1.08	0.62	1.14	70.29
Eutreptia sp.	0.58	0.00	1.03	0.76	1.08	71.38
Chroococcus minutus	0.00	0.56	0.91	0.43	0.96	72.33
Nitzschia pungens	0.45	0.12	0.88	0.62	0.93	73.27
Cyclotella undulata	0.00	0.37	0.77	0.29	0.81	74.08
Cyclotella sp. (small)	0.35	0.00	0.76	0.32	0.81	74.88
Ceratulina bergonii	0.40	0.00	0.72	0.44	0.76	75.64
Gymnodinium sp.	0.37	0.00	0.71	0.54	0.75	76.39
Euglena sp.	0.14	0.21	0.66	0.29	0.69	77.09
Prorocentrum minimum	0.38	0.00	0.65	0.55	0.68	77.77
Chaetoceros neogracile	0.39	0.00	0.62	0.55	0.66	78.43
Euglena acus	0.00	0.35	0.60	0.34	0.64	79.07
Gonyaulax monilata	0.33	0.00	0.59	0.47	0.63	79.69
Scenedesmus abundans v. brevicauda	0.00	0.35	0.55	0.37	0.58	80.27
Nitzschia fruticosa	0.00	0.30	0.54	0.35	0.57	80.84
Merismopedia glauca	0.00	0.32	0.52	0.36	0.55	81.38
Stephanodiscus sp.	0.00	0.26	0.50	0.34	0.53	81.92
Thalassionema nitzschoides	0.32	0.00	0.50	0.47	0.53	82.45
Gonyaulax spinifera	0.27	0.00	0.50	0.48	0.53	82.98
Scrippsiella sp.	0.29	0.00	0.50	0.47	0.52	83.50
Rhizosolenia setigera	0.28	0.00	0.48	0.48	0.50	84.00
Gonyaulax polygramma	0.21	0.00	0.45	0.40	0.48	84.48
Cryptomonas curvata	0.00	0.24	0.44	0.40	0.46	84.95
Nitzschia sp.	0.11	0.10	0.41	0.43	0.43	85.38
Spirulina sp.1	0.00	0.24	0.41	0.34	0.43	85.81
Gymnodinium simplex	0.00	0.20	0.40	0.43	0.42	86.23
Prorocentrum micans	0.24	0.00	0.38	0.41	0.40	86.63
Lyngbya contorta (trichome)	0.00	0.25	0.38	0.32	0.40	87.03

Oocystis sp.	0.00	0.27	0.37	0.37	0.39	87.42
Phormidium fragile (trichome)	0.00	0.24	0.37	0.37	0.39	87.81
Nitzschia tryblionella	0.00	0.17	0.36	0.36	0.38	88.19
Paralia sulcata	0.00	0.20	0.36	0.35	0.38	88.57
Peridinium sp.	0.20	0.00	0.36	0.39	0.38	88.95
Chlamydomonas sp.	0.00	0.25	0.35	0.37	0.37	89.32
Ceratium hircus	0.22	0.00	0.34	0.30	0.36	89.69
Melosira granulata	0.00	0.18	0.30	0.35	0.32	90.00

Groups 75%Grp12 & 75%Grp1

Average dissimilarity = 94.73

Species	Group 75%Grp12 Av.Abund	Group 75%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	3.49	6.97	1.65	7.36	7.36
Cryptomonas sp.1	0.00	3.26	6.20	3.28	6.54	13.90
Skeletonema costatum	4.06	1.15	5.58	1.72	5.89	19.79
Chaetoceros subtilis	2.80	0.16	5.16	1.53	5.45	25.24
Scenedesmus quadricauda v. Westii	0.00	2.19	4.05	1.35	4.27	29.52
Gonyaulax palustre	0.00	1.82	3.36	1.54	3.55	33.07
Spermatozoopsis exultans	0.00	1.79	3.36	1.29	3.55	36.61
Cyclotella sp. (small)	1.40	0.00	2.59	0.68	2.73	39.35
Cryptomonas erosa	0.00	1.46	2.59	1.18	2.73	42.08
Schroederia setigera	1.25	0.00	2.29	1.43	2.42	44.49
Thalassiosira pseudonana	1.15	0.00	2.12	0.70	2.24	46.74
Peridinium aciculiferum	1.07	0.00	2.09	0.71	2.21	48.94
Cyclotella sp.	0.79	0.73	2.07	0.82	2.19	51.13
Chlymentomonas sp.	0.00	1.14	2.03	0.96	2.14	53.27
Cryptomonas ovata	0.00	1.01	1.92	0.88	2.03	55.30
Gymnodinium sp.	1.06	0.00	1.91	0.82	2.02	57.32
Nitzschia longissima	0.91	0.00	1.75	1.21	1.84	59.16
Coelosphaerium sp.	0.00	0.90	1.59	0.58	1.68	60.84
Eutreptiella sp.	0.00	0.80	1.41	0.85	1.49	62.32
Schizothrix sp.	0.71	0.00	1.39	0.47	1.46	63.79
Unknown pennate diatom sp.	0.72	0.00	1.35	0.72	1.42	65.21
Scenedesmus quadracauda	0.73	0.00	1.33	0.81	1.40	66.61
Nitzschia palea	0.00	0.70	1.19	0.83	1.26	67.87
Thalassiosira decipiens	0.59	0.00	1.08	0.73	1.14	69.01
Euglena sp.	0.38	0.21	1.07	0.47	1.13	70.14
Unknown flagellate sp. 1	0.00	0.56	1.03	0.60	1.08	71.22
Gonyaulax polygramma	0.53	0.00	1.02	0.67	1.07	72.29
Navicula sp.	0.00	0.48	0.96	0.65	1.01	73.30

Scenedesmus bijinga	0.43	0.17	0.91	0.57	0.96	74.26
Chroococcus minutus	0.00	0.56	0.86	0.44	0.91	75.18
Akistrodesmus falcatus	0.46	0.00	0.79	0.56	0.84	76.01
Eutreptia sp.	0.42	0.00	0.76	0.58	0.80	76.81
Nitzschia closterium	0.40	0.00	0.73	0.59	0.78	77.59
Cyclotella undulata	0.00	0.37	0.72	0.30	0.76	78.35
Peridinium sp.	0.41	0.00	0.69	0.55	0.73	79.08
Euglena acus	0.00	0.35	0.57	0.34	0.60	79.68
Scenedesmus acuminatus	0.24	0.09	0.55	0.47	0.58	80.25
Nitzschia pungens	0.21	0.12	0.53	0.51	0.56	80.81
Thalassiosira sp.	0.31	0.00	0.52	0.48	0.55	81.37
Scenedesmus abundans v. brevicauda	0.00	0.35	0.52	0.37	0.55	81.92
Nitzschia fruticosa	0.00	0.30	0.51	0.35	0.54	82.45
Prorocentrum minimum	0.29	0.00	0.50	0.50	0.52	82.98
Merismopedia glauca	0.00	0.32	0.49	0.37	0.52	83.50
Leptocylindricus minimum	0.29	0.00	0.48	0.40	0.50	84.00
Stephanodiscus sp.	0.00	0.26	0.47	0.35	0.50	84.50
Merismopedia punctata	0.23	0.00	0.47	0.33	0.49	85.00
Nostoc sp.(trichomes)	0.21	0.00	0.44	0.42	0.46	85.46
Cryptomonas curvata	0.00	0.24	0.41	0.41	0.44	85.90
Spirulina sp.1	0.00	0.24	0.38	0.34	0.41	86.30
Gymnodinium simplex	0.00	0.20	0.37	0.44	0.39	86.69
Bacillaria paradoxa	0.13	0.09	0.36	0.31	0.38	87.08
Lyngbya contorta (trichome)	0.00	0.25	0.36	0.32	0.38	87.46
Oocystis sp.	0.00	0.27	0.36	0.37	0.38	87.83
Scrippsiella sp.	0.18	0.00	0.36	0.33	0.38	88.21
Phormidium fragile (trichome)	0.00	0.24	0.35	0.37	0.37	88.58
Leptocylindricus danicus	0.20	0.00	0.35	0.33	0.37	88.95
Chlamydomonas sp.	0.00	0.25	0.34	0.37	0.36	89.30
Nitzschia tryblionella	0.00	0.17	0.34	0.37	0.36	89.66
Paralia sulcata	0.00	0.20	0.34	0.36	0.36	90.02

Groups 75%Grp13 & 75%Grp1

Average dissimilarity = 95.46

Species	Group 75%Grp13 Av.Abund	Group 75%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.90	1.15	8.61	1.44	9.02	9.02
Synechocystis aquaticus Sauvageau	0.00	3.49	6.60	1.51	6.92	15.94
Cryptomonas sp.1	0.00	3.26	5.87	2.66	6.15	22.09
Scenedesmus quadricauda v. Westii	0.00	2.19	3.83	1.28	4.02	26.10
Gonyaulax palustre	0.00	1.82	3.19	1.45	3.34	29.44

Spermatozoopsis exultans	0.00	1.79	3.18	1.22	3.34	32.78
Prorocentrum minimum	1.59	0.00	2.60	0.96	2.72	35.50
Thalassiosira pseudonana	1.56	0.00	2.50	0.82	2.62	38.12
Cryptomonas erosa	0.00	1.46	2.45	1.13	2.57	40.69
Eutreptia sp.	1.43	0.00	2.33	0.98	2.44	43.14
Thalassiosira sp.	1.38	0.00	2.31	0.64	2.42	45.55
Cyclotella sp.	0.83	0.73	1.94	0.79	2.03	47.59
Chlymentomonas sp.	0.00	1.14	1.92	0.93	2.01	49.60
Cryptomonas ovata	0.00	1.01	1.82	0.85	1.90	51.50
Chaetoceros subtilis	0.83	0.16	1.54	0.73	1.61	53.12
Coelosphaerium sp.	0.00	0.90	1.51	0.57	1.58	54.70
Schroederia setigera	0.82	0.00	1.44	0.89	1.51	56.20
Peridinium aciculiferum	0.84	0.00	1.41	0.81	1.48	57.68
Euglena sp.	0.69	0.21	1.40	0.48	1.47	59.15
Eutreptiella sp.	0.00	0.80	1.34	0.82	1.40	60.55
Thalassiosira decipiens	0.84	0.00	1.33	0.77	1.39	61.94
Unknown pennate diatom sp.	0.81	0.00	1.30	0.68	1.37	63.30
Nitzschia longissima	0.74	0.00	1.24	0.96	1.30	64.60
Leptocylindricus minimum	0.75	0.00	1.13	0.57	1.19	65.78
Nitzschia palea	0.00	0.70	1.13	0.81	1.19	66.97
Scrippsiella sp.	0.59	0.00	1.04	0.64	1.09	68.06
Nitzschia closterium	0.62	0.00	1.00	0.89	1.04	69.11
Ceratulina bergonii	0.53	0.00	0.98	0.42	1.02	70.13
Unknown flagellate sp. 1	0.00	0.56	0.97	0.58	1.02	71.15
Navicula sp.	0.00	0.48	0.90	0.63	0.95	72.10
Merismopedia punctata	0.54	0.00	0.85	0.45	0.89	72.98
Gymnodinium sp.	0.53	0.00	0.84	0.69	0.88	73.86
Chroococcus minutus	0.00	0.56	0.82	0.43	0.86	74.73
Schizothrix sp.	0.49	0.00	0.78	0.42	0.81	75.54
Scenedesmus quadracauda	0.46	0.00	0.68	0.48	0.71	76.25
Cyclotella undulata	0.00	0.37	0.68	0.29	0.71	76.96
Akistrodesmus falcatus	0.43	0.00	0.67	0.54	0.71	77.67
Crucigenia sp.	0.38	0.00	0.60	0.48	0.63	78.30
Chaetoceros neogracile	0.31	0.00	0.57	0.51	0.59	78.89
Scenedesmus bijinga	0.28	0.17	0.56	0.52	0.58	79.47
Euglena acus	0.00	0.35	0.54	0.34	0.57	80.04
Pyramimonas sp.	0.33	0.00	0.52	0.35	0.54	80.58
Scenedesmus abundans v. brevicauda	0.00	0.35	0.50	0.37	0.52	81.10
Nitzschia fruticosa	0.00	0.30	0.48	0.35	0.50	81.60
Merismopedia glauca	0.00	0.32	0.47	0.36	0.49	82.09
Nostoc sp.(trichomes)	0.27	0.00	0.45	0.42	0.48	82.57
Stephanodiscus sp.	0.00	0.26	0.45	0.34	0.47	83.04
Peridinium sp.	0.31	0.00	0.44	0.55	0.47	83.51

Oocystis sp.	0.08	0.27	0.44	0.42	0.46	83.96
Chaetoceros socialis	0.28	0.00	0.42	0.36	0.44	84.41
Scenedesmus acuminatus	0.19	0.09	0.39	0.40	0.41	84.82
Cryptomonas curvata	0.00	0.24	0.39	0.40	0.41	85.23
Thalassionema nitzschoides	0.20	0.00	0.39	0.33	0.41	85.64
Spirulina sp.1	0.00	0.24	0.37	0.34	0.38	86.02
Gymnodinium simplex	0.00	0.20	0.35	0.43	0.37	86.39
Lyngbya contorta (trichome)	0.00	0.25	0.34	0.32	0.36	86.75
Nitzschia pungens	0.12	0.12	0.34	0.41	0.36	87.11
Phormidium fragile (trichome)	0.00	0.24	0.33	0.37	0.35	87.46
Bluegreen filamentous sp.	0.21	0.00	0.33	0.42	0.34	87.80
Chlamydomonas sp.	0.00	0.25	0.32	0.37	0.34	88.14
Paralia sulcata	0.00	0.20	0.32	0.35	0.34	88.47
Nitzschia tryblionella	0.00	0.17	0.32	0.36	0.34	88.81
Melosira granulata	0.00	0.18	0.27	0.35	0.28	89.09
Merismopedia sp.	0.00	0.20	0.26	0.30	0.27	89.37
Mallomonas acaroides	0.00	0.16	0.26	0.29	0.27	89.64
Gonyaulax polygramma	0.15	0.00	0.25	0.36	0.26	89.90
Rhizosolenia setigera	0.16	0.00	0.24	0.27	0.25	90.15

Groups 75%Grp9 & 75%Grp1

Average dissimilarity = 96.94

Species	Group 75%Grp9 Av.Abund	Group 75%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	3.49	6.29	1.33	6.49	6.49
Skeletonema costatum	5.07	1.15	6.14	1.51	6.33	12.82
Cryptomonas sp.1	0.00	3.26	5.59	2.07	5.76	18.58
Scenedesmus quadricauda v. Westii	0.00	2.19	3.65	1.16	3.76	22.34
Schizothrix sp.	2.14	0.00	3.14	0.68	3.24	25.58
Spermatozoopsis exultans	0.00	1.79	3.03	1.10	3.13	28.71
Gonyaulax palustre	0.00	1.82	3.03	1.31	3.12	31.83
Thalassionema nitzschoides	1.63	0.00	2.70	0.70	2.78	34.61
Cryptomonas erosa	0.00	1.46	2.33	1.05	2.40	37.02
Ceratulina bergonii	1.39	0.00	2.22	0.75	2.29	39.31
Leptocylindricus minimum	1.63	0.00	2.03	1.11	2.09	41.40
Chlymentomonas sp.	0.00	1.14	1.83	0.87	1.88	43.29
Chaetoceros socialis	1.47	0.00	1.75	0.82	1.80	45.09
Cryptomonas ovata	0.00	1.01	1.73	0.80	1.78	46.87
Nitzschia closterium	1.37	0.00	1.72	0.81	1.78	48.65
Chaetoceros neogracile	1.24	0.00	1.70	0.88	1.75	50.40
Unknown pennate diatom sp.	1.09	0.00	1.65	0.84	1.70	52.10

Nitzschia pungens	1.11	0.12	1.47	0.74	1.52	53.62
Coelosphaerium sp.	0.00	0.90	1.43	0.54	1.48	55.10
Prorocentrum micans	0.97	0.00	1.43	0.98	1.48	56.57
Rhizosolenia setigera	0.93	0.00	1.37	0.78	1.41	57.98
Thalassiosira sp.	0.93	0.00	1.31	0.64	1.35	59.34
Eutreptiella sp.	0.00	0.80	1.27	0.78	1.31	60.65
Nitzschia palea	0.00	0.70	1.08	0.77	1.11	61.76
Cyclotella sp.	0.00	0.73	1.07	0.62	1.10	62.86
Ceratium hircus	0.73	0.00	1.03	0.84	1.06	63.92
Asterionella glacialis	0.87	0.00	1.01	0.67	1.04	64.96
Chaetoceros compressum	0.87	0.00	1.01	0.66	1.04	66.00
Thalassiosira decipiens	0.64	0.00	0.98	0.60	1.01	67.02
Navicula sp.	0.15	0.48	0.94	0.66	0.97	67.98
Chaetoceros sp.	0.56	0.00	0.94	0.34	0.97	68.95
Unknown flagellate sp. 1	0.00	0.56	0.93	0.55	0.95	69.91
Prorocentrum minimum	0.72	0.00	0.88	0.94	0.91	70.81
Chaetoceros subtilis	0.59	0.16	0.81	0.53	0.84	71.65
Chroococcus minutus	0.00	0.56	0.78	0.42	0.80	72.45
Nitzschia longissima	0.64	0.00	0.77	0.86	0.79	73.25
Peridinium sp.	0.41	0.00	0.71	0.53	0.73	73.98
Melosira sp.	0.26	0.00	0.65	0.32	0.67	74.65
Cyclotella undulata	0.00	0.37	0.65	0.28	0.67	75.31
Leptocylindricus danicus	0.46	0.00	0.56	0.59	0.58	75.89
Amphora sp.	0.41	0.00	0.55	0.42	0.57	76.46
Euglena acus	0.00	0.35	0.51	0.33	0.53	76.99
Scenedesmus abundans v. brevicauda	0.00	0.35	0.47	0.36	0.49	77.48
Nitzschia fruticosa	0.00	0.30	0.46	0.33	0.47	77.95
Merismopedia glauca	0.00	0.32	0.44	0.35	0.46	78.41
Thalassiosira pseudonana	0.37	0.00	0.43	0.39	0.44	78.85
Stephanodiscus sp.	0.00	0.26	0.43	0.33	0.44	79.29
Chaetoceros curvisetus	0.43	0.00	0.41	0.33	0.42	79.72
Pleurosigma sp.	0.27	0.00	0.41	0.46	0.42	80.14
Gonyaulax polygramma	0.22	0.00	0.41	0.35	0.42	80.56
Thalassiosira oestrupii	0.30	0.00	0.39	0.50	0.40	80.96
Chaetoceros lorenzianum	0.32	0.00	0.39	0.43	0.40	81.36
Euglena sp.	0.00	0.21	0.38	0.20	0.39	81.74
Cryptomonas curvata	0.00	0.24	0.37	0.39	0.38	82.13
Gonyaulax monilata	0.19	0.00	0.35	0.35	0.36	82.49
Peridinium tuba	0.27	0.00	0.35	0.48	0.36	82.85
Spirulina sp.1	0.00	0.24	0.35	0.33	0.36	83.21
Gymnodinium simplex	0.00	0.20	0.33	0.41	0.34	83.55
Rhizosolenia delicatula	0.26	0.00	0.33	0.42	0.34	83.89
Lyngbya contorta (trichome)	0.00	0.25	0.33	0.31	0.34	84.23

Oocystis sp.	0.00	0.27	0.32	0.36	0.33	84.56
Gymnodinium sp.	0.25	0.00	0.32	0.50	0.33	84.90
Phormidium fragile (trichome)	0.00	0.24	0.32	0.36	0.33	85.22
Chlamydomonas sp.	0.00	0.25	0.31	0.36	0.32	85.54
Scrippsiella sp.	0.24	0.00	0.31	0.43	0.32	85.85
Nitzschia tryblionella	0.00	0.17	0.31	0.34	0.31	86.17
Paralia sulcata	0.00	0.20	0.30	0.34	0.31	86.48
Thalassiothrix frauenfeldianum	0.18	0.00	0.30	0.32	0.31	86.80
Scenedesmus bijinga	0.06	0.17	0.30	0.35	0.31	87.10
Gonyaulax digitalis	0.20	0.00	0.29	0.30	0.30	87.40
Rhizosolenia calcar-avis	0.22	0.00	0.29	0.41	0.30	87.70
Coscinosira polychorda	0.21	0.00	0.28	0.36	0.29	87.99
Melosira granulata	0.00	0.18	0.26	0.34	0.27	88.25
Eutreptia sp.	0.14	0.00	0.26	0.26	0.26	88.52
Nitzschia sp.	0.05	0.10	0.25	0.34	0.26	88.78
Merismopedia sp.	0.00	0.20	0.25	0.29	0.26	89.03
Hemiaulis hauckii	0.20	0.00	0.25	0.36	0.26	89.29
Mallomonas acaroides	0.00	0.16	0.25	0.29	0.25	89.54
Nostoc sp.(trichomes)	0.17	0.00	0.24	0.34	0.25	89.79
Coscinodiscus sp.	0.10	0.00	0.24	0.26	0.25	90.04

Groups 75%Grp11 & 75%Grp1

Average dissimilarity = 95.10

Species	Group 75%Grp11 Av.Abund	Group 75%Grp1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	3.49	7.73	1.53	8.13	8.13
Cryptomonas sp.1	0.00	3.26	6.83	2.75	7.18	15.31
Skeletonema costatum	4.09	1.15	6.20	1.64	6.52	21.84
Scenedesmus quadricauda v. Westii	0.00	2.19	4.44	1.28	4.67	26.51
Spermatozoopsis exultans	0.00	1.79	3.70	1.21	3.89	30.40
Gonyaulax palustre	0.00	1.82	3.69	1.47	3.88	34.28
Nitzschia closterium	1.55	0.00	2.91	1.55	3.06	37.34
Cryptomonas erosa	0.00	1.46	2.82	1.14	2.97	40.31
Chlymentomonas sp.	0.00	1.14	2.22	0.93	2.33	42.64
Cryptomonas ovata	0.00	1.01	2.11	0.86	2.22	44.85
Chaetoceros subtilis	0.83	0.16	2.04	0.66	2.14	47.00
Chaetoceros socialis	0.99	0.00	1.76	0.88	1.85	48.84
Peridinium aciculiferum	0.79	0.00	1.75	0.79	1.84	50.69
Leptocylindricus minimum	0.93	0.00	1.75	0.86	1.84	52.53
Coelosphaerium sp.	0.00	0.90	1.74	0.57	1.83	54.35
Eutreptiella sp.	0.00	0.80	1.54	0.83	1.61	55.97

Unknown pennate diatom sp.	0.84	0.00	1.49	0.80	1.56	57.53
Cyclotella sp.	0.17	0.73	1.45	0.73	1.52	59.05
Schizothrix sp.	0.67	0.00	1.31	0.43	1.38	60.43
Nitzschia palea	0.00	0.70	1.30	0.81	1.37	61.80
Ceratulina bergonii	0.59	0.00	1.29	0.42	1.36	63.15
Chaetoceros neogracile	0.63	0.00	1.15	0.64	1.20	64.36
Unknown flagellate sp. 1	0.00	0.56	1.13	0.58	1.18	65.54
Rhizosolenia setigera	0.54	0.00	1.09	0.66	1.15	66.69
Navicula sp.	0.06	0.48	1.09	0.65	1.15	67.84
Nitzschia longissima	0.53	0.00	1.02	0.80	1.07	68.91
Thalassionema nitzschoides	0.48	0.00	0.93	0.57	0.98	69.89
Chroococcus minutus	0.00	0.56	0.93	0.43	0.98	70.86
Thalassiosira pseudonana	0.51	0.00	0.85	0.64	0.90	71.76
Euglena sp.	0.26	0.21	0.85	0.35	0.89	72.65
Cyclotella undulata	0.00	0.37	0.79	0.29	0.83	73.48
Thalassiosira sp.	0.36	0.00	0.77	0.39	0.81	74.29
Nitzschia pungens	0.30	0.12	0.70	0.49	0.74	75.03
Peridinium sp.	0.32	0.00	0.64	0.42	0.67	75.69
Chaetoceros compressum	0.31	0.00	0.62	0.40	0.65	76.34
Euglena acus	0.00	0.35	0.62	0.34	0.65	76.99
Prorocentrum minimum	0.35	0.00	0.59	0.55	0.62	77.62
Gonyaulax polygramma	0.27	0.00	0.59	0.41	0.62	78.24
Asterionella glacialis	0.35	0.00	0.59	0.42	0.62	78.85
Scenedesmus abundans v. brevicauda	0.00	0.35	0.56	0.37	0.59	79.44
Gymnodinium sp.	0.30	0.00	0.56	0.47	0.58	80.03
Nitzschia fruticosa	0.00	0.30	0.55	0.34	0.58	80.61
Eutreptia sp.	0.31	0.00	0.55	0.49	0.57	81.18
Merismopedia glauca	0.00	0.32	0.53	0.36	0.56	81.74
Stephanodiscus sp.	0.00	0.26	0.52	0.34	0.54	82.28
Cryptomonas curvata	0.00	0.24	0.45	0.40	0.47	82.76
Prorocentrum micans	0.25	0.00	0.42	0.39	0.44	83.20
Spirulina sp.1	0.00	0.24	0.42	0.34	0.44	83.64
Gymnodinium simplex	0.00	0.20	0.41	0.43	0.43	84.06
Thalassiosira oestrupii	0.23	0.00	0.39	0.42	0.41	84.48
Lyngbya contorta (trichome)	0.00	0.25	0.38	0.32	0.40	84.88
Oocystis sp.	0.00	0.27	0.38	0.37	0.40	85.28
Nitzschia tryblionella	0.00	0.17	0.38	0.36	0.39	85.67
Phormidium fragile (trichome)	0.00	0.24	0.37	0.37	0.39	86.07
Paralia sulcata	0.00	0.20	0.37	0.35	0.39	86.45
Chlamydomonas sp.	0.00	0.25	0.36	0.37	0.38	86.83
Cyclotella sp. (small)	0.15	0.00	0.35	0.23	0.36	87.20
Amphora sp.	0.21	0.00	0.33	0.42	0.34	87.54
Melosira granulata	0.00	0.18	0.31	0.35	0.32	87.87

Mallomonas acaroides	0.00	0.16	0.30	0.30	0.31	88.18
Scrippsiella sp.	0.19	0.00	0.29	0.42	0.31	88.48
Merismopedia sp.	0.00	0.20	0.29	0.30	0.31	88.79
Oscillatoria rubescens (trichome)	0.00	0.15	0.27	0.30	0.28	89.07
Ceratium hircus	0.14	0.00	0.27	0.31	0.28	89.35
Thalassiosira decipiens	0.12	0.00	0.27	0.31	0.28	89.64
Leptocylindricus danicus	0.15	0.00	0.26	0.33	0.27	89.90
Scenedesmus acuminatus	0.08	0.09	0.25	0.31	0.26	90.17

Groups 75%Grp4 & 75%Grp3

Average dissimilarity = 98.89

Species	Group 75%Grp4 Av.Abund	Group 75%Grp3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	8.76	1.60	8.86	8.86
Skeletonema costatum	0.16	3.76	6.78	1.76	6.86	15.72
Unknown diatom sp.	3.09	0.00	5.56	2.35	5.62	21.33
Cryptomonas sp.1	0.00	2.99	5.47	2.13	5.53	26.86
Synechocystis aquaticus Sauvageau	0.00	2.77	5.04	1.52	5.10	31.96
Unknown diatom sp. D	2.34	0.00	4.09	1.57	4.14	36.10
Thalassiosira sp.	2.01	0.00	3.58	1.90	3.62	39.72
Prorocentrum micans	1.61	0.22	3.31	0.59	3.35	43.07
Unknown Dinoflagellate sp.	1.73	0.00	3.19	0.96	3.22	46.29
Scenedesmus sp.	1.47	0.00	2.46	1.14	2.49	48.78
Navicula sp. small	1.23	0.00	2.24	0.84	2.27	51.05
Chlymentomonas sp.	0.00	0.99	1.80	0.83	1.82	52.87
Gymnodinium splendens	0.00	0.94	1.75	0.57	1.77	54.63
Eutreptiella sp.	0.35	0.78	1.61	0.83	1.63	56.26
Peridinium cerasus	0.00	0.90	1.59	0.65	1.61	57.88
Coscinodiscus sp.	0.83	0.00	1.55	0.57	1.56	59.44
Unknown bluegreen sp.	0.83	0.00	1.49	0.90	1.51	60.95
Pyramimonas sp.	0.84	0.00	1.42	0.83	1.44	62.38
Nitzschia pungens	0.80	0.03	1.39	0.80	1.40	63.78
Cryptomonas ovata	0.00	0.76	1.33	0.76	1.34	65.13
Spermatozoopsis exultans	0.00	0.77	1.31	0.81	1.32	66.45
Tetraedron sp.	0.82	0.00	1.30	0.75	1.31	67.76
Navicula sp. large	0.66	0.00	1.29	0.64	1.31	69.07
Gonyaulax palustre	0.00	0.72	1.25	0.75	1.26	70.33
Akistrodesmus sp.	0.76	0.00	1.21	0.57	1.22	71.55
Chroococcus minutus	0.00	0.70	1.20	0.43	1.22	72.77
Gymnodinium simplex	0.00	0.62	1.12	0.65	1.14	73.90
Leptocylindricus minimum	0.61	0.00	1.09	0.65	1.10	75.00

Cyclotella sp.	0.00	0.55	0.96	0.58	0.97	75.98
Nitzschia sp.	0.38	0.10	0.89	0.44	0.90	76.88
Unknown flagellate sp. 1	0.00	0.50	0.87	0.57	0.88	77.76
Cryptomonas erosa	0.00	0.49	0.83	0.61	0.84	78.60
Prorocentrum sp.	0.45	0.00	0.80	0.38	0.81	79.40
Calycomonas ovalis	0.00	0.45	0.79	0.44	0.80	80.20
Ceratium hircus	0.00	0.38	0.71	0.45	0.72	80.92
Schizothrix calcicola	0.48	0.00	0.70	0.58	0.71	81.63
Eutreptia sp.	0.37	0.00	0.70	0.35	0.71	82.34
Thalassionema nitzschoides	0.35	0.05	0.64	0.51	0.65	82.99
Scenedesmus quadricauda v. Westii	0.00	0.39	0.63	0.50	0.64	83.63
Prorocentrum redfieldi	0.40	0.00	0.63	0.36	0.64	84.27
Chaetoceros subtilis	0.00	0.33	0.59	0.42	0.59	84.86
Leptocylindricus danicus	0.27	0.00	0.58	0.39	0.59	85.45
Trichodesmium sp.	0.38	0.00	0.58	0.38	0.58	86.03
Aphanocapsa sp.	0.36	0.00	0.54	0.39	0.54	86.58
Chroococcus sp.	0.32	0.00	0.47	0.38	0.47	87.05
Oscillatoria sp.	0.32	0.00	0.47	0.39	0.47	87.52
Nitzschia closterium	0.20	0.08	0.40	0.35	0.40	87.92
Unknown diatom sp. A	0.20	0.00	0.36	0.26	0.36	88.29
Actinastrum sp.	0.18	0.00	0.35	0.36	0.36	88.65
Merismopedia sp.	0.18	0.07	0.34	0.30	0.35	88.99
Unknown diatom sp. 17	0.20	0.00	0.34	0.39	0.34	89.34
Coelosphaerium sp.	0.00	0.21	0.34	0.29	0.34	89.68
Chaetoceros decipiens	0.00	0.18	0.32	0.29	0.32	90.00

Groups 75%Grp7 & 75%Grp3

Average dissimilarity = 94.51

Species	Group 75%Grp7 Av.Abund	Group 75%Grp3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	8.99	1.58	9.51	9.51
Unknown Cryptophyte sp.	6.29	0.00	8.79	2.25	9.30	18.81
Skeletonema costatum	3.34	3.76	4.83	1.30	5.11	23.93
Thalassiosira sp.	3.51	0.00	4.65	1.06	4.92	28.85
Unknown diatom sp.	3.30	0.00	4.37	1.63	4.62	33.47
Unknown Dinoflagellate sp.	3.01	0.00	4.25	1.26	4.50	37.97
Cryptomonas sp.1	0.00	2.99	4.24	2.04	4.49	42.45
Synechocystis aquaticus Sauvageau	0.00	2.77	3.92	1.47	4.15	46.60
Prorocentrum minimum	1.60	0.00	2.42	0.35	2.56	49.15
Peridinium sp.	1.80	0.00	2.22	0.75	2.35	51.50
Pyramimonas sp.	1.63	0.00	2.03	0.92	2.15	53.65

Eutreptiella sp.	0.69	0.78	1.72	0.64	1.82	55.47
Eutreptia sp.	1.21	0.00	1.71	0.49	1.81	57.29
Skeletonema menezelli	1.46	0.00	1.63	0.34	1.73	59.02
Chaetoceros sp.	1.28	0.00	1.49	0.61	1.57	60.59
Chlymentomonas sp.	0.00	0.99	1.39	0.82	1.48	62.06
Gymnodinium splendens	0.00	0.94	1.35	0.57	1.43	63.49
Nitzschia closterium	0.92	0.08	1.27	0.70	1.34	64.83
Peridinium cerasus	0.00	0.90	1.24	0.64	1.32	66.15
Nitzschia pungens	0.82	0.03	1.07	0.57	1.13	67.28
Cryptomonas ovata	0.00	0.76	1.04	0.75	1.10	68.38
Spermatozoopsis exultans	0.00	0.77	1.03	0.79	1.09	69.47
Prorocentrum sp.	0.77	0.00	1.03	0.33	1.09	70.56
Gonyaulax palustre	0.00	0.72	0.98	0.74	1.04	71.60
Chroococcus minutus	0.00	0.70	0.94	0.43	1.00	72.60
Ceratium hircus	0.36	0.38	0.90	0.56	0.95	73.55
Gymnodinium simplex	0.00	0.62	0.87	0.64	0.92	74.47
Unknown Katodinium sp.	0.54	0.00	0.85	0.29	0.90	75.37
Leptocylicus minimum	0.72	0.00	0.83	0.54	0.88	76.26
Scenedesmus sp.	0.60	0.00	0.78	0.44	0.82	77.08
Cyclotella sp.	0.00	0.55	0.75	0.57	0.80	77.87
Prorocentrum micans	0.34	0.22	0.75	0.36	0.79	78.67
Rhizosolenia setigera	0.51	0.16	0.72	0.58	0.76	79.42
Leptocylicus danicus	0.65	0.00	0.71	0.35	0.75	80.17
Unknown flagellate sp. 1	0.00	0.50	0.68	0.57	0.72	80.89
Cryptomonas erosa	0.00	0.49	0.65	0.61	0.69	81.58
Apedinella radians	0.50	0.00	0.65	0.44	0.69	82.27
Glenodinium sp.	0.50	0.00	0.64	0.30	0.68	82.95
Navicula sp. large	0.47	0.00	0.63	0.44	0.66	83.61
Calycomonas ovalis	0.00	0.45	0.62	0.43	0.66	84.27
Chaetoceros subtilis	0.16	0.33	0.61	0.40	0.65	84.92
Unknown diatom sp. A	0.52	0.00	0.61	0.33	0.65	85.56
Chaetoceros gracile	0.51	0.00	0.61	0.29	0.65	86.21
Minutocellus sp.	0.51	0.00	0.60	0.41	0.63	86.84
Unknown Vegetative cell sp.	0.31	0.00	0.53	0.28	0.56	87.40
Scenedesmus quadricauda v. Westii	0.00	0.39	0.50	0.49	0.53	87.93
Prorocentrum redfieldi	0.41	0.00	0.48	0.19	0.51	88.44
Unknown bluegreen sp.	0.33	0.00	0.46	0.31	0.49	88.93
Chaetoceros muelleri	0.35	0.00	0.45	0.33	0.47	89.41
Coscinodiscus sp.	0.28	0.00	0.41	0.30	0.44	89.85
Aphanocapsa sp.	0.36	0.00	0.40	0.34	0.43	90.27

Groups 75%Grp6 & 75%Grp3

Average dissimilarity = 91.37

Species	Group 75%Grp6 Av.Abund	Group 75%Grp3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.13	0.00	7.29	2.03	7.98	7.98
Unknown Cryptophyte sp.	5.10	0.00	6.75	2.27	7.39	15.37
Skeletonema costatum	7.46	3.76	6.23	1.58	6.82	22.19
Thalassiosira sp.	4.15	0.00	4.82	2.50	5.28	27.47
Nitzschia closterium	3.83	0.08	4.52	2.44	4.95	32.42
Unknown diatom sp.	3.67	0.00	4.41	2.26	4.83	37.25
Cryptomonas sp.1	0.00	2.99	3.85	1.97	4.22	41.46
Synechocystis aquaticus Sauvageau	0.00	2.77	3.56	1.43	3.90	45.36
Nitzschia pungens	2.56	0.03	3.13	1.23	3.42	48.78
Unknown Dinoflagellate sp.	2.35	0.00	2.76	1.30	3.02	51.80
Chaetoceros sp.	2.39	0.00	2.73	1.13	2.98	54.79
Skeletonema menezelli	2.03	0.00	2.00	0.41	2.19	56.98
Pyramimonas sp.	1.39	0.00	1.79	0.79	1.96	58.94
Leptocylindricus minimum	1.46	0.00	1.60	0.76	1.75	60.69
Ceratium hircus	0.95	0.38	1.31	0.66	1.43	62.12
Chlymentomonas sp.	0.00	0.99	1.27	0.81	1.39	63.51
Gymnodinium splendens	0.00	0.94	1.23	0.57	1.34	64.85
Chaetoceros muelleri	1.09	0.00	1.22	0.60	1.33	66.18
Peridinium sp.	1.06	0.00	1.14	0.58	1.25	67.43
Peridinium cerasus	0.00	0.90	1.13	0.64	1.24	68.67
Asterionella japonica	0.98	0.00	1.06	0.57	1.16	69.83
Eutreptiella sp.	0.12	0.78	1.04	0.74	1.14	70.96
Thalassionema nitzschoides	0.96	0.05	1.03	0.62	1.13	72.09
Cryptomonas ovata	0.00	0.76	0.95	0.74	1.04	73.13
Rhizosolenia setigera	0.77	0.16	0.95	0.67	1.04	74.17
Spermatozoopsis exultans	0.00	0.77	0.94	0.79	1.03	75.19
Leptocylindricus danicus	0.69	0.00	0.90	0.52	0.99	76.18
Gonyaulax palustre	0.00	0.72	0.89	0.73	0.98	77.16
Minutocellus sp.	0.83	0.00	0.88	0.54	0.97	78.12
Navicula sp. large	0.73	0.00	0.87	0.60	0.95	79.08
Chroococcus minutus	0.00	0.70	0.86	0.43	0.94	80.02
Gymnodinium simplex	0.00	0.62	0.79	0.63	0.87	80.89
Cyclotella sp.	0.00	0.55	0.69	0.57	0.75	81.64
Chaetoceros subtilis	0.27	0.33	0.68	0.41	0.75	82.39
Prorocentrum sp.	0.58	0.00	0.68	0.41	0.74	83.13
Unknown diatom sp. A	0.58	0.00	0.68	0.42	0.74	83.87
Unknown flagellate sp. 1	0.00	0.50	0.62	0.56	0.68	84.55
Cryptomonas erosa	0.00	0.49	0.60	0.60	0.65	85.20
Calycomonas ovalis	0.00	0.45	0.57	0.43	0.62	85.82

Prorocentrum micans	0.32	0.22	0.54	0.52	0.59	86.41
Navicula sp. small	0.46	0.00	0.49	0.36	0.54	86.95
Scenedesmus quadricauda v. Westii	0.00	0.39	0.46	0.49	0.50	87.45
Chaetoceros gracile	0.36	0.00	0.44	0.20	0.48	87.93
Pyrophacus sp.	0.39	0.00	0.42	0.29	0.46	88.39
Apedinella radians	0.30	0.00	0.37	0.37	0.41	88.80
Aphanocapsa sp.	0.40	0.00	0.37	0.37	0.41	89.21
Unknown bluegreen sp.	0.36	0.00	0.37	0.43	0.40	89.61
Scenedesmus sp.	0.27	0.00	0.34	0.29	0.37	89.98
Akistrodesmus sp.	0.28	0.00	0.34	0.28	0.37	90.36

Groups 75%Grp5 & 75%Grp3

Average dissimilarity = 91.45

Species	Group 75%Grp5 Av.Abund	Group 75%Grp3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	10.63	1.99	11.62	11.62
Unknown diatom sp. D	8.36	0.00	8.46	2.91	9.25	20.87
Unknown Cryptophyte sp.	7.43	0.00	7.93	12.37	8.67	29.54
Thalassiosira sp.	4.72	0.00	5.10	7.48	5.58	35.12
Unknown diatom sp.	4.70	0.00	4.93	8.41	5.39	40.51
Nitzschia closterium	4.12	0.08	4.47	3.67	4.89	45.40
Pyramimonas sp.	3.83	0.00	4.13	8.43	4.51	49.91
Cryptomonas sp.1	0.00	2.99	3.23	2.29	3.54	53.44
Synechocystis aquaticus Sauvageau	0.00	2.77	2.99	1.54	3.27	56.72
Rhizosolenia fragilissima	2.34	0.05	2.94	0.99	3.22	59.94
Chaetoceros sp.	3.08	0.00	2.84	0.99	3.10	63.04
Gymnodinium sp.	2.63	0.00	2.42	0.99	2.65	65.69
Skeletonema costatum	5.96	3.76	2.32	1.21	2.54	68.22
Apedinella radians	1.78	0.00	2.24	0.99	2.45	70.67
Nitzschia pungens	2.29	0.03	2.12	1.00	2.31	72.99
Cerataulina bergonii large	1.50	0.00	1.89	0.99	2.06	75.05
Leptocylicus minimum	1.88	0.00	1.73	0.99	1.89	76.94
Prorocentrum sp.	1.50	0.00	1.38	0.99	1.51	78.45
Peridinium sp.	1.50	0.00	1.38	0.99	1.51	79.96
Rhizosolenia setigera	1.26	0.16	1.18	1.04	1.29	81.25
Navicula sp. large	1.26	0.00	1.16	0.99	1.27	82.52
Leptocylicus danicus	1.26	0.00	1.16	0.99	1.27	83.79
Chlymentomonas sp.	0.00	0.99	1.06	0.85	1.16	84.95
Gymnodinium splendens	0.00	0.94	1.03	0.59	1.12	86.07
Peridinium cerasus	0.00	0.90	0.96	0.66	1.05	87.12
Eutreptiella sp.	0.00	0.78	0.81	0.73	0.89	88.01

Cryptomonas ovata	0.00	0.76	0.80	0.76	0.88	88.88
Spermatozoopsis exultans	0.00	0.77	0.80	0.81	0.87	89.76
Gonyaulax palustre	0.00	0.72	0.76	0.75	0.83	90.58

Groups 75%Grp8 & 75%Grp3

Average dissimilarity = 92.32

Species	Group 75%Grp8 Av.Abund	Group 75%Grp3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	3.76	6.75	1.26	7.31	7.31
Cryptomonas sp.1	0.00	2.99	6.26	1.85	6.78	14.09
Synechocystis aquaticus Sauvageau	0.00	2.77	5.76	1.42	6.24	20.33
Unknown pennate diatom sp.	2.07	0.00	4.24	1.62	4.59	24.92
Cyclotella sp.	1.76	0.55	3.59	0.89	3.89	28.81
Cyclotella sp. (small)	1.79	0.00	3.46	0.71	3.74	32.56
Cyclotella sp. (large)	1.45	0.00	2.66	0.60	2.89	35.44
Scenedesmus quadracauda	1.15	0.00	2.13	1.07	2.31	37.75
Gymnodinium sp.	1.01	0.00	2.08	0.98	2.25	40.00
Chlymentomonas sp.	0.00	0.99	2.06	0.78	2.23	42.23
Gymnodinium splendens	0.00	0.94	2.01	0.54	2.18	44.41
Schroederia setigera	1.04	0.00	1.89	1.04	2.05	46.45
Thalassiosira pseudonana	1.05	0.00	1.84	0.57	1.99	48.44
Eutreptia sp.	0.88	0.00	1.83	0.96	1.98	50.42
Peridinium cerasus	0.00	0.90	1.81	0.62	1.96	52.38
Scenedesmus bijinga	0.90	0.00	1.64	0.83	1.78	54.16
Eutreptiella sp.	0.00	0.78	1.51	0.71	1.64	55.80
Cryptomonas ovata	0.00	0.76	1.50	0.73	1.63	57.43
Spermatozoopsis exultans	0.00	0.77	1.47	0.78	1.60	59.03
Thalassiosira decipiens	0.91	0.00	1.45	0.50	1.57	60.60
Nitzschia longissima	0.78	0.00	1.43	0.92	1.55	62.15
Gonyaulax palustre	0.00	0.72	1.41	0.73	1.53	63.68
Chroococcus minutus	0.00	0.70	1.36	0.42	1.47	65.15
Gymnodinium simplex	0.00	0.62	1.28	0.63	1.39	66.54
Chaetoceros subtilis	0.44	0.33	1.26	0.63	1.37	67.91
Akistrodesmus falcatus	0.64	0.00	1.16	0.67	1.26	69.17
Unknown flagellate sp. 1	0.00	0.50	0.99	0.56	1.08	70.24
Amphiprora sp.	0.49	0.00	0.93	0.62	1.01	71.25
Cryptomonas erosa	0.00	0.49	0.93	0.60	1.01	72.26
Calycomonas ovalis	0.00	0.45	0.90	0.43	0.97	73.23
Actinastrum hantzschii	0.49	0.00	0.89	0.49	0.97	74.20
Bluegreen filamentous sp.	0.41	0.00	0.89	0.60	0.96	75.16
Ceratium hircus	0.00	0.38	0.82	0.43	0.89	76.04

Scenedesmus quadricauda v. Westii	0.00	0.39	0.71	0.49	0.77	76.81
Melosira sp.	0.36	0.00	0.70	0.51	0.76	77.58
Cyclotella meneghiniana	0.40	0.00	0.66	0.28	0.72	78.29
Scenedesmus acutus	0.34	0.00	0.64	0.40	0.69	78.98
Crucigenia sp.	0.22	0.00	0.63	0.50	0.68	79.66
Dictyosphaerium sp.	0.46	0.00	0.62	0.39	0.67	80.34
Merismopedia punctata	0.29	0.00	0.58	0.37	0.62	80.96
Pleurosigma sp.	0.24	0.00	0.56	0.50	0.61	81.57
Melosira nummuloidea	0.25	0.00	0.52	0.40	0.56	82.13
Nitzschia sp.	0.09	0.10	0.51	0.34	0.55	82.68
Scenedesmus abundans	0.29	0.00	0.44	0.39	0.48	83.16
Kirchneriella sp.	0.11	0.09	0.44	0.34	0.48	83.63
Scenedesmus sp.	0.26	0.00	0.43	0.40	0.46	84.10
Prorocentrum micans	0.00	0.22	0.43	0.35	0.46	84.56
Micractinium pusillum	0.30	0.00	0.41	0.38	0.44	85.00
Scenedesmus acuminatus	0.26	0.00	0.40	0.41	0.43	85.43
Coelosphaerium sp.	0.00	0.21	0.38	0.29	0.41	85.83
Prorocentrum minimum	0.16	0.00	0.37	0.39	0.40	86.24
Tetrastrum sp.	0.24	0.00	0.36	0.40	0.39	86.63
Chaetoceros decipiens	0.00	0.18	0.36	0.28	0.39	87.02
Cyclotella undulata	0.00	0.18	0.34	0.27	0.37	87.40
Nitzschia closterium	0.08	0.08	0.34	0.37	0.37	87.76
Chlamydomonas sphagnicola	0.00	0.19	0.33	0.36	0.36	88.12
Tropodineis lepidoptera	0.19	0.00	0.31	0.28	0.33	88.46
Rhizosolenia setigera	0.00	0.16	0.31	0.32	0.33	88.79
Ceratium fusus	0.00	0.14	0.31	0.32	0.33	89.12
Biddulphia sinensis	0.00	0.15	0.30	0.27	0.33	89.45
Unknown chlorophyte sp.	0.18	0.00	0.29	0.28	0.32	89.77
Oscillatoria rubescens (trichome)	0.00	0.17	0.29	0.29	0.31	90.08

Groups 75%Grp10 & 75%Grp3

Average dissimilarity = 84.58

Species	Group 75%Grp10 Av. Abund	Group 75%Grp3 Av. Abund	Av. Diss	Diss/SD	Contrib%	Cum. %
Cryptomonas sp.1	0.00	2.99	6.77	1.95	8.00	8.00
Synechocystis aquaticus Sauvageau	0.00	2.77	6.22	1.47	7.36	15.36
Chaetoceros subtilis	2.19	0.33	5.02	1.16	5.93	21.29
Skeletonema costatum	3.94	3.76	3.95	1.04	4.67	25.96
Peridinium aciculiferum	1.12	0.00	2.69	0.85	3.18	29.15
Chlymentomonas sp.	0.00	0.99	2.22	0.80	2.63	31.77
Gymnodinium splendens	0.00	0.94	2.18	0.55	2.57	34.34

Peridinium cerasus	0.00	0.90	1.95	0.63	2.31	36.65
Schizothrix sp.	1.06	0.00	1.88	0.57	2.22	38.87
Thalassiosira pseudonana	0.90	0.00	1.85	0.82	2.19	41.06
Thalassiosira sp.	0.84	0.00	1.81	0.71	2.14	43.20
Cyclotella sp.	0.45	0.55	1.64	0.74	1.94	45.14
Eutreptiella sp.	0.00	0.78	1.63	0.72	1.93	47.07
Cryptomonas ovata	0.00	0.76	1.62	0.75	1.91	48.98
Nitzschia closterium	0.79	0.08	1.59	0.91	1.88	50.87
Spermatozoopsis exultans	0.00	0.77	1.59	0.80	1.87	52.74
Nitzschia longissima	0.75	0.00	1.55	0.93	1.83	54.57
Gonyaulax palustre	0.00	0.72	1.52	0.74	1.79	56.36
Unknown pennate diatom sp.	0.75	0.00	1.51	0.86	1.78	58.14
Chroococcus minutus	0.00	0.70	1.47	0.43	1.73	59.88
Leptocylindricus minimum	0.80	0.00	1.40	0.69	1.66	61.53
Chaetoceros socialis	0.70	0.00	1.40	0.76	1.65	63.19
Gymnodinium simplex	0.00	0.62	1.39	0.64	1.64	64.83
Schroederia setigera	0.53	0.00	1.21	0.62	1.43	66.26
Ceratium hircus	0.22	0.38	1.15	0.53	1.36	67.62
Eutreptia sp.	0.58	0.00	1.14	0.76	1.34	68.96
Unknown flagellate sp. 1	0.00	0.50	1.07	0.57	1.27	70.23
Cryptomonas erosa	0.00	0.49	1.00	0.61	1.18	71.41
Calycomonas ovalis	0.00	0.45	0.96	0.43	1.14	72.55
Nitzschia pungens	0.45	0.03	0.90	0.57	1.07	73.62
Cyclotella sp. (small)	0.35	0.00	0.86	0.32	1.02	74.64
Gymnodinium sp.	0.37	0.00	0.80	0.53	0.95	75.58
Ceratulina bergonii	0.40	0.00	0.80	0.44	0.94	76.53
Prorocentrum micans	0.24	0.22	0.78	0.53	0.93	77.45
Scenedesmus quadricauda v. Westii	0.00	0.39	0.76	0.49	0.90	78.35
Rhizosolenia setigera	0.28	0.16	0.76	0.57	0.90	79.26
Prorocentrum minimum	0.38	0.00	0.72	0.55	0.85	80.10
Chaetoceros neogracile	0.39	0.00	0.68	0.55	0.81	80.91
Gonyaulax monilata	0.33	0.00	0.66	0.47	0.78	81.68
Thalassionema nitzschoides	0.32	0.05	0.63	0.48	0.75	82.43
Gonyaulax spinifera	0.27	0.00	0.55	0.48	0.65	83.09
Scrippsiella sp.	0.29	0.00	0.55	0.47	0.65	83.74
Chaetoceros decipiens	0.09	0.18	0.54	0.36	0.64	84.37
Gonyaulax polygramma	0.21	0.00	0.51	0.40	0.61	84.98
Nitzschia sp.	0.11	0.10	0.50	0.35	0.59	85.57
Crucigenia fenestrata	0.07	0.13	0.41	0.27	0.49	86.06
Coelosphaerium sp.	0.00	0.21	0.40	0.29	0.48	86.53
Peridinium sp.	0.20	0.00	0.40	0.39	0.47	87.00
Navicula sp.	0.11	0.11	0.38	0.43	0.45	87.45
Cyclotella undulata	0.00	0.18	0.37	0.27	0.44	87.89

Chlamydomonas sphagnicola	0.00	0.19	0.36	0.37	0.42	88.31
Scenedesmus quadricauda	0.16	0.00	0.33	0.33	0.39	88.70
Ceratium fusus	0.00	0.14	0.33	0.32	0.39	89.09
Leptocylindricus danicus	0.18	0.00	0.32	0.33	0.38	89.48
Biddulphia sinensis	0.00	0.15	0.32	0.27	0.38	89.86
Oscillatoria rubescens (trichome)	0.00	0.17	0.31	0.29	0.37	90.23

Groups 75%Grp12 & 75%Grp3

Average dissimilarity = 85.88

Species	Group 75%Grp12 Av.Abund	Group 75%Grp3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Cryptomonas sp.1	0.00	2.99	6.25	2.20	7.28	7.28
Synechocystis aquaticus Sauvageau	0.00	2.77	5.76	1.57	6.71	13.99
Chaetoceros subtilis	2.80	0.33	5.44	1.49	6.34	20.33
Skeletonema costatum	4.06	3.76	3.85	1.28	4.49	24.82
Cyclotella sp. (small)	1.40	0.00	2.88	0.68	3.35	28.17
Schroederia setigera	1.25	0.00	2.54	1.45	2.96	31.13
Thalassiosira pseudonana	1.15	0.00	2.36	0.70	2.75	33.87
Peridinium aciculiferum	1.07	0.00	2.34	0.71	2.72	36.60
Cyclotella sp.	0.79	0.55	2.16	0.78	2.51	39.11
Gymnodinium sp.	1.06	0.00	2.12	0.83	2.47	41.58
Chlymentomonas sp.	0.00	0.99	2.05	0.83	2.39	43.97
Gymnodinium splendens	0.00	0.94	2.00	0.57	2.33	46.30
Nitzschia longissima	0.91	0.00	1.95	1.22	2.27	48.57
Peridinium cerasus	0.00	0.90	1.81	0.65	2.11	50.69
Schizothrix sp.	0.71	0.00	1.55	0.47	1.80	52.49
Eutreptiella sp.	0.00	0.78	1.52	0.74	1.77	54.26
Cryptomonas ovata	0.00	0.76	1.51	0.77	1.75	56.01
Unknown pennate diatom sp.	0.72	0.00	1.50	0.73	1.74	57.76
Spermatozoopsis exultans	0.00	0.77	1.48	0.82	1.72	59.48
Scenedesmus quadricauda	0.73	0.00	1.47	0.81	1.71	61.20
Gonyaulax palustre	0.00	0.72	1.41	0.76	1.65	62.84
Chroococcus minutus	0.00	0.70	1.36	0.44	1.59	64.43
Gymnodinium simplex	0.00	0.62	1.28	0.66	1.49	65.93
Thalassiosira decipiens	0.59	0.00	1.20	0.73	1.39	67.32
Gonyaulax polygramma	0.53	0.00	1.14	0.67	1.32	68.64
Unknown flagellate sp. 1	0.00	0.50	1.00	0.58	1.16	69.80
Cryptomonas erosa	0.00	0.49	0.93	0.62	1.09	70.89
Calycomonas ovalis	0.00	0.45	0.90	0.44	1.05	71.94
Nitzschia closterium	0.40	0.08	0.89	0.64	1.03	72.97
Akistrodesmus falcatus	0.46	0.00	0.88	0.56	1.02	73.99

Scenedesmus bijinga	0.43	0.00	0.87	0.50	1.01	75.00
Eutreptia sp.	0.42	0.00	0.84	0.59	0.98	75.98
Ceratium hircus	0.00	0.38	0.81	0.45	0.95	76.93
Euglena sp.	0.38	0.00	0.80	0.50	0.93	77.86
Peridinium sp.	0.41	0.00	0.76	0.56	0.88	78.74
Scenedesmus quadricauda v. Westii	0.00	0.39	0.71	0.50	0.83	79.57
Thalassiosira sp.	0.31	0.00	0.58	0.48	0.67	80.25
Prorocentrum minimum	0.29	0.00	0.55	0.50	0.64	80.89
Leptocylicus minimum	0.29	0.00	0.53	0.40	0.61	81.50
Merismopedia punctata	0.23	0.00	0.53	0.33	0.61	82.11
Nitzschia pungens	0.21	0.03	0.50	0.45	0.59	82.70
Scenedesmus acuminatus	0.24	0.00	0.50	0.42	0.58	83.28
Nostoc sp.(trichomes)	0.21	0.00	0.49	0.42	0.57	83.85
Prorocentrum micans	0.00	0.22	0.43	0.37	0.50	84.35
Rhizosolenia setigera	0.06	0.16	0.41	0.40	0.48	84.83
Scrippsiella sp.	0.18	0.00	0.40	0.33	0.47	85.29
Leptocylicus danicus	0.20	0.00	0.38	0.33	0.45	85.74
Coelosphaerium sp.	0.00	0.21	0.38	0.29	0.44	86.18
Pleurosigma sp.	0.16	0.00	0.38	0.30	0.44	86.62
Chaetoceros decipiens	0.00	0.18	0.36	0.29	0.42	87.04
Chaetoceros neogracile	0.17	0.00	0.35	0.34	0.40	87.45
Cyclotella undulata	0.00	0.18	0.34	0.28	0.40	87.85
Chlamydomonas sphagnicola	0.00	0.19	0.34	0.37	0.39	88.24
Bluegreen filamentous sp.	0.15	0.00	0.32	0.34	0.38	88.61
Scenedesmus acutus	0.16	0.00	0.31	0.23	0.36	88.97
Ceratium fusus	0.00	0.14	0.31	0.33	0.36	89.33
Biddulphia sinensis	0.00	0.15	0.30	0.28	0.35	89.68
Ceratulina bergonii	0.14	0.00	0.30	0.33	0.35	90.03

Groups 75%Grp13 & 75%Grp3

Average dissimilarity = 86.34

Species	Group 75%Grp13 Av.Abund	Group 75%Grp3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.90	3.76	6.36	1.13	7.36	7.36
Cryptomonas sp.1	0.00	2.99	5.92	1.91	6.85	14.22
Synechocystis aquaticus Sauvageau	0.00	2.77	5.45	1.44	6.31	20.53
Prorocentrum minimum	1.59	0.00	2.86	0.97	3.31	23.84
Thalassiosira pseudonana	1.56	0.00	2.74	0.82	3.18	27.02
Eutreptia sp.	1.43	0.00	2.56	0.98	2.97	29.99
Thalassiosira sp.	1.38	0.00	2.54	0.65	2.94	32.93
Cyclotella sp.	0.83	0.55	2.00	0.74	2.31	35.24

Chlymentomonas sp.	0.00	0.99	1.94	0.79	2.25	37.49
Gymnodinium splendens	0.00	0.94	1.90	0.55	2.20	39.69
Chaetoceros subtilis	0.83	0.33	1.78	0.80	2.06	41.75
Peridinium cerasus	0.00	0.90	1.72	0.63	1.99	43.74
Schroederia setigera	0.82	0.00	1.60	0.89	1.85	45.59
Peridinium aciculiferum	0.84	0.00	1.56	0.82	1.80	47.40
Thalassiosira decipiens	0.84	0.00	1.45	0.78	1.68	49.08
Eutreptiella sp.	0.00	0.78	1.44	0.71	1.67	50.74
Unknown pennate diatom sp.	0.81	0.00	1.43	0.68	1.66	52.40
Cryptomonas ovata	0.00	0.76	1.43	0.74	1.65	54.06
Spermatozoopsis exultans	0.00	0.77	1.40	0.79	1.62	55.68
Nitzschia longissima	0.74	0.00	1.36	0.96	1.58	57.26
Gonyaulax palustre	0.00	0.72	1.34	0.74	1.55	58.81
Chroococcus minutus	0.00	0.70	1.29	0.42	1.50	60.31
Leptocylindricus minimum	0.75	0.00	1.24	0.58	1.43	61.74
Gymnodinium simplex	0.00	0.62	1.21	0.64	1.41	63.14
Euglena sp.	0.69	0.00	1.20	0.44	1.39	64.53
Scrippsiella sp.	0.59	0.00	1.16	0.63	1.35	65.88
Nitzschia closterium	0.62	0.08	1.12	0.91	1.30	67.18
Ceratulina bergonii	0.53	0.00	1.10	0.42	1.27	68.45
Unknown flagellate sp. 1	0.00	0.50	0.94	0.56	1.09	69.54
Merismopedia punctata	0.54	0.00	0.93	0.46	1.08	70.62
Gymnodinium sp.	0.53	0.00	0.92	0.70	1.07	71.69
Cryptomonas erosa	0.00	0.49	0.89	0.60	1.03	72.71
Calycomonas ovalis	0.00	0.45	0.85	0.43	0.99	73.70
Schizothrix sp.	0.49	0.00	0.85	0.43	0.98	74.68
Ceratium hircus	0.08	0.38	0.83	0.47	0.97	75.64
Scenedesmus quadricauda	0.46	0.00	0.74	0.48	0.86	76.50
Akistrodesmus falcatus	0.43	0.00	0.74	0.54	0.86	77.36
Scenedesmus quadricauda v. Westii	0.00	0.39	0.68	0.49	0.78	78.14
Crucigenia sp.	0.38	0.00	0.66	0.48	0.77	78.91
Chaetoceros neogracile	0.31	0.00	0.63	0.51	0.73	79.64
Prorocentrum micans	0.13	0.22	0.57	0.48	0.66	80.30
Pyramimonas sp.	0.33	0.00	0.56	0.35	0.65	80.95
Rhizosolenia setigera	0.16	0.16	0.52	0.42	0.60	81.55
Thalassionema nitzschoides	0.20	0.05	0.52	0.36	0.60	82.15
Nostoc sp.(trichomes)	0.27	0.00	0.50	0.42	0.58	82.73
Peridinium sp.	0.31	0.00	0.48	0.55	0.56	83.29
Chaetoceros socialis	0.28	0.00	0.46	0.36	0.53	83.82
Scenedesmus bijinga	0.28	0.00	0.44	0.43	0.51	84.33
Coelosphaerium sp.	0.00	0.21	0.36	0.29	0.42	84.75
Bluegreen filamentous sp.	0.21	0.00	0.36	0.42	0.41	85.16
Chaetoceros decipiens	0.00	0.18	0.34	0.29	0.40	85.56

Cyclotella undulata	0.00	0.18	0.33	0.27	0.38	85.94
Scenedesmus acuminatus	0.19	0.00	0.32	0.35	0.37	86.31
Chlamydomonas sphagnicola	0.00	0.19	0.32	0.37	0.37	86.68
Ceratium fusus	0.00	0.14	0.29	0.32	0.34	87.01
Biddulphia sinensis	0.00	0.15	0.29	0.27	0.33	87.34
Dinophysis caudata	0.10	0.08	0.28	0.37	0.32	87.67
Oscillatoria rubescens (trichome)	0.00	0.17	0.28	0.29	0.32	87.99
Gonyaulax polygramma	0.15	0.00	0.27	0.36	0.31	88.30
Rhizosolenia stolterfothii	0.00	0.14	0.27	0.20	0.31	88.61
Nitzschia pungens	0.12	0.03	0.27	0.32	0.31	88.92
Chaetoceros compressum	0.00	0.14	0.26	0.22	0.31	89.23
Nitzschia palea	0.00	0.15	0.26	0.33	0.30	89.54
Crucigenia fenestrata	0.00	0.13	0.26	0.20	0.30	89.83
Oocystis sp.	0.08	0.08	0.25	0.29	0.29	90.12

Groups 75%Grp9 & 75%Grp3

Average dissimilarity = 89.88

Species	Group 75%Grp9 Av.Abund	Group 75%Grp3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.07	3.76	6.09	1.20	6.78	6.78
Cryptomonas sp.1	0.00	2.99	5.65	1.58	6.28	13.07
Synechocystis aquaticus Sauvageau	0.00	2.77	5.20	1.28	5.78	18.85
Schizothrix sp.	2.14	0.00	3.43	0.68	3.82	22.66
Thalassionema nitzschoides	1.63	0.05	3.00	0.70	3.34	26.00
Ceratulina bergonii	1.39	0.00	2.47	0.73	2.74	28.75
Leptocylindricus minimum	1.63	0.00	2.18	1.12	2.43	31.18
Nitzschia closterium	1.37	0.08	1.88	0.84	2.10	33.28
Chaetoceros socialis	1.47	0.00	1.88	0.82	2.09	35.36
Chlymentomonas sp.	0.00	0.99	1.85	0.73	2.06	37.43
Chaetoceros neogracile	1.24	0.00	1.84	0.88	2.05	39.48
Unknown pennate diatom sp.	1.09	0.00	1.82	0.82	2.03	41.51
Gymnodinium splendens	0.00	0.94	1.81	0.51	2.02	43.53
Peridinium cerasus	0.00	0.90	1.64	0.59	1.82	45.35
Prorocentrum micans	0.97	0.22	1.63	0.99	1.82	47.16
Rhizosolenia setigera	0.93	0.16	1.57	0.80	1.75	48.91
Nitzschia pungens	1.11	0.03	1.55	0.71	1.72	50.63
Ceratium hircus	0.73	0.38	1.44	0.80	1.60	52.23
Thalassiosira sp.	0.93	0.00	1.43	0.64	1.60	53.83
Eutreptiella sp.	0.00	0.78	1.37	0.67	1.52	55.35
Cryptomonas ovata	0.00	0.76	1.36	0.70	1.51	56.86
Spermatozoopsis exultans	0.00	0.77	1.33	0.74	1.48	58.34

Gonyaulax palustre	0.00	0.72	1.27	0.69	1.42	59.76
Chaetoceros compressum	0.87	0.14	1.24	0.68	1.38	61.14
Chroococcus minutus	0.00	0.70	1.23	0.40	1.37	62.51
Asterionella glacialis	0.87	0.06	1.16	0.70	1.29	63.80
Gymnodinium simplex	0.00	0.62	1.16	0.60	1.29	65.09
Chaetoceros subtilis	0.59	0.33	1.10	0.63	1.23	66.31
Thalassiosira decipiens	0.64	0.00	1.09	0.58	1.21	67.53
Chaetoceros sp.	0.56	0.00	1.04	0.33	1.16	68.69
Cyclotella sp.	0.00	0.55	0.98	0.54	1.09	69.78
Prorocentrum minimum	0.72	0.00	0.94	0.94	1.05	70.83
Unknown flagellate sp. 1	0.00	0.50	0.90	0.53	1.00	71.83
Cryptomonas erosa	0.00	0.49	0.84	0.57	0.94	72.76
Nitzschia longissima	0.64	0.00	0.83	0.86	0.92	73.68
Calycomonas ovalis	0.00	0.45	0.81	0.41	0.90	74.58
Peridinium sp.	0.41	0.00	0.79	0.52	0.88	75.46
Melosira sp.	0.26	0.00	0.75	0.32	0.84	76.30
Scenedesmus quadricauda v. Westii	0.00	0.39	0.64	0.47	0.72	77.02
Leptocylindricus danicus	0.46	0.00	0.60	0.58	0.67	77.69
Amphora sp.	0.41	0.00	0.60	0.41	0.67	78.36
Thalassiosira pseudonana	0.37	0.00	0.46	0.39	0.51	78.87
Gonyaulax polygramma	0.22	0.00	0.45	0.35	0.50	79.37
Pleurosigma sp.	0.27	0.00	0.45	0.46	0.50	79.87
Chaetoceros curvisetus	0.43	0.00	0.43	0.33	0.48	80.35
Thalassiosira oestrupii	0.30	0.00	0.42	0.50	0.46	80.82
Chaetoceros lorenzianum	0.32	0.00	0.42	0.43	0.46	81.28
Navicula sp.	0.15	0.11	0.40	0.45	0.44	81.72
Gonyaulax monilata	0.19	0.00	0.39	0.35	0.44	82.16
Rhizosolenia stolterfothii	0.10	0.14	0.38	0.29	0.43	82.59
Rhizosolenia calcar-avis	0.22	0.06	0.38	0.45	0.43	83.02
Peridinium tuba	0.27	0.00	0.38	0.48	0.42	83.44
Rhizosolenia delicatula	0.26	0.00	0.36	0.42	0.40	83.83
Gymnodinium sp.	0.25	0.00	0.35	0.50	0.39	84.22
Coelosphaerium sp.	0.00	0.21	0.34	0.28	0.38	84.60
Thalassiothrix frauenfeldianum	0.18	0.00	0.33	0.32	0.37	84.97
Scrippsiella sp.	0.24	0.00	0.33	0.43	0.37	85.34
Chaetoceros decipiens	0.00	0.18	0.33	0.27	0.36	85.70
Gonyaulax digitalis	0.20	0.00	0.32	0.30	0.35	86.06
Cyclotella undulata	0.00	0.18	0.31	0.26	0.35	86.40
Nitzschia sp.	0.05	0.10	0.31	0.26	0.34	86.74
Hemiaulis hauckii	0.20	0.03	0.31	0.39	0.34	87.08
Coscinosira polychorda	0.21	0.00	0.31	0.36	0.34	87.43
Chlamydomonas sphagnicola	0.00	0.19	0.30	0.35	0.34	87.76
Eutreptia sp.	0.14	0.00	0.29	0.26	0.32	88.08

Dinophysis caudata	0.11	0.08	0.28	0.37	0.31	88.39
Ceratium fusus	0.00	0.14	0.28	0.31	0.31	88.70
Coscinodiscus sp.	0.10	0.00	0.28	0.25	0.31	89.01
Biddulphia sinensis	0.00	0.15	0.27	0.26	0.30	89.31
Nostoc sp.(trichomes)	0.17	0.00	0.27	0.34	0.30	89.60
Oscillatoria rubescens (trichome)	0.00	0.17	0.26	0.28	0.29	89.90
Amphiprora sp.	0.21	0.00	0.25	0.44	0.28	90.18

Groups 75%Grp11 & 75%Grp3

Average dissimilarity = 84.94

Species	Group 75%Grp11 Av.Abund	Group 75%Grp3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Cryptomonas sp.1	0.00	2.99	6.98	1.94	8.22	8.22
Synechocystis aquaticus Sauvageau	0.00	2.77	6.42	1.47	7.56	15.78
Skeletonema costatum	4.09	3.76	4.55	1.07	5.36	21.14
Nitzschia closterium	1.55	0.08	3.16	1.53	3.72	24.86
Chaetoceros subtilis	0.83	0.33	2.39	0.72	2.81	27.67
Chlymentomonas sp.	0.00	0.99	2.29	0.79	2.70	30.37
Gymnodinium splendens	0.00	0.94	2.25	0.55	2.65	33.02
Peridinium cerasus	0.00	0.90	2.01	0.62	2.37	35.39
Peridinium aciculiferum	0.79	0.00	2.00	0.79	2.36	37.74
Leptocylindricus minimum	0.93	0.00	1.96	0.86	2.30	40.05
Chaetoceros socialis	0.99	0.00	1.95	0.89	2.29	42.34
Eutreptiella sp.	0.00	0.78	1.68	0.72	1.97	44.31
Cryptomonas ovata	0.00	0.76	1.67	0.75	1.96	46.27
Unknown pennate diatom sp.	0.84	0.00	1.65	0.81	1.94	48.21
Spermatozoopsis exultans	0.00	0.77	1.63	0.80	1.92	50.13
Gonyaulax palustre	0.00	0.72	1.56	0.74	1.84	51.97
Chroococcus minutus	0.00	0.70	1.51	0.43	1.78	53.75
Ceratulina bergonii	0.59	0.00	1.47	0.42	1.73	55.48
Schizothrix sp.	0.67	0.00	1.46	0.43	1.72	57.20
Gymnodinium simplex	0.00	0.62	1.43	0.64	1.68	58.89
Cyclotella sp.	0.17	0.55	1.41	0.66	1.67	60.55
Rhizosolenia setigera	0.54	0.16	1.38	0.72	1.62	62.17
Chaetoceros neogracile	0.63	0.00	1.27	0.65	1.50	63.67
Nitzschia longissima	0.53	0.00	1.14	0.80	1.34	65.01
Thalassionema nitzschoides	0.48	0.05	1.11	0.58	1.31	66.32
Unknown flagellate sp. 1	0.00	0.50	1.10	0.56	1.30	67.62
Ceratium hircus	0.14	0.38	1.10	0.52	1.29	68.91
Cryptomonas erosa	0.00	0.49	1.03	0.61	1.21	70.12
Calycomonas ovalis	0.00	0.45	0.99	0.43	1.17	71.29

Thalassiosira pseudonana	0.51	0.00	0.94	0.64	1.11	72.39
Chaetoceros compressum	0.31	0.14	0.94	0.46	1.10	73.50
Thalassiosira sp.	0.36	0.00	0.87	0.39	1.02	74.52
Prorocentrum micans	0.25	0.22	0.84	0.53	0.99	75.51
Scenedesmus quadricauda v. Westii	0.00	0.39	0.78	0.49	0.92	76.43
Asterionella glacialis	0.35	0.06	0.77	0.47	0.91	77.34
Peridinium sp.	0.32	0.00	0.71	0.42	0.84	78.18
Nitzschia pungens	0.30	0.03	0.68	0.43	0.80	78.98
Gonyaulax polygramma	0.27	0.00	0.67	0.42	0.79	79.77
Prorocentrum minimum	0.35	0.00	0.65	0.55	0.77	80.53
Gymnodinium sp.	0.30	0.00	0.62	0.47	0.73	81.26
Eutreptia sp.	0.31	0.00	0.61	0.49	0.71	81.98
Euglena sp.	0.26	0.00	0.47	0.34	0.55	82.53
Thalassiosira oestrupii	0.23	0.00	0.43	0.42	0.51	83.04
Coelosphaerium sp.	0.00	0.21	0.41	0.29	0.49	83.52
Chaetoceros decipiens	0.00	0.18	0.40	0.29	0.47	84.00
Cyclotella sp. (small)	0.15	0.00	0.39	0.23	0.46	84.46
Cyclotella undulata	0.00	0.18	0.38	0.27	0.45	84.91
Chlamydomonas sphagnicola	0.00	0.19	0.37	0.37	0.43	85.34
Amphora sp.	0.21	0.00	0.36	0.42	0.42	85.76
Ceratium fusus	0.00	0.14	0.34	0.32	0.40	86.16
Biddulphia sinensis	0.00	0.15	0.33	0.27	0.39	86.55
Scrippsiella sp.	0.19	0.00	0.32	0.42	0.38	86.93
Oscillatoria rubescens (trichome)	0.00	0.17	0.32	0.29	0.37	87.30
Rhizosolenia stolterfothii	0.00	0.14	0.31	0.21	0.37	87.67
Thalassiosira decipiens	0.12	0.00	0.31	0.31	0.36	88.03
Nitzschia palea	0.00	0.15	0.31	0.34	0.36	88.39
Crucigenia fenestrata	0.00	0.13	0.30	0.20	0.35	88.74
Navicula sp.	0.06	0.11	0.30	0.37	0.35	89.10
Leptocylicus danicus	0.15	0.00	0.28	0.33	0.33	89.43
Nitzschia sp.	0.00	0.10	0.28	0.21	0.33	89.76
Chaetoceros sp.	0.11	0.00	0.28	0.23	0.32	90.08

Groups 75%Grp1 & 75%Grp3

Average dissimilarity = 65.77

Species	Group 75%Grp1 Av.Abund	Group 75%Grp3 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	1.15	3.76	5.78	1.49	8.79	8.79
Synechocystis aquaticus Sauvageau	3.49	2.77	4.09	1.13	6.21	15.00
Scenedesmus quadricauda v. Westii	2.19	0.39	3.86	1.27	5.87	20.87
Spermatozoopsis exultans	1.79	0.77	2.92	1.14	4.45	25.32

Gonyaulax palustre	1.82	0.72	2.91	1.32	4.43	29.74
Cryptomonas erosa	1.46	0.49	2.52	1.19	3.84	33.58
Chlymentomonas sp.	1.14	0.99	2.34	1.07	3.56	37.15
Cryptomonas sp.1	3.26	2.99	2.30	1.19	3.50	40.65
Cryptomonas ovata	1.01	0.76	2.14	1.02	3.26	43.90
Gymnodinium splendens	0.12	0.94	1.91	0.60	2.90	46.80
Chroococcus minutus	0.56	0.70	1.87	0.60	2.85	49.65
Eutreptiella sp.	0.80	0.78	1.87	0.99	2.84	52.49
Coelosphaerium sp.	0.90	0.21	1.80	0.64	2.74	55.23
Cyclotella sp.	0.73	0.55	1.70	0.86	2.58	57.81
Peridinium cerasus	0.00	0.90	1.68	0.64	2.55	60.36
Unknown flagellate sp. 1	0.56	0.50	1.52	0.82	2.31	62.67
Gymnodinium simplex	0.20	0.62	1.32	0.77	2.01	64.68
Nitzschia palea	0.70	0.15	1.28	0.88	1.95	66.63
Navicula sp.	0.48	0.11	1.04	0.69	1.59	68.22
Cyclotella undulata	0.37	0.18	1.00	0.39	1.52	69.74
Calycomonas ovalis	0.05	0.45	0.88	0.46	1.33	71.08
Chaetoceros subtilis	0.16	0.33	0.84	0.46	1.28	72.36
Ceratium hircus	0.00	0.38	0.75	0.45	1.14	73.50
Euglena acus	0.35	0.06	0.66	0.38	1.00	74.50
Scenedesmus abundans v. brevicauda	0.35	0.00	0.53	0.37	0.81	75.31
Nitzschia fruticosa	0.30	0.00	0.52	0.35	0.79	76.10
Merismopedia glauca	0.32	0.00	0.50	0.36	0.76	76.87
Oscillatoria rubescens (trichome)	0.15	0.17	0.50	0.42	0.75	77.62
Stephanodiscus sp.	0.26	0.00	0.49	0.34	0.74	78.36
Cryptomonas curvata	0.24	0.06	0.48	0.45	0.73	79.09
Oocystis sp.	0.27	0.08	0.47	0.43	0.72	79.81
Euglena sp.	0.21	0.00	0.43	0.21	0.65	80.46
Nitzschia tryblionella	0.17	0.04	0.41	0.40	0.62	81.08
Nitzschia sp.	0.10	0.10	0.40	0.35	0.61	81.70
Prorocentrum micans	0.00	0.22	0.40	0.36	0.60	82.30
Spirulina sp.1	0.24	0.00	0.39	0.34	0.60	82.90
Merismopedia sp.	0.20	0.07	0.39	0.32	0.59	83.49
Paralia sulcata	0.20	0.03	0.38	0.38	0.57	84.06
Lyngbya contorta (trichome)	0.25	0.00	0.37	0.32	0.56	84.62
Coscinodiscus eccentricus	0.08	0.12	0.36	0.35	0.55	85.17
Melosira granulata	0.18	0.05	0.36	0.38	0.55	85.72
Phormidium fragile (trichome)	0.24	0.00	0.36	0.37	0.54	86.26
Chlamydomonas sp.	0.25	0.00	0.35	0.37	0.53	86.79
Crucigenia fenestrata	0.07	0.13	0.34	0.27	0.52	87.31
Chaetoceros decipiens	0.00	0.18	0.34	0.29	0.51	87.82
Chlamydomonas sphagnicola	0.00	0.19	0.31	0.37	0.48	88.30
Rhizosolenia setigera	0.00	0.16	0.29	0.32	0.44	88.74

Ceratium fusus	0.00	0.14	0.28	0.33	0.43	89.16
Biddulphia sinensis	0.00	0.15	0.28	0.28	0.43	89.59
Mallomonas acaroides	0.16	0.00	0.28	0.30	0.42	90.01

Groups 75%Grp4 & 75%Grp2

Average dissimilarity = 98.40

Species	Group 75%Grp4 Av.Abund	Group 75%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Cryptophyte sp.	4.79	0.00	8.76	1.62	8.90	8.90
Skeletonema costatum	0.16	3.45	6.30	1.57	6.40	15.31
Unknown diatom sp.	3.09	0.00	5.56	2.40	5.65	20.96
Synechocystis aquaticus Sauvageau	0.00	2.99	5.46	1.47	5.55	26.50
Cryptomonas sp.1	0.00	2.59	4.79	2.17	4.87	31.37
Unknown diatom sp. D	2.34	0.00	4.10	1.59	4.16	35.53
Thalassiosira sp.	2.01	0.00	3.58	1.94	3.64	39.17
Prorocentrum micans	1.61	0.33	3.37	0.62	3.43	42.60
Unknown Dinoflagellate sp.	1.73	0.00	3.19	0.97	3.24	45.84
Scenedesmus sp.	1.47	0.00	2.46	1.15	2.51	48.34
Navicula sp. small	1.23	0.00	2.24	0.85	2.28	50.62
Gymnodinium simplex	0.00	1.01	1.87	0.87	1.90	52.52
Ceratium hircus	0.00	0.97	1.77	0.64	1.80	54.33
Peridinium cerasus	0.00	0.87	1.56	0.75	1.58	55.91
Coscinodiscus sp.	0.83	0.00	1.55	0.57	1.57	57.48
Eutreptiella sp.	0.35	0.69	1.53	0.84	1.55	59.03
Nitzschia pungens	0.80	0.26	1.53	0.87	1.55	60.59
Unknown bluegreen sp.	0.83	0.00	1.49	0.90	1.52	62.10
Pyramimonas sp.	0.84	0.00	1.42	0.83	1.45	63.55
Chlymentomonas sp.	0.00	0.80	1.39	0.81	1.41	64.96
Rhizosolenia setigera	0.00	0.73	1.30	0.60	1.33	66.29
Tetraedron sp.	0.82	0.00	1.30	0.75	1.32	67.61
Navicula sp. large	0.66	0.00	1.29	0.65	1.31	68.92
Akistrodesmus sp.	0.76	0.00	1.21	0.57	1.23	70.15
Thalassionema nitzschoides	0.35	0.38	1.13	0.56	1.15	71.30
Leptocylindricus minimum	0.61	0.00	1.09	0.65	1.11	72.41
Nitzschia sp.	0.38	0.19	1.00	0.48	1.02	73.43
Biddulphia sinensis	0.00	0.57	0.97	0.59	0.99	74.42
Chroococcus minutus	0.00	0.47	0.93	0.35	0.95	75.37
Chaetoceros compressum	0.00	0.49	0.85	0.49	0.86	76.23
Prorocentrum sp.	0.45	0.00	0.80	0.39	0.81	77.04
Calycomonas ovalis	0.00	0.41	0.74	0.48	0.75	77.79
Schizothrix calcicola	0.48	0.00	0.70	0.58	0.71	78.50

Eutreptia sp.	0.37	0.00	0.70	0.35	0.71	79.21
Chaetoceros subtilis	0.00	0.35	0.64	0.48	0.65	79.86
Prorocentrum redfieldi	0.40	0.00	0.63	0.36	0.64	80.50
Amphidinium crassum	0.00	0.37	0.61	0.44	0.62	81.12
Chaetoceros decipiens	0.00	0.33	0.61	0.44	0.62	81.74
Unknown flagellate sp. 1	0.00	0.34	0.58	0.57	0.59	82.33
Leptocylindricus danicus	0.27	0.00	0.58	0.39	0.59	82.92
Spermatozoopsis exultans	0.00	0.34	0.58	0.44	0.59	83.52
Trichodesmium sp.	0.38	0.00	0.58	0.38	0.59	84.10
Aphanocapsa sp.	0.36	0.00	0.54	0.39	0.54	84.65
Coscinodiscus eccentricus	0.00	0.30	0.52	0.51	0.53	85.18
Cryptomonas ovata	0.00	0.23	0.48	0.35	0.49	85.67
Chroococcus sp.	0.32	0.00	0.47	0.38	0.48	86.14
Oscillatoria sp.	0.32	0.00	0.47	0.39	0.47	86.62
Rhizosolenia calcar-avis	0.00	0.28	0.45	0.35	0.46	87.07
Actinopterychus undulatus	0.00	0.23	0.45	0.30	0.45	87.53
Nitzschia palea	0.00	0.25	0.40	0.36	0.41	87.94
Merismopedia sp.	0.18	0.10	0.39	0.34	0.40	88.34
Unknown diatom sp. A	0.20	0.00	0.36	0.27	0.37	88.71
Gymnodinium splendens	0.00	0.22	0.36	0.36	0.36	89.07
Actinastrum sp.	0.18	0.00	0.35	0.37	0.36	89.43
Navicula sp.	0.00	0.19	0.35	0.38	0.36	89.78
Bacillaria paradoxa	0.00	0.19	0.35	0.30	0.35	90.14

Groups 75%Grp7 & 75%Grp2

Average dissimilarity = 94.46

Species	Group 75%Grp7 Av.Abund	Group 75%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.79	0.00	9.00	1.59	9.53	9.53
Unknown Cryptophyte sp.	6.29	0.00	8.80	2.28	9.32	18.84
Skeletonema costatum	3.34	3.45	4.82	1.28	5.10	23.95
Thalassiosira sp.	3.51	0.00	4.66	1.06	4.93	28.88
Unknown diatom sp.	3.30	0.00	4.38	1.65	4.63	33.51
Unknown Dinoflagellate sp.	3.01	0.00	4.25	1.27	4.50	38.01
Synechocystis aquaticus Sauvageau	0.00	2.99	4.24	1.43	4.49	42.50
Cryptomonas sp.1	0.00	2.59	3.71	2.06	3.93	46.43
Prorocentrum minimum	1.60	0.00	2.42	0.35	2.56	48.99
Peridinium sp.	1.80	0.00	2.22	0.75	2.35	51.34
Pyramimonas sp.	1.63	0.00	2.04	0.93	2.15	53.49
Eutreptia sp.	1.21	0.00	1.72	0.49	1.82	55.31
Eutreptiella sp.	0.69	0.69	1.65	0.62	1.75	57.06

Skeletonema menezelli	1.46	0.00	1.64	0.34	1.73	58.79
Ceratium hircus	0.36	0.97	1.61	0.72	1.70	60.50
Chaetoceros sp.	1.28	0.00	1.49	0.61	1.57	62.07
Gymnodinium simplex	0.00	1.01	1.45	0.86	1.53	63.60
Rhizosolenia setigera	0.51	0.73	1.32	0.76	1.40	65.00
Nitzschia pungens	0.82	0.26	1.24	0.66	1.31	66.31
Nitzschia closterium	0.92	0.00	1.23	0.66	1.30	67.61
Peridinium cerasus	0.00	0.87	1.22	0.74	1.29	68.90
Chlymentomonas sp.	0.00	0.80	1.09	0.80	1.15	70.06
Prorocentrum sp.	0.77	0.00	1.03	0.33	1.09	71.15
Prorocentrum micans	0.34	0.33	0.88	0.44	0.94	72.08
Unknown Katodinium sp.	0.54	0.00	0.86	0.29	0.91	72.99
Leptocylindricus minimum	0.72	0.00	0.83	0.54	0.88	73.87
Scenedesmus sp.	0.60	0.00	0.78	0.44	0.82	74.69
Biddulphia sinensis	0.00	0.57	0.76	0.58	0.81	75.50
Chroococcus minutus	0.00	0.47	0.71	0.34	0.76	76.26
Leptocylindricus danicus	0.65	0.00	0.71	0.35	0.75	77.01
Chaetoceros compressum	0.00	0.49	0.66	0.48	0.70	77.71
Apedinella radians	0.50	0.00	0.65	0.44	0.69	78.40
Chaetoceros subtilis	0.16	0.35	0.65	0.45	0.69	79.08
Glenodinium sp.	0.50	0.00	0.64	0.30	0.68	79.76
Thalassionema nitzschoides	0.14	0.38	0.64	0.40	0.68	80.44
Navicula sp. large	0.47	0.00	0.63	0.44	0.67	81.10
Unknown diatom sp. A	0.52	0.00	0.61	0.33	0.65	81.75
Chaetoceros gracile	0.51	0.00	0.61	0.29	0.65	82.40
Minutocellus sp.	0.51	0.00	0.60	0.41	0.63	83.03
Calycomonas ovalis	0.00	0.41	0.57	0.47	0.61	83.64
Unknown Vegetative cell sp.	0.31	0.00	0.53	0.28	0.56	84.20
Prorocentrum redfieldi	0.41	0.00	0.48	0.19	0.51	84.71
Amphidinium crassum	0.00	0.37	0.48	0.43	0.51	85.22
Chaetoceros decipiens	0.00	0.33	0.47	0.43	0.50	85.72
Unknown bluegreen sp.	0.33	0.00	0.46	0.32	0.49	86.22
Unknown flagellate sp. 1	0.00	0.34	0.46	0.56	0.49	86.70
Spermatozoopsis exultans	0.00	0.34	0.46	0.44	0.48	87.18
Chaetoceros muelleri	0.35	0.00	0.45	0.33	0.47	87.66
Coscinodiscus sp.	0.28	0.00	0.41	0.30	0.44	88.10
Coscinodiscus eccentricus	0.00	0.30	0.41	0.51	0.43	88.53
Aphanocapsa sp.	0.36	0.00	0.40	0.34	0.43	88.96
Akistrodesmus sp.	0.33	0.00	0.39	0.30	0.41	89.37
Pyrophacus sp.	0.26	0.00	0.38	0.26	0.40	89.77
Cryptomonas ovata	0.00	0.23	0.36	0.34	0.38	90.15

Groups 75%Grp6 & 75%Grp2

Average dissimilarity = 91.08

Species	Group 75%Grp6 Av.Abund	Group 75%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown diatom sp. D	6.13	0.00	7.30	2.05	8.02	8.02
Unknown Cryptophyte sp.	5.10	0.00	6.76	2.31	7.42	15.44
Skeletonema costatum	7.46	3.45	6.49	1.61	7.12	22.56
Thalassiosira sp.	4.15	0.00	4.83	2.52	5.30	27.86
Nitzschia closterium	3.83	0.00	4.61	2.53	5.06	32.92
Unknown diatom sp.	3.67	0.00	4.42	2.28	4.85	37.77
Synechocystis aquaticus Sauvageau	0.00	2.99	3.85	1.40	4.23	42.00
Cryptomonas sp.1	0.00	2.59	3.37	1.99	3.70	45.70
Nitzschia pungens	2.56	0.26	3.06	1.25	3.36	49.05
Unknown Dinoflagellate sp.	2.35	0.00	2.76	1.30	3.03	52.09
Chaetoceros sp.	2.39	0.00	2.73	1.13	3.00	55.09
Skeletonema menezelli	2.03	0.00	2.01	0.41	2.20	57.29
Ceratium hircus	0.95	0.97	1.84	0.81	2.02	59.31
Pyramimonas sp.	1.39	0.00	1.79	0.79	1.97	61.28
Leptocylindricus minimum	1.46	0.00	1.61	0.76	1.76	63.04
Rhizosolenia setigera	0.77	0.73	1.40	0.83	1.53	64.57
Gymnodinium simplex	0.00	1.01	1.32	0.85	1.44	66.02
Thalassionema nitzschoides	0.96	0.38	1.30	0.69	1.42	67.44
Chaetoceros muelleri	1.09	0.00	1.22	0.60	1.34	68.78
Peridinium sp.	1.06	0.00	1.14	0.58	1.25	70.03
Peridinium cerasus	0.00	0.87	1.11	0.73	1.22	71.25
Asterionella japonica	0.98	0.00	1.06	0.57	1.16	72.41
Chlymentomonas sp.	0.00	0.80	0.99	0.79	1.09	73.50
Eutreptiella sp.	0.12	0.69	0.96	0.74	1.05	74.55
Leptocylindricus danicus	0.69	0.00	0.90	0.52	0.99	75.54
Minutocellus sp.	0.83	0.00	0.88	0.54	0.97	76.51
Navicula sp. large	0.73	0.00	0.87	0.60	0.96	77.47
Chaetoceros subtilis	0.27	0.35	0.72	0.45	0.79	78.25
Biddulphia sinensis	0.00	0.57	0.70	0.57	0.77	79.02
Prorocentrum sp.	0.58	0.00	0.68	0.41	0.75	79.77
Unknown diatom sp. A	0.58	0.00	0.68	0.42	0.74	80.51
Prorocentrum micans	0.32	0.33	0.65	0.61	0.71	81.22
Chroococcus minutus	0.00	0.47	0.65	0.34	0.71	81.93
Chaetoceros compressum	0.00	0.49	0.61	0.48	0.66	82.60
Calycomonas ovalis	0.00	0.41	0.52	0.47	0.57	83.17
Navicula sp. small	0.46	0.00	0.49	0.36	0.54	83.71
Chaetoceros gracile	0.36	0.00	0.44	0.20	0.49	84.20
Amphidinium crassum	0.00	0.37	0.44	0.43	0.48	84.68

Chaetoceros decipiens	0.00	0.33	0.43	0.43	0.47	85.15
Pyrophacus sp.	0.39	0.00	0.42	0.29	0.46	85.61
Unknown flagellate sp. 1	0.00	0.34	0.42	0.56	0.46	86.07
Spermatozoopsis exultans	0.00	0.34	0.42	0.43	0.46	86.53
Coscinodiscus eccentricus	0.00	0.30	0.37	0.50	0.41	86.94
Apedinella radians	0.30	0.00	0.37	0.37	0.41	87.35
Aphanocapsa sp.	0.40	0.00	0.37	0.37	0.41	87.76
Unknown bluegreen sp.	0.36	0.00	0.37	0.43	0.40	88.16
Scenedesmus sp.	0.27	0.00	0.34	0.29	0.38	88.54
Nitzschia sp.	0.10	0.19	0.34	0.34	0.38	88.91
Akistrodesmus sp.	0.28	0.00	0.34	0.28	0.37	89.29
Rhizosolenia calcar-avis	0.00	0.28	0.33	0.34	0.36	89.65
Cryptomonas ovata	0.00	0.23	0.33	0.34	0.36	90.01

Groups 75%Grp5 & 75%Grp2

Average dissimilarity = 91.60

Species	Group 75%Grp5 Av.Abund	Group 75%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Unknown Dinoflagellate sp.	9.23	0.00	10.65	1.99	11.62	11.62
Unknown diatom sp. D	8.36	0.00	8.47	2.92	9.25	20.87
Unknown Cryptophyte sp.	7.43	0.00	7.94	14.90	8.67	29.54
Thalassiosira sp.	4.72	0.00	5.11	7.95	5.58	35.11
Unknown diatom sp.	4.70	0.00	4.94	9.00	5.39	40.50
Nitzschia closterium	4.12	0.00	4.56	3.98	4.98	45.48
Pyramimonas sp.	3.83	0.00	4.13	9.13	4.51	49.99
Synechocystis aquaticus Sauvageau	0.00	2.99	3.23	1.50	3.53	53.52
Rhizosolenia fragilissima	2.34	0.05	2.95	1.00	3.22	56.74
Chaetoceros sp.	3.08	0.00	2.84	0.99	3.10	59.84
Cryptomonas sp.1	0.00	2.59	2.83	2.29	3.08	62.93
Skeletonema costatum	5.96	3.45	2.64	1.28	2.89	65.81
Gymnodinium sp.	2.63	0.00	2.42	0.99	2.65	68.46
Apedinella radians	1.78	0.00	2.25	0.98	2.45	70.91
Nitzschia pungens	2.29	0.26	2.15	1.07	2.35	73.26
Cerataulina bergonii large	1.50	0.00	1.89	0.98	2.06	75.32
Leptocylindricus minimum	1.88	0.00	1.74	0.99	1.89	77.22
Rhizosolenia setigera	1.26	0.73	1.40	1.12	1.52	78.74
Prorocentrum sp.	1.50	0.00	1.38	0.99	1.51	80.25
Peridinium sp.	1.50	0.00	1.38	0.99	1.51	81.76
Navicula sp. large	1.26	0.00	1.16	0.99	1.27	83.02
Leptocylindricus danicus	1.26	0.00	1.16	0.99	1.27	84.29
Gymnodinium simplex	0.00	1.01	1.10	0.88	1.20	85.49

Ceratium hircus	0.00	0.97	1.05	0.64	1.15	86.64
Peridinium cerasus	0.00	0.87	0.93	0.75	1.02	87.66
Chlymentomonas sp.	0.00	0.80	0.84	0.81	0.92	88.58
Eutreptiella sp.	0.00	0.69	0.74	0.72	0.81	89.39
Biddulphia sinensis	0.00	0.57	0.59	0.58	0.65	90.03

Groups 75%Grp8 & 75%Grp2

Average dissimilarity = 93.32

Species	Group 75%Grp8 Av.Abund	Group 75%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	3.27	3.45	6.59	1.26	7.06	7.06
Synechocystis aquaticus Sauvageau	0.00	2.99	6.24	1.37	6.69	13.75
Cryptomonas sp.1	0.00	2.59	5.49	1.90	5.88	19.63
Unknown pennate diatom sp.	2.07	0.00	4.23	1.67	4.53	24.16
Cyclotella sp. (small)	1.79	0.00	3.45	0.72	3.70	27.86
Cyclotella sp.	1.76	0.15	3.41	0.80	3.65	31.52
Cyclotella sp. (large)	1.45	0.00	2.66	0.60	2.85	34.37
Gymnodinium simplex	0.00	1.01	2.15	0.83	2.30	36.67
Scenedesmus quadricauda	1.15	0.00	2.13	1.08	2.28	38.96
Gymnodinium sp.	1.01	0.00	2.08	0.99	2.23	41.18
Ceratium hircus	0.00	0.97	2.02	0.62	2.17	43.35
Schroederia setigera	1.04	0.00	1.89	1.05	2.02	45.37
Thalassiosira pseudonana	1.05	0.00	1.84	0.57	1.97	47.34
Eutreptia sp.	0.88	0.00	1.83	0.97	1.96	49.30
Peridinium cerasus	0.00	0.87	1.77	0.73	1.90	51.19
Scenedesmus bijinga	0.90	0.00	1.64	0.83	1.76	52.95
Chlymentomonas sp.	0.00	0.80	1.58	0.79	1.69	54.64
Rhizosolenia setigera	0.00	0.73	1.48	0.59	1.59	56.23
Thalassiosira decipiens	0.91	0.00	1.45	0.50	1.56	57.79
Nitzschia longissima	0.78	0.00	1.43	0.93	1.54	59.32
Eutreptiella sp.	0.00	0.69	1.41	0.71	1.51	60.83
Chaetoceros subtilis	0.44	0.35	1.28	0.68	1.38	62.21
Akistrodesmus falcatus	0.64	0.00	1.16	0.68	1.24	63.45
Biddulphia sinensis	0.00	0.57	1.10	0.57	1.18	64.63
Chroococcus minutus	0.00	0.47	1.08	0.34	1.16	65.79
Chaetoceros compressum	0.00	0.49	0.96	0.47	1.03	66.82
Amphiprora sp.	0.49	0.00	0.93	0.62	1.00	67.82
Actinastrum hantzschii	0.49	0.00	0.89	0.50	0.96	68.77
Bluegreen filamentous sp.	0.41	0.00	0.88	0.60	0.95	69.72
Calycomonas ovalis	0.00	0.41	0.84	0.46	0.90	70.62
Thalassionema nitzschoides	0.00	0.38	0.80	0.35	0.85	71.47

Melosira sp.	0.36	0.00	0.70	0.51	0.75	72.22
Chaetoceros decipiens	0.00	0.33	0.70	0.42	0.75	72.97
Amphidinium crassum	0.00	0.37	0.68	0.43	0.73	73.70
Cyclotella meneghiniana	0.40	0.00	0.66	0.28	0.71	74.41
Spermatozoopsis exultans	0.00	0.34	0.66	0.43	0.71	75.12
Unknown flagellate sp. 1	0.00	0.34	0.66	0.55	0.71	75.83
Prorocentrum micans	0.00	0.33	0.66	0.47	0.70	76.53
Nitzschia sp.	0.09	0.19	0.65	0.39	0.70	77.23
Scenedesmus acutus	0.34	0.00	0.63	0.40	0.68	77.91
Crucigenia sp.	0.22	0.00	0.63	0.51	0.67	78.58
Dictyosphaerium sp.	0.46	0.00	0.62	0.39	0.67	79.25
Coscinodiscus eccentricus	0.00	0.30	0.59	0.50	0.63	79.88
Merismopedia punctata	0.29	0.00	0.57	0.37	0.62	80.49
Cryptomonas ovata	0.00	0.23	0.56	0.34	0.60	81.09
Pleurosigma sp.	0.24	0.00	0.56	0.50	0.60	81.69
Melosira nummuloides	0.25	0.00	0.52	0.40	0.55	82.25
Actinopterychus undulatus	0.00	0.23	0.52	0.29	0.55	82.80
Nitzschia pungens	0.00	0.26	0.51	0.37	0.55	83.35
Rhizosolenia calcar-avis	0.00	0.28	0.50	0.34	0.54	83.89
Nitzschia palea	0.00	0.25	0.45	0.35	0.48	84.37
Scenedesmus abundans	0.29	0.00	0.44	0.39	0.47	84.84
Scenedesmus sp.	0.26	0.00	0.43	0.41	0.46	85.30
Kirchneriella sp.	0.11	0.08	0.41	0.34	0.44	85.74
Micractinium pusillum	0.30	0.00	0.41	0.38	0.44	86.18
Gymnodinium splendens	0.00	0.22	0.40	0.35	0.43	86.61
Navicula sp.	0.00	0.19	0.40	0.37	0.43	87.04
Bacillaria paradoxa	0.00	0.19	0.40	0.30	0.43	87.47
Scenedesmus acuminatus	0.26	0.00	0.40	0.41	0.43	87.89
Prorocentrum minimum	0.16	0.00	0.37	0.40	0.40	88.29
Tetrastrum sp.	0.24	0.00	0.36	0.40	0.39	88.68
Nitzschia tryblionella	0.00	0.16	0.33	0.37	0.36	89.03
Gonyaulax palustre	0.00	0.15	0.32	0.30	0.34	89.38
Gonyaulax scrippsae	0.00	0.16	0.32	0.37	0.34	89.72
Tropodineis lepidoptera	0.19	0.00	0.31	0.28	0.33	90.05

Groups 75%Grp10 & 75%Grp2

Average dissimilarity = 85.09

Species	Group 75%Grp10 Av.Abund	Group 75%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	2.99	6.74	1.42	7.93	7.93
Cryptomonas sp.1	0.00	2.59	5.93	2.01	6.97	14.90

Chaetoceros subtilis	2.19	0.35	4.91	1.18	5.77	20.66
Skeletonema costatum	3.94	3.45	4.33	1.21	5.09	25.75
Peridinium aciculiferum	1.12	0.00	2.68	0.86	3.15	28.90
Ceratium hircus	0.22	0.97	2.34	0.69	2.75	31.65
Gymnodinium simplex	0.00	1.01	2.32	0.85	2.73	34.38
Peridinium cerasus	0.00	0.87	1.91	0.74	2.24	36.62
Schizothrix sp.	1.06	0.00	1.88	0.58	2.21	38.83
Thalassiosira pseudonana	0.90	0.00	1.85	0.83	2.18	41.01
Thalassiosira sp.	0.84	0.00	1.81	0.71	2.12	43.13
Rhizosolenia setigera	0.28	0.73	1.79	0.70	2.11	45.24
Chlymentomonas sp.	0.00	0.80	1.70	0.80	2.00	47.23
Nitzschia closterium	0.79	0.00	1.57	0.90	1.85	49.08
Nitzschia longissima	0.75	0.00	1.55	0.94	1.82	50.90
Eutreptiella sp.	0.00	0.69	1.52	0.72	1.78	52.68
Unknown pennate diatom sp.	0.75	0.00	1.51	0.87	1.77	54.45
Leptocylindricus minimum	0.80	0.00	1.40	0.69	1.65	56.10
Chaetoceros socialis	0.70	0.00	1.40	0.76	1.64	57.74
Thalassionema nitzschoides	0.32	0.38	1.27	0.52	1.50	59.24
Nitzschia pungens	0.45	0.26	1.21	0.66	1.42	60.66
Schroederia setigera	0.53	0.00	1.21	0.62	1.42	62.08
Biddulphia sinensis	0.00	0.57	1.18	0.58	1.39	63.47
Chroococcus minutus	0.00	0.47	1.18	0.34	1.38	64.86
Eutreptia sp.	0.58	0.00	1.13	0.77	1.33	66.19
Cyclotella sp.	0.45	0.15	1.06	0.57	1.25	67.44
Chaetoceros compressum	0.00	0.49	1.03	0.48	1.21	68.65
Prorocentrum micans	0.24	0.33	0.98	0.61	1.15	69.80
Calycomonas ovalis	0.00	0.41	0.90	0.47	1.06	70.86
Chaetoceros decipiens	0.09	0.33	0.87	0.48	1.02	71.88
Cyclotella sp. (small)	0.35	0.00	0.86	0.33	1.01	72.90
Gymnodinium sp.	0.37	0.00	0.80	0.54	0.94	73.83
Ceratulina bergonii	0.40	0.00	0.80	0.44	0.94	74.77
Amphidinium crassum	0.00	0.37	0.73	0.44	0.86	75.63
Prorocentrum minimum	0.38	0.00	0.72	0.55	0.84	76.48
Spermatozoopsis exultans	0.00	0.34	0.71	0.44	0.84	77.31
Unknown flagellate sp. 1	0.00	0.34	0.71	0.56	0.83	78.15
Chaetoceros neogracile	0.39	0.00	0.68	0.56	0.80	78.95
Gonyaulax monilata	0.33	0.00	0.66	0.48	0.77	79.72
Nitzschia sp.	0.11	0.19	0.65	0.40	0.77	80.49
Coscinodiscus eccentricus	0.00	0.30	0.63	0.51	0.75	81.23
Cryptomonas ovata	0.00	0.23	0.61	0.34	0.72	81.95
Navicula sp.	0.11	0.19	0.58	0.48	0.68	82.63
Actinoptychus undulatus	0.00	0.23	0.56	0.30	0.66	83.29
Gonyaulax spinifera	0.27	0.00	0.55	0.49	0.65	83.94

Scrippsiella sp.	0.29	0.00	0.55	0.47	0.64	84.58
Rhizosolenia calcar-avis	0.00	0.28	0.54	0.35	0.63	85.21
Gonyaulax polygramma	0.21	0.00	0.51	0.40	0.60	85.82
Nitzschia palea	0.00	0.25	0.48	0.36	0.57	86.39
Gymnodinium splendens	0.00	0.22	0.43	0.36	0.51	86.89
Bacillaria paradoxa	0.00	0.19	0.43	0.30	0.50	87.40
Peridinium sp.	0.20	0.00	0.40	0.39	0.47	87.86
Nitzschia tryblionella	0.00	0.16	0.36	0.37	0.42	88.29
Gonyaulax palustre	0.00	0.15	0.35	0.30	0.41	88.69
Gonyaulax scrippsae	0.00	0.16	0.34	0.37	0.40	89.10
Scenedesmus quadracauda	0.16	0.00	0.33	0.33	0.39	89.49
Leptocylindricus danicus	0.18	0.00	0.32	0.33	0.38	89.87
Asterionella glacialis	0.00	0.13	0.30	0.21	0.35	90.22

Groups 75%Grp12 & 75%Grp2

Average dissimilarity = 86.83

Species	Group 75%Grp12 Av.Abund	Group 75%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	2.99	6.24	1.51	7.19	7.19
Cryptomonas sp.1	0.00	2.59	5.48	2.26	6.31	13.50
Chaetoceros subtilis	2.80	0.35	5.37	1.52	6.19	19.69
Skeletonema costatum	4.06	3.45	4.15	1.39	4.78	24.47
Cyclotella sp. (small)	1.40	0.00	2.88	0.68	3.31	27.78
Schroederia setigera	1.25	0.00	2.54	1.47	2.93	30.71
Thalassiosira pseudonana	1.15	0.00	2.36	0.71	2.72	33.42
Peridinium aciculiferum	1.07	0.00	2.34	0.72	2.69	36.11
Gymnodinium simplex	0.00	1.01	2.14	0.88	2.47	38.58
Gymnodinium sp.	1.06	0.00	2.12	0.83	2.44	41.02
Ceratium hircus	0.00	0.97	2.03	0.65	2.33	43.35
Nitzschia longissima	0.91	0.00	1.95	1.23	2.24	45.60
Peridinium cerasus	0.00	0.87	1.77	0.76	2.04	47.64
Cyclotella sp.	0.79	0.15	1.72	0.60	1.98	49.62
Chlymentomonas sp.	0.00	0.80	1.58	0.82	1.82	51.44
Schizothrix sp.	0.71	0.00	1.55	0.47	1.78	53.22
Rhizosolenia setigera	0.06	0.73	1.53	0.64	1.76	54.98
Unknown pennate diatom sp.	0.72	0.00	1.50	0.73	1.72	56.71
Scenedesmus quadracauda	0.73	0.00	1.47	0.82	1.69	58.40
Eutreptiella sp.	0.00	0.69	1.41	0.74	1.62	60.02
Thalassiosira decipiens	0.59	0.00	1.20	0.74	1.38	61.40
Gonyaulax polygramma	0.53	0.00	1.14	0.68	1.31	62.70
Biddulphia sinensis	0.00	0.57	1.10	0.59	1.27	63.98

Chroococcus minutus	0.00	0.47	1.08	0.35	1.24	65.22
Chaetoceros compressum	0.00	0.49	0.96	0.49	1.11	66.33
Thalassionema nitzschoides	0.09	0.38	0.93	0.41	1.07	67.40
Akistrodesmus falcatus	0.46	0.00	0.88	0.56	1.01	68.41
Scenedesmus bijinga	0.43	0.00	0.87	0.50	1.00	69.41
Nitzschia pungens	0.21	0.26	0.86	0.57	0.99	70.40
Eutreptia sp.	0.42	0.00	0.84	0.59	0.97	71.37
Calycomonas ovalis	0.00	0.41	0.84	0.48	0.97	72.33
Nitzschia closterium	0.40	0.00	0.81	0.59	0.94	73.27
Euglena sp.	0.38	0.00	0.79	0.50	0.92	74.19
Peridinium sp.	0.41	0.00	0.76	0.56	0.88	75.06
Chaetoceros decipiens	0.00	0.33	0.70	0.44	0.80	75.87
Amphidinium crassum	0.00	0.37	0.69	0.44	0.79	76.66
Unknown flagellate sp. 1	0.00	0.34	0.66	0.57	0.76	77.42
Spermatozoopsis exultans	0.00	0.34	0.66	0.45	0.76	78.18
Prorocentrum micans	0.00	0.33	0.66	0.49	0.76	78.94
Coscinodiscus eccentricus	0.00	0.30	0.59	0.52	0.68	79.62
Bacillaria paradoxa	0.13	0.19	0.58	0.38	0.67	80.30
Thalassiosira sp.	0.31	0.00	0.58	0.48	0.66	80.96
Cryptomonas ovata	0.00	0.23	0.56	0.35	0.64	81.60
Prorocentrum minimum	0.29	0.00	0.55	0.50	0.63	82.23
Leptocylindricus minimum	0.29	0.00	0.53	0.41	0.61	82.84
Merismopedia punctata	0.23	0.00	0.52	0.34	0.60	83.44
Actinopterychus undulatus	0.00	0.23	0.51	0.30	0.59	84.04
Rhizosolenia calcar-avis	0.00	0.28	0.51	0.35	0.58	84.62
Scenedesmus acuminatus	0.24	0.00	0.50	0.42	0.58	85.20
Nostoc sp.(trichomes)	0.21	0.00	0.49	0.42	0.57	85.76
Nitzschia palea	0.00	0.25	0.46	0.36	0.52	86.29
Gymnodinium splendens	0.00	0.22	0.40	0.36	0.47	86.75
Nitzschia sp.	0.00	0.19	0.40	0.28	0.46	87.21
Navicula sp.	0.00	0.19	0.40	0.38	0.46	87.67
Scrippsiella sp.	0.18	0.00	0.40	0.33	0.46	88.14
Leptocylindricus danicus	0.20	0.00	0.38	0.33	0.44	88.58
Pleurosigma sp.	0.16	0.00	0.38	0.30	0.43	89.01
Chaetoceros neogracile	0.17	0.00	0.35	0.34	0.40	89.41
Nitzschia tryblionella	0.00	0.16	0.33	0.38	0.38	89.79
Bluegreen filamentous sp.	0.15	0.00	0.32	0.34	0.37	90.16

Groups 75%Grp13 & 75%Grp2

Average dissimilarity = 87.31

Group 75%Grp13 Group 75%Grp2

Species	Av. Abund	Av. Abund	Av. Diss	Diss/SD	Contrib%	Cum. %
Skeletonema costatum	5.90	3.45	6.73	1.20	7.71	7.71
Synechocystis aquaticus Sauvageau	0.00	2.99	5.90	1.39	6.76	14.47
Cryptomonas sp.1	0.00	2.59	5.19	1.96	5.94	20.41
Prorocentrum minimum	1.59	0.00	2.86	0.97	3.28	23.68
Thalassiosira pseudonana	1.56	0.00	2.74	0.83	3.14	26.83
Eutreptia sp.	1.43	0.00	2.57	0.99	2.94	29.76
Thalassiosira sp.	1.38	0.00	2.54	0.65	2.91	32.67
Gymnodinium simplex	0.00	1.01	2.03	0.84	2.32	35.00
Ceratium hircus	0.08	0.97	1.95	0.64	2.23	37.23
Chaetoceros subtilis	0.83	0.35	1.77	0.83	2.03	39.25
Peridinium cerasus	0.00	0.87	1.68	0.73	1.92	41.17
Schroederia setigera	0.82	0.00	1.60	0.90	1.83	43.00
Peridinium aciculiferum	0.84	0.00	1.56	0.82	1.78	44.79
Rhizosolenia setigera	0.16	0.73	1.53	0.64	1.76	46.54
Cyclotella sp.	0.83	0.15	1.53	0.57	1.76	48.30
Chlymentomonas sp.	0.00	0.80	1.50	0.80	1.72	50.02
Thalassiosira decipiens	0.84	0.00	1.45	0.78	1.66	51.68
Unknown pennate diatom sp.	0.81	0.00	1.43	0.69	1.64	53.32
Nitzschia longissima	0.74	0.00	1.36	0.97	1.56	54.88
Eutreptiella sp.	0.00	0.69	1.33	0.71	1.53	56.41
Leptocylindricus minimum	0.75	0.00	1.24	0.58	1.42	57.82
Euglena sp.	0.69	0.00	1.20	0.44	1.38	59.20
Scrippsiella sp.	0.59	0.00	1.16	0.64	1.33	60.53
Ceratulina bergonii	0.53	0.00	1.09	0.42	1.25	61.78
Nitzschia closterium	0.62	0.00	1.09	0.90	1.25	63.03
Thalassionema nitzschoides	0.20	0.38	1.08	0.47	1.24	64.28
Biddulphia sinensis	0.00	0.57	1.05	0.58	1.20	65.47
Chroococcus minutus	0.00	0.47	1.02	0.34	1.17	66.64
Merismopedia punctata	0.54	0.00	0.93	0.46	1.07	67.71
Gymnodinium sp.	0.53	0.00	0.92	0.70	1.06	68.76
Chaetoceros compressum	0.00	0.49	0.91	0.48	1.04	69.80
Schizothrix sp.	0.49	0.00	0.85	0.43	0.97	70.78
Calycomonas ovalis	0.00	0.41	0.79	0.47	0.91	71.69
Prorocentrum micans	0.13	0.33	0.75	0.57	0.86	72.55
Scenedesmus quadricauda	0.46	0.00	0.74	0.48	0.85	73.39
Akistrodesmus falcatus	0.43	0.00	0.74	0.54	0.85	74.24
Crucigenia sp.	0.38	0.00	0.66	0.48	0.76	75.00
Chaetoceros decipiens	0.00	0.33	0.66	0.43	0.75	75.75
Amphidinium crassum	0.00	0.37	0.65	0.43	0.75	76.50
Nitzschia pungens	0.12	0.26	0.65	0.46	0.74	77.25
Chaetoceros neogracile	0.31	0.00	0.63	0.52	0.72	77.97
Unknown flagellate sp. 1	0.00	0.34	0.63	0.56	0.72	78.68

Spermatozoopsis exultans	0.00	0.34	0.63	0.43	0.72	79.40
Pyramimonas sp.	0.33	0.00	0.56	0.35	0.65	80.05
Coscinodiscus eccentricus	0.00	0.30	0.56	0.50	0.64	80.69
Cryptomonas ovata	0.00	0.23	0.53	0.34	0.60	81.29
Nostoc sp.(trichomes)	0.27	0.00	0.50	0.42	0.57	81.86
Actinopterychus undulatus	0.00	0.23	0.49	0.30	0.56	82.42
Peridinium sp.	0.31	0.00	0.48	0.55	0.55	82.98
Rhizosolenia calcar-avis	0.00	0.28	0.48	0.34	0.55	83.52
Chaetoceros socialis	0.28	0.00	0.46	0.36	0.53	84.05
Scenedesmus bijinga	0.28	0.00	0.44	0.43	0.51	84.56
Nitzschia palea	0.00	0.25	0.43	0.35	0.49	85.05
Gymnodinium splendens	0.00	0.22	0.38	0.36	0.44	85.49
Navicula sp.	0.00	0.19	0.38	0.37	0.43	85.93
Nitzschia sp.	0.00	0.19	0.38	0.27	0.43	86.36
Bacillaria paradoxa	0.00	0.19	0.38	0.30	0.43	86.79
Bluegreen filamentous sp.	0.21	0.00	0.36	0.42	0.41	87.20
Scenedesmus acuminatus	0.19	0.00	0.32	0.35	0.37	87.57
Nitzschia tryblionella	0.00	0.16	0.32	0.37	0.36	87.93
Gonyaulax scrippsae	0.00	0.16	0.30	0.37	0.35	88.27
Gonyaulax palustre	0.00	0.15	0.30	0.30	0.35	88.62
Gonyaulax polygramma	0.15	0.00	0.27	0.36	0.31	88.93
Asterionella glacialis	0.00	0.13	0.26	0.21	0.30	89.23
Rhizosolenia styliformis	0.00	0.16	0.26	0.21	0.30	89.53
Nitzschia sigma	0.15	0.00	0.25	0.27	0.29	89.81
Rhizosolenia stolterfothii	0.00	0.13	0.25	0.21	0.29	90.10

Groups 75%Grp9 & 75%Grp2

Average dissimilarity = 88.31

Species	Group 75%Grp9 Av.Abund	Group 75%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	5.07	3.45	6.20	1.30	7.02	7.02
Synechocystis aquaticus Sauvageau	0.00	2.99	5.63	1.23	6.38	13.40
Cryptomonas sp.1	0.00	2.59	4.95	1.62	5.60	19.00
Schizothrix sp.	2.14	0.00	3.43	0.68	3.88	22.88
Thalassionema nitzschoides	1.63	0.38	3.14	0.75	3.56	26.44
Ceratulina bergonii	1.39	0.00	2.46	0.74	2.79	29.23
Leptocylicus minimum	1.63	0.00	2.19	1.12	2.48	31.71
Ceratium hircus	0.73	0.97	2.13	0.77	2.42	34.13
Rhizosolenia setigera	0.93	0.73	2.04	0.87	2.31	36.43
Gymnodinium simplex	0.00	1.01	1.94	0.78	2.19	38.63
Chaetoceros socialis	1.47	0.00	1.88	0.82	2.13	40.75

Nitzschia closterium	1.37	0.00	1.86	0.82	2.10	42.86
Chaetoceros neogracile	1.24	0.00	1.84	0.89	2.09	44.94
Unknown pennate diatom sp.	1.09	0.00	1.82	0.84	2.06	47.01
Nitzschia pungens	1.11	0.26	1.73	0.78	1.96	48.97
Prorocentrum micans	0.97	0.33	1.64	0.99	1.86	50.82
Peridinium cerasus	0.00	0.87	1.60	0.69	1.81	52.63
Chaetoceros compressum	0.87	0.49	1.59	0.76	1.81	54.44
Thalassiosira sp.	0.93	0.00	1.43	0.64	1.62	56.06
Chlymentomonas sp.	0.00	0.80	1.43	0.75	1.61	57.68
Eutreptiella sp.	0.00	0.69	1.27	0.67	1.44	59.11
Asterionella glacialis	0.87	0.13	1.24	0.67	1.41	60.52
Chaetoceros subtilis	0.59	0.35	1.13	0.69	1.28	61.80
Thalassiosira decipiens	0.64	0.00	1.09	0.59	1.23	63.03
Chaetoceros sp.	0.56	0.00	1.04	0.34	1.18	64.21
Biddulphia sinensis	0.00	0.57	0.99	0.55	1.13	65.34
Chroococcus minutus	0.00	0.47	0.98	0.32	1.10	66.44
Prorocentrum minimum	0.72	0.00	0.94	0.94	1.07	67.51
Nitzschia longissima	0.64	0.00	0.83	0.86	0.94	68.45
Peridinium sp.	0.41	0.00	0.79	0.53	0.89	69.34
Calycomonas ovalis	0.00	0.41	0.75	0.44	0.85	70.20
Melosira sp.	0.26	0.00	0.75	0.32	0.85	71.04
Rhizosolenia calcar-avis	0.22	0.28	0.70	0.48	0.79	71.83
Chaetoceros decipiens	0.00	0.33	0.63	0.41	0.71	72.54
Amphidinium crassum	0.00	0.37	0.62	0.41	0.70	73.24
Leptocylindricus danicus	0.46	0.00	0.60	0.59	0.68	73.93
Amphora sp.	0.41	0.00	0.60	0.42	0.68	74.61
Spermatozoopsis exultans	0.00	0.34	0.60	0.41	0.68	75.29
Unknown flagellate sp. 1	0.00	0.34	0.60	0.53	0.68	75.96
Navicula sp.	0.15	0.19	0.55	0.49	0.63	76.59
Coscinodiscus eccentricus	0.00	0.30	0.53	0.48	0.60	77.19
Cryptomonas ovata	0.00	0.23	0.50	0.32	0.57	77.76
Actinopterychus undulatus	0.00	0.23	0.46	0.28	0.53	78.29
Thalassiosira pseudonana	0.37	0.00	0.46	0.39	0.52	78.81
Gonyaulax polygramma	0.22	0.00	0.45	0.35	0.51	79.32
Pleurosigma sp.	0.27	0.00	0.45	0.46	0.51	79.83
Nitzschia sp.	0.05	0.19	0.44	0.31	0.50	80.33
Chaetoceros curvisetus	0.43	0.00	0.43	0.33	0.49	80.82
Bacillaria paradoxa	0.09	0.19	0.43	0.33	0.49	81.31
Thalassiosira oestrupii	0.30	0.00	0.42	0.50	0.47	81.78
Chaetoceros lorenzianum	0.32	0.00	0.42	0.43	0.47	82.25
Nitzschia palea	0.00	0.25	0.41	0.34	0.46	82.72
Gonyaulax monilata	0.19	0.00	0.39	0.35	0.45	83.16
Peridinium tuba	0.27	0.00	0.38	0.48	0.43	83.59

Rhizosolenia stolterfothii	0.10	0.13	0.37	0.29	0.42	84.01
Gymnodinium splendens	0.00	0.22	0.36	0.34	0.41	84.42
Rhizosolenia delicatula	0.26	0.00	0.36	0.42	0.40	84.82
Gymnodinium sp.	0.25	0.00	0.35	0.50	0.39	85.22
Hemiaulis hauckii	0.20	0.05	0.34	0.41	0.39	85.60
Thalassiothrix frauenfeldianum	0.18	0.00	0.33	0.32	0.38	85.98
Scrippsiella sp.	0.24	0.00	0.33	0.43	0.37	86.36
Gonyaulax digitalis	0.20	0.00	0.32	0.30	0.36	86.72
Coscinosira polychorda	0.21	0.00	0.31	0.36	0.35	87.06
Nitzschia tryblionella	0.00	0.16	0.30	0.35	0.34	87.40
Gonyaulax palustre	0.00	0.15	0.29	0.28	0.33	87.73
Gonyaulax scrippsae	0.00	0.16	0.29	0.35	0.33	88.06
Eutreptia sp.	0.14	0.00	0.29	0.26	0.32	88.38
Cyclotella sp.	0.00	0.15	0.28	0.27	0.31	88.69
Coscinodiscus sp.	0.10	0.00	0.27	0.26	0.31	89.00
Nostoc sp.(trichomes)	0.17	0.00	0.27	0.34	0.30	89.30
Amphiprora sp.	0.21	0.00	0.25	0.44	0.29	89.59
Rhizosolenia styliiformis	0.00	0.16	0.24	0.20	0.28	89.87
Anabaena spiroides v. crassa	0.00	0.13	0.24	0.27	0.27	90.14

Groups 75%Grp11 & 75%Grp2

Average dissimilarity = 84.99

Species	Group 75%Grp11 Av.Abund	Group 75%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	0.00	2.99	6.96	1.41	8.19	8.19
Cryptomonas sp.1	0.00	2.59	6.12	2.01	7.20	15.39
Skeletonema costatum	4.09	3.45	4.90	1.23	5.76	21.15
Nitzschia closterium	1.55	0.00	3.24	1.62	3.81	24.96
Gymnodinium simplex	0.00	1.01	2.40	0.85	2.82	27.79
Chaetoceros subtilis	0.83	0.35	2.37	0.75	2.79	30.58
Ceratium hircus	0.14	0.97	2.33	0.67	2.74	33.32
Rhizosolenia setigera	0.54	0.73	2.14	0.83	2.52	35.83
Peridinium aciculiferum	0.79	0.00	1.99	0.80	2.34	38.18
Peridinium cerasus	0.00	0.87	1.96	0.74	2.31	40.49
Leptocylindricus minimum	0.93	0.00	1.95	0.87	2.30	42.78
Chaetoceros socialis	0.99	0.00	1.95	0.89	2.29	45.07
Chlymentomonas sp.	0.00	0.80	1.75	0.81	2.06	47.13
Thalassionema nitzschoides	0.48	0.38	1.68	0.63	1.97	49.11
Unknown pennate diatom sp.	0.84	0.00	1.65	0.81	1.94	51.04
Eutreptiella sp.	0.00	0.69	1.56	0.72	1.84	52.88
Chaetoceros compressum	0.31	0.49	1.50	0.63	1.77	54.65

Ceratulina bergonii	0.59	0.00	1.46	0.42	1.72	56.37
Schizothrix sp.	0.67	0.00	1.46	0.43	1.72	58.09
Chaetoceros neogracile	0.63	0.00	1.27	0.65	1.50	59.59
Biddulphia sinensis	0.00	0.57	1.22	0.58	1.43	61.02
Chroococcus minutus	0.00	0.47	1.22	0.34	1.43	62.46
Nitzschia longissima	0.53	0.00	1.14	0.81	1.34	63.79
Nitzschia pungens	0.30	0.26	1.05	0.55	1.24	65.03
Prorocentrum micans	0.25	0.33	1.04	0.61	1.22	66.26
Thalassiosira pseudonana	0.51	0.00	0.94	0.64	1.11	67.36
Calycomonas ovalis	0.00	0.41	0.93	0.47	1.09	68.46
Asterionella glacialis	0.35	0.13	0.90	0.45	1.06	69.51
Thalassiosira sp.	0.36	0.00	0.87	0.39	1.02	70.53
Chaetoceros decipiens	0.00	0.33	0.78	0.43	0.91	71.45
Amphidinium crassum	0.00	0.37	0.76	0.44	0.89	72.33
Spermatozoopsis exultans	0.00	0.34	0.73	0.44	0.86	73.20
Unknown flagellate sp. 1	0.00	0.34	0.73	0.56	0.86	74.06
Peridinium sp.	0.32	0.00	0.71	0.42	0.84	74.89
Cyclotella sp.	0.17	0.15	0.69	0.44	0.81	75.70
Gonyaulax polygramma	0.27	0.00	0.67	0.42	0.78	76.49
Coscinodiscus eccentricus	0.00	0.30	0.65	0.51	0.77	77.26
Prorocentrum minimum	0.35	0.00	0.65	0.55	0.77	78.02
Rhizosolenia calcar-avis	0.06	0.28	0.65	0.40	0.76	78.79
Cryptomonas ovata	0.00	0.23	0.63	0.34	0.74	79.53
Gymnodinium sp.	0.30	0.00	0.62	0.47	0.73	80.26
Eutreptia sp.	0.31	0.00	0.61	0.49	0.71	80.97
Actinopterychus undulatus	0.00	0.23	0.58	0.30	0.68	81.65
Navicula sp.	0.06	0.19	0.52	0.43	0.61	82.26
Nitzschia palea	0.00	0.25	0.50	0.36	0.59	82.85
Euglena sp.	0.26	0.00	0.47	0.34	0.55	83.40
Nitzschia sp.	0.00	0.19	0.45	0.28	0.53	83.93
Gymnodinium splendens	0.00	0.22	0.44	0.36	0.52	84.45
Bacillaria paradoxa	0.00	0.19	0.44	0.30	0.52	84.97
Thalassiosira oestrupii	0.23	0.00	0.43	0.42	0.51	85.48
Cyclotella sp. (small)	0.15	0.00	0.39	0.23	0.46	85.94
Nitzschia tryblionella	0.00	0.16	0.37	0.37	0.44	86.37
Amphora sp.	0.21	0.00	0.36	0.42	0.42	86.79
Gonyaulax palustre	0.00	0.15	0.36	0.30	0.42	87.22
Gonyaulax scrippsae	0.00	0.16	0.35	0.37	0.41	87.63
Scrippsiella sp.	0.19	0.00	0.32	0.43	0.38	88.01
Thalassiosira decipiens	0.12	0.00	0.30	0.31	0.36	88.36
Rhizosolenia stolterfothii	0.00	0.13	0.29	0.21	0.35	88.71
Rhizosolenia styliformis	0.00	0.16	0.29	0.21	0.35	89.05
Anabaena spiroides v. crassa	0.00	0.13	0.29	0.29	0.34	89.40

Leptocylindricus danicus	0.15	0.00	0.28	0.33	0.33	89.73
Cyclotella undulata	0.00	0.12	0.28	0.30	0.33	90.06

Groups 75%Grp1 & 75%Grp2

Average dissimilarity = 71.59

Species	Group 75%Grp1 Av.Abund	Group 75%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Skeletonema costatum	1.15	3.45	5.49	1.41	7.66	7.66
Synechocystis aquaticus Sauvageau	3.49	2.99	4.13	1.17	5.77	13.44
Scenedesmus quadricauda v. Westii	2.19	0.11	4.10	1.33	5.72	19.16
Gonyaulax palustre	1.82	0.15	3.31	1.49	4.63	23.79
Spermatozoopsis exultans	1.79	0.34	3.23	1.23	4.51	28.30
Cryptomonas erosa	1.46	0.12	2.62	1.19	3.66	31.96
Cryptomonas sp.1	3.26	2.59	2.29	1.36	3.20	35.16
Chlymentomonas sp.	1.14	0.80	2.21	1.13	3.09	38.25
Cryptomonas ovata	1.01	0.23	2.05	0.94	2.87	41.12
Gymnodinium simplex	0.20	1.01	1.96	0.92	2.74	43.86
Ceratium hircus	0.00	0.97	1.87	0.64	2.62	46.47
Eutreptiella sp.	0.80	0.69	1.82	1.04	2.54	49.01
Coelosphaerium sp.	0.90	0.10	1.71	0.61	2.39	51.40
Chroococcus minutus	0.56	0.47	1.66	0.54	2.32	53.72
Peridinium cerasus	0.00	0.87	1.64	0.75	2.29	56.01
Nitzschia palea	0.70	0.25	1.39	0.89	1.94	57.96
Rhizosolenia setigera	0.00	0.73	1.37	0.60	1.92	59.88
Cyclotella sp.	0.73	0.15	1.34	0.72	1.88	61.75
Unknown flagellate sp. 1	0.56	0.34	1.32	0.79	1.85	63.60
Navicula sp.	0.48	0.19	1.12	0.74	1.57	65.17
Biddulphia sinensis	0.00	0.57	1.02	0.59	1.43	66.60
Cyclotella undulata	0.37	0.12	0.93	0.38	1.30	67.90
Chaetoceros subtilis	0.16	0.35	0.90	0.51	1.25	69.15
Chaetoceros compressum	0.00	0.49	0.89	0.49	1.25	70.40
Calycomonas ovalis	0.05	0.41	0.82	0.51	1.14	71.54
Thalassionema nitzschoides	0.00	0.38	0.74	0.36	1.03	72.57
Amphidinium crassum	0.08	0.37	0.71	0.48	0.99	73.56
Coscinodiscus eccentricus	0.08	0.30	0.67	0.55	0.94	74.50
Merismopedia glauca	0.32	0.10	0.66	0.42	0.93	75.43
Chaetoceros decipiens	0.00	0.33	0.64	0.44	0.90	76.33
Nitzschia pungens	0.12	0.26	0.61	0.46	0.86	77.19
Prorocentrum micans	0.00	0.33	0.61	0.49	0.85	78.04
Actinopterychus undulatus	0.07	0.23	0.60	0.36	0.83	78.87
Nitzschia fruticosa	0.30	0.06	0.59	0.40	0.83	79.69

Euglena acus	0.35	0.00	0.58	0.34	0.81	80.51
Nitzschia tryblionella	0.17	0.16	0.58	0.52	0.81	81.32
Nitzschia sp.	0.10	0.19	0.54	0.39	0.75	82.07
Scenedesmus abundans v. brevicauda	0.35	0.00	0.53	0.37	0.74	82.81
Bacillaria paradoxa	0.09	0.19	0.52	0.37	0.72	83.54
Gymnodinium splendens	0.12	0.22	0.51	0.46	0.71	84.25
Paralia sulcata	0.20	0.11	0.49	0.47	0.69	84.93
Stephanodiscus sp.	0.26	0.00	0.49	0.35	0.68	85.61
Spirulina sp.1	0.24	0.06	0.48	0.40	0.67	86.28
Rhizosolenia calcar-avis	0.00	0.28	0.47	0.35	0.66	86.94
Merismopedia sp.	0.20	0.10	0.44	0.36	0.61	87.55
Euglena sp.	0.21	0.00	0.43	0.21	0.60	88.15
Cryptomonas curvata	0.24	0.00	0.42	0.41	0.59	88.75
Gonyaulax scrippsae	0.05	0.16	0.38	0.43	0.54	89.28
Lyngbya contorta (trichome)	0.25	0.00	0.37	0.32	0.51	89.79
Oocystis sp.	0.27	0.00	0.36	0.37	0.51	90.30

Groups 75%Grp3 & 75%Grp2

Average dissimilarity = 62.22

Species	Group 75%Grp3 Av.Abund	Group 75%Grp2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Synechocystis aquaticus Sauvageau	2.77	2.99	4.47	1.23	7.19	7.19
Skeletonema costatum	3.76	3.45	4.40	1.12	7.08	14.27
Cryptomonas sp.1	2.99	2.59	2.82	1.16	4.53	18.79
Peridinium cerasus	0.90	0.87	2.60	0.93	4.17	22.97
Gymnodinium simplex	0.62	1.01	2.39	1.04	3.84	26.81
Chlymentomonas sp.	0.99	0.80	2.39	1.04	3.84	30.65
Ceratium hircus	0.38	0.97	2.37	0.76	3.81	34.46
Gymnodinium splendens	0.94	0.22	2.22	0.63	3.57	38.03
Chroococcus minutus	0.70	0.47	2.22	0.56	3.56	41.59
Eutreptiella sp.	0.78	0.69	2.08	0.99	3.34	44.93
Cryptomonas ovata	0.76	0.23	1.77	0.83	2.84	47.77
Spermatozoopsis exultans	0.77	0.34	1.74	0.90	2.80	50.57
Rhizosolenia setigera	0.16	0.73	1.66	0.67	2.66	53.23
Gonyaulax palustre	0.72	0.15	1.57	0.82	2.52	55.75
Calycomonas ovalis	0.45	0.41	1.51	0.65	2.43	58.18
Unknown flagellate sp. 1	0.50	0.34	1.35	0.78	2.17	60.36
Biddulphia sinensis	0.15	0.57	1.31	0.65	2.10	62.46
Cyclotella sp.	0.55	0.15	1.29	0.65	2.07	64.53
Chaetoceros subtilis	0.33	0.35	1.22	0.64	1.96	66.48
Chaetoceros compressum	0.14	0.49	1.19	0.54	1.91	68.40

Cryptomonas erosa	0.49	0.12	1.06	0.68	1.70	70.10
Chaetoceros decipiens	0.18	0.33	0.99	0.53	1.59	71.69
Prorocentrum micans	0.22	0.33	0.97	0.61	1.56	73.25
Thalassionema nitzschoides	0.05	0.38	0.90	0.38	1.45	74.69
Scenedesmus quadricauda v. Westii	0.39	0.11	0.88	0.55	1.41	76.10
Amphidinium crassum	0.09	0.37	0.82	0.50	1.31	77.41
Coscinodiscus eccentricus	0.12	0.30	0.75	0.59	1.21	78.63
Nitzschia palea	0.15	0.25	0.69	0.49	1.11	79.73
Actinopterychus undulatus	0.07	0.23	0.65	0.36	1.05	80.78
Nitzschia sp.	0.10	0.19	0.63	0.36	1.01	81.80
Rhizosolenia calcar-avis	0.06	0.28	0.61	0.40	0.97	82.77
Nitzschia pungens	0.03	0.26	0.58	0.40	0.93	83.70
Cyclotella undulata	0.18	0.12	0.58	0.40	0.93	84.63
Navicula sp.	0.11	0.19	0.56	0.48	0.91	85.54
Coelosphaerium sp.	0.21	0.10	0.55	0.36	0.88	86.41
Rhizosolenia stolterfothii	0.14	0.13	0.54	0.30	0.87	87.29
Rhizosolenia styliformis	0.12	0.16	0.51	0.34	0.83	88.11
Bacillaria paradoxa	0.03	0.19	0.45	0.33	0.73	88.84
Crucigenia fenestrata	0.13	0.08	0.43	0.28	0.68	89.53
Asterionella glacialis	0.06	0.13	0.42	0.28	0.68	90.20

Appendix L. BIOENV test results of all rivers (environmental parameters vs. species abundance patterns).

BIOENV

Worksheet

File: C:\MyFiles\3 Rivers\Combined
Files\chemcomposite0KwithspeciesBIOENV.pri
Sample selection: All
Variable selection: All

Similarity Matrix

File: C:\MyFiles\3 Rivers\Combined
Files\CombinedspeciessimmatrixBIOENV.sid
Data type: Similarities
Sample selection: All

Parameters

Rank correlation method: Spearman
Maximum number of variables: 5

Similarity Matrix Parameters for sample data worksheet:
Analyse between: Samples
Similarity measure: Normalised Euclidean distance
Standardise: No
Transform: Fourth root

Variables

- 1 TP
- 2 NH3
- 3 N23
- 4 CHLA
- 5 DO
- 6 COLOR
- 7 TURB
- 8 COND
- 9 PH
- 10 TEMP

Best results

Var	Corr.	Selections
5	0.429	3,6-9
4	0.429	3,6,8,9
5	0.424	1,3,6,8,9
4	0.418	1,6,8,9
5	0.417	1,6-9
1	0.415	8
3	0.412	6,8,9
5	0.410	3,6,8-10
5	0.410	1,3,6-8
4	0.409	3,6-8

Appendix M. BIOENV test results of all rivers (non-nutrient parameters only vs. species abundance patterns).

BIOENV

Worksheet

File: C:\MyFiles\3 Rivers\Combined
Files\chemcomposite0KwithspeciesBIOENV.pri
Sample selection: All
Variable selection: All
Similarity Matrix

File: C:\MyFiles\3 Rivers\Combined
Files\CombinedspeciessimatrixBIOENV.sid
Data type: Similarities
Sample selection: All

Parameters

Rank correlation method: Spearman
Maximum number of variables: 5

Similarity Matrix Parameters for sample data worksheet:
Analyse between: Samples
Similarity measure: Normalised Euclidean distance
Standardise: No
Transform: Fourth root

Variables

- 1 TP
- 2 NH3
- 3 N23
- 4 CHLA
- 5 DO
- 6 COLOR
- 7 TURB
- 8 COND
- 9 PH
- 10 TEMP

Best results

Var	Corr.	Selections
3	0.310	6, 7, 9
4	0.305	6, 7, 9, 10
2	0.301	6, 9
5	0.296	4, 6, 7, 9, 10
3	0.295	6, 9, 10
4	0.295	5-7, 9
4	0.293	4, 6, 7, 9
5	0.290	5-7, 9, 10
2	0.284	6, 7
4	0.284	4, 6, 9, 10

Appendix N. BIOENV test results of all rivers (nutrients only vs. species abundance patterns).

BIOENV

Biota and/or Environment matching

Worksheet

File: C:\MyFiles\3 Rivers\Combined
Files\chemcompositeOKwithspeciesBIOENV.pri
Sample selection: All
Variable selection: All
Similarity Matrix

File: C:\MyFiles\3 Rivers\Combined
Files\CombinedspeciessimatrixBIOENV.sid
Data type: Similarities
Sample selection: All

Parameters

Rank correlation method: Spearman
Maximum number of variables: 5

Similarity Matrix Parameters for sample data worksheet:
Analyse between: Samples
Similarity measure: Normalised Euclidean distance
Standardise: No
Transform: Fourth root

Variables

- 1 TP
- 2 NH3
- 3 N23
- 4 CHLA
- 5 DO
- 6 COLOR
- 7 TURB
- 8 COND
- 9 PH
- 10 TEMP

Best results

Var	Corr.	Selections
3	0.232	1, 3, 10
2	0.228	1, 3
1	0.213	1
4	0.205	1-3, 10
2	0.203	1, 10
2	0.191	3, 10
3	0.182	1-3
3	0.170	1, 2, 10
3	0.166	2, 3, 10
1	0.165	3

Appendix O. BIOENV test results of all rivers averaged by station (environmental variables vs. species abundance patterns).

BIOENV

Biota and/or Environment matching

Worksheet

File: F:\3 Rivers\Combined
Files\chemcompositeOKwithspeciesBIOENVavgriverstation.pri
Sample selection: All
Variable selection: All

Similarity Matrix

File: F:\3 Rivers\Combined
Files\CombinedspeciessimatrixBIOENVavgRiverstation.sid
Data type: Distances
Sample selection: All

Parameters

Rank correlation method: Spearman
Maximum number of variables: 5

Similarity Matrix Parameters for sample data worksheet:
Analyse between: Samples
Similarity measure: Normalised Euclidean distance
Standardise: No
Transform: None

Variables

- 1 TP
- 2 NH3
- 3 N23
- 4 CHLA
- 5 DO
- 6 COLOR
- 7 TURB
- 8 COND
- 9 PH
- 10 TEMP

Best results

No. Vars	Corr.	Selections
5	0.939	1, 2, 5, 8, 10
5	0.925	1, 2, 4, 8, 10
5	0.924	1, 2, 7, 8, 10
5	0.923	1, 4, 5, 8, 10
5	0.913	1, 2, 5, 9, 10
5	0.912	1, 5, 7, 8, 10
5	0.911	1, 2, 7, 9, 10
5	0.909	2, 5-7, 10
5	0.908	1, 2, 5, 6, 10
5	0.908	1, 2, 5, 7, 10

Appendix P. BIOENV test results of all rivers averaged by river station (non-nutrient parameters only vs. species abundance patterns).

BIOENV

Biota and/or Environment matching

Worksheet

File: C:\MyFiles\3 Rivers\Combined
Files\chemcompositeOKwithspeciesBIOENVavgriverstation.pri
Sample selection: All
Variable selection: All

Similarity Matrix

File: C:\MyFiles\3 Rivers\Combined
Files\CombinedspeciessimatrixBIOENVavgRiverstation.sid
Data type: Similarities
Sample selection: All

Parameters

Rank correlation method: Spearman
Maximum number of variables: 5

Similarity Matrix Parameters for sample data worksheet:
Analyse between: Samples
Similarity measure: Normalised Euclidean distance
Standardise: No
Transform: Fourth root

Variables

- 1 TP
- 2 NH3
- 3 N23
- 4 CHLA
- 5 DO
- 6 COLOR
- 7 TURB
- 8 COND
- 9 PH
- 10 TEMP

Best results

Var	Corr.	Selections
3	0.755	6, 9, 10
4	0.730	1, 6, 9, 10
4	0.689	3, 6, 9, 10
4	0.681	5, 6, 9, 10
4	0.681	6, 7, 9, 10
4	0.676	4, 6, 9, 10
5	0.667	1, 5, 6, 9, 10
3	0.664	1, 6, 10
5	0.662	1, 6, 7, 9, 10
5	0.661	1, 4, 6, 9, 10

Appendix Q. BIOENV test results of all rivers averaged by river station (nutrients only vs. species abundance patterns).

BIOENV

Biota and/or Environment matching

Worksheet

File: F:\3 Rivers\Combined
Files\chemcompositeOKwithspeciesBIOENVavgriverstation.pri
Sample selection: All
Variable selection: All

Similarity Matrix

File: F:\3 Rivers\Combined
Files\CombinedspeciessimatrixBIOENVavgRiverstation.sid
Data type: Distances
Sample selection: All

Parameters

Rank correlation method: Spearman
Maximum number of variables: 5

Similarity Matrix Parameters for sample data worksheet:
Analyse between: Samples
Similarity measure: Normalised Euclidean distance
Standardise: No
Transform: Fourth root

Variables

- 1 TP
- 2 NH3
- 3 N23
- 4 CHLA
- 5 DO
- 6 COLOR
- 7 TURB
- 8 COND
- 9 PH
- 10 TEMP

Best results

No. Vars	Corr.	Selections
3	0.696	1-3
2	0.688	1, 2
2	0.603	2, 3
2	0.591	1, 3
1	0.491	2
1	0.472	3
1	0.458	1

Appendix R. BIOENV test results of the Alafia River alone averaged by river station (environmental parameters vs. species abundance patterns).

BIOENV

Biota and/or Environment matching

Worksheet

File: C:\MyFiles\3 Rivers\Alafia\MBNfiles\Alafia
PRIMER\AlafiachemOKwithspeciesBIOENVavgbystation.pri
Sample selection: All
Variable selection: All

Similarity Matrix

File: Sheet7
Data type: Similarities
Sample selection: All

Parameters

Rank correlation method: Spearman
Maximum number of variables: 5

Similarity Matrix Parameters for sample data worksheet:
Analyse between: Samples
Similarity measure: Normalised Euclidean distance
Standardise: No
Transform: Fourth root

Variables

- 1 OP
- 2 TP
- 3 NH3
- 4 N23
- 5 Norg
- 6 TOC
- 7 DO
- 8 DO sat
- 9 COLOR
- 10 TURB
- 11 COND
- 12 PH
- 13 SAL
- 14 TEMP

Best results

Var	Corr.	Selections
4	0.952	3, 8, 11, 13
3	0.948	3, 10, 11
2	0.945	10, 11
4	0.940	4, 10, 11, 13
4	0.939	10-13
5	0.939	3, 10-13
3	0.938	3, 11, 12
3	0.938	3, 12, 13
5	0.938	4, 8, 11-13
5	0.938	4, 10-13

Appendix S. BIOENV test results of the Alafia River alone averaged by river station (nutrients vs. species abundance patterns).

BIOENV

Biota and/or Environment matching

Worksheet

File: C:\MyFiles\3 Rivers\Alafia\MBNfiles\Alafia
PRIMER\AlafiachemOKwithspeciesBIOENVavgbystation.pri
Sample selection: All
Variable selection: All

Similarity Matrix

File: Sheet7
Data type: Similarities
Sample selection: All

Parameters

Rank correlation method: Spearman
Maximum number of variables: 5

Similarity Matrix Parameters for sample data worksheet:
Analyse between: Samples
Similarity measure: Normalised Euclidean distance
Standardise: No
Transform: Fourth root

Variables

- 1 OP
- 2 TP
- 3 NH3
- 4 N23
- 5 Norg
- 6 TOC
- 7 DO
- 8 DO sat
- 9 COLOR
- 10 TURB
- 11 COND
- 12 PH
- 13 SAL
- 14 TEMP

Best results

Var	Corr.	Selections
2	0.783	4,5
3	0.774	3-5
3	0.757	4,5,14
2	0.739	3,5
1	0.732	4
3	0.722	3,4,14
4	0.722	3-5,14
2	0.710	4,14
3	0.708	3,5,14
2	0.705	3,4

Appendix T. BIOENV test results of the Alafia River alone averaged by river station (non-nutrient parameters vs. species abundance patterns).

BIOENV

Biota and/or Environment matching

Worksheet

File: C:\MyFiles\3 Rivers\Alafia\MBNfiles\Alafia
PRIMER\AlafiachemOKwithspeciesBIOENVavgbystation.pri
Sample selection: All
Variable selection: All

Similarity Matrix

File: Sheet7
Data type: Similarities
Sample selection: All

Parameters

Rank correlation method: Spearman
Maximum number of variables: 5

Similarity Matrix Parameters for sample data worksheet:
Analyse between: Samples
Similarity measure: Normalised Euclidean distance
Standardise: No
Transform: Fourth root

Variables

- 1 OP
- 2 TP
- 3 NH3
- 4 N23
- 5 Norg
- 6 TOC
- 7 DO
- 8 DO sat
- 9 COLOR
- 10 TURB
- 11 COND
- 12 PH
- 13 SAL
- 14 TEMP

Best results

Var	Corr.	Selections
2	0.945	10,11
2	0.929	11,12
2	0.905	8,11
2	0.883	11,14
2	0.853	7,11
3	0.852	7,11,14
3	0.852	9-11
3	0.848	9,11,12
4	0.845	9-12
4	0.840	8,9,11,12

Appendix U. BIOENV test results of the Peace River alone (environmental parameters vs. species abundance patterns).

BIOENV

Biota and/or Environment matching

Worksheet

File: F:\3 Rivers\Peace River Phytoplankton\MBNfiles\Peace
PRIMER\PRchemOKwithspeciesBIOENV.pri
Sample selection: All
Variable selection: All

Similarity Matrix

File: F:\3 Rivers\Peace River Phytoplankton\MBNfiles\Peace
PRIMER\PRspeciesOKwithchemsimmatrix.sid
Data type: Similarities
Sample selection: All

Parameters

Rank correlation method: Spearman
Maximum number of variables: 5

Similarity Matrix Parameters for sample data worksheet:
Analyse between: Samples
Similarity measure: Normalised Euclidean distance
Standardise: No
Transform: None

Variables

- 1 OP
- 2 TP
- 3 NH3
- 4 N23
- 5 TN
- 6 CHLA
- 7 DO
- 8 COLOR
- 9 COND
- 10 PH
- 11 SAL
- 12 TEMP

Best results

No. Vars	Corr.	Selections
5	0.385	1, 2, 5, 7, 11
5	0.379	1, 5, 7, 8, 11
4	0.378	1, 5, 7, 11
4	0.375	1, 2, 7, 11
4	0.373	1, 2, 5, 7
4	0.373	1, 2, 5, 11
3	0.372	1, 5, 11
5	0.371	1, 2, 5, 6, 11
5	0.371	1, 2, 5, 7, 8
5	0.371	1, 4, 5, 7, 11

Appendix V. BIOENV test results of the Little Manatee River alone (environmental parameters vs. species abundance patterns).

BIOENV

Biota and/or Environment matching

Worksheet

File: F:\3 Rivers\LMR\mbnfiles\LMR PRIMER\LMRChemOKwithspeciesBIOENV.pri

Sample selection: All

Variable selection: All

Similarity Matrix

File: F:\3 Rivers\LMR\mbnfiles\LMR PRIMER\LMRspeciesBioenvsimmatrix.sid

Data type: Similarities

Sample selection: All

Parameters

Rank correlation method: Spearman

Maximum number of variables: 5

Similarity Matrix Parameters for sample data worksheet:

Analyse between: Samples

Similarity measure: Normalised Euclidean distance

Standardise: No

Transform: None

Variables

- 1 Phaeo
- 2 TP
- 3 NH3
- 4 N23
- 5 CHLA
- 6 TSS
- 7 DO
- 8 COLOR
- 9 TURB
- 10 COND
- 11 PH
- 12 TEMP

Best results

No. Vars	Corr.	Selections
2	0.452	6,10
2	0.452	9,10
5	0.446	2,4,9-11
4	0.446	2,9-11
3	0.445	6,9,10
3	0.440	9-11
5	0.439	2,6,9-11
3	0.435	2,9,10
4	0.433	6,9-11
5	0.433	2,4,6,10,11

Appendix W. BIOENV test results of the Alafia River alone (environmental parameters vs. species abundance patterns).

BIOENV

Biota and/or Environment matching

Worksheet

File: F:\3 Rivers\Alafia\MBNfiles\Alafia PRIMER\alafiachemBIOENV.pri

Sample selection: All

Variable selection: All

Similarity Matrix

File: F:\3 Rivers\Alafia\MBNfiles\Alafia
PRIMER\AlafiaspeciesOKwithchemsimmatrix.sid

Data type: Similarities

Sample selection: All

Parameters

Rank correlation method: Spearman

Maximum number of variables: 5

Similarity Matrix Parameters for sample data worksheet:

Analyse between: Samples

Similarity measure: Normalised Euclidean distance

Standardise: No

Transform: None

Variables

- 1 OP
- 2 TP
- 3 NH3
- 4 N23
- 5 Norg
- 6 TOC
- 7 DO
- 8 DO sat
- 9 COLOR
- 10 TURB
- 11 COND
- 12 PH
- 13 SAL
- 14 TEMP

Best results

No. Vars	Corr.	Selections
4	0.456	4, 6, 7, 11
5	0.447	4, 6, 7, 11, 14
4	0.444	4, 6, 7, 13
5	0.439	3, 4, 6, 7, 11
2	0.439	4, 6
5	0.437	4, 6, 7, 10, 11
5	0.434	4, 6, 7, 13, 14
3	0.434	4, 7, 11
5	0.434	4, 6, 11, 12, 14
5	0.434	4, 7, 9, 11, 14

Appendix X. BIOENV test results of the Alafia River alone (nutrients vs. species abundance patterns).

BIOENV

Biota and/or Environment matching

Worksheet

File: K:\3 Rivers\Alafia\MBNfiles\Alafia PRIMER\alafiachemBIOENV.pri

Sample selection: All

Variable selection: All

Similarity Matrix

File: K:\3 Rivers\Alafia\MBNfiles\Alafia

PRIMER\alafiaspeciesOKwithchemBIOENVsimmatrix.sid

Data type: Similarities

Sample selection: All

Parameters

Rank correlation method: Spearman

Maximum number of variables: 5

Similarity Matrix Parameters for sample data worksheet:

Analyse between: Samples

Similarity measure: Normalised Euclidean distance

Standardise: No

Transform: None

Variables

- 1 OP
- 2 TP
- 3 NH3
- 4 N23
- 5 Norg
- 6 TOC
- 7 DO
- 8 DO sat
- 9 COLOR
- 10 TURB
- 11 COND
- 12 PH
- 13 SAL
- 14 TEMP

Best results

Var	Corr.	Selections
2	0.390	4,6
3	0.375	3,4,6
3	0.370	4-6
4	0.363	3-6
1	0.358	4
2	0.350	4,5
3	0.349	3-5
5	0.342	2-6
2	0.336	3,4
4	0.335	2,4-6

Appendix Y. BIOENV test results of all the rivers averaged by river station using the phytoplankton data aggregated to the group level (environmental parameters vs. species abundance patterns).

BIOENV

Biota and/or Environment matching

Worksheet

File: K:\3 Rivers\Combined
Files\chemcompositeOKwithspeciesBIOENVavgriverstation.pri
Sample selection: All
Variable selection: All

Similarity Matrix

File: K:\3 Rivers\Combined
Files\CombinedspeciessimatrixBIOENVaggregatedtogroupavgRiverstation.sid
Data type: Similarities
Sample selection: All

Parameters

Rank correlation method: Spearman
Maximum number of variables: 5

Similarity Matrix Parameters for sample data worksheet:
Analyse between: Samples
Similarity measure: Normalised Euclidean distance
Standardise: No
Transform: None

Variables

- 1 TP
- 2 NH3
- 3 N23
- 4 CHLA
- 5 DO
- 6 COLOR
- 7 TURB
- 8 COND
- 9 PH
- 10 TEMP

Best results

Var	Corr.	Selections
5	0.595	4, 5, 7-9
5	0.590	4, 5, 7, 9, 10
4	0.586	4, 5, 7, 9
2	0.579	4, 7
1	0.573	7
5	0.567	4-7, 9
4	0.567	4, 5, 8, 9
3	0.566	5, 7, 9
3	0.565	4, 7, 9
4	0.565	5, 7-9

Appendix Z. BIOENV test results of Alafia River alone averaged by river station using the phytoplankton data aggregated to the group level (environmental parameters vs. species abundance patterns).

BIOENV

Biota and/or Environment matching

Worksheet

File: K:\3 Rivers\Alafia\MBNfiles\Alafia
PRIMER\AlafiachemOKwithspeciesBIOENVavgbystation.pri
Sample selection: All
Variable selection: All

Similarity Matrix

File: K:\3 Rivers\Alafia\MBNfiles\Alafia
PRIMER\alafiaspeciesOKwithchemBIOENVaggregated to group averaged by
riverstationsimmatrix.sid
Data type: Similarities
Sample selection: All

Parameters

Rank correlation method: Spearman
Maximum number of variables: 5

Similarity Matrix Parameters for sample data worksheet:
Analyse between: Samples
Similarity measure: Normalised Euclidean distance
Standardise: No
Transform: None

Variables

- 1 OP
- 2 TP
- 3 NH3
- 4 N23
- 5 Norg
- 6 TOC
- 7 DO
- 8 DO sat
- 9 COLOR
- 10 TURB
- 11 COND
- 12 PH
- 13 SAL
- 14 TEMP

Best results

Var	Corr.	Selections
3	0.744	4, 11, 12
4	0.740	4, 10, 11, 13
5	0.738	3, 4, 7, 9, 11
4	0.734	3, 4, 7, 13
2	0.732	4, 12
4	0.731	3, 4, 11, 12
4	0.731	3, 4, 12, 13
4	0.731	4, 8, 9, 13
3	0.730	4, 12, 13
4	0.729	4, 7, 9, 11

Appendix AA. BIOENV test results of Alafia River alone using the phytoplankton data aggregated to the group level (environmental parameters vs. species abundance patterns).

BIOENV

Biota and/or Environment matching

Worksheet

File: K:\3 Rivers\Alafia\MBNfiles\Alafia PRIMER\alafiachemBIOENV.pri
Sample selection: All
Variable selection: All

Similarity Matrix

File: K:\3 Rivers\Alafia\MBNfiles\Alafia
PRIMER\alafiaspeciesOKwithchemBIOENVsimmatrix.sid
Data type: Similarities
Sample selection: All

Parameters

Rank correlation method: Spearman
Maximum number of variables: 5

Similarity Matrix Parameters for sample data worksheet:
Analyse between: Samples
Similarity measure: Normalised Euclidean distance
Standardise: No
Transform: None

Variables

- 1 OP
- 2 TP
- 3 NH3
- 4 N23
- 5 Norg
- 6 TOC
- 7 DO
- 8 DO sat
- 9 COLOR
- 10 TURB
- 11 COND
- 12 PH
- 13 SAL
- 14 TEMP

Best results

Var	Corr.	Selections
5	0.406	3, 4, 6, 7, 11
4	0.403	4, 6, 7, 11
3	0.402	4, 6, 7
4	0.400	3, 4, 7, 11
5	0.400	3-5, 7, 11
5	0.398	4-7, 11
5	0.398	4, 5, 7, 9, 11
5	0.395	3, 4, 7, 10, 11
5	0.395	3, 4, 6, 7, 13
4	0.393	4, 7, 9, 11

Appendix BB. BIOENV test results of the Little Manatee River alone averaged by river station using the phytoplankton data aggregated to the group level (environmental parameters vs. species abundance patterns).

BIOENV

Biota and/or Environment matching

Worksheet

File: K:\3 Rivers\LMR\mbnfiles\LMR PRIMER\LMRChemOKwithspeciesBIOENVavg
by station.pri
Sample selection: All
Variable selection: All

Similarity Matrix

File: K:\3 Rivers\LMR\mbnfiles\LMR
PRIMER\LMRspeciesBioenvaggregatedbygroupavgstationsimmatrix.sid
Data type: Similarities
Sample selection: All

Parameters

Rank correlation method: Spearman
Maximum number of variables: 5

Similarity Matrix Parameters for sample data worksheet:
Analyse between: Samples
Similarity measure: Normalised Euclidean distance
Standardise: No
Transform: None

Variables

- 1 Phaeo
- 2 TP
- 3 NH3
- 4 N23
- 5 CHLA
- 6 TSS
- 7 DO
- 8 COLOR
- 9 TURB
- 10 COND
- 11 PH
- 12 TEMP

Best results

Var	Corr.	Selections
3	0.811	4, 7, 8
4	0.807	4, 7, 8, 10
3	0.800	4, 7, 10
4	0.793	4, 5, 7, 10
3	0.782	4, 5, 7
4	0.779	4, 5, 7, 8
4	0.779	4, 5, 7, 11
5	0.779	4, 5, 7, 8, 11
2	0.771	4, 7
4	0.771	4-7

Appendix CC. BIOENV test results of the Little Manatee River alone using the phytoplankton data aggregated to the group level (environmental parameters vs. species abundance patterns).

BIOENV

Biota and/or Environment matching

Worksheet

File: K:\3 Rivers\LMR\mbnfiles\LMR PRIMER\LMRChemOKwithspeciesBIOENV.pri
Sample selection: All
Variable selection: All

Similarity Matrix

File: K:\3 Rivers\LMR\mbnfiles\LMR
PRIMER\LMRspeciesBioenvaggregatedbygroupsimmatrix.sid
Data type: Similarities
Sample selection: All

Parameters

Rank correlation method: Spearman
Maximum number of variables: 5

Similarity Matrix Parameters for sample data worksheet:
Analyse between: Samples
Similarity measure: Normalised Euclidean distance
Standardise: No
Transform: None

Variables

- 1 Phaeo
- 2 TP
- 3 NH3
- 4 N23
- 5 CHLA
- 6 TSS
- 7 DO
- 8 COLOR
- 9 TURB
- 10 COND
- 11 PH
- 12 TEMP

Best results

Var	Corr.	Selections
5	0.381	1, 5, 7, 9, 10
4	0.379	1, 7, 9, 10
5	0.379	2, 5, 7, 9, 10
4	0.379	2, 7, 9, 10
4	0.378	5, 7, 9, 10
3	0.378	7, 9, 10
4	0.377	2, 5, 9, 10
5	0.376	5-7, 9, 10
4	0.376	6, 7, 9, 10
5	0.374	1, 2, 7, 9, 10

Appendix DD. BIOENV test results of Peace River alone using the phytoplankton data aggregated to the group level (environmental parameters vs. species abundance patterns).

BIOENV

Biota and/or Environment matching

Worksheet

File: K:\3 Rivers\Peace River Phytoplankton\MBNfiles\Peace
PRIMER\PRchemOKwithspeciesBIOENV.pri
Sample selection: All
Variable selection: All

Similarity Matrix

File: K:\3 Rivers\Peace River Phytoplankton\MBNfiles\Peace
PRIMER\PRspeciesOKwithchemaggregatedtogroupsimmatrix.sid
Data type: Similarities
Sample selection: All

Parameters

Rank correlation method: Spearman
Maximum number of variables: 5

Similarity Matrix Parameters for sample data worksheet:
Analyse between: Samples
Similarity measure: Normalised Euclidean distance
Standardise: No
Transform: None

Variables

- 1 OP
- 2 TP
- 3 NH3
- 4 N23
- 5 TN
- 6 CHLA
- 7 DO
- 8 COLOR
- 9 COND
- 10 PH
- 11 SAL
- 12 TEMP

Best results

Var	Corr.	Selections
5	0.341	1, 5-7, 11
4	0.341	1, 6, 7, 11
3	0.341	6, 7, 11
2	0.334	6, 7
5	0.333	1, 5-8
4	0.333	5-7, 11
3	0.332	2, 6, 7
4	0.331	1, 5-7
3	0.331	1, 6, 7
4	0.330	2, 6, 7, 11

Appendix EE. BIOENV test results of the Peace River alone averaged by river station (non-nutrient parameters vs. species abundance patterns).

BIOENV

Biota and/or Environment matching

Worksheet

File: K:\3 Rivers\Peace River Phytoplankton\MBNfiles\Peace
PRIMER\PRchemOKwithspeciesBIOENVavgbystation.pri
Sample selection: All
Variable selection: All

Similarity Matrix

File: K:\3 Rivers\Peace River Phytoplankton\MBNfiles\Peace
PRIMER\PRspeciesOKwithchemaggregatedtogroupaveragedbystationsimmatrix.s
id
Data type: Similarities
Sample selection: All

Parameters

Rank correlation method: Spearman
Maximum number of variables: 5

Similarity Matrix Parameters for sample data worksheet:
Analyse between: Samples
Similarity measure: Normalised Euclidean distance
Standardise: No
Transform: None

Variables

- 1 OP
- 2 TP
- 3 NH3
- 4 N23
- 5 TN
- 6 CHLA
- 7 DO
- 8 COLOR
- 9 COND
- 10 PH
- 11 SAL
- 12 TEMP

Best results

Var	Corr.	Selections
2	1.000	7,10
3	1.000	1,7,12
3	1.000	4,7,12
3	1.000	7,10,12
4	1.000	4,7,10,12
1	0.943	4
2	0.943	1,4
2	0.943	1,7
2	0.943	1,12
2	0.943	4,7

Appendix FF. BIOENV test results of Peace River alone (nutrients vs. species abundance patterns).

BIOENV

Biota and/or Environment matching

Worksheet

File: F:\3 Rivers\Peace River Phytoplankton\MBNfiles\Peace
PRIMER\PRchemOKwithspeciesBIOENV.pri
Sample selection: All
Variable selection: All

Similarity Matrix

File: F:\3 Rivers\Peace River Phytoplankton\MBNfiles\Peace
PRIMER\PRspeciesOKwithchemsimmatrix.sid
Data type: Similarities
Sample selection: All

Parameters

Rank correlation method: Spearman
Maximum number of variables: 5

Similarity Matrix Parameters for sample data worksheet:
Analyse between: Samples
Similarity measure: Normalised Euclidean distance
Standardise: No
Transform: None

Variables

- 1 OP
- 2 TP
- 3 NH3
- 4 N23
- 5 TN
- 6 CHLA
- 7 DO
- 8 COLOR
- 9 COND
- 10 PH
- 11 SAL
- 12 TEMP

Best results

No. Vars	Corr.	Selections
3	0.368	1, 2, 5
4	0.358	1, 2, 4, 5
2	0.349	1, 2
2	0.349	1, 5
3	0.340	1, 4, 5
3	0.327	1, 2, 4
2	0.327	2, 5
3	0.319	2, 4, 5
1	0.313	1
4	0.306	1-3, 5

Appendix GG. BIOENV test results of the Little Manatee River alone (nutrients vs. species abundance patterns).

BIOENV

Biota and/or Environment matching

Worksheet

File: F:\3 Rivers\LMR\mbnfiles\LMR PRIMER\LMRChemOKwithspeciesBIOENV.pri
Sample selection: All
Variable selection: All

Similarity Matrix

File: F:\3 Rivers\LMR\mbnfiles\LMR PRIMER\LMRspeciesBioenvsimmatrix.sid
Data type: Similarities
Sample selection: All

Parameters

Rank correlation method: Spearman
Maximum number of variables: 5

Similarity Matrix Parameters for sample data worksheet:
Analyse between: Samples
Similarity measure: Normalised Euclidean distance
Standardise: No
Transform: None

Variables

- 1 Phaeo
- 2 TP
- 3 NH3
- 4 N23
- 5 CHLA
- 6 TSS
- 7 DO
- 8 COLOR
- 9 TURB
- 10 COND
- 11 PH
- 12 TEMP

Best results

No. Vars	Corr.	Selections
2	0.220	2,4
3	0.167	2-4
1	0.145	2
1	0.130	4
2	0.085	2,3
2	0.060	3,4
1	-0.063	3

Appendix HH. BIOENV test results of the Little Manatee River alone averaged by station (environmental parameters vs. species abundance patterns).

BIOENV

Biota and/or Environment matching

Worksheet

File: F:\3 Rivers\LMR\mbnfiles\LMR PRIMER\LMRChemOKwithspeciesBIOENVavg
by station.pri
Sample selection: All
Variable selection: All

Similarity Matrix

File: F:\3 Rivers\LMR\mbnfiles\LMR
PRIMER\LMRspeciesBioenvavgstationsimatrix.sid
Data type: Similarities
Sample selection: All

Parameters

Rank correlation method: Spearman
Maximum number of variables: 5

Similarity Matrix Parameters for sample data worksheet:
Analyse between: Samples
Similarity measure: Normalised Euclidean distance
Standardise: No
Transform: None

Variables

- 1 Phaeo
- 2 TP
- 3 NH3
- 4 N23
- 5 CHLA
- 6 TSS
- 7 DO
- 8 COLOR
- 9 TURB
- 10 COND
- 11 PH
- 12 TEMP

Best results

No. Vars	Corr.	Selections
4	0.964	4, 5, 10, 11
4	0.964	4, 8-10
5	0.957	4, 5, 8, 10, 11
5	0.957	4, 5, 9-11
5	0.954	4-6, 8, 10
4	0.950	4, 5, 8, 11
5	0.950	4, 8-11
5	0.946	4, 5, 8, 9, 11
4	0.943	4, 8, 10, 11
5	0.939	3-5, 8, 11

Appendix II. BIOENV test results of the Little Manatee River alone averaged by station (nutrients vs. species abundance patterns).

BIOENV

Biota and/or Environment matching

Worksheet

File: F:\3 Rivers\LMR\mbnfiles\LMR PRIMER\LMRChemOKwithspeciesBIOENVavg
by station.pri
Sample selection: All
Variable selection: All

Similarity Matrix

File: F:\3 Rivers\LMR\mbnfiles\LMR
PRIMER\LMRspeciesBioenvavgstationsimmatrix.sid
Data type: Similarities
Sample selection: All

Parameters

Rank correlation method: Spearman
Maximum number of variables: 5

Similarity Matrix Parameters for sample data worksheet:
Analyse between: Samples
Similarity measure: Normalised Euclidean distance
Standardise: No
Transform: None

Variables

- 1 Phaeo
- 2 TP
- 3 NH3
- 4 N23
- 5 CHLA
- 6 TSS
- 7 DO
- 8 COLOR
- 9 TURB
- 10 COND
- 11 PH
- 12 TEMP

Best results

No. Vars	Corr.	Selections
1	0.889	4
2	0.736	3, 4
2	0.625	2, 4
3	0.571	2-4
2	0.225	2, 3
1	0.221	3
1	0.025	2

Appendix JJ. BIOENV test results of the Little Manatee River alone averaged by station (non-nutrient parameters vs. species abundance patterns).

BIOENV

Biota and/or Environment matching

Worksheet

File: F:\3 Rivers\LMR\mbnfiles\LMR PRIMER\LMRChemOKwithspeciesBIOENVavg
by station.pri
Sample selection: All
Variable selection: All

Similarity Matrix

File: F:\3 Rivers\LMR\mbnfiles\LMR
PRIMER\LMRspeciesBioenvavgstationsimmatrix.sid
Data type: Similarities
Sample selection: All

Parameters

Rank correlation method: Spearman
Maximum number of variables: 5

Similarity Matrix Parameters for sample data worksheet:
Analyse between: Samples
Similarity measure: Normalised Euclidean distance
Standardise: No
Transform: None

Variables

- 1 Phaeo
- 2 TP
- 3 NH3
- 4 N23
- 5 CHLA
- 6 TSS
- 7 DO
- 8 COLOR
- 9 TURB
- 10 COND
- 11 PH
- 12 TEMP

Best results

No. Vars	Corr.	Selections
4	0.929	5, 8, 10, 11
3	0.925	5, 8, 10
1	0.918	10
5	0.918	1, 5, 8, 10, 12
5	0.911	5, 8-11
2	0.907	8, 10
3	0.907	5, 8, 11
1	0.904	8
2	0.904	5, 10
3	0.904	5, 10, 11

Appendix KK. PCA results for all the rivers (not averaged).

PCA Principal Component Analysis

Worksheet

File: K:\3 Rivers\Combined Files\chemcompositeOKwithspeciesBIOENV.pri
Sample selection: All
Variable selection: All

Eigenvalues

PC	Eigenvalues	%Variation	Cum.%Variation
1	2.91	29.1	29.1
2	1.93	19.3	48.4
3	1.28	12.8	61.2
4	0.98	9.8	71.0
5	0.87	8.7	79.7

Eigenvectors

(Coefficients in the linear combinations of variables making up PC's)

Variable	PC1	PC2	PC3	PC4	PC5
TP	0.177	0.366	-0.180	0.104	-0.603
NH3	0.194	0.154	-0.011	0.752	0.534
NO2+NO3	0.013	0.266	-0.715	0.090	-0.074
CHLA	-0.404	0.383	0.253	0.119	-0.079
DO	-0.483	0.176	-0.177	-0.195	0.157
COLOR	0.356	0.405	0.114	-0.039	0.068
TURB	-0.362	0.334	0.304	0.323	-0.256
COND	-0.251	-0.454	0.147	0.342	-0.251
PH	-0.367	0.197	-0.091	-0.235	0.419
TEMP	0.280	0.272	0.475	-0.292	0.079

Principal Component Scores

Sample	SCORE1	SCORE2	SCORE3	SCORE4	SCORE5
01172001S0	-0.928	2.076	-7.365	-0.181	-0.515
01172001S12	-2.639	-0.064	-2.296	-0.778	0.536
01172001S18	-1.947	-1.336	-1.582	-0.255	0.492
01172001S6	-3.885	1.945	-2.164	-0.750	0.325
01172001SFB	-1.964	-1.900	-1.402	-0.030	0.463
01172001TB	-2.085	-2.741	-0.702	0.132	0.446
02202001S0	-0.774	1.651	-3.596	-0.041	-1.107
02202001S12	-11.832	7.949	3.927	2.915	-2.053
02202001S18	-1.267	-0.100	-0.034	1.426	-0.909
02202001S6	-9.283	5.801	2.615	1.220	0.063
02202001SFB	-1.271	-1.764	-0.251	0.683	0.117
02202001TB	-1.562	-2.226	-0.064	0.476	0.199
03012000S0	-1.608	0.664	-2.148	-0.796	0.742
03012000S12	-3.223	2.004	-1.008	-0.451	-0.765
03012000S18	-2.093	0.019	-0.552	-0.343	-0.175
03012000S6	-4.312	1.044	-1.249	-1.358	2.145
03012000SFB	-2.311	-1.350	0.180	0.355	0.144
03012000TB	-1.848	-1.839	-0.050	-0.056	0.335
03212001S0	-0.188	0.173	-4.100	-0.002	0.822
03212001S12	-1.516	0.674	-1.260	0.692	-1.374
03212001S18	-1.261	-0.431	-1.268	1.118	-0.423
03212001S6	-4.108	1.244	-0.298	-0.296	0.840
03212001SFB	-1.595	-1.526	-0.360	1.115	-0.323
03212001TB	-1.550	-1.946	-0.124	0.854	-0.203

04262000S0	-0.851	0.182	-2.330	-0.528	1.198
04262000S12	-0.576	0.077	-0.386	-0.187	-1.059
04262000S18	-0.878	-0.011	0.211	-0.835	-0.574
04262000S6	-0.789	0.887	-1.440	-1.004	-0.543
04262000SFB	-1.245	-0.939	-0.013	-0.273	-0.606
04262000TB	-1.400	-1.769	0.476	0.110	-0.346
05032001S0	-0.428	1.742	-3.705	-0.612	-0.953
05032001S12	-3.300	1.671	-0.477	-0.358	-0.856
05032001S18	-2.918	0.288	-0.362	-0.819	0.137
05032001S6	-3.630	1.376	-0.297	-0.283	0.668
05032001SFB	-1.855	-1.762	0.506	0.206	-0.128
05032001TB	-1.778	-1.844	0.250	-0.010	0.026
06092000S0	-0.008	-0.019	-2.621	-0.581	1.100
06092000S12	0.412	-0.109	-0.146	0.033	-1.719
06092000S18	-1.523	0.823	0.657	0.095	-1.684
06092000S6	1.383	-0.039	-0.892	0.855	-0.997
06092000SFC	-7.179	3.798	3.620	1.535	-0.784
06092000TB	-0.595	-1.734	1.215	0.507	-0.993
06192001S0	0.833	1.645	-3.342	-0.109	-0.625
06192001S12	-0.805	0.477	-0.019	-0.987	-0.153
06192001S18	-1.483	0.971	0.892	-0.088	-0.815
06192001S6	1.455	0.766	-0.513	2.203	1.096
06192001SFB	-0.992	-1.228	1.156	0.019	-0.042
06192001SFC	-3.134	1.820	1.379	0.204	-1.088
06192001TB	-0.576	-1.702	1.443	0.469	0.119
07262000S0	1.640	1.168	-1.048	-0.165	-1.434
07262000S12	0.838	0.419	-0.638	0.506	-0.276
07262000S18	0.313	-0.475	0.025	0.344	-0.828
07262000S6	1.406	0.755	-0.711	0.597	-0.686
07262000TB	-0.713	-1.553	0.995	-0.034	-0.253
07312001S0	2.079	2.104	0.057	3.049	2.733
07312001S12	0.391	0.653	1.046	2.147	2.696
07312001S18	-0.262	-0.417	0.906	0.252	1.767
07312001S6	1.067	0.975	0.790	0.723	0.921
07312001SFB	1.064	1.917	0.514	1.044	1.266
07312001TB	-1.086	0.483	1.003	0.912	-0.207
08292000S0	1.113	1.458	-1.721	-0.065	-1.156
08292000S12	1.359	0.469	-0.154	1.411	-0.765
08292000S18	0.045	-0.284	0.812	0.680	-1.287
08292000S6	1.411	0.978	-0.649	0.958	-1.191
08292000SFB	0.079	-0.806	1.185	0.636	-1.481
08292000TB	-0.775	-1.061	1.253	0.190	-0.646
08292001S0	1.004	1.776	-1.709	-0.332	-1.120
08292001S12	-2.796	1.120	0.603	-1.205	1.188
08292001S18	-2.084	-0.477	1.002	-1.202	1.461
08292001S6	0.889	1.458	-1.270	-0.364	-1.003
08292001TB	-3.434	2.755	2.415	1.358	-2.392
09212001S0	3.176	3.065	-0.626	6.180	2.805
09212001S18	0.937	-0.175	0.467	0.560	0.327
09212001S6	0.396	-0.604	0.729	0.529	1.044
09272000S12	1.012	-0.748	0.923	1.599	1.470
09272000S18	1.279	-0.282	0.559	1.453	-0.431
09272000S6	1.110	0.091	0.430	0.667	1.045
09272000TB	0.411	-0.336	0.703	0.923	-0.488
10242000S0	0.293	1.055	-2.469	-0.426	-1.148
10242000S12	-0.691	0.216	-1.337	0.006	-0.742
10242000S18	-1.973	0.100	-0.096	0.456	-0.454
10242000S6	0.333	2.032	-6.064	0.735	-1.235
10242000SFB	-1.895	-1.423	0.367	0.125	-0.239
10242000TB	-1.454	-2.127	0.392	0.200	0.033
11032001S0	-0.768	1.038	-1.978	0.609	1.858
11032001S12	-0.147	0.509	-1.065	1.350	-0.622
11032001S18	-0.457	-0.953	-0.383	0.414	-0.192
11032001S6	-1.404	1.114	-1.134	2.184	3.115

11032001TB	-1.304	-1.275	-0.122	0.430	0.195
LMR101188E0	0.130	0.550	-0.213	0.139	0.193
LMR101188E12	0.344	-0.971	0.076	0.761	-0.548
LMR101188E6	0.614	-0.407	0.208	0.802	-0.120
LMR101188ERUSK	-0.570	-0.255	-0.032	0.060	0.364
LMR101188ETB	-0.486	-1.102	-0.098	0.571	-0.335
LMR102588E0	-0.952	-0.180	-0.088	-0.507	0.184
LMR102588E12	0.243	-1.354	0.172	0.018	-0.614
LMR102588E18	-0.179	-1.289	0.380	0.598	-0.807
LMR102588E6	0.134	-1.029	0.176	-0.373	-0.300
LMR102588ERUSK	-0.588	-0.803	0.198	-0.412	-0.413
LMR102588ETB	-1.193	-1.301	0.201	0.332	-0.663
LMR11189E12	-0.139	-1.647	-0.053	-0.076	-0.442
LMR11189E18	-0.015	-1.795	-0.039	0.971	-0.078
LMR11189E6	-0.262	-1.214	-0.092	-0.469	-0.040
LMR11189ERUSK	-1.107	-1.242	-0.100	-0.331	0.192
LMR11189ETB	-0.999	-1.946	-0.104	0.296	-0.289
LMR112188E0	0.171	-0.201	-0.474	-0.270	-0.223
LMR112188E12	0.512	-1.565	0.254	0.033	-0.500
LMR112188E18	0.386	-1.729	0.296	0.420	-0.429
LMR112188E6	0.150	-0.971	0.242	-0.082	-0.329
LMR112188ERUSK	0.151	-1.318	0.402	-0.041	-0.310
LMR112188ETB	-0.260	-1.965	0.222	0.234	-0.434
LMR11788E12	0.251	-1.367	-0.294	0.712	0.159
LMR11788E18	-0.249	-1.762	-0.186	0.527	0.017
LMR11788E6	0.209	-0.870	-0.374	0.051	-0.406
LMR11788ERUSK	-1.175	-0.458	-0.248	-0.639	0.184
LMR11788ETB	-0.761	-2.065	-0.102	0.075	-0.247
LMR122088E12	-1.104	-1.699	-1.376	0.136	-0.115
LMR122088E18	-1.442	-2.034	-1.313	0.341	-0.071
LMR122088E6	-0.600	-1.386	-1.330	0.223	-0.011
LMR122088ERUSK	-1.184	-1.367	-1.062	-0.108	0.068
LMR122088ETB	-1.657	-2.118	-1.223	0.500	-0.117
LMR12489E12	-0.688	-0.908	-1.644	1.666	1.086
LMR12489E6	-0.113	0.464	-1.801	2.583	1.507
LMR12489ERUSK	-1.280	0.949	-1.806	1.036	1.109
LMR12489ETB	-1.843	-1.701	-0.747	0.784	0.154
LMR12688E0	-0.950	0.783	-1.585	1.461	-0.502
LMR12688E18	-1.740	-1.677	-1.276	0.385	0.355
LMR12688ERUSK	-0.643	-0.043	-0.887	1.472	-0.244
LMR12688ETB	-2.362	-2.231	-0.746	0.592	-0.255
LMR12888E0	-0.502	-0.318	-1.297	-0.190	-0.015
LMR12888E12	-0.058	-1.398	-0.439	0.293	-0.222
LMR12888E18	-0.674	-1.718	-0.588	0.318	-0.070
LMR12888E6	0.047	-1.065	-0.512	0.109	0.005
LMR12888ERUSK	-0.535	-1.192	-0.402	-0.077	-0.039
LMR12888ETB	-0.892	-1.906	-0.605	0.288	-0.173
LMR21088E0	-0.740	0.016	-1.995	0.149	-0.259
LMR21088E18	-1.677	-1.972	-1.235	0.425	0.415
LMR21088ERUSK	-2.092	-0.668	-1.459	0.025	0.646
LMR21088ETB	-1.548	-2.260	-1.081	1.267	0.669
LMR22488E0	-0.188	-0.214	-0.854	-0.139	-0.146
LMR22488E18	-0.827	-1.948	-0.552	0.257	0.053
LMR22488ERUSK	-0.550	-0.962	-0.261	-0.117	0.446
LMR22488ETB	-1.381	-2.067	-0.775	0.125	0.500
LMR32288ERUSK	-0.760	0.592	-1.009	-0.057	0.533
LMR3988E0	0.870	0.700	-0.596	1.110	-0.086
LMR3988E12	-0.546	-1.245	-0.692	0.339	-0.146
LMR3988E18	-0.867	-1.484	-0.558	0.186	-0.118
LMR3988ERUSK	0.148	-0.019	-0.944	0.320	-0.169
LMR3988ETB	-1.089	-2.284	-0.325	0.121	-0.146
LMR4688E12	0.424	-1.384	0.445	0.023	-0.361
LMR4688E18	-0.115	-1.733	0.360	0.046	-0.373
LMR4688ERUSK	-1.546	-0.349	0.218	-1.069	0.575

LMR4688ETB	-0.567	-1.827	0.250	-0.132	-0.396
LMR51888E12	0.549	-1.300	0.703	-0.431	-0.513
LMR51888E18	0.731	-1.687	0.512	0.106	-0.985
LMR51888E6	0.310	-0.790	0.822	-0.533	-0.398
LMR51888ERUSK	-0.052	-1.089	0.650	-0.589	-0.374
LMR51888ETB	-0.127	-0.863	-0.079	-0.108	-1.770
LMR5488E0	-0.548	0.040	-0.820	-0.760	0.252
LMR5488E12	-0.413	-1.436	0.028	-0.337	-0.193
LMR5488E18	-0.659	-1.671	-0.023	-0.095	-0.254
LMR5488E6	-1.041	-0.243	-0.096	-0.995	0.599
LMR5488ERUSK	-0.720	-0.961	0.083	-0.711	0.278
LMR5488ETB	-1.189	-1.642	-0.124	-0.259	-0.064
LMR61588E0	1.058	-0.637	0.170	-0.632	-0.321
LMR61588E12	0.368	-1.194	0.636	-0.321	-0.624
LMR61588E18	0.191	-1.907	0.689	-0.151	-0.272
LMR61588E6	0.070	-0.648	0.682	-0.776	-0.165
LMR61588ERUSK	-0.324	-1.305	0.726	-0.407	-0.490
LMR61588ETB	-1.749	-0.913	1.632	0.927	-1.206
LMR6188E12	0.441	-1.305	0.389	-0.267	-0.533
LMR6188E18	0.375	-1.584	0.466	0.312	-0.872
LMR6188E6	0.416	-0.944	0.654	-0.445	-0.378
LMR6188ERUSK	-0.030	-1.212	0.602	-0.313	-0.702
LMR6188ETB	-0.877	-0.993	0.631	0.462	-1.663
LMR62988E0	1.943	-0.840	0.662	0.370	-0.212
LMR62988E12	0.884	-1.104	0.894	0.185	-0.378
LMR62988E18	1.178	-1.538	1.043	0.598	-0.483
LMR62988E6	1.765	-0.997	0.979	0.468	-0.337
LMR62988ERUSK	0.029	-1.121	1.033	-0.191	-0.338
LMR62988ETB	-0.812	-0.948	1.555	0.963	-0.966
LMR71488E0	2.551	-0.617	0.503	0.147	-0.457
LMR71488E12	0.691	-0.724	0.921	0.385	-0.085
LMR71488E18	1.069	-1.571	0.850	0.450	-0.552
LMR71488E6	1.462	-0.844	0.872	-0.268	-0.586
LMR71488ERUSK	0.439	-1.445	0.754	-0.036	-0.603
LMR71488ETB	-0.136	-1.900	0.823	-0.182	-0.617
LMR72888E12	1.855	-0.370	0.943	1.797	-0.038
LMR72888E18	1.505	-0.755	0.803	2.702	0.743
LMR72888E6	1.985	0.564	1.001	0.411	-0.551
LMR72888ERUSK	0.996	-0.067	0.924	0.900	0.287
LMR72888ETB	-0.075	-1.438	0.826	0.145	-0.822
LMR81088E0	2.550	0.835	0.719	0.976	-0.653
LMR81088E12	1.644	-0.218	0.683	1.270	-0.173
LMR81088E6	1.981	0.363	0.660	1.099	-0.172
LMR81088ERUSK	2.022	0.739	0.751	0.763	-0.048
LMR81088ETB	-0.075	-1.427	0.616	0.395	-0.455
LMR83088E0	2.251	0.335	0.497	-0.288	-0.444
LMR83088E12	1.691	-0.486	0.595	0.615	-0.430
LMR83088E6	1.995	0.239	0.820	0.226	-0.251
LMR83088ERUSK	1.799	0.357	0.396	0.286	-0.515
LMR83088ETB	0.535	-1.187	0.633	0.012	-0.887
LMR92288E12	1.422	-0.342	0.699	0.580	-0.350
LMR92288E6	2.039	-0.211	0.890	0.632	0.066
LMR92288ERUSK	1.933	0.444	0.621	0.229	-0.029
LMR92288ETB	0.142	-1.050	0.866	-0.216	-0.127
LMR9888E18	0.471	-0.933	0.571	1.082	-1.106
LMR9888E6	0.821	0.133	0.658	1.076	-1.169
LMR9888ERUSK	1.744	0.069	-0.090	0.278	-1.537
LMR9888ETB	0.422	-0.068	0.781	1.086	-1.012
PR791992St1	3.094	2.157	0.788	0.135	-0.880
PR791992St2	0.850	1.108	0.957	-1.254	0.115
PR791992St3	0.235	0.507	0.779	-1.751	1.023
PR791992St4	0.036	-0.171	0.727	-1.896	1.447
PR8101995St1	2.722	1.066	0.403	-0.227	-1.249
PR8101995St2	1.792	0.735	0.738	0.029	1.295

PR8111995St3	0.509	0.459	0.670	-1.006	1.516
PR8111995St4	0.039	0.196	0.649	-1.197	1.907
PR8121997St1	2.478	3.430	-3.528	-0.073	-0.966
PR8121997St2	0.756	1.948	-0.070	-1.049	0.844
PR8151996St1	1.492	1.066	0.202	-0.410	-1.377
PR8151996St2	0.377	0.084	0.537	-1.164	0.207
PR8151996St3	0.434	-0.065	0.448	-1.490	0.437
PR8151996St4	0.470	-0.614	0.652	-1.310	0.742
PR8161990St1	2.933	2.048	0.019	-0.739	-1.192
PR8161990St2	1.664	0.831	0.215	-0.602	0.159
PR8161990St3	0.453	0.456	0.495	-1.612	0.624
PR8161990St4	0.297	0.253	0.430	-1.586	0.874
PR8171994St1	2.248	1.513	-0.220	-0.070	-0.920
PR8171994St2	1.192	1.045	0.210	-0.198	0.271
PR8171994St3	-2.171	3.178	1.398	0.158	-1.178
PR8171994St4	0.196	-0.141	0.611	-1.608	1.173
PR8171998St1	-0.112	2.475	-0.728	-1.653	0.550
PR8171998St2	-0.311	1.108	0.298	-1.811	0.570
PR8171999St1	1.084	2.211	0.611	-1.311	-0.174
PR8171999St2	1.415	0.789	0.531	-0.934	0.665
PR8181998St3	-0.392	0.627	0.097	-1.710	1.146
PR8181998St4	-0.687	0.203	0.399	-2.087	1.528
PR8181999St3	1.032	0.321	0.388	-0.627	1.326
PR8181999St4	0.337	-0.175	0.531	-1.044	1.511
PR832000St1	1.558	0.951	-0.946	0.202	-0.275
PR832000St2	1.033	0.396	0.296	-0.499	0.171
PR832000St3	0.587	0.246	0.416	-0.818	0.526
PR832000St4	0.039	-0.287	0.383	-1.484	0.986
PR871991St1	2.883	1.602	0.323	-0.635	-1.536
PR871991St2	1.824	1.190	0.420	-0.361	0.156
PR871991St3	-0.169	1.125	0.634	-1.792	1.048
PR871991St4	-0.230	0.291	0.543	-1.973	1.428
PR871992St1	1.278	1.324	-0.294	-0.352	-1.181
PR871992St2	1.098	0.896	0.253	-0.099	0.407
PR871992St3	1.480	0.433	0.439	0.455	0.997
PR871992St4	0.426	-0.129	0.554	-1.421	0.987
PR891993St1	2.130	1.356	-0.131	-0.343	-1.350
PR891993St2	-0.493	1.625	0.583	-1.337	-0.002
PR891993St3	-0.175	0.662	0.643	-1.352	0.430
PR891993St4	-0.101	-0.202	0.556	-1.557	1.004
PR892001St1	3.234	2.349	0.378	-0.226	-0.497
PR892001St2	2.284	1.606	0.827	0.691	1.366
PR892001St3	1.228	0.846	0.850	0.147	1.229
PR892001St4	0.232	0.156	0.917	-0.562	1.181
PR9101997St1	1.646	1.582	-0.326	-0.535	-0.924
PR9101997St2	-0.254	1.615	0.543	-1.389	0.381
PR9131993St1	1.897	1.191	0.053	-0.426	-1.247
PR9131993St2	0.243	1.273	0.574	-1.281	0.259
PR9131993St3	0.729	1.850	0.812	-0.472	-0.674
PR9131993St4	-0.065	-0.409	0.607	-1.415	1.194
PR9131996St1	0.932	1.049	-0.407	-0.276	-0.934
PR9131996St2	1.151	0.053	0.350	-0.438	-0.018
PR9131996St3	-0.682	0.853	0.193	-1.454	0.507
PR9131996St4	-0.155	-0.366	0.274	-1.582	1.153
PR9131999St3	1.489	0.602	0.414	-0.087	1.321
PR9131999St4	0.720	0.037	0.569	-0.503	1.412
PR9132001St1	2.415	1.078	-0.184	-0.316	-1.065
PR9132001St2	1.769	0.727	0.215	0.612	0.577
PR9132001St3	0.803	0.094	0.336	1.030	1.298
PR9132001St4	0.131	-0.770	0.498	0.955	1.508
PR9161990St1	3.357	2.189	0.505	-0.179	-1.070
PR9161990St2	2.815	1.837	0.525	-0.439	-0.314
PR9161990St3	2.367	1.211	0.602	0.060	0.674
PR9161990St4	2.656	1.934	0.341	5.174	5.147

PR9161991St1	1.727	1.320	-0.205	-0.601	-1.113
PR9161991St2	1.223	0.948	0.325	-0.990	-0.266
PR9161991St3	0.355	0.717	0.583	-1.116	0.181
PR9161991St4	-0.381	0.196	0.340	-1.758	1.216
PR9171999St1	1.716	2.108	0.022	-0.936	-0.479
PR9171999St2	0.997	0.833	0.194	-1.185	0.538
PR961995St1	2.261	0.187	0.336	-0.258	-1.074
PR961995St2	1.643	0.715	0.286	0.281	0.625
PR962000St1	1.645	1.772	-1.506	-0.331	-0.657
PR962000St2	-1.013	3.233	0.922	-0.939	-0.379
PR962000St3	0.112	1.311	0.656	-1.127	0.404
PR962000St4	0.235	0.483	0.874	-1.104	0.758
PR971998St1	3.057	2.318	-0.005	-0.099	-1.522
PR971998St2	1.935	1.420	0.313	0.012	0.252
PR981994St1	2.608	0.867	0.430	-0.118	-1.275
PR981994St2	2.485	0.627	0.522	-0.014	-0.319
PR981994St3	1.886	0.306	0.766	-0.232	0.445
PR981994St4	0.071	0.326	0.960	-1.134	0.555
PR981995St3	0.706	0.546	0.592	-0.020	1.378
PR981995St4	0.318	-0.228	0.328	-0.976	1.259
PR981998St3	-0.767	1.455	0.396	-2.038	1.727
PR981998St4	-0.353	0.307	0.408	-1.426	1.810
PR991997St3	0.747	0.084	0.363	-1.299	0.624
PR991997St4	0.136	-0.327	0.304	-1.576	1.287

Appendix LL. PCA results for the Alafia River using all environmental data (not averaged).

PCA

Principal Component Analysis

Worksheet

File: K:\3 Rivers\Alafia\MBNfiles\Alafia PRIMER\alafiachemBIOENV.pri

Sample selection: All

Variable selection: All

Eigenvalues

PC	Eigenvalues	%Variation	Cum.%Variation
1	4.03	28.8	28.8
2	3.31	23.7	52.4
3	2.23	15.9	68.3
4	1.23	8.8	77.1
5	0.82	5.9	83.0

Eigenvectors

(Coefficients in the linear combinations of variables making up PC's)

Variable	PC1	PC2	PC3	PC4	PC5
OP	0.067	-0.367	-0.071	-0.365	-0.462
TP	0.124	-0.146	-0.085	-0.565	0.527
NH3	0.290	-0.152	0.261	0.247	-0.167
NO2+NO3	0.139	-0.258	-0.433	0.137	0.190
Norg	-0.271	-0.192	0.185	-0.359	0.141
TOC	-0.058	-0.294	0.457	0.226	0.310
DO	-0.416	-0.247	-0.096	0.106	-0.085
DO sat	-0.432	-0.187	-0.040	-0.008	-0.227
COLOR	0.287	-0.207	0.355	0.234	-0.087
TURB	-0.300	-0.197	0.362	0.041	0.302
COND	-0.195	0.463	0.193	-0.073	-0.021
PH	-0.404	-0.143	-0.087	0.114	-0.200
SAL	-0.196	0.465	0.183	-0.067	-0.011
TEMP	0.169	-0.038	0.378	-0.444	-0.362

Principal Component Scores

Sample	SCORE1	SCORE2	SCORE3	SCORE4	SCORE5
01172001S0	0.105	-2.650	-3.873	0.490	1.546
01172001S12	-1.879	-0.222	-1.970	1.206	-0.019
01172001S18	-1.209	1.225	-1.485	1.353	0.081
01172001S6	-3.084	-2.116	-1.418	0.548	0.615
01172001SFB	-1.225	2.037	-1.383	1.735	0.265
01172001TB	-1.410	3.116	-0.959	1.894	0.423
02202001S0	0.007	-2.273	-2.156	-1.133	1.051
02202001S12	-7.206	-5.652	5.076	2.123	3.677
02202001S18	-0.005	1.071	-0.114	-0.191	0.992
02202001S6	-4.877	-3.679	0.901	0.686	-0.253
02202001SFB	-0.503	2.391	-0.412	0.892	0.266
02202001TB	-0.849	2.949	-0.317	1.156	0.254
03012000S0	0.081	-0.518	-2.113	1.817	0.127
03012000S12	-2.240	-1.462	-1.184	-0.765	-0.258
03012000S18	-1.663	0.039	-0.623	-0.376	-0.325
03012000S6	-3.225	-2.152	-1.566	0.958	-2.432
03012000SFB	-1.712	2.093	-0.044	0.736	-0.084
03012000TB	-1.259	2.501	-0.377	1.018	-0.266
03212001S0	1.662	-0.039	-2.667	2.629	0.980
03212001S12	-0.285	-0.313	-1.133	-0.508	0.849

03212001S18	-0.298	0.725	-0.802	0.329	0.765
03212001S6	-1.791	-1.506	-1.180	0.315	-0.814
03212001SFB	-0.809	2.079	-0.123	0.938	0.896
03212001TB	-0.859	2.550	-0.146	0.845	0.647
04262000S0	1.051	-1.237	-2.152	0.759	-1.339
04262000S12	-0.045	0.000	-0.503	-1.212	0.219
04262000S18	-0.604	0.325	-0.010	-1.326	-0.559
04262000S6	-0.264	-1.197	-1.416	-0.969	-0.383
04262000SFB	-0.855	1.362	-0.192	-0.385	-0.036
04262000TB	-0.855	2.752	0.232	0.360	0.102
05032001S0	0.807	-1.862	-2.914	-0.593	0.111
05032001S12	-2.342	-0.975	-0.739	-0.958	0.066
05032001S18	-2.696	-0.188	-0.565	0.068	-0.459
05032001S6	-1.858	-1.601	-0.864	-0.330	-0.857
05032001SFB	-1.201	2.914	0.111	0.781	0.151
05032001TB	-1.230	2.766	0.019	0.891	0.093
06092000S0	1.836	-0.816	-2.203	0.879	-1.183
06092000S12	1.453	0.329	-0.369	-1.744	0.314
06092000S18	-0.622	0.197	0.243	-1.798	0.286
06092000S6	2.692	0.367	-0.718	-1.070	0.421
06092000SFC	-4.207	-1.804	2.152	-1.379	-0.725
06092000TB	0.101	3.180	0.927	-0.564	0.189
06192001S0	2.214	-1.455	-2.229	-0.655	-0.045
06192001S12	-0.528	-0.284	-0.379	-1.291	-1.088
06192001S18	-1.200	-0.349	0.746	-2.062	-0.385
06192001S6	2.743	-0.290	-0.066	-0.521	-0.608
06192001SFB	-0.658	2.394	1.182	-0.283	-0.476
06192001SFC	-3.017	-0.912	1.564	-2.244	-0.056
06192001TB	0.105	3.226	1.248	0.028	-0.348
07262000S0	2.733	-1.861	0.538	-0.735	0.993
07262000S12	1.704	-0.445	0.310	-0.560	0.191
07262000S18	1.159	0.977	0.457	-0.880	0.299
07262000S6	2.445	-0.907	0.606	-0.657	0.621
07262000TB	-0.096	2.827	0.639	-0.303	-0.274
07312001S0	3.546	-2.223	2.871	2.349	-0.009
07312001S12	1.775	-1.287	2.426	0.948	-2.057
07312001S18	0.531	-0.462	1.735	0.258	-2.091
07312001S6	2.293	-0.998	2.610	1.349	0.330
07312001SFB	2.316	-1.937	2.656	1.464	0.137
07312001TB	-0.902	1.160	1.540	-1.141	0.013
08292000S0	2.245	-1.994	-0.542	-0.992	0.452
08292000S12	2.610	0.034	0.570	-1.137	0.345
08292000S18	1.269	1.404	0.839	-1.001	0.506
08292000S6	2.576	-0.893	0.300	-1.463	0.537
08292000SFB	1.205	2.051	1.046	-1.244	0.575
08292000TB	-0.053	2.463	0.930	-0.868	-0.077
08292001S0	2.058	-1.695	-0.246	-0.350	0.786
08292001S12	-2.178	-1.995	0.615	-0.306	-2.536
08292001S18	-1.817	-0.187	0.915	-0.019	-2.211
08292001S6	1.888	-1.202	0.028	-0.229	0.872
08292001TB	-2.120	-0.264	2.341	-2.314	0.986
09212001S0	5.062	-2.925	2.672	1.870	-0.033
09212001S18	2.131	0.124	1.525	1.107	0.766
09212001S6	1.629	-0.590	1.505	0.286	-1.008
09272000S12	2.776	0.323	1.621	0.677	-1.404
09272000S18	2.196	1.018	1.253	-0.977	-0.139
09272000S6	2.606	0.220	1.506	1.673	0.355
09272000TB	1.099	1.359	1.072	-1.062	-0.012
10242000S0	0.938	-1.678	-1.762	-1.381	0.632
10242000S12	-0.219	-0.219	-0.823	-0.903	0.505
10242000S18	-1.221	0.541	-0.025	-0.129	0.380
10242000S6	2.115	-1.487	-3.294	0.245	1.030
10242000SFB	-1.374	2.347	0.128	0.342	0.111
10242000TB	-0.924	3.030	0.140	0.573	-0.016

11032001S0	0.804	-2.387	-0.864	0.657	-1.228
11032001S12	0.941	-0.230	-0.317	-0.382	0.628
11032001S18	0.312	1.180	-0.271	0.100	0.164
11032001S6	0.333	-1.930	-0.231	1.327	-1.711
11032001TB	-0.676	1.703	-0.055	0.736	0.204

Appendix MM. PCA results for the Little Manatee River using all data (not averaged).

PCA

Principal Component Analysis

Worksheet

File: K:\3 Rivers\LMR\mbnfiles\LMR PRIMER\LMRChemOKwithspeciesBIOENV.pri

Sample selection: All

Variable selection: All

Eigenvalues

PC	Eigenvalues	%Variation	Cum.%Variation
1	3.21	26.8	26.8
2	2.48	20.7	47.5
3	1.71	14.3	61.7
4	1.36	11.4	73.1
5	0.98	8.2	81.3

Eigenvectors

(Coefficients in the linear combinations of variables making up PC's)

Variable	PC1	PC2	PC3	PC4	PC5
Phaeo	0.174	-0.209	0.304	-0.087	-0.471
TP	0.297	-0.182	0.239	0.290	0.392
NH3	0.290	0.079	0.182	0.412	0.398
NO2+N03	0.192	0.489	0.231	0.059	-0.079
CHLA	-0.016	0.234	-0.219	-0.576	0.481
TSS	-0.150	-0.256	0.486	-0.359	0.110
DO	-0.351	0.429	0.096	-0.009	0.086
COLOR	0.464	0.207	0.062	-0.007	0.039
TURB	0.092	0.102	0.598	-0.337	-0.024
COND	-0.373	-0.388	0.134	0.209	0.156
PH	-0.413	0.115	0.257	0.174	0.301
TEMP	0.285	-0.396	-0.158	-0.295	0.304

Principal Component Scores

Sample	SCORE1	SCORE2	SCORE3	SCORE4	SCORE5
LMR101188E0	1.800	2.147	0.612	-1.519	0.360
LMR101188E12	0.549	-0.895	0.534	0.816	0.090
LMR101188E6	1.437	-0.225	0.524	0.345	-0.017
LMR101188ERUSK	-0.280	0.340	0.659	-0.419	0.829
LMR101188ETB	-1.081	-0.629	0.441	0.514	1.827
LMR102588E0	-0.688	2.802	-1.152	-3.728	1.234
LMR102588E12	0.109	-0.731	-0.381	-0.041	-1.218
LMR102588E18	-0.230	-1.114	0.970	-0.088	-0.531
LMR102588E6	0.128	-0.036	-0.656	-0.749	-1.338
LMR102588ERUSK	-0.936	0.309	-0.573	-0.998	1.091
LMR102588ETB	-1.702	-1.559	2.720	-1.026	-0.199
LMR11189E12	-0.513	-0.084	-0.898	-0.331	-1.580
LMR11189E18	-0.491	-0.686	-0.171	0.978	-0.647
LMR11189E6	-0.497	0.627	-1.135	-1.286	-1.163
LMR11189ERUSK	-2.021	0.713	-0.813	-0.461	0.648
LMR11189ETB	-2.021	-0.877	0.695	0.246	-0.629
LMR112188E0	0.957	2.718	-0.918	-2.241	-0.025
LMR112188E12	0.023	-0.790	-1.134	0.180	-0.870
LMR112188E18	-0.226	-1.104	-0.797	0.615	-0.489
LMR112188E6	0.225	0.012	-0.781	-1.044	-0.604
LMR112188ERUSK	-0.165	-0.356	-0.714	-0.637	-0.661
LMR112188ETB	-1.366	-1.189	-0.583	0.812	-0.182
LMR11788E12	0.077	-0.019	-0.338	1.012	-0.672
LMR11788E18	-1.134	-0.477	-0.418	1.011	-0.086

LMR11788E6	0.533	0.951	-0.165	-0.262	-1.138
LMR11788ERUSK	-1.333	1.508	-0.309	-2.162	1.232
LMR11788ETB	-2.181	-0.891	-0.252	0.539	0.009
LMR122088E12	-1.595	1.408	-0.322	1.204	-1.149
LMR122088E18	-2.322	0.945	-0.165	1.586	-0.831
LMR122088E6	-0.653	1.879	-0.577	0.848	-1.305
LMR122088ERUSK	-1.699	1.842	-0.725	0.162	-0.215
LMR122088ETB	-2.688	0.482	0.188	1.594	-0.283
LMR12489E12	-0.171	2.114	1.359	2.487	-0.241
LMR12489E6	1.703	3.600	2.401	2.847	1.432
LMR12489ERUSK	0.379	4.144	2.208	1.369	2.094
LMR12489ETB	-2.796	0.271	1.293	1.130	0.429
LMR12688E0	1.960	4.195	3.953	-0.196	-1.186
LMR12688E18	-2.527	1.471	0.383	1.304	-0.414
LMR12688ERUSK	0.847	2.716	2.415	-0.102	-0.047
LMR12688ETB	-3.457	0.316	1.459	0.460	-0.973
LMR12888E0	0.254	3.853	-0.984	-1.637	0.126
LMR12888E12	-0.267	0.197	-0.530	0.875	-0.789
LMR12888E18	-1.473	-0.032	-0.220	1.480	-0.286
LMR12888E6	-0.069	0.956	-0.975	0.447	-0.388
LMR12888ERUSK	-1.022	0.697	-0.722	0.260	0.133
LMR12888ETB	-2.018	-0.218	-0.237	1.553	0.051
LMR21088E0	0.850	4.121	1.343	0.233	-1.546
LMR21088E18	-2.833	0.929	0.074	1.633	-0.294
LMR21088ERUSK	-2.320	3.395	0.266	0.087	0.915
LMR21088ETB	-2.723	0.395	0.391	2.104	-0.101
LMR22488E0	0.726	1.962	0.278	-0.135	-0.873
LMR22488E18	-1.815	0.161	-0.446	1.068	-0.772
LMR22488ERUSK	-0.992	1.130	-0.666	-0.086	0.248
LMR3988E0	3.274	2.781	0.968	0.283	0.236
LMR3988E12	-0.839	0.795	0.271	0.703	-0.384
LMR3988E18	-1.465	0.507	0.137	0.731	-0.531
LMR3988ERUSK	1.345	2.364	0.611	0.211	-0.199
LMR3988ETB	-2.577	-0.326	-0.546	0.815	-0.518
LMR4688E12	0.026	-0.661	-1.031	-0.097	-0.658
LMR4688E18	-1.038	-1.007	-0.616	0.280	-0.394
LMR4688ERUSK	-2.190	1.184	-0.108	-1.826	1.327
LMR4688ETB	-1.723	-0.846	-0.477	0.209	-0.218
LMR51888E12	-0.075	-0.824	-1.505	-0.494	-0.392
LMR51888E18	0.004	-1.957	-0.749	0.416	-0.091
LMR51888E6	0.219	-0.281	-0.945	-1.609	-0.600
LMR51888ERUSK	-0.993	-0.942	-0.656	-0.418	0.649
LMR51888ETB	-0.499	-2.188	0.658	2.219	2.430
LMR5488E0	0.038	3.208	-0.513	-1.745	0.161
LMR5488E12	-1.225	0.081	-0.966	-0.074	-0.282
LMR5488E18	-1.671	-0.427	-0.419	0.428	-0.045
LMR5488E6	-1.467	1.952	-0.854	-1.580	1.285
LMR5488ERUSK	-1.604	0.355	-0.513	-0.525	0.286
LMR5488ETB	-2.544	-0.136	-0.252	0.240	0.414
LMR61588E0	1.701	0.022	-1.200	-0.941	-1.854
LMR61588E12	-0.036	-0.737	-1.042	-0.768	-0.333
LMR61588E18	-0.953	-1.043	-1.211	-0.482	-0.978
LMR61588E6	-0.135	0.093	-1.206	-1.703	-0.010
LMR61588ERUSK	-1.217	-1.005	-0.611	-0.482	0.570
LMR61588ETB	-2.274	-3.096	6.981	-4.953	-0.165
LMR6188E12	0.043	-0.618	-1.031	-0.311	-0.689
LMR6188E18	-0.013	-1.649	-0.257	0.351	-0.529
LMR6188E6	0.328	-0.407	-0.927	-1.288	-0.889
LMR6188ERUSK	-0.688	-1.212	-0.429	-0.168	0.401
LMR6188ETB	-0.776	-1.368	1.282	0.060	1.135
LMR62988E0	2.615	-0.726	-1.722	-0.783	-1.076
LMR62988E12	0.690	-1.101	-1.143	-0.516	0.038
LMR62988E18	0.808	-1.956	-0.878	0.068	-0.409
LMR62988E6	1.903	-0.919	-1.872	-0.631	-0.094

LMR62988ERUSK	-0.826	-1.333	-0.469	-0.808	1.160
LMR62988ETB	-0.784	-2.103	2.808	-1.557	0.416
LMR71488E0	3.353	-0.361	-1.989	0.158	-0.948
LMR71488E12	0.477	0.261	-2.271	-1.704	2.600
LMR71488E18	0.535	-1.853	-1.092	0.486	-0.060
LMR71488E6	1.644	-0.598	-2.094	-1.520	0.059
LMR71488ERUSK	-0.293	-1.464	-0.942	-0.110	0.402
LMR71488ETB	-2.333	-3.436	2.138	-1.744	0.889
LMR72888E12	2.713	-1.356	-0.069	1.322	1.862
LMR72888E18	1.913	-1.816	0.659	2.317	2.226
LMR72888E6	3.534	-0.046	-0.707	-0.628	2.138
LMR72888ERUSK	1.311	-0.831	-0.067	0.248	2.747
LMR72888ETB	-0.923	-2.265	0.606	-0.124	0.812
LMR81088E12	2.732	-0.787	0.154	0.578	1.138
LMR81088E6	3.667	-0.292	0.573	0.653	0.906
LMR81088ERUSK	3.721	0.230	0.009	0.430	1.642
LMR81088ETB	-0.819	-1.597	0.064	0.481	0.812
LMR83088E0	4.077	0.038	-0.355	0.254	-1.228
LMR83088E12	2.551	-1.769	0.476	1.132	-0.277
LMR83088E6	3.498	-1.051	0.423	0.708	-0.366
LMR83088ERUSK	3.886	-1.791	2.271	0.232	-1.863
LMR83088ETB	0.898	-3.448	1.852	0.745	-1.815
LMR92288E12	1.914	-1.063	-0.170	0.732	1.333
LMR92288E6	2.996	-0.430	-0.578	0.479	0.074
LMR92288ERUSK	3.265	0.377	-0.609	0.442	1.093
LMR92288ETB	-0.668	-1.304	-0.219	0.030	0.811
LMR9888E6	3.104	-0.590	2.931	-0.888	-1.652
LMR9888ERUSK	3.687	0.183	0.160	0.182	-0.974
LMR9888ETB	1.925	-0.813	2.867	-0.800	-0.534

Appendix NN. PCA results for the Peace River using all environmental data (not averaged).

PCA

Principal Component Analysis

Worksheet

File: K:\3 Rivers\Peace River Phytoplankton\MBNfiles\Peace
PRIMER\PRchemOKwithspeciesBIOENV.pri
Sample selection: All
Variable selection: All

Eigenvalues

PC	Eigenvalues	%Variation	Cum.%Variation
1	4.51	37.6	37.6
2	1.74	14.5	52.1
3	1.32	11.0	63.1
4	0.96	8.0	71.1
5	0.93	7.7	78.8

Eigenvectors

(Coefficients in the linear combinations of variables making up PC's)

Variable	PC1	PC2	PC3	PC4	PC5
OP	0.365	-0.203	-0.103	-0.256	0.073
TP	0.422	-0.197	-0.019	-0.184	-0.082
NH3	0.039	0.454	0.312	-0.333	0.083
NO2+N03	0.318	-0.088	0.301	0.370	0.284
TN	0.275	-0.150	0.520	0.342	0.146
CHLA	-0.098	-0.370	0.164	-0.121	-0.728
DO	-0.215	-0.501	0.295	-0.039	0.078
COLOR	0.364	0.050	0.119	-0.282	-0.189
COND	-0.049	0.327	0.522	-0.364	-0.069
PH	-0.349	-0.236	0.331	-0.085	0.074
SAL	-0.423	0.156	0.100	0.156	0.031
TEMP	-0.140	-0.326	-0.100	-0.525	0.544

Principal Component Scores

Sample	SCORE1	SCORE2	SCORE3	SCORE4	SCORE5
PR791992St1	3.171	-0.651	-0.551	-2.303	1.206
PR791992St2	-0.141	-1.000	-0.325	-0.624	0.077
PR791992St3	-1.826	-0.882	-0.319	-0.473	1.034
PR791992St4	-3.201	-0.306	-0.476	0.000	1.417
PR8101995St1	2.812	0.248	-1.456	-0.764	0.310
PR8101995St2	-0.162	0.943	-0.411	-0.736	0.626
PR8111995St3	-1.813	-0.032	-0.268	-0.473	0.786
PR8111995St4	-1.354	-0.610	-0.571	-1.057	0.953
PR8121997St1	6.904	-1.899	5.174	4.139	2.931
PR8121997St2	0.893	-1.830	0.811	-1.153	0.678
PR8151996St1	2.079	-0.517	-0.698	0.130	0.576
PR8151996St2	-0.993	-0.242	-0.846	0.149	0.382
PR8151996St3	-1.601	-0.328	-0.860	0.020	0.927
PR8151996St4	-2.478	0.693	-1.102	0.715	0.700
PR8161989St1	2.489	0.083	-0.725	-0.317	0.152
PR8161989St2	-1.060	-1.627	0.044	-0.408	-0.214
PR8161989St3	-1.709	-0.715	-0.137	0.152	0.096
PR8161989St4	-2.811	-0.057	-0.179	0.678	0.709
PR8161990St1	3.569	-0.197	-0.643	-0.629	-0.039
PR8161990St2	0.585	0.222	-0.610	-0.364	0.639
PR8161990St3	-1.542	-0.372	-0.543	-0.038	0.546

PR8161990St4	-2.098	0.286	-0.303	0.809	-0.170
PR8171994St1	3.185	0.689	-0.380	0.710	-0.945
PR8171994St2	0.822	0.658	-0.035	0.587	-0.505
PR8171994St3	0.631	-2.022	3.408	2.443	-0.648
PR8171994St4	-2.644	0.306	-0.568	0.613	0.552
PR8171998St1	0.808	-3.267	1.252	-1.473	1.544
PR8171998St2	-1.353	-2.242	-0.041	-0.937	0.759
PR8171999St1	1.257	-1.535	-0.105	-1.316	-0.172
PR8171999St2	0.007	0.008	-0.502	-0.621	0.694
PR8181998St3	-2.034	-1.736	0.116	-0.536	1.026
PR8181998St4	-3.337	-1.321	0.007	-0.096	1.141
PR8181999St3	-0.975	0.871	-0.229	0.151	0.296
PR8181999St4	-2.478	0.872	-0.336	0.658	0.389
PR832000St1	2.568	0.702	0.631	1.869	-0.051
PR832000St2	0.107	0.307	-0.587	0.307	0.126
PR832000St3	-0.896	0.411	-0.420	0.623	-0.249
PR832000St4	-2.504	0.604	-0.535	1.133	-0.029
PR871991St1	3.423	0.050	-1.168	-0.445	-0.397
PR871991St2	1.130	0.131	-0.202	-0.444	0.179
PR871991St3	-1.663	-1.196	0.269	-0.181	-0.075
PR871991St4	-2.955	-0.626	-0.061	0.177	0.708
PR871992St1	2.459	-0.671	-0.250	0.508	-0.154
PR871992St2	0.521	0.189	-0.202	-0.350	0.260
PR871992St3	0.062	1.218	-0.087	-0.057	0.242
PR871992St4	-2.042	0.155	-0.540	0.367	0.654
PR891993St1	2.760	-0.882	-0.854	-0.795	1.319
PR891993St2	-0.511	-2.148	0.173	-0.702	0.034
PR891993St3	-1.410	-0.625	-0.372	0.061	0.573
PR891993St4	-2.640	0.128	-0.508	0.730	0.642
PR892001St1	3.252	0.230	-0.096	-1.113	0.325
PR892001St2	0.824	1.235	1.604	-2.291	0.783
PR892001St3	-0.588	1.490	2.603	-2.499	0.703
PR892001St4	-1.974	1.883	3.667	-2.457	0.280
PR9101997St1	2.737	-0.403	-0.039	0.301	-0.023
PR9101997St2	-0.454	-1.877	0.793	-0.033	-1.388
PR9131989St1	2.554	0.283	-2.204	-1.443	-0.632
PR9131989St2	1.008	0.475	-1.467	-0.477	-0.545
PR9131989St3	-2.689	-4.075	0.828	-1.612	-5.343
PR9131989St4	-2.380	0.419	-1.164	0.420	-0.767
PR9131993St1	2.707	0.101	-0.542	0.756	0.011
PR9131993St2	-0.384	-1.225	0.265	0.071	-0.443
PR9131993St3	0.979	-0.597	0.629	0.943	-2.444
PR9131993St4	-2.825	0.941	-0.516	1.387	0.145
PR9131996St1	2.208	-0.534	-0.186	0.485	0.421
PR9131996St2	-0.011	0.804	-0.908	0.531	-0.107
PR9131996St3	-1.398	-1.584	0.554	0.395	-0.495
PR9131996St4	-2.627	0.357	-0.388	1.152	0.107
PR9131999St3	-0.396	1.026	-0.016	-0.130	0.247
PR9131999St4	-1.855	1.011	-0.245	0.448	-0.146
PR9132001St1	3.379	1.666	-0.595	1.793	-2.320
PR9132001St2	1.362	2.191	1.372	0.055	-1.066
PR9132001St3	-0.410	2.902	2.742	-0.575	-1.097
PR9132001St4	-1.846	3.897	3.717	-0.771	-1.041
PR9161990St1	2.907	1.235	-0.513	0.114	-1.248
PR9161990St2	2.085	0.769	-0.399	-0.324	-0.252
PR9161990St3	0.372	1.657	-0.251	-0.127	-0.040
PR9161990St4	-0.797	4.611	2.490	-1.779	0.444
PR9161991St1	2.510	-0.470	-0.746	-0.186	0.288
PR9161991St2	1.113	-0.622	-0.796	-0.545	0.505
PR9161991St3	-0.508	-0.552	-0.098	0.370	-0.305
PR9161991St4	-2.498	-0.534	0.058	0.630	0.296
PR9171999St1	2.400	-0.666	0.038	-0.463	-0.347
PR9171999St2	0.098	-0.050	-0.059	0.407	-0.010
PR961995St1	2.012	1.087	-1.560	0.682	-0.480

PR961995St2	0.468	0.918	-0.166	-0.078	-0.063
PR962000St1	3.095	-0.779	0.865	0.883	1.397
PR962000St2	0.199	-3.383	1.938	-0.537	-2.344
PR962000St3	-0.797	-0.804	0.478	0.309	-0.368
PR962000St4	-1.952	0.284	-0.104	0.725	-0.360
PR971998St1	4.465	0.226	-0.707	-0.801	-0.959
PR971998St2	1.436	0.638	-0.175	-0.402	-0.423
PR981994St1	2.693	0.941	-1.318	0.407	-0.667
PR981994St2	1.503	1.334	-1.103	0.051	-0.099
PR981994St3	-0.142	1.107	-0.933	-0.215	0.342
PR981994St4	-2.037	0.148	-0.318	0.734	-0.480
PR981995St3	-0.936	1.034	0.072	0.517	-1.353
PR981995St4	-2.242	1.134	-0.370	1.177	-0.268
PR981998St3	-2.201	-1.667	1.003	-0.258	0.001
PR981998St4	-2.917	0.394	0.097	0.738	-0.277
PR991997St3	-0.999	0.515	-0.408	0.918	-0.255
PR991997St4	-2.515	0.645	-0.299	1.281	-0.075

Appendix OO. PCA results for the combined rivers environmental data averaged by river-station.

PCA

Principal Component Analysis

Worksheet

File: chemcomposite0KwithspeciesBIOENV.pri

Sample selection: All

Variable selection: All

Eigenvalues

PC	Eigenvalues	%Variation	Cum.%Variation
1	3.84	38.4	38.4
2	2.65	26.5	64.9
3	1.74	17.4	82.3
4	0.86	8.6	90.9
5	0.63	6.3	97.1

Eigenvectors

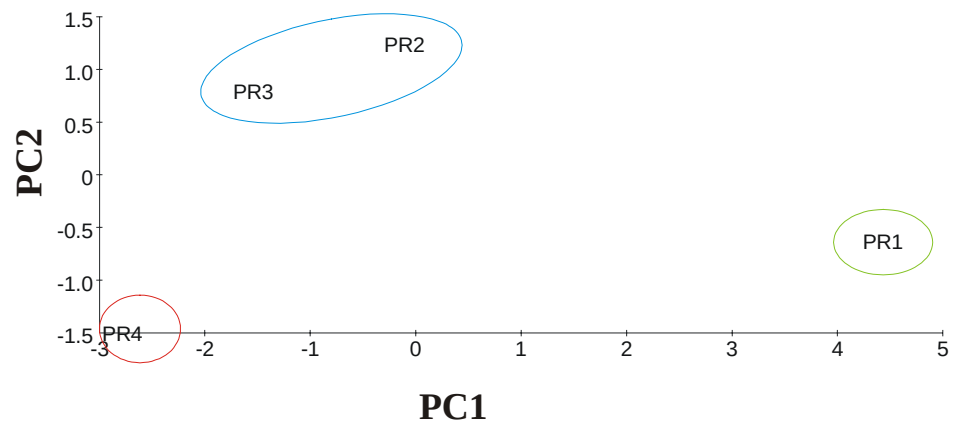
(Coefficients in the linear combinations of variables making up PC's)

Variable	PC1	PC2	PC3	PC4	PC5
TP	-0.058	-0.448	0.049	-0.566	0.495
NH3	-0.219	-0.306	0.479	0.351	-0.135
N23	-0.170	-0.375	0.500	-0.135	-0.037
CHLA	0.442	-0.248	-0.051	-0.093	-0.305
DO	0.445	-0.237	0.099	-0.005	-0.242
COLOR	-0.299	-0.319	-0.436	-0.202	-0.001
TURB	0.466	-0.167	-0.057	-0.227	-0.220
COND	0.332	0.370	0.135	-0.190	0.455
PH	0.329	-0.225	0.107	0.501	0.559
TEMP	0.023	-0.361	-0.532	0.388	0.127

Principal Component Scores

Sample	SCORE1	SCORE2	SCORE3	SCORE4	SCORE5
ALA0	-1.811	-2.595	3.189	0.066	0.141
ALA12	1.325	-1.429	1.099	-0.282	0.581
ALA18	0.795	0.087	0.373	-0.026	1.067
ALA6	0.295	-1.696	1.791	0.606	-0.533
ALASFB	0.949	1.564	0.474	0.088	0.838
ALATB	1.254	1.845	0.024	0.162	1.110
ALASFC	6.225	-1.727	-1.074	-0.559	-0.892
LMR0	-1.349	0.665	-0.036	-0.890	-1.718
LMR12	-1.068	1.488	0.148	-0.179	-0.528
LMR6	-1.251	0.909	-0.313	-0.132	-0.987
LMRRUSK	-0.255	0.858	-0.009	-0.183	-0.434
LMRTB	0.562	2.275	0.231	-0.625	0.536
LMR18	-0.486	2.190	0.630	-0.295	-0.203
PR1	-2.533	-2.133	-2.178	-1.915	0.850
PR2	-1.461	-1.529	-1.661	0.429	0.204
PR3	-0.707	-0.882	-1.527	1.252	0.148
PR4	-0.487	0.111	-1.162	2.484	-0.181

PCA of the environmental variables for the Peace River
alone, averaged by river-station



Appendix PP. PCA results for the Peace River only averaged by river-station.

PCA
Principal Component Analysis

Worksheet

File: K:\3 Rivers\Peace River Phytoplankton\MBNfiles\Peace
PRIMER\PRchem0KwithspeciesBIOENVavgbystation.pri
Sample selection: All
Variable selection: All

Eigenvalues

PC	Eigenvalues	%Variation	Cum.%Variation
1	9.92	82.7	82.7
2	1.60	13.4	96.1
3	0.47	3.9	100.0
4	0.00	0.0	100.0
5	0.00	0.0	100.0

Eigenvectors

(Coefficients in the linear combinations of variables making up PC's)

Variable	PC1	PC2	PC3	PC4	PC5
OP	0.313	0.113	0.127	-0.169	-0.324
TP	0.309	0.182	-0.006	-0.332	-0.021
NH3	-0.240	0.386	0.636	-0.231	0.446
N23	0.314	-0.115	-0.038	0.296	0.548
TN	0.289	0.277	-0.314	-0.326	0.210
CHLA	-0.181	0.566	-0.582	0.035	0.075
DO	-0.294	0.293	-0.067	-0.018	-0.288
COLOR	0.306	0.208	0.078	0.407	-0.112
COND	-0.297	-0.263	-0.158	0.218	-0.080
PH	-0.313	-0.062	-0.208	0.091	0.455
SAL	-0.297	-0.274	-0.076	-0.539	-0.038
TEMP	-0.281	0.344	0.237	0.316	-0.188

Principal Component Scores

Sample	SCORE1	SCORE2	SCORE3	SCORE4	SCORE5
PR1	4.432	-0.609	-0.136	0.000	0.000
PR2	-0.107	1.263	0.770	0.000	0.000
PR3	-1.542	0.820	-0.868	0.000	0.000
PR4	-2.782	-1.473	0.234	0.000	0.000