Phytoplankton Monitoring in the Southwestern Bay of Fundy during 1990-92

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ABSTRACT

Martin, J. L., D. J. Wildish, M. M. LeGresley, and M. M. Ringuette. 1995. Phytoplankton monitoring in the southwestern Bay of Fundy during 1990-92. Can. Manuscr. Rep. Fish. Aquat. Sci. 2277: iii + 154 p.

Monitoring results of phytoplankton populations from the Western Isles region of the Bay of Fundy during 1990, 1991 and 1992 are presented. This report provides an additional 3 yr of data to studies conducted in 1987, 1988 and 1989. Samples were collected from four locations for phytoplankton distribution and abundance, salinity, temperature, dissolved oxygen, chlorophyll *a* and nutrient concentrations (silicates, phosphates and nitrates). Only data from surface waters are discussed in this report, although all data except phytoplankton collected at other depths are included in the appendices. Due to the size of the data set, phytoplankton data at depth are available from the authors.

Dominant species (>10^3 cells•L^{-1}) observed were similar to those from 1987-89 and included: *Skeletonema costatum, Pseudonitzschia pseudodelicatissima, Leptocylindrus minimus, Rhizosolenia delicatula, Thalassiosira gravida, Scrippsiella trochoidea, Chaetoceros socialis*, and *Ceratium minutum. Alexandrium fundyense*, one of the most abundant species during 1987-89, was not observed at concentrations greater than 10^3 cells•L^{-1} during 1990-92. The common summertime pattern for the region has been a late spring/early summer diatom bloom followed by a summer dinoflagellate bloom and diatoms again during late summer/early fall. 1991 was an extremely unusual year where the fall diatom bloom did not occur.

RÉSUMÉ

Martin, J. L., D. J. Wildish, M. M. LeGresley, and M. M. Ringuette. 1995. Phytoplankton monitoring in the southwestern Bay of Fundy during 1990-92. Can. Manuscr. Rep. Fish. Aquat. Sci. 2277: iii + 154 p.

La surveillance des populations de phytoplancton de la région des îles Western, dans la baie de Fundy, s'est poursuivie en 1990, 1991 et 1992, et le présent rapport en donne les résultats. Ce rapport fournit des données recueillies pendant trois années supplémentaires, comme suite aux étudies effectuées en 1987, 1988 et 1989. On a prélevé des échantillons à quatre endroits afin d'étudier la distribution et l'abondance du phytoplancton, la salinité, la température, la teneur en oxygène dissous, en chlorophyll-a et les concentrations d'éléments nutritifs (silicates, phosphates et nitrates). Seules les données sur les eaux de surface sont traitées dans le présent rapport, bien que les appendices donnet toutes les données sauf celles sur le phytoplancton recueilli à d'autres profondeurs. Vu l'importance de l'ensemble de données, on peut obtenir les données sur les phytoplanctons à d'autres profondeurs en communiquant avec les auteurs.

Les espèces dominantes (>10^3 cellules•L^{-1}) observées étaient semblables à celles observées durant l'étude de 1987 à 1989, notamment: *Skeletonema costatum, Pseudonitzschia pseudodelicatissima, Leptocylindrus minimus, Rhizosolenia delicatula, Thalassiosira gravida, Scrippsiella trochoidea, Chaetoceros socialis* et *Ceratium minutum*. L'espèce *Alexandrium fundyense*, une des espèces les plus abondantes observées durant la période de 1987 à 1989, n'a pas dépassé des concentrations de 10^3 cellules•L^{-1} durant la période de 1990 à 1992. En général, voici l'évolution habituelle de la situation durant l'été dans cette région pour la période visée: une prolifération de diatomées apparaissait à la fin du printemps ou au début de l'été, suivie d'une prolifération de dinoflagellés à l'été et d'une nouvelle apparition de diatomées à la fin de l'été ou au début de l'automne. En 1991, il s'est produit un phénomène extrêmement rare: la prolifération automnale de diatomées n'a pas eu lieu.

INTRODUCTION

Although the majority of algal blooms commonly occur without causing any obvious harm or problems in the environment, there are a few species that affect shellfish and finfish resources. There are a number of different algal species that have mechanisms in which this can occur.

Some algae produce toxins that can either cause harm or mortality to humans, marine animals or other vertebrates. For example, in the Bay of Fundy, eastern Canada, during 1977 and 1979, hundreds of tonnes of Atlantic herring (*Clupea harengus harengus*) died from paralytic shellfish poisoning (PSP) toxins (White 1980). The herring had accumulated paralytic shellfish toxins through the food chain by feeding on cladocerans and *Evadne* sp. (type of zooplankton specified) that had in turn been feeding on the alga, *Alexandrium fundyense*, known to produce PSP toxins. In 1987, 14 humpback whales died after eating mackerel that had PSP toxins in their liver and kidneys (MacKenzie 1988). It is assumed that the mackerel had eaten zooplankton that had fed on *Alexandrium*.

Shellfish feeding on marine phytoplankton may accumulate toxins with no obvious effects to the shellfish themselves. The phytotoxins are stored in the shellfish tissues, and when the shellfish are consumed by vertebrate consumers such as humans, the phytotoxins can cause illness, and even death in some cases. Marine phytotoxins are not a new phenomenon in the Bay of Fundy where PSP has been present for hundreds of years (Martin and White 1988). Soft-shell clam (*Mya arenaria*) harvesting areas are closed for a short period (generally during summer months) most years because of unacceptable levels of toxins in the tissues of the clams. In addition, the Bay of Fundy is closed throughout the year for harvesting of blue mussels (*Mytilus edulis*).

Late in 1987, 105 cases of poisoning occurred (including three deaths) when mussels with high levels of domoic acid from Prince Edward Island were consumed. Although shellfish toxicity had been a regular occurrence in Canadian waters, this was the first time that domoic acid was determined to be the cause. The causative organism was *Pseudonitzschia pungens* (Bates et al. 1989). The following year, many areas in Passamaquoddy Bay (Fig. 1) were closed to harvesting due to the unacceptable levels of domoic acid in shellfish tissues. In this case, the affected shellfish had been feeding on the alga *Pseudonitzschia pseudodelicatissima*, which was found to be the producer of domoic acid (Martin et al. 1990).

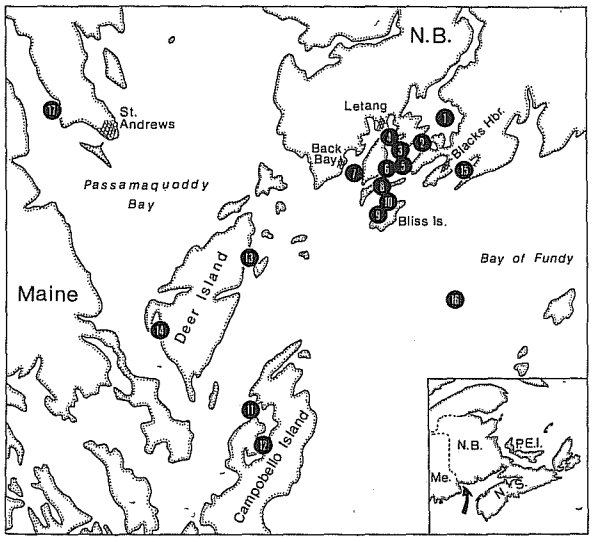

Fig. 1. Map showing stations from which phytoplankton samples were collected.

Another algal species, *Dinophysis* sp., has been responsible for diarrhetic shellfish poisoning in several countries - for example, France (Marcaillou-LeBaut and Masselin 1990), Portugal (Sampayo et al. 1990), the Netherlands (Kat 1987) and recently, Nova Scotia, eastern Canada (Quilliam et al. 1993). Examples from other parts of the world that have experienced major fish mortalities include Canada's west coast where many salmon (*Salmo salar*) from aquaculture operations have died from *Heterosigma carterae* (previously *H. akashiwo*), *Chaetoceros concavicornis*, or *C. convolutus* (Gaines and Taylor 1986; Albright et al. 1993). In Norway, Scotland and Sweden, *Gyrodinium aureolum* has also been implicated in salmonid mortalities (Dahl and Tangen 1990). *Leptocylindrus minimus* was implicated in salmon mortalities in southern Chile (Clément 1994). High densities of *Chrysochromulina polylepis* in Scandinavian waters were responsible in 1988 for deaths of wild and farmed fish, as well as benthic animals and seaweeds (Granéli et al.

1989). *Aureococcus anophagefferens*, also called "brown tide," bloomed with such intensity in 1985 along the northeastern United States that eelgrass beds were demolished and starvation occurred among bay scallop populations (Cosper et al. 1987; Tracey 1988).

It is becoming increasingly evident throughout the world that algal blooms can cause harm to fisheries and consumers (Anderson 1994). However, through careful monitoring of algal populations, many industries can be protected to ensure safe marketable products. Through long-term studies, it will also be possible to establish patterns and trends in algal populations and determine whether predictive models can be designed.

The main objectives of the present study were to act as an early warning of harmful events to both the traditional fisheries, as well as a relatively new and rapidly expanding aquaculture industry, to establish baseline data, and to determine seasonal distribution and possible trends of phytoplankton populations. Results from 1987, 1988 and 1989 have been published previously (Wildish et al. 1988, 1990). Presented in this report are results obtained from analyses of phytoplankton, nutrients (nitrates, phosphates and silicates), temperature, salinity and chlorophyll *a* during 1990, 1991 and 1992.

MATERIALS AND METHODS

Samples were collected from the research vessel, PANDALUS III, from various locations in the southwest Bay of Fundy (Fig. 1). During 1990, sampling was done throughout the year at stations 3, 15, 16 and 17 (Lime Kiln Bay, Deadmans Harbour, near the Wolves and Brandy Cove, respectively) and from January through mid-May and mid-August to December at stations 1, 5, 7, 8, 9, 11, 13 and 14. During 1991, samples were collected and analyzed through the year from the following stations: 3, 5, 7, 8, 9, 11, 13, 14, 15, 16 and 17 (Fig. 1). Sampling during the period 1988-91 was from 17 locations. Due to the similarity of results from certain locations and the financial pressure to lessen the numbers of samples to be analyzed, sampling was reduced to four locations during 1992, with extra sampling occasionally when required from additional sites. Samples were collected from all stations at the surface and 1 m above bottom (except station 16, a deep, offshore station, where samples were collected from the surface, 10 m, 25 m and 50 m) for phytoplankton distribution and abundance, temperature and salinity. Additional analyses were conducted for chlorophyll *a*, dissolved oxygen and nutrients (nitrates, phosphates and silicates) at stations 3, 15, 16 and 17. A Secchi disc measurement was also recorded at the same four stations.

Water samples were collected at the surface with a bucket and at depth with 1.8-L Niskin bottles equipped with reversing thermometers. Samples for phytoplankton enumeration were preserved in 2.5% formalin:acetic acid and later, 50-mL subsamples were settled in a Zeiss counting chamber overnight. All phytoplankton greater than 5 µm were identified and enumerated (as cells•L^{-1}). *Alexandrium fundyense* cells were identified according to life cycle stage. For example, its overwintering form, generally found in sediments is a "cyst"; all life stages observed in the water column are referred to as *Alexandrium fundyense*; the asexual dividing cells observed at the peak of a bloom are "duplets," "triplets" or "quadruplets"; and the sexual phase of the cell that we usually observe when a bloom is ending, where two cells start to fuse together, is referred to as fusing and the result of two cells that have fused is a planozygote.

Nutrients (nitrates, phosphates and silicates) were analyzed with a Technicon Autoanalyzer by the Physical and Chemical Sciences Branch, Department of Fisheries and Oceans, at the Bedford Institute of Oceanography in Dartmouth, N. S. (Wildish et al. 1990).

Dissolved oxygen (DO) concentrations were analyzed by the azide modification of the Winkler method in 300-mL bottles. Final values are presented as percentages of the expected DO value at the same temperature and salinity, assuming saturation (Strickland and Parsons 1968; Parsons et al. 1984).

Chlorophyll *a* was measured using a Turner fluorometer according to the method described by Yentsch and Menzel (Strickland and Parsons 1968; Parsons et al. 1984) using 500

mL seawater. Final results are given as mg chlorophyll *a*•m^{-3}.

Procedures have been described in detail by Wildish et al. (1990).

RESULTS

PHYTOPLANKTON

Numbers of samples analyzed for phytoplankton density during each year were 623, 754 and 210 in 1990, 1991 and 1992, respectively. During this time, 190 different species of microalgae and smaller zooplankton were observed in water samples collected from the surface and at depths of 10 m and 1 m above bottom. A species list is located in Appendix 1. Results from identification and enumeration of phytoplankton are in Appendix 2. Results from depths are available from the authors and data from 1987-90 have been published previously (Wildish et al. 1988, 1990).

Organisms that were observed in numbers greater than 10,000 cells•L^{-1} have been listed for each year in order of dominance in Table 1. *Rhizosolenia delicatula, Mesodinium rubrum* and various species of *Chaetoceros* and *Thalassiosira* were dominant during all three years.

Alexandrium fundyense, the organism responsible for paralytic shellfish poisoning, was observed annually. Blooms for each year were initiated in late May to early June with highest numbers observed for each year in mid-July - 6.85 x 10^4 cells•L^{-1} at station 15 on July 16, 1990; 6.04 x 10^4 cells•L^{-1} at station 16 on July 16, 1991; and 2.01 x 10^4 cells•L^{-1} at station 16 on July 21, 1992 (Fig. 1).

Pseudonitzschia pseudodelicatissima, the organism responsible for domoic acid production in the Bay of Fundy, was observed during all three years. Although *P. pseudodelicatissima* was present throughout the year, highest concentrations observed for each year were: 1.50 x 10^5 cells•L^{-1} at station 8, September 4, 1990; 1.08 x 10^5 cells•L^{-1} at station 7, June 11, 1990; and 1.13 x 10^4 cells•L^{-1} at station 17, May 26, 1992 (Fig. 1).

Table 1. Dominant organisms observed in the southwest Bay of Fundy during 1990-92.

1990
Skeletonema costatum
Pseudonitzschia pseudodelicatissima
Leptocylindrus minimus
Rhizosolenia delicatula
Thalassiosira gravida
Scrippsiella trochoidea
Mesodinium rubrum
Chaetoceros socialis
Ceratium minutum
Ditylum brightnulli
1991
Thalassiosira nordenskioldii
Pseudonitzschia pseudodelicatissima
Scrippsiella trochoidea
Peredinium sp.
Rhizosolenia delicatula
Leptocylindrus minimus
Chaetoceros sp.
Ceratium minutum
Mesodinium rubrum
Leptocylindrus danicus
Chaetoceros debilis
1992
Thalassiosira nordenskioldii
Chaetoceros sp.
Rhizosolenia delicatula
Mesodinium rubrum
Peridinium tuqueta
Chaetoceros compressus

Dinophysis spp., the organisms implicated in diarrhetic shellfish poisoning in many regions of the world, was observed at all sampling locations, but at very low cell densities (Appendix 2).

During all years, temperatures were 6.5°C or more by late May. The spring diatom blooms coincide with the temperature as does decline in algal populations coincide with the

lowering of temperatures in October prior to winter during most years.

During April/May of all three years, the spring diatom bloom was comprised of high concentrations of *Thalassiosira* sp. and *Chaetoceros* sp. This was followed by a dinoflagellate bloom during the summer months and in fall by diatoms for all years except 1991 where there was no fall occurrence of diatoms (Appendix 2). That year, the summer dinoflagellate bloom lingered, at reduced numbers with *Scrippsiella trochoidea* dominating, until late September. Organisms still present at that period continued at a rate normally observed during winter months during 1991.

SALINITY

Salinity levels (Appendix 3) during most times of the year ranged from 28 o/oo in estuarine sites such as station 17 (Fig. 1) to 32 o/oo offshore at station 16 near the Wolves. During late April and May, salinities decreased to 25 o/oo and 26 o/oo during 1990 and 17 o/oo and 20 o/oo during 1991. Low salinities are the result of springtime river runoff. Most other sampling sites had salinities between 30 and 32 o/oo throughout most of the year.

TEMPERATURE

Lowest temperatures measured during each year from 1990-92 were as follows: -1.0°C during February 1990 at station 17; -0.1°C during January 1991 at station 14; and 0°C during January 1992 at station 17 (Appendix 2). Highest temperatures recorded during each year were: 18°C during late August 1990 at station 13; 15°C during early August 1991 at station 7; and 12.7°C during late August 1992 at station 17.

NUTRIENT ANALYSIS

Water samples from stations 3, 15, 16 and 17 (Fig. 1) were analyzed for nitrates, phosphates and silicates. Results are presented in Appendix 4. Station 16 at the Wolves, which was further offshore, exhibited the least fluctuation in values. Silicate levels were consistently high during winter months (between November and April) in contrast with the lower levels observed during spring and summer (May through October) when diatoms were more abundant. Highest silicate levels were measured each year at station 17, an estuary site (Fig. 1), and the highest value was recorded during October 15, 1991 at 16.748 $\mu g \cdot L^{-1}$. The lowest silicate level (0.368 $\mu g \cdot L^{-1}$) was observed at station 16 (Fig. 1) on June 25, 1991.

Measurement of nitrate content indicated that lowest levels were observed at station 15 during all three years and, as with silicates, the lowest levels were observed during summer months. The highest value was also recorded from station 15 (11.311 $\mu g \cdot L^{-1}$) on April 9, 1991. There appeared to be a greater fluctuation at station 15 than at the other three sites.

Phosphate levels remained relatively constant at all four stations throughout the year. The highest level measured (1.542 $\mu g \cdot L^{-1}$) was at station 3 on September 4, 1992 and the lowest (0.131 $\mu g \cdot L^{-1}$) at station 17 on October 22, 1991.

DISSOLVED OXYGEN

Results from measurements of dissolved oxygen (as percent saturation) for 1990 and 1991 are in Appendix 3. Lowest values observed during 1990 were on October 22 at station 3 (79.5%); lowest levels for 1991 were on January 14 at station 16 (86.9%). Highest levels measured for the two years were 141.4% at station 3 on June 28, 1990 and 134.4% at Station 16 on June 28, 1991.

CHLOROPHYLL *a*

Chlorophyll *a* measurements were done during 1990 and 1991 and are located in Appendix 3. Results from 1990 and 1991 indicated highest levels were found during September of 1990 (46.3 $\mu g \cdot L^{-1}$) at a depth of 10 m at station 15 (Deadmans Harbour). This coincided with the fall diatom bloom comprised of several species of diatoms (see Appendix 2). Chlorophyll levels during winter were low, ranging from 0.08-0.70 $\mu g \cdot L^{-1}$. Summertime levels ranged from 0.5-46.3 $\mu g \cdot L^{-1}$.

DISCUSSION

Although more than 190 different species of microalgae have been observed in the Bay of

Fundy region since sampling was initiated in 1987, all but two occur with no obvious adverse effects. Species found that have been implicated in harmful incidents in the Bay of Fundy are *Alexandrium fundyense*, which caused herring mortalities in 1977 and 1979, and results in annual closures of shellfish harvesting areas due to unacceptable levels of paralytic shellfish toxins and and *Pseudonitzschia pseudodelicatissima*, which caused unacceptable levels of domoic acid in shellfish tissues during 1988.

A. fundyense and *P. pseudodelicatissima* occur annually and are known to produce toxins which are accumulated by shellfish such as soft-shell clams, blue mussels or giant scallops when feeding. These toxins are then stored in shellfish tissues with no obvious harm to the bivalves. To ensure safe marketable products for the consumer, the bivalves are monitored regularly by the Inspection Branch of the Department of Fisheries and Oceans so that shellfish harvesting is only permitted when bivalves are safe to consume. Prompt analysis and identification of phytoplankton from monitoring provides an early warning for the Inspection Branch of increasing or decreasing numbers of either *A. fundyense* or *P. pseudodelicatissima*. Results indicate that there is a 1- to 2-wk lag time between an increase in cell number for *A. fundyense* and the rise in shellfish toxicity. Therefore, as numbers of *A. fundyense* rise, shellfish sampling may be increased to ensure that harvesting areas are closed promptly. Similarly, the reverse occurs - when *A. fundyense* numbers decline or the bloom ends, areas are tested for toxins so that they are closed for the shortest possible time. *P. pseudodelicatissima*, the diatom responsible for domoic acid poisoning in the southwest Bay of Fundy, was observed during our sampling in 1987 and 1988 (Wildish et al. 1990). It was a dominant species during 1988 through 1991 and present at lower concentrations during 1992. However, 1988 was the only year that concentrations reached greater than 1.0×10^6 cells•L^{-1} and *P. pseudodelicatissima* dominated plankton populations for 7-8 wk at many locations. This has been the only year that shellfish harvesting areas in the southwest Bay of Fundy were closed to harvesting due to unacceptable levels of domoic acid.

Other microalgal species observed from our sampling in Bay of Fundy waters that have been implicated in harmful incidents or mortalities in other regions of the world include: *Gyrodinium aureolum, Chaetoceros convolutus, Leptocylindrus minimus* and *Dinophysis* spp. These species have not yet been associated with any harmful incidents in the Bay of Fundy. However, in other areas of the World where salmon are grown, *G. aureolum, C. convolutus* and *L. minimus* have been responsible for mortalities of farmed fish. Although these species have not had toxins associated with them, they affect fish by other mechanisms. *G. aureolum* tends to affect gill respiration and leads to sloughing of the gills and seems to require more than 1.0×10^6 cells•L^{-1} to cause fish kills (Dahl and Tangen 1993). Although *G. aureolum* occurs in the Bay of Fundy, highest concentrations observed from our sampling were 3.75×10^4 cells•L^{-1} in Lime Kiln Bay (station 3, Fig. 1) on September 30, 1989. In British Columbia and the State of Washington, *C. convolutus* has caused mortalities in salmonids, probably because its long barbed spines lodge in gills and trigger the release of mucus (Taylor 1993). Mitigation measures consist of not feeding the fish when concentrations of 7.0×10^3 cells•L^{-1} are observed. Our monitoring indicates that *C. convolutus* occurrs annually in the Bay of Fundy, but at lower concentrations than on Canada's west coast. *L. minimus* has been implicated in salmon mortalities in southern Chile, but nowhere else in the world (Clément 1994). The mode of action is suspected to be mechanical problems in the gills. Mortalities occurred at concentrations above 1.0×10^7 cells•L^{-1}. Highest concentrations observed in the southwest Bay of Fundy were considerably lower at station 14 on June 25, 1991 (3.75×10^5 cells•L^{-1}) (Appendix 2).

Studies and outbreaks in many regions of the world indicate that the problems associated with the extent of harmful algal species have increased globally in the last 20 yr (Prakash and Steidenger 1979; Anderson 1989). Although the southwest Bay of Fundy region has not experienced any mortalities in the salmonid industry due to the effects of harmful marine phytoplankton, this does not mean that we can eliminate this as a future possibility. Farmed fish are particularly vulnerable because they cannot

avoid blooms by swimming away, and heavy mortality could occur within hours. Through the monitoring of the phytoplankton populations, not only is it possible to provide an early warning, but it aids in establishing patterns and trends within populations and provides the possibility of developing predictive models.

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Appendix 1. Species observed during 1990-92.

Species list for 1990-1992

Alexandrium fundyense
Alexandrium (duplet)
Alexandrium (fusing)
Alexandrium (planozygote)
Alexandrium (quadruplet)
Alexandrium (triplet)
Ceratium fusus
Ceratium longipes
Ceratium minutum
Ceratium sp.
Ceratium tripos
Dinophysis acuminata
Dinophysis acuta
Dinophysis norvegica
Dinophysis rotundata
Dinophysis sp.
Gonyaulax spinifera
Gonyaulax triacantha
Gymnodinium sp.
Gyrodinium aureolum
Gyrodinium sp.
Peridinium conicum
Peridinium denticulatum
Peridinium depressum
Peridinium excentricum
Peridinium limbatum
Peridinium sp.
Peridinium triqueta
Phalacroma pulchellum
Prorocentrum compressum
Prorocentrum micans
Prorocentrum sp. "a"
Scrippsiella trochoidea
Unarmoured dinoflagellate
Achnanthes sp.
Actinoptychus undulatus
Asterionella japonica
Asterionella kariana
Asterionella sp.
Biddulphia alternans
Biddulphia aurita
Biddulphia obtusa
Biddulphia regia
Biddulphia sp.
Cerataulina pelagica
Chaetoceros affinis
Chaetoceros altanticus
Chaetoceros borealis
Chaetoceros compressus
Chaetoceros constrictus
Chaetoceros convolutus
Chaetoceros debilis
Chaetoceros decipiens
Chaetoceros diadema
Chaetoceros didymus
Chaetoceros furcellatus
Chaetoceros laciniosus
Chaetoceros lorenzianus
Chaetoceros mitra
Chaetoceros simplex
Chaetoceros socialis
Chaetoceros sp.
Chaetoceros subtilis
Chaetoceros teres
Corethron criophilum
Coscinodiscus sp.
Coscinosira polychorda
Detonula cystifera
Ditylum brightwelli
Eucampia sp.
Eucampia zoodiacus
Fragilaria oceanica
Fragilaria sp.
Grammatophora marina
Guinardia flaccida
Gyrosigma baltica
Gyrosigma fasciola
Gyrosigma littorale
Gyrosigma sp.
Gyrosigma tennuissimum
Lauderia borealis
Leptocylindrus danicus
Leptocylindrus minimus
Lycmophora lyngbyei
Melosira ambigua
Melosira monoliformis
Melosira sp.
Navicula sp.
Nitzschia closterium
Nitzschia sp.
Paralia sulcata
Pleurosigma angulatum
Pleurosigma formosum
Pleurosigma sp.
Pleurosigma strigosum
Porosira glacialis
Pseudonitzschia pseudodelicatissima
Pseudonitzschia pungens
Pseudonitzschia seriata
Rhabdonema arcuatum
Rhabdonema sp.
Rhizosolenia alata
Rhizosolenia delicatula
Rhizosolenia fragillima
Rhizosolenia gracillima
Rhizosolenia hebetata
Rhizosolenia setigera
Rhizosolenia shrubsolei
Rhizosolenia sp.
Rhizosolenia stolterfothii
Skeletonema costatum
Stephanopyxis turris
Tabellaria sp.
Thalassiosira baltica
Thalassiosira condensata
Thalassiosira decipiens
Thalassiosira gravida
Thalassiosira nordenskioeldii
Thalassiosira sp.
Thalassiothrix longissima
Thalassiothrix nitzschiodes
Acartia sp.
Brachionus sp.
Dinobryon
Distephanus speculum
Euglena sp.
Eutreptia sp.
Favella sp.
Helicostomella sp.
Mesodinium rubrum
Notholca sp.
Parafavella sp.
Ptychocylis sp.
Salpingella sp.
Tintinnids
Tintinnopsis campanula

Appendix 2. Phytoplankton densities as number of cells/L for surface seawater in the Western Isles region during 1988.

DATE: 23-01-90	STATION NUMBER											
ORGANISM	1	3	5	7	8	9	11	13	14	15	16	17
Ceratium minutum			20		40	20					20	
Dinophysis acuminata	20								20			
Dinophysis rotundata			20									
Gyrodinium sp.	40	20	20		20	60						
Actinoptychus undulatus		20	20			20	40				100	
Biddulphia obtusa			60					20	20		40	
Biddulphia sp.				20								
Chaetoceros debilis				20						40		
Chaetoceros sp.				20		20	20	20				20
Corethron criophilum	20	40			20		60		20			20
Coscinosira polychorda					20							
Ditylum brightwelli		20			20	40	40	60	20		20	
Gyrosigma fasciola	20											
Gyrosigma sp.				20			20					
Leptocylindrus minimus					20			20	20			
Lycmophora lyngbyei	20											
Melosira sp.	20	60	60		20	80	20	40				
Navicula sp.	20	20	20		20		20	60			20	
Nitzschia closterium	480	720	80	20	1000	820	1000	1360	680	100	40	140
Pleurosigma sp.	20		20		40			20				
Pseudonitzschia pseudodelicatissima	60	1200	40	180	1100	260	640	1000	980	360		100
Rhizosolenia delicatula		40			20	100			20		60	20
Rhizosolenia setigera				20			20		40			20
Rhizosolenia shrubsolei				20								
Skeletonema costatum		40		100	140	20	180	200	80	20		
Stephanopyxis turris				20								
Thalassiosira gravida				20								
Acartia sp.				20		20						
Distephanus speculum	20											
Eutreptia sp.	20	40			40	20	40	100	60			
Mesodinium rubrum	540	40		40	120	1080	60		440	40	20	80
Tintinnids	340	40	100	20	80	920	80	200				20

DATE: 22-02-90	STATION NUMBER											
ORGANISM	1	3	5	7	8	9	11	13	14	15	16	17
Ceratium minutum	80									20		
Gyrodinium sp.		20			20	40			20			20
Peridinium sp.					20					20		
Actinoptychus undulatus		20							40			
Asterionella japonica		20										
Biddulphia aurita				20	20	20		20				
Biddulphia obtusa					40	20						
Chaetoceros convolutus					20							
Corethron criophilum	20		40			20						
Coscinosira polychorda						40						
Ditylum brightwelli	20			20		20		40				
Gyrosigma fasciola	20			40				20	20			
Gyrosigma littorale				20								
Gyrosigma sp.		20					20					
Leptocylindrus danicus					20							
Leptocylindrus minimus				40		20		40				20
Lycmophora lyngbyei					20							
Melosira monoliformis						20						
Melosira sp.	20	40			60	40	20		40	60		
Navicula sp.	20	20	20	20		20		60	40	80		20
Nitzschia closterium		80	100		280	120	240	200	240	40		40
Pleurosigma angulatum		20										
Pleurosigma sp.	40				20		60					
Pleurosigma strigosum			40	20								
Pseudonitzschia pseudodelicatissima	20	1640	1020	340	1420	860	260	560	800			280
Rhizosolenia delicatula					20							
Rhizosolenia setigera		20					20	20				
Rhizosolenia sp.			40									
Skeletonema costatum		80	140	40	40	120		80	80			
Thalassiosira decipiens		40			20							
Thalassiosira nordenskioeldii					40	60			20			
Thalassiosira sp.			20	20	40		40	20	60	20		20
Distephanus speculum	20					20	20		40			20
Eutreptia sp.		20	20	20	80		40		20			
Mesodinium rubrum		120	40	80	60			40	20	20		20
Tintinnids	120	180		20	360	160	220	20	60	20		180

DATE: 13-03-90

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Gyrodinium aureolum						20						
Gyrodinium sp.	20						60	20		20		
Peridinium sp.				20	20	20			20	20	20	
Achnanthes sp.				40								
Actinoptychus undulatus			80		20	20			60	20		
Biddulphia aurita				20		40						
Biddulphia obtusa		40	20	20	60	20	20		40			
Biddulphia sp.			20						20			
Cerataulina pelagica	20											
Chaetoceros simplex	20											
Chaetoceros sp.	80		20	40	100	40	40			60	20	20
Coscinosira polychorda		20										
Fragilaria oceanica	20		20		20	20						
Grammatophora marina					40							
Gyrosigma fasciola			20							20		60
Leptocylindrus minimus	20		20	100	40		20					40
Lycmophora lyngbyei		40		40	20	100						
Melosira ambigua			20									20
Melosira monoliformis	20		20		60							
Melosira sp.	80	140	80	40		20	120	20	20			20
Navicula sp.	40	40	40		40	20		20	80	120		
Nitzschia closterium	140	200	160	220	320	360	200		80	280		140
Pleurosigma angulatum			40									
Pleurosigma sp.				40	20			20				
Pseudonitzschia pseudodelicatissima	1400	1160	1460	1200	1680	1360	1020		420	2140	360	200
Rhabdonema arcuatum					40				20		20	
Rhizosolenia delicatula	20					20				40		20
Rhizosolenia fragillima				20						20		
Rhizosolenia setigera	40					40				20		
Skeletonema costatum	40	160	80	120	60	20	100		60	20		
Thalassiosira decipiens			40	140	200	40	80		40			20
Thalassiosira gravida	40										20	
Thalassiosira nordenskioeldii			20	40	80		120				20	
Thalassiosira sp.	20	20				40			20			20
Distephanus speculum	60			60	80	60	60		20	20		40
Eutreptia sp.	40	60	80	160	220	300	40		40			
Mesodinium rubrum			100		80	200	80		340		60	140
Tintinnids	160	100	300	420	500	380	400	60	300	220		240

DATE: 09-04-90

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Dinophysis acuminata					20							
Gyrodinium sp.		20	80		120	60	40	20	20	60	20	
Peridinium sp.	40	20	20		20	20		20				
Biddulphia aurita					20	40						
Biddulphia obtusa			20			40				40	20	
Chaetoceros debilis					20							
Chaetoceros sp.			20				40		60		20	20
Coscinodiscus sp.	20	20				20						
Eucampia zoodiacus	20											
Gyrosigma fasciola	20				20							20
Leptocylindrus minimus			20		40					40		
Lycmophora lyngbyei					20					20		
Melosira monoliformis	20											
Melosira sp.			40		40	60	20	60	40	40	40	
Navicula sp.	20					40	60		20	60	20	
Nitzschia closterium	40		80		80		40		20	20		20
Pleurosigma angulatum					20		20					
Pleurosigma sp.			20		20	20		20				
Pseudonitzschia pseudodelicatissima	240		320		400		380		140	380	100	60
Rhizosolenia delicatula			20		20							
Skeletonema costatum	20		20		60		20			80	60	
Thalassiosira condensata					20							
Thalassiosira decipiens	60		40		120		20			60		40
Thalassiosira gravida					20				40		20	
Thalassiosira nordenskioeldii	40											
Thalassiosira sp.			20				60		20			
Thalassiothrix nitzschiodes					20		20					20
Distephanus speculum	20		40				40				20	
Eutreptia sp.	160		120		80		80			40		
Mesodinium rubrum	260		140		40		20					100
Tintinnids	20		120		40	20	40	40	260	80	20	60

DATE: 23-04-90	STATION NUMBER											
ORGANISM	1	3	5	7	8	9	11	13	14	15	16	17
Gyrodinium sp.	120			160	40			20	40	40		20
Peridinium sp.	20	60	20	20	160	20	20	60	60	120		40
Peridinium triqueta				20						20		
Scrippsiella trochoidea				20			20					
Actinoptychus undulatus		20				40				20		40
Biddulphia aurita				20			40	20	20			
Chaetoceros debilis	40	60			140		60					80
Chaetoceros sp.	20	40		120	120	20		100		40		120
Coscinodiscus sp.		20						20			20	
Eucampia sp.						20						
Eucampia zoodiacus						20						
Fragilaria oceanica	40											
Gyrosigma fasciola	60			20							20	
Leptocylindrus minimus				20	20					20		
Lycmophora lyngbyei			20	20		20	20	20		40		20
Melosira monoliformis					20							
Melosira sp.	20			40	20		20		20			
Navicula sp.	80	20			20		20	40	40		20	20
Nitzschia closterium	60				40	60		40	20	20		40
Pseudonitzschia pseudodelicatissima	460	240		180	180	100	60	60		220		60
Rhabdonema arcuatum	20											
Rhizosolenia hebetata				20								
Skeletonema costatum	20	40			80	100		40		140		
Thalassiosira condensata					60							
Thalassiosira decipiens	60	40		20	80			40		100		
Thalassiosira gravida		140			60	20	20	60		40		
Thalassiosira nordenskioeldii	300							40		20		20
Thalassiosira sp.					140					40		20
Thalassiothrix nitzschiodes	100	40			40	20				160		80
Distephanus speculum	80	40			80	40				60		20
Eutreptia sp.	200			60	40	20				60		180
Mesodinium rubrum	80	320		80	340	100	300	220		60		240
Tintinnids	840	280	20	160	340		20	20		260		1860

DATE: 08-05-90

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense	60	20	60	60		40	20	20	80	260		
Ceratium longipes	20	20										
Dinophysis acuminata		20										
Dinophysis acuta				20								
Dinophysis norvegica	20											
Dinophysis sp.					20							
Gonyaulax triacantha						20						
Gyrodinium sp.					20						20	
Peridinium sp.	60	80	60	20	140	120	20	40	80	240	20	
Peridinium triqueta	60	20	40	40	40							
Achnanthes sp.			20									
Actinoptychus undulatus		20										
Biddulphia aurita	20			100		20						
Biddulphia sp.				20								
Chaetoceros constrictus		100	20	100	200					80		
Chaetoceros debilis	80	60	20	60	120	20	40	40	560	20		300
Chaetoceros diadema		100	20	180	20	40	540	60	1480	20		220
Chaetoceros simplex		20				20						
Chaetoceros sp.	140	220	160	560	380	380	1940	1340	7720	160	400	2940
Chaetoceros teres		20		20			80	60	240		20	80
Coscinodiscus sp.			20		20							
Coscinosira polychorda	20			40				20	80			100
Eucampia sp.				20								
Fragilaria sp.	20		20			20			40	80		120
Gyrosigma baltica			20	60			40	20				20
Gyrosigma fasciola	20				20	20				20		
Gyrosigma littorale			20									
Leptocylindrus minimus		40	60			60		40				
Lycmophora lyngbyei	20					40					20	
Melosira monoliformis					60	100				20		
Melosira sp.					20							
Navicula sp.	60	60	60	100	40	20	40			140		20
Nitzschia closterium	60	40	20	20	20	40	20		80	20	80	40
Pleurosigma formosum				20								
Pseudonitzschia pseudodelicatissima	60	440	60	220	300	20		60		160	280	20
Rhizosolenia fragillima			20									20
Rhizosolenia setigera					20							
Skeletonema costatum	20	220		60	120	80	40	100	120	120	20	20
Thalassiosira decipiens	40	80	40	40	40						80	20
Thalassiosira gravida	120	40	20	100	140	60	260	320	720	180	20	320
Thalassiosira nordenskioeldii	60	140	360	680	540	40	980	840	9560	220	320	3540
Thalassiosira sp.	60			60	20			60	200	20		20
Thalassiothrix nitzschiodes	40	80		20		60		20		40	120	
Distephanus speculum	20	20			20	20				20	20	
Euglena sp.			20									
Eutreptia sp.	180	540	560	220	120	720	120	120	40	160	80	20
Mesodinium rubrum	240	2040	2000	1160	220	700	900	380	2160	100	40	4440
Notholca sp.						20						
Tintinnids		700	120	220	200	360	240	100	440	40	120	

DATE: 14-05-90	STATION NUMBER											
ORGANISM	1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense		20	20		80	20		20				
Alexandrium (duplet)			20		40							
Gyrodinium sp.			60	40						40		80
Peridinium sp.			80	40		80		80	20	60		40
Peridinium triqueta				80				20		60		
Scrippsiella trochoidea						20						
Achnanthes sp.				40						20		20
Chaetoceros debilis	160	180	160	800	440	440	680	780	220	260		540
Chaetoceros decipiens		20					40	80	20			
Chaetoceros diadema		40			480	480	200	1620	540	100		540
Chaetoceros laciniosus		40				20	40		40			20
Chaetoceros socialis			980	200		1720	4360	20	80	2160		3100
Chaetoceros sp.	120	240	260	3480	1440	920	1280	3200	1060	920		900
Chaetoceros teres			20	200	200	60	80	400		40		40
Corethron criophilum		60										
Coscinodiscus sp.			20	40	40							
Coscinosira polychorda		40			120	40	40	20		60		80
Ditylum brightwelli						40		20				
Fragilaria oceanica			40	40			80			20		40
Leptocylindrus minimus			60	40	160	100	80	80	20	20		40
Lycmophora lyngbyei		20		40	40	40		20		60		20
Melosira sp.		20	20			40				100		20
Navicula sp.	40	40		80		20	40	20	40	40		20
Nitzschia closterium		140	300			140	120	20	20	720		360
Pleurosigma sp.			20									
Pseudonitzschia pseudodelicatissima	40	100	620	80	80	840	720		80	1480		340
Pseudonitzschia pungens				40								
Rhabdonema arcuatum						20	40					20
Rhizosolenia setigera			20									
Skeletonema costatum		100	60	80	160	200	80	60	20	260		220
Thalassiosira decipiens	40	100	220	200	40	400	160	40	40	540		200
Thalassiosira gravida	80	380	320	920	400	800	1280	1500	980	380		1100
Thalassiosira nordenskioeldii		3200	620	9320	7600	2540	3960	18580	2600	2060		3000
Thalassiosira sp.		80	20	3400		80	160		80	40		120
Thalassiothrix nitzschiodes						20				100		40
Distephanus speculum	40	20						20	20	20		
Eutreptia sp.	200	100	1160	40	200	620	640			840		40
Mesodinium rubrum	280	460	760	40	320	440		280	40	20		240
Tintinnids	160	140	3000	240	440	1600	160	220		1160		440

DATE: 22-05-90

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense		120								80	240	40
Peridinium sp.		120								160	480	80
Chaetoceros debilis		40								40	360	880
Chaetoceros sp.		240								680	1200	4800
Coscinosira polychorda		40								80	160	40
Leptocylindrus minimus		40								80	200	80
Nitzschia closterium		80								200	160	40
Pseudonitzschia pseudodelicatissima		360								40	160	
Skeletonema costatum		440								600	240	80
Thalassiosira decipiens		120								280	240	
Thalassiosira gravida		320								200	160	280
Thalassiosira nordenskioeldii		2040								4000	4200	8760
Thalassiosira sp.		280								120		
Eutreptia sp.		720								1240	1760	
Mesodinium rubrum		1880								1200	3120	52220
Ptychocylis sp.		40										
Tintinnids		2000								800	2400	840

DATE: 29-05-90

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense		40										
Alexandrium (quadruplet)		20										
Ceratium minutum		20										
Gyrodinium sp.		60									80	340
Peridinium sp.		140								20	80	180
Achnanthes sp.		20								40		
Chaetoceros debilis		100								100	120	600
Chaetoceros sp.		140								20	260	1440
Chaetoceros teres		40								40	20	220
Coscinodiscus sp.		20										20
Leptocylindrus minimus		180								80	100	820
Melosira sp.		20								20		
Navicula sp.		20									20	100
Nitzschia closterium		20								540	220	420
Pleurosigma angulatum		20								20		60
Pleurosigma sp.		20										20
Pseudonitzschia pseudodelicatissima		440								1580	540	1700
Rhizosolenia hebetata		100								120	100	
Rhizosolenia sp.		40										
Skeletonema costatum		100								820		20
Thalassiosira decipiens		440								640	320	80
Thalassiosira gravida		160								140	180	280
Thalassiosira nordenskioeldii		160								400	780	1900
Thalassiothrix nitzschiodes		40										
Eutreptia sp.		400								640	280	200
Mesodinium rubrum		560								20	780	3380
Tintinnids		1860								1800	660	4700

DATE: 04-06-90

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Gyrodinium sp.		60								140		140
Peridinium conicum		20								20		
Peridinium sp.		60								180		240
Achnanthes sp.		20								100		
Biddulphia obtusa		80								280		40
Chaetoceros debilis		180								180		120
Chaetoceros furcellatus		60										
Chaetoceros socialis		40										20
Chaetoceros sp.		220								520		200
Chaetoceros teres		100								20		120
Coscinosira polychorda		40										
Eucampia zoodiacus		40								20		20
Fragilaria oceanica		20								200		20
Grammatophora marina		20								80		40
Gyrosigma fasciola		20								60		
Leptocylindrus minimus		240								560		920
Lycmophora lyngbyei		20								80		20
Melosira monoliformis		40								380		
Melosira sp.		20								100		20
Nitzschia closterium		280								520		1080
Pleurosigma sp.		20								20		
Pseudonitzschia pseudodelicatissima		1200								2560		1400
Rhabdonema arcuatum		180								200		40
Rhizosolenia hebetata		140								80		20
Skeletonema costatum		480								720		60
Thalassiosira decipiens		620								960		180
Thalassiosira gravida		180								340		100
Thalassiosira nordenskioeldii		140								220		200
Thalassiosira sp.		100								60		
Thalassiothrix nitzschiodes		20								60		40
Acartia sp.		20								20		20
Eutreptia sp.		180								1000		480
Mesodinium rubrum		500								1360		480
Tintinnids		1620								3120		6100

DATE: 11-06-90

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense		200								40	40	320
Alexandrium (duplet)		40										40
Gyrodinium sp.		40								80	200	480
Peridinium sp.		120								200	640	1120
Peridinium triqueta		120										
Prorocentrum micans		40										
Scrippsiella trochoidea		120									40	360
Biddulphia aurita		40										
Biddulphia obtusa		240								40	240	
Chaetoceros constrictus		40										
Chaetoceros convolutus		80									40	
Chaetoceros debilis		3560								5320	11320	3400
Chaetoceros decipiens		240								240	520	
Chaetoceros laciniosus		200								320	360	
Chaetoceros sp.		760								960	2680	80
Chaetoceros teres		40								40	120	
Coscinosira polychorda		240								400	640	40
Eucampia zoodiacus		240								160	520	20
Grammatophora marina		40								40	80	
Gyrosigma baltica		40										
Leptocylindrus minimus		640								1040	3240	1420
Melosira monoliformis		40									40	20
Navicula sp.		40								40		20
Nitzschia closterium		320								1680	2760	100
Pseudonitzschia pseudodelicatissima		2080								24480	22560	360
Pseudonitzschia pungens		40										
Rhabdonema arcuatum		40									40	
Rhizosolenia hebetata		280								200	600	40
Skeletonema costatum		4440								760	3640	
Thalassiosira decipiens		1760								1600	2040	20
Thalassiosira gravida		480								1160	3040	
Thalassiosira nordenskioeldii		160										
Distephanus speculum		280								40	200	
Eutreptia sp.		1680								480	960	100
Mesodinium rubrum		1040								80	760	200
Tintinnids		1800								1160	2480	4640

DATE: 18-06-90

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense		160								40		400
Alexandrium (duplet)		80										60
Dinophysis acuminata		40								40		
Gyrodinium sp.		280								120		
Peridinium sp.		560								600		260
Scrippsiella trochoidea		160								80		180
Biddulphia obtusa		120										
Chaetoceros debilis		1640								1800		7300
Chaetoceros decipiens		80								80		40
Chaetoceros laciniosus		40								80		
Chaetoceros socialis		240								2520		
Chaetoceros sp.		760								600		60
Chaetoceros teres		40										
Corethron criophilum		40										
Coscinosira polychorda		520								800		
Detonula cystifera		80								280		
Eucampia sp.		40										40
Leptocylindrus minimus		200								200		1000
Nitzschia closterium		440								1560		180
Pseudonitzschia pseudodelicatissima		42440								156680		160
Pseudonitzschia pungens		120								160		
Pseudonitzschia seriata		40										
Rhizosolenia hebetata		280								400		
Skeletonema costatum		21220								42440		20
Thalassiosira condensata		80								200		
Thalassiosira decipiens		9600								5240		
Thalassiosira gravida		880								1080		40
Thalassiosira nordenskioeldii		120										
Thalassiosira sp.		80								160		
Brachionus sp.		40										
Eutreptia sp.		40								80		
Mesodinium rubrum		48960								29380		5400
Ptychocylis sp.		80								40		
Tintinnids		3400								1520		640

DATE: 28-06-90

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense		2920								800	20	520
Alexandrium (duplet)		280									20	80
Alexandrium (quadruplet)		40										
Dinophysis acuminata		160								80	100	80
Gonyaulax triacantha		80										80
Gyrodinium aureolum		40									960	
Gyrodinium sp.		80									420	160
Peridinium sp.		920								320	940	240
Peridinium triqueta		480								120	100	200
Scrippsiella trochoidea		640								160	120	320
Chaetoceros constrictus		120								240		
Chaetoceros debilis		1360								1800	3540	3080
Chaetoceros decipiens		160								240		
Chaetoceros sp.		280								600	200	
Coscinosira polychorda		280								1000	100	80
Leptocylindrus minimus		80								160	240	480
Navicula sp.		40										
Nitzschia closterium		80								200	940	40
Pseudonitzschia pseudodelicatissima		40								1040	1700	320
Pseudonitzschia seriata		280								560		
Rhizosolenia delicatula		40										40
Rhizosolenia fragillima		40									20	80
Skeletonema costatum		1480								5440	340	160
Thalassiosira decipiens		400								1000	320	
Thalassiosira gravida		480								1960		80
Thalassiosira sp.		1320								1240	20	
Brachionus sp.		280								200	160	80
Eutreptia sp.		120								120	60	
Helicostomella sp.		120								40	100	160
Mesodinium rubrum		14560								107720	1060	1880
Ptychocylis sp.		80								120	60	
Tintinnids		680								160	2280	680

DATE: 09-07-90

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense		2200								11600		1360
Alexandrium (duplet)		800								3400		240
Alexandrium (planozygote)		100								500		80
Dinophysis norvegica		200								100		80
Gyrodinium aureolum		100										480
Peridinium conicum		100								100		
Peridinium sp.		6800								15500		3840
Peridinium triqueta		900								4400		640
Scrippsiella trochoidea		200								2800		80
Actinoptychus undulatus		100										160
Chaetoceros decipiens		200								300		
Chaetoceros sp.		7600								7500		1280
Coscinosira polychorda		500								900		
Detonula cystifera		600								1300		80
Ditylum brightwelli		200								100		
Eucampia sp.		100								300		
Leptocylindrus minimus		4800								5800		9600
Navicula sp.		200										80
Nitzschia closterium		6700								6500		32000
Pleurosigma sp.		100										
Pseudonitzschia pseudodelicatissima		26300								32900		29920
Pseudonitzschia pungens		300										400
Skeletonema costatum		122400								326400		1680
Thalassiosira condensata		1100								500		80
Thalassiosira decipiens		8700								5400		320
Brachionus sp.		100								500		
Eutreptia sp.		400								100		80
Helicostomella sp.		2700								4400		720
Mesodinium rubrum		6400								5000		1200
Ptychocylis sp.		100										80
Tintinnids		2200								4700		2640

DATE: 16-07-90

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense		520								1160	68540	520
Alexandrium (duplet)		100								200	760	120
Ceratium longipes		20									40	
Dinophysis acuminata		60								40	800	80
Dinophysis norvegica		40								80	560	80
Gyrodinium sp.		20								240	1040	120
Peridinium sp.		1120								2640	3080	1320
Peridinium triqueta		40								160	1320	240
Scrippsiella trochoidea		400								320	1600	200
Chaetoceros decipiens		20								40	80	40
Chaetoceros simplex		40										280
Chaetoceros sp.		260								200	560	720
Coscinosira polychorda		100								1000	560	40
Detonula cystifera		300								400	240	
Eucampia sp.		20									120	40
Eucampia zoodiacus		40									40	
Leptocylindrus minimus		3940								21220	45700	35900
Lycmophora lyngbyei		20								80		40
Melosira sp.		20										
Navicula sp.		20										
Nitzschia closterium		4120								7640	12840	9160
Pleurosigma angulatum		20										80
Pseudonitzschia pseudodelicatissima		3420								5400	1520	58760
Rhizosolenia sp.		20										
Skeletonema costatum		27740								89760	76700	1040
Thalassiosira decipiens		220								240	80	480
Thalassiosira sp.		80								40		
Acartia sp.		60										
Brachionus sp.		120									40	80
Eutreptia sp.		620								160	200	80
Helicostomella sp.		340								240	2520	280
Mesodinium rubrum		220								760	320	2960
Tintinnids		720								160	2760	1640

DATE: 24-07-90

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense		1640								2880	2320	
Alexandrium (duplet)		120								480	200	
Alexandrium (planozygote)		40								160		
Ceratium longipes		40									40	
Dinophysis acuminata		200								400	360	80
Dinophysis norvegica		160								320	280	
Gyrodinium sp.		280								880	1040	640
Peridinium conicum		80								200	200	40
Peridinium depressum		40										
Peridinium sp.		4080								7080	3960	560
Peridinium triqueta		440								1560	520	
Scrippsiella trochoidea		3000								4440	3360	880
Actinoptychus undulatus		40										40
Cerataulina pelagica		40										
Chaetoceros decipiens		40								40	40	
Chaetoceros simplex		600								360	320	2160
Chaetoceros sp.		2040								760	600	4520
Detonula cystifera		40									40	160
Eucampia sp.		80									80	
Fragilaria oceanica		40										1400
Leptocylindrus minimus		55480								205640	127300	104440
Lycmophora lyngbyei		80								80	40	560
Melosira monoliformis		40										
Melosira sp.		80								40		80
Navicula sp.		80								40	40	40
Nitzschia closterium		1240								1080	1400	2840
Pleurosigma sp.		40										40
Pseudonitzschia pseudodelicatissima		3880								2720	2040	3320
Pseudonitzschia pungens		40										
Skeletonema costatum		1120								240	40	320
Thalassiosira decipiens		80										280
Thalassiosira sp.		40										280
Thalassiothrix nitzschiodes		40										
Acartia sp.		40								40	80	40
Distephanus speculum		160								160	80	80
Eutreptia sp.		120								240	80	160
Favella sp.		40								200	120	120
Helicostomella sp.		520								800	440	480
Mesodinium rubrum		200								160	2120	840
Tintinnids		2120								1920	4160	2520

DATE: 31-07-90

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense		320										160
Alexandrium (duplet)		40										
Ceratium longipes		40									200	20
Ceratium minutum		400									120	20
Dinophysis acuminata		280									320	100
Dinophysis norvegica		480									240	100
Dinophysis sp.		120										
Gonyaulax spinifera		240									120	
Gyrodinium aureolum		120										
Gyrodinium sp.		120									160	20
Peridinium conicum		40										
Peridinium sp.		2080									4080	40
Peridinium triqueta		520										20
Scrippsiella trochoidea		57120									7280	1500
Chaetoceros compressus		40										
Chaetoceros laciniosus		40										40
Fragilaria oceanica		240									1360	
Leptocylindrus minimus		240									40	355780
Lycmophora lyngbyei		240									160	1040
Navicula sp.		40										
Nitzschia closterium		360									120	60
Pseudonitzschia pseudodelicatissima		120									40	1380
Brachionus sp.		40									80	20
Eutreptia sp.		320										20
Favella sp.		160									120	
Helicostomella sp.		360									200	640
Mesodinium rubrum		8800									1920	2560
Tintinnids		1080									1640	1840

DATE: 07-08-90

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense		120								40	120	40
Ceratium longipes		60								120	640	40
Ceratium minutum		160								520	1360	160
Dinophysis acuminata		300								1120	3440	320
Dinophysis norvegica		280								600	2240	140
Dinophysis rotundata		20								40		20
Dinophysis sp.		20										
Gonyaulax spinifera		180								800	1320	40
Gyrodinium aureolum		160								680	1000	80
Gyrodinium sp.		520								2120	3040	420
Peridinium sp.		1880								5040	7880	1480
Peridinium triqueta		300								1120	800	640
Scrippsiella trochoidea		2960								10600	17480	3900
Cerataulina pelagica		20									40	1860
Chaetoceros compressus		880								1640		
Chaetoceros constrictus		20										
Chaetoceros laciniosus		40								80		80
Chaetoceros sp.		320								880		120
Corethron criophilum		20								80		
Coscinodiscus sp.		20										20
Fragilaria sp.		60								40		20
Leptocylindrus minimus		180								320	80	127300
Lycmophora lyngbyei		380									80	20
Navicula sp.		60									40	
Nitzschia closterium		420								400	40	100
Pleurosigma angulatum		20								80		100
Pseudonitzschia pseudodelicatissima		100								200		3860
Pseudonitzschia seriata		20										20
Rhizosolenia delicatula		60									40	80
Skeletonema costatum		980								1040	120	160
Distephanus speculum		100								160	200	60
Eutreptia sp.		40								40	160	80
Favella sp.		20								80	120	40
Helicostomella sp.		20								80	200	280
Mesodinium rubrum		2340								12760	4840	34280
Tintinnids		460								960	1000	440

DATE: 13-08-90	STATION NUMBER											
ORGANISM	1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense	20				20					20		
Ceratium longipes	20	60		40	20	100	20	80	80		280	80
Ceratium minutum	360	260	120	360	420	720	280	140	620		3160	1840
Dinophysis acuminata	240	340	320	300	40	360	260	140	520		1440	1200
Dinophysis norvegica	340	180	400	300	140	420	100	60	500		800	1040
Dinophysis sp.						20						
Gonyaulax spinifera	340	240	200	600	3500	1880	40	280	320		1920	1040
Gonyaulax triacantha	40			20	20	20						80
Gyrodinium aureolum	20	40	40		820	280		120	100		800	320
Gyrodinium sp.	460	600	240	320	1480	1980	100	220	360		2480	1200
Peridinium conicum		20				20			40		80	
Peridinium sp.	660	600	400	1460	1900	4400	600	300	1260	40	7360	3120
Peridinium triqueta	120	120	100	400	580	1920	60	400	360		2080	2200
Prorocentrum micans					20							
Scrippsiella trochoidea	500	780	740	3000	73440	6460	360	560	760		7360	1520
Cerataulina pelagica		20	40				60	160	100	20		320
Chaetoceros affinis		20										
Chaetoceros constrictus		60	20	40	20	20	20	40	60		280	80
Chaetoceros debilis					20	20				40	120	
Chaetoceros decipiens		40		60			20	40				40
Chaetoceros laciniosus	60		20			40	60		20		160	240
Chaetoceros simplex						20	80		600			840
Chaetoceros socialis			20	40		160		20		60	40	
Chaetoceros sp.		20	20	140	120	180	520	120	160	140	1360	280
Corethron criophilum	20	20		20	20			20		40		40
Detonula cystifera		20							20			40
Ditylum brightwelli			20	20	20		200		40			
Fragilaria sp.		40	140				20		20			
Guinardia flaccida					200			120				
Gyrosigma fasciola				20					20	20		40
Leptocylindrus minimus				60		20	2020	620	7040	20	160	5360
Lycmophora lyngbyei	20	20						40	80	20		
Navicula sp.		20					20					
Nitzschia closterium	20	60	300	40	40	140	260	140	320	240	160	480
Pleurosigma angulatum			20					20				120
Pleurosigma strigosum		20										
Pseudonitzschia pseudodelicatissima		20	80	160		40	1320	220	3080	140		6640
Pseudonitzschia pungens			20		20		40	20	40		40	
Rhizosolenia delicatula		20	20	60			100	200	320		40	400

DATE: 13-08-90

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Rhizosolenia fragillima						40						40
Rhizosolenia gracillima			20		20	60		40	40		40	80
Skeletonema costatum	100	460	960	720	960	2260	5560	560	900	860	3600	440
Thalassiosira sp.				80			180		60			240
Acartia sp.	20		20									40
Brachionus sp.			20					20				
Distephanus speculum		40	40	20		100	20	20	60		40	160
Eutreptia sp.	280	20	20	120	180		140	160				440
Favella sp.	20	20	20		80	60					40	80
Helicostomella sp.	320	260	160	200	240	2180	40	80	600		640	1760
Mesodinium rubrum	5560	240	1480	1920	32640	4200	300	460	9020	60	3480	6440
Tintinnids	180	120	140	280	700	420	160	40	120	20	400	200
Tintinnopsis campanula						20			40			40

DATE: 20-08-90	STATION NUMBER											
ORGANISM	1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense		40	80	40	80					40		
Ceratium fusus			40							80	40	
Ceratium longipes		40	40	40	40		40	80	80	80		
Ceratium minutum	280	960	680	1160	1240	1240	280	440	560	3120	1240	560
Dinophysis acuminata	60	360	360	840	320	160	120	160	40	320	320	340
Dinophysis norvegica	180	400	560	400	200	400	120	200	560	200	160	200
Gonyaulax spinifera	460	840	800	1760	2760	1200	40	160	200	1640	200	60
Gonyaulax triacantha			40	40								
Gyrodinium aureolum	100		40	280	280			40		120		60
Gyrodinium sp.	40	40		80	320	160			80	160	40	40
Peridinium sp.	420	520	200	1080	2120	1840	40	80	280	1000	1240	280
Peridinium triqueta	20	160	160	320	520	120		40		720	120	
Prorocentrum compressum					40							
Prorocentrum micans				40								
Scrippsiella trochoidea	400	640	480	1960	3520	960	120	200	40	2240	640	
Cerataulina pelagica		40	80	40				40				40
Chaetoceros affinis				40								
Chaetoceros constrictus	20	160	120		120			120		200		260
Chaetoceros debilis	40	40		40					40	40		
Chaetoceros decipiens		40			40		40					40
Chaetoceros didymus				40								
Chaetoceros laciniosus		40		40	40		80		40	40		140
Chaetoceros lorenzianus			40							40		20
Chaetoceros simplex	20			80	40		280	960	320			
Chaetoceros socialis	120	600	360	120	1160	280	80	240		1080	40	3260
Chaetoceros sp.	80		40	40	520	560	1480	80	600	120	1560	360
Corethron criophilum	40	40		40								
Coscinodiscus sp.	20				120			40				60
Ditylum brightwelli		80		80	80	200	320	80	40	120		20
Eucampia zoodiacus					80							
Fragilaria oceanica						40						
Guinardia flaccida	40	40					160	240	1320			600
Leptocylindrus danicus		40										20
Leptocylindrus minimus		120		240	120	40	480	400	720	40		940
Lycmophora lyngbyei	20	40		120		40						
Nitzschia closterium	40	80	80	160	80	40	240	200	80	40	40	260
Pleurosigma angulatum		40					40	40			40	
Pleurosigma strigosum	20			40				120				120
Pseudonitzschia pseudodelicatissima	160	200	200	80	400	80	560	440	560	320	40	1200
Pseudonitzschia pungens	20			40			160	40	360			80

DATE: 20-08-90	STATION NUMBER											
ORGANISM	1	3	5	7	8	9	11	13	14	15	16	17
Pseudonitzschia seriata				120				40				560
Rhizosolenia delicatula	6060	20800	17520	13080	16400	2160	3680	4480	1600	35900	21960	3420
Rhizosolenia fragillima				40								40
Rhizosolenia setigera						80						20
Skeletonema costatum	4360	9920	9560	4920	11640	6160	93720	4760	10600	29380	2800	940
Stephanopyxis turris		40				40						
Acartia sp.				160		80		40	40	40		100
Distephanus speculum	60	120	80	40			80	40	360	160	200	200
Eutreptia sp.	620	320	240	160	320			40	40	480		220
Favella sp.			40									20
Helicostomella sp.	120	120	80	200	160	80	160	80			40	340
Mesodinium rubrum	3980	160	2120	6320	2440	760	400	240	320	4320	960	2080
Tintinnids	320	200	600	520	120	400	240	160	480	200	240	140

DATE: 27-08-90	STATION NUMBER											
ORGANISM	1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense			40		40						80	
Ceratium fusus	40					40						
Ceratium longipes	80	40	80		80	120		40	80	120		
Ceratium minutum	1520	1200	1440	1800	2040	7920	1360	1520	1920	9040	80	400
Dinophysis acuminata	80	160	320	400	40	1040	480	400	280	200		120
Dinophysis norvegica	40	200	280	320	200	920	80	320	720			40
Dinophysis rotundata		40										
Dinophysis sp.			80									
Gonyaulax spinifera		120		120	240	160		160		440	2920	40
Gonyaulax triacantha						40						
Gyrodinium aureolum		240	40	40	720	400	80	40	160	920		
Gyrodinium sp.	240	280	200	240	760	1600	80	80	360	520	600	40
Peridinium conicum					80							
Peridinium limbatum						40						
Peridinium sp.	1320	1760	120	3120	2640	2520	240	320	720	920	3800	1600
Peridinium triqueta	520	1640	80	160	8120	2560	160	320	160	4720	40	
Prorocentrum micans					80	40				80	160	
Scrippsiella trochoidea	1120	2920	760	800	3200	2920	880	720	480	4240	6800	160
Cerataulina pelagica			40	480			720		160			120
Chaetoceros debilis	40			40	40		80					
Chaetoceros simplex				120			240	360	560			80
Chaetoceros socialis			80	80	40			120				
Chaetoceros sp.	120	80	40	600	80		3600	560	520			40
Coscinodiscus sp.			40									
Ditylum brightwelli	80	80	40	240			560	40	120	40		40
Fragilaria oceanica	120							200				
Guinardia flaccida	240		320	800		160	800	1800	1880			1640
Leptocylindrus minimus	280	400	520	1760	80	160	2160	1800	8440	160	200	7080
Lycmophora lyngbyei	40		360	40		80		40	440			80
Melosira sp.				40								
Navicula sp.	40				40							
Nitzschia closterium	280	40	240	120	40		800	280	360		40	120
Pleurosigma angulatum				40			80	80	40			
Pleurosigma sp.	120			240			80	160	120			
Pleurosigma strigosum		80	160		280	480				360	200	
Pseudonitzschia pseudodelicatissima	320	160	200	840	160	120	5120	560	1840	160	120	1480
Pseudonitzschia pungens	40	120	120	480	200	800	640	880	680	80		80
Pseudonitzschia seriata				120	40		160		480		80	360
Rhizosolenia delicatula	40120	91400	140360	182780	55480	34080	52220	35840	20920	80080	13040	21840
Rhizosolenia fragillima		40			80							40

DATE: 27-08-90

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Rhizosolenia gracillima	40											
Rhizosolenia setigera	40		40		80	40				40		
Rhizosolenia sp.					120			80	360			40
Skeletonema costatum	40		120	240			319880	2800	10240			120
Thalassiosira condensata	40			160			720	40	240			
Thalassiosira decipiens				40			160	80	40			
Thalassiothrix nitzschiodes	40			40				80				
Acartia sp.	40								40			40
Distephanus speculum	120	400	40	520	280	400	960	1440	2840	80		840
Euglena sp.		40										
Eutreptia sp.	11720	2480	80	2240	2560	2200	400	480	120	40	800	2240
Favella sp.		40			40							
Helicostomella sp.	160	40	120	200	40	1600	80	40	760	40	40	160
Mesodinium rubrum	1320	6280		280	1880	160	1600	560	400	1560	280	
Tintinnids	2040	760	440	2600	1280	2000	2240	1080	1920	280	40	920

DATE: 04-09-90

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Ceratium fusus		40	80			40						
Ceratium longipes		160	120	80					40		240	60
Ceratium minutum	4480	8840	6320	6840	9040	5680	880	1960	2040	29380	8080	440
Dinophysis acuminata	200	240	120	760	160	280	160	120	80	240	880	80
Dinophysis norvegica	240	440	200	400	480	160	120	80	160	80	320	40
Dinophysis rotundata	40										80	
Gonyaulax spinifera	120	80	120			40						
Gonyaulax triacantha		40										
Gyrodinium aureolum	40	40		120	400							
Gyrodinium sp.	240	480	560	520	560	1080	160	120	80	560	1200	20
Peridinium conicum			80			40				80		
Peridinium sp.	200	400	400	480	480	1040	240	120	180	640	720	40
Peridinium triqueta	160	160		240	160	160			20	160	400	20
Prorocentrum micans		40		40	80	40						
Scrippsiella trochoidea	480	600	440	1000	1600	800	40	200	20	480	1760	
Cerataulina pelagica		40		40		40	40	40	40		80	40
Chaetoceros affinis	80	40	480	120				40			80	
Chaetoceros compressus	80	600	440	280	960			160			400	
Chaetoceros constrictus	40	360	320	320	320						480	
Chaetoceros debilis	600	1840	1240	2720	2400	400		160		2160	3760	
Chaetoceros decipiens	400	120	160	200	240	80		200		320	560	
Chaetoceros didymus		120	40	80				40			240	
Chaetoceros laciniosus	200	240	320	240	400	240				560	400	
Chaetoceros lorenzianus	80		40	40	80			80			320	
Chaetoceros mitra		40										
Chaetoceros simplex				40			40		100	80		180
Chaetoceros socialis	2320	2320	3080	1120	1840	1280	240	760		186040	7280	
Chaetoceros sp.	600	1760	1360	1280	1760	1760	80	560	120	5360	5840	
Chaetoceros subtilis		120	160	80	80					80	160	
Corethron criophilum	960	3320	2400	1680	2880	400	80	600	40	2240	2400	
Coscinodiscus sp.	40		80									
Coscinosira polychorda	240	600	400	520	960	80	120			880	80	
Detonula cystifera		120				200	40			560		
Ditylum brightwelli	720	2040	2760	1760	2000	1240	280	320	120	2800	2080	60
Eucampia zoodiacus	400	1120	560	480	720	80		240		640	240	100
Guinardia flaccida	40		360	960		80	18760	4560	14100		320	11240
Gyrosigma fasciola		40	40									
Leptocylindrus minimus	480	40		40		200	560	920	140			60
Lycmophora lyngbyei		40	40		80				20			

DATE: 04-09-90

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Nitzschia closterium	160	400	240		80	40	80	80		240	960	
Nitzschia sp.	320	920	400	360	1600	160		320	20		1520	
Pleurosigma angulatum				120			80					
Pleurosigma strigosum	40		40	40	160			40	360		160	320
Pseudonitzschia pseudodelicatissima	21920	63640	39160	40800	150140	52820	1760	5720	360	120760	130560	120
Pseudonitzschia pungens	480	680	720	1160	400	1000	1480	920	2200	960	400	620
Pseudonitzschia seriata				160	80			80	20		240	20
Rhizosolenia delicatula	80	560	120	440	320	240	3760	2240	4120	160	560	4980
Rhizosolenia gracillima	40	120	160	40	320						320	
Rhizosolenia shrubsolei	40								60			80
Rhizosolenia sp.	880	3400	2760	2200	4880	1720	240	480	320	29380	240	520
Skeletonema costatum	1000	2800	2120	1320	3040	1080	13640	880	2180	1520	13040	20
Thalassiosira condensata						880	80					
Thalassiosira decipiens		440	200	280	800	80	80			6800	400	
Thalassiosira gravida	640	4680	3400	2920	3680			720			7200	
Thalassiosira sp.	40	1120	280	40	1120	320	120	40	20	320	400	
Thalassiothrix longissima	40	40	120	40							80	
Thalassiothrix nitzschiodes			40	80	320	440		80		400	880	
Acartia sp.			40					40	20			
Distephanus speculum		40		120		80	520	360	1220	160	80	2260
Eutreptia sp.	280	40	40	480	240	160					320	80
Favella sp.	80		40	120		40						
Helicostomella sp.	80		40	40			40	40	40	80	160	20
Mesodinium rubrum	880	120	40	400	240	160	320		420	80	400	1540
Tintinnids	840	360	400	680	400	520	640	680	360	480	400	80
Tintinnopsis campanula			40									

DATE: 07-09-90

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Ceratium longipes			80			80						
Ceratium minutum		4960	4640			9840						
Dinophysis acuminata		80	80			320						
Dinophysis norvegica			80									
Gyrodinium sp.		240	80			560						
Peridinium sp.		160	320			480						
Prorocentrum micans			80									
Scrippsiella trochoidea		160				480						
Cerataulina pelagica		160	80			80						
Chaetoceros compressus			400			880						
Chaetoceros constrictus			160			160						
Chaetoceros debilis		960	1600			2720						
Chaetoceros decipiens			80			400						
Chaetoceros didymus			160			160						
Chaetoceros laciniosus			480			400						
Chaetoceros lorenzianus			80			320						
Chaetoceros mitra						80						
Chaetoceros socialis		640	1680			2000						
Chaetoceros sp.		1120	2320			2720						
Chaetoceros subtilis			160									
Corethron criophilum		2240	4880			4480						
Coscinosira polychorda			240			560						
Detonula cystifera			160			480						
Ditylum brightwelli		1680	3680			3920						
Eucampia zoodiacus			400			1360						
Guinardia flaccida		160	720			1360						
Leptocylindrus danicus			160									
Leptocylindrus minimus		80	960			880						
Nitzschia closterium		160	960			720						
Nitzschia sp.		880	560			1120						
Pseudonitzschia pseudodelicatissima		56240	42560			124040						
Pseudonitzschia pungens		720	400			800						
Pseudonitzschia seriata						80						
Rhizosolenia delicatula		240	240			640						
Rhizosolenia gracillima			80			80						
Rhizosolenia sp.		1040	11360			6480						
Skeletonema costatum		5920	7200			9600						
Thalassiosira condensata		240										
Thalassiosira decipiens		1600				240						
Thalassiosira gravida			400			2240						

DATE: 07-09-90

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Thalassiosira sp.		80	80			1120						
Thalassiothrix nitzschiodes		1120	560			560						
Acartia sp.		80										
Distephanus speculum		80				240						
Eutreptia sp.		320	160			240						
Helicostomella sp.		80	80			80						
Mesodinium rubrum		160	320			80						
Tintinnids		160	240			720						
Tintinnopsis campanula			80									

DATE: 17-09-90	STATION NUMBER											
ORGANISM	1	3	5	7	8	9	11	13	14	15	16	17
Ceratium longipes			100		80	160		80	20			
Ceratium minutum	3480	3200	6600	1280	2960	4720	640	1360	640	5040	5040	320
Dinophysis acuminata		80		80		160		40	60	480	480	40
Dinophysis norvegica			100			80	20	40				
Gyrodinium sp.	120	160	200	160	160	560	20	40	80	640		20
Peridinium conicum		80							20			
Peridinium sp.	360	1200	900	40	560	960	40	40	100	560	560	40
Peridinium triqueta					80					240		
Prorocentrum micans		80							40		240	20
Actinoptychus undulatus			100							80	240	
Cerataulina pelagica		80	100			240	40					
Chaetoceros compressus					160		20				160	
Chaetoceros constrictus					1040	80	80				560	
Chaetoceros debilis	720	1120	3200	760	3200	2800	120	280	20	1680	2400	20
Chaetoceros decipiens			200		80					160	160	
Chaetoceros didymus					400	480					240	
Chaetoceros laciniosus	240	240	100	440	640	640		120		1920	160	
Chaetoceros lorenzianus	200				480	640	60				480	
Chaetoceros socialis	480	400			480	1520	20	40		8520	2320	
Chaetoceros sp.	1440	2160	17800	1080	3040	2480	240	1000	60	4720	3440	
Chaetoceros subtilis			300		160		20				400	
Chaetoceros teres		80										
Corethron criophilum	3080	3760	3900	1520	4880	6400	540	1200	280	4160	3840	100
Coscinodiscus sp.	40						40					
Coscinosira polychorda	80	80	100				40	40		80	320	
Ditylum brightwelli	3120	7200	6500	3000	10560	8320	1240	2040	200	6320	5920	40
Eucampia sp.			900									
Eucampia zoodiacus	400	560		280	640	1680	220	400	40	880	400	40
Guinardia flaccida	240	960	400	240	880	960	140	360	180	320	1040	140
Leptocylindrus minimus	120	320	400	240	80		20	40	20	80	480	
Lycmophora lyngbyei			100	40					20			
Nitzschia closterium	120	160	1100	40	160		160	80			160	20
Nitzschia sp.	160	80	100		160	320	160				320	
Pleurosigma angulatum	40					80		40				20
Pleurosigma strigosum	120				80	160	40		20			
Pseudonitzschia pseudodelicatissima	120	400	600		560	320	160	200	80		240	20
Pseudonitzschia pungens	880	2640	3600	600	1120	2000	440	800	160	960	2320	20
Pseudonitzschia seriata		240	200	80						80		
Rhizosolenia delicatula	80	240	300	120	160	640	80	40		160	160	
Rhizosolenia hebetata		160						40				

DATE: 17-09-90	STATION NUMBER											
ORGANISM	1	3	5	7	8	9	11	13	14	15	16	17
Rhizosolenia setigera			100					40				
Rhizosolenia shrubsolei					80							
Rhizosolenia sp.	9400	12720	34300	7360	5200	10240	900	5440	660	55380	12720	80
Skeletonema costatum	920	2320	4200	200	880	2240	1820	760	520	80	8480	40
Thalassiosira condensata		480	100	40			260				160	
Thalassiosira decipiens	40	720	3500	80	80	480		80	80	1120	720	
Thalassiosira gravida	640				1920	1920	380				3680	
Thalassiosira sp.	40	4720	5300	1160		800	160	1240	520	1760	640	
Thalassiothrix nitzschiodes	40	160	200	280	160	480	80	360	160	320	160	
Acartia sp.		80							20			20
Distephanus speculum				40		80	40	120	180	80	80	320
Eutreptia sp.	160	160	100	160		80			20		320	120
Mesodinium rubrum	1240	720	200	40	320	400	80	160	80	1360	320	620
Tintinnids	960	1040	1500	160	480	640	240	360	420	240	320	1960
Tintinnopsis campanula	40											

DATE: 25-09-90	STATION NUMBER											
ORGANISM	1	3	5	7	8	9	11	13	14	15	16	17
Ceratium fusus		40										
Ceratium longipes		40				80						
Ceratium minutum	1920	1880	1240	520	2320	2000	400	800	340		16320	100
Dinophysis acuminata	80	80	120	40	80	240			40		160	60
Dinophysis norvegica	40	40	40	40	40	80	40	80	20			
Gonyaulax spinifera				100	40						80	
Gyrodinium aureolum	80										240	
Gyrodinium sp.		120		20	160	400		80	60		400	80
Peridinium sp.	120	240	400	140	40		20	80	60		1280	20
Prorocentrum micans			40	40							80	
Scrippsiella trochoidea				20								
Actinoptychus undulatus			40	40	40	80	40	40	60			20
Biddulphia obtusa		40										
Chaetoceros constrictus			40					80			1600	
Chaetoceros debilis	40	40	120	20	480	720	20	120			4400	
Chaetoceros decipiens						80						
Chaetoceros didymus			40				20	40			640	
Chaetoceros laciniosus	40	200	160	40	400	320					1840	20
Chaetoceros lorenzianus	120	160	400	40	320	240	60	120			2560	
Chaetoceros socialis	160	40			160	160					9200	
Chaetoceros sp.	200	80	600	200	2800	7040	100	40	20		8800	20
Chaetoceros teres					120							
Corethron criophilum	360	200	360	240	640	960	240	200	200		1040	120
Coscinodiscus sp.	40				40							
Detonula cystifera					80	240						
Ditylum brightwelli	600	720	1520	580	5120	2880	580	440	300		23120	120
Eucampia zoodiacus		120	40	20	560	80					2480	
Guinardia flaccida			80		40	560					320	
Leptocylindrus minimus	40		280		40	240	20		40			
Lycmophora lyngbyei				20	80	160			40			
Melosira sp.				20		80						
Navicula sp.						80					80	
Nitzschia closterium	40	40		60	280	640	20		20		80	20
Pleurosigma angulatum						80						
Pleurosigma sp.					40	80						
Pleurosigma strigosum	40	40					20	80	20		160	
Pseudonitzschia pseudodelicatissima	120		240	20	360	240	40	80			160	20
Pseudonitzschia pungens	680	240	760	240	2120	1360	20	280	60		4080	20
Pseudonitzschia seriata					80	80						

DATE: 25-09-90

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Rhizosolenia delicatula		80	200	100	200	560	20	80	40		720	
Rhizosolenia sp.	600	760	680	680	4240	8080	80	720	20		22240	80
Skeletonema costatum	360	360	560	140	1320	2240	440	480	340		12720	20
Thalassiosira decipiens				240	1640						320	
Thalassiosira gravida	480	200	360				520	520	160		5360	
Thalassiosira nordenskioeldii				40								
Thalassiosira sp.	240	200	320	560	1760	4880		480			2480	40
Thalassiothrix nitzschiodes	40	40	120	140	480	240	40	40	20		320	20
Acartia sp.	40		40	60	80	80						40
Distephanus speculum	40		80	200	200	160	100	120	520		160	400
Eutreptia sp.	120		80	2000		80	80		20		240	200
Mesodinium rubrum	360	240	2560	940	720	400	380	480	1280		1280	1420
Tintinnids	1240	400	280	860	640	1200		40	400		1840	520
Tintinnopsis campanula	40						20					

DATE: 01-10-90	STATION NUMBER											
ORGANISM	1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense			40						20	40		
Ceratium longipes			40			120				80	80	
Ceratium minutum	380	1600	3480	880	2680	3520	420	300	340	4000	3440	580
Dinophysis acuminata	20		160		80	680	20		60	640	680	
Dinophysis norvegica		80	240			80	20	20		280	280	
Gonyaulax spinifera			80			80				40	40	
Gyrodinium sp.	80		440	40	80		20		40	600	320	20
Peridinium conicum			40									
Peridinium depressum					40							
Peridinium sp.	80	120	440	80	40	360		20		1240	240	220
Prorocentrum micans		80				120		60	20	160	80	
Scrippsiella trochoidea		80	120							120		
Actinoptychus undulatus			40	160			20		20		160	20
Biddulphia obtusa		40				80					40	
Cerataulina pelagica	20											
Chaetoceros affinis					200					120	80	
Chaetoceros compressus						40		20			80	
Chaetoceros constrictus		80		280	80	360		200	20	160	400	
Chaetoceros debilis	40	560	720	1320	640	880	40	120	40	920	1440	
Chaetoceros decipiens					40						80	
Chaetoceros didymus		200		360	320	320	40	20	20	80	280	
Chaetoceros laciniosus	20	240		480	680	240	60	160		160	520	
Chaetoceros lorenzianus		480	640	480	720	560	80	120		440	1400	20
Chaetoceros socialis	40		160	80	640		40			320	160	
Chaetoceros sp.	340	840	2680	2480	3080	1400	200	440	120	1920	2280	20
Corethron criophilum	40	80	40	80	40		40	60	80	80		60
Coscinodiscus sp.		40		40	40				20			
Coscinosira polychorda				160	40					120	240	
Detonula cystifera			120									
Ditylum brightwelli	460	1320	2520	1960	2560	1160	460	880	400	2480	5840	80
Eucampia zoodiacus		160	480	960	440	160	40	100	60	160	720	
Guinardia flaccida	40		240	40								
Gyrosigma fasciola					40		20					
Gyrosigma littorale					40							
Gyrosigma sp.			40									
Leptocylindrus danicus		40				80					320	
Leptocylindrus minimus						40					80	20
Lycmophora lyngbyei	20	160		40	120	40	20		20			
Nitzschia closterium	20	200	40	240	200		100	40	40	120	440	
Nitzschia sp.			40								120	

DATE: 01-10-90	STATION NUMBER											
ORGANISM	1	3	5	7	8	9	11	13	14	15	16	17
Pseudonitzschia pseudodelicatissima	100	240	840	120	200	280	20	60	60	120	120	
Pseudonitzschia pungens	160	760	520	1080	680	240	160	420	80	400	3240	
Rhizosolenia delicatula	20	160	280	480	240	80	60	20	20	80	480	
Rhizosolenia fragillima				80							160	
Rhizosolenia gracillima				40								
Rhizosolenia sp.	260	800	800	880	2240		100	200	40	1080	1640	
Skeletonema costatum	380	1160	2800	1560	2840	2960	360	600	180	3840	7040	20
Stephanopyxis turris		40				40						
Thalassiosira condensata			120									
Thalassiosira decipiens	240	120	1720	160	40		20		20	560	1200	
Thalassiosira gravida		200		520	440	1520	220	80	220	2680	3600	
Thalassiosira sp.	80	240	600	240	360	240	60	40	40	600	1800	
Thalassiothrix nitzschiodes	40	40	40	40	80		40	40	40	40	80	
Acartia sp.	80									120	40	
Distephanus speculum	20	80	40	80			20	80	80	40	200	40
Eutreptia sp.	60	120	80	440	40			20	60	200	80	160
Favella sp.						40						
Mesodinium rubrum	100	1160	1960	40	160	200	300	400	180	480	5960	500
Tintinnids	1020	880	8840	200	800	560	120	440	220	3160	2320	60
Tintinnopsis campanula				40	40				20	160		

DATE: 09-10-90	STATION NUMBER											
ORGANISM	1	3	5	7	8	9	11	13	14	15	16	17
Ceratium minutum	200	500	580	260	900	300	220	360	160	740	580	220
Dinophysis acuminata	40	20	20	20	60	20	20	60		40	20	20
Dinophysis norvegica	40		40		40	20	20	40	20	20	20	60
Dinophysis sp.					40							
Gyrodinium aureolum				20								
Gyrodinium sp.	40	40	20	60	100	40	20		20		80	20
Peridinium sp.	40	40	60	40	180	20	20		40	40	80	160
Prorocentrum micans			40		40			20	20		40	
Actinoptychus undulatus	40	100	140	160	100				120	60	140	
Cerataulina pelagica		20			20							
Chaetoceros constrictus		20								20	20	20
Chaetoceros debilis		80	280	40		40	40		40	160	680	
Chaetoceros decipiens		60	20			20		20		20		
Chaetoceros didymus			20			60				20		
Chaetoceros laciniosus		20	60		40	40				40	60	
Chaetoceros lorenzianus		40	60	20	100	20		40	20	100	180	20
Chaetoceros socialis			20		40			20				
Chaetoceros sp.	180	180	140	40	160	100	160	100	100	220	720	120
Corethron criophilum	20	20	120	20	20	40	40	20	20		40	60
Coscinodiscus sp.						60				20	40	20
Ditylum brightwelli	220	260	280	180	240	220	240	420	320	280	400	120
Eucampia zoodiacus	20	20	40					20	20	160	100	
Fragilaria sp.				40								
Gyrosigma littorale		20				20		20				
Gyrosigma sp.				20			20		60			
Leptocylindrus danicus			20					40		40	60	
Leptocylindrus minimus		20		60			20		20		20	
Melosira sp.	20			40	40		20		20			
Navicula sp.					20	20			20			
Nitzschia closterium	220	320	280	340	480	180	200	220	340	280	660	40
Pseudonitzschia pseudodelicatissima	100	60	180	20	60	100	80	20	80		140	
Pseudonitzschia pungens	80	160	80	60		180	140	100	40		140	
Rhizosolenia delicatula				100		20			20	40	40	
Rhizosolenia fragillima		20				40				20		
Rhizosolenia sp.	40			100	60	40	20	160	40			
Skeletonema costatum	360	220	260	320	340	260	420	560	260	200	600	
Stephanopyxis turris					20							
Thalassiosira baltica		40							20	20	80	
Thalassiosira decipiens	100	60		360	160		60	160	340	120	780	
Thalassiosira gravida						60		140				
Thalassiosira sp.	80		40	60	880	140	100					
Thalassiothrix nitzschiodes	20	40	40	60	20	60	80	80	40	20		20
Acartia sp.	60		80	40	120	20				40	20	
Distephanus speculum	20	20		20	80					60	20	40
Eutreptia sp.			20	60	120	20	160		180	60	40	120
Mesodinium rubrum	440	80	40	100	1060	420	300	200		300	7860	2640
Tintinnids	600	160	360	320	1740	300	700	180	100	160	1320	2260

DATE: 17-10-90	STATION NUMBER											
ORGANISM	1	3	5	7	8	9	11	13	14	15	16	17
Ceratium minutum	180	120	120	420	80	180	40	100	180	220	260	
Dinophysis acuminata				20	20		40			40		
Dinophysis norvegica	20			20					20	20	40	
Gyrodinium sp.		20	20		20	40	40			40	20	20
Peridinium conicum			20									
Peridinium sp.				80	20	20		60	60		40	80
Prorocentrum micans				40						40		20
Scrippsiella trochoidea				40			20					
Actinoptychus undulatus	60	140	80	80	40	80	80	20	20	40	60	20
Biddulphia aurita					20							
Biddulphia obtusa					20							
Chaetoceros debilis						20					20	
Chaetoceros decipiens	20											
Chaetoceros lorenzianus	20		20									
Chaetoceros simplex				20			20					
Chaetoceros sp.			20	20			40					
Corethron criophilum		20	20				20		20	20	20	
Coscinodiscus sp.	60	20				20	20		20	60	20	
Ditylum brightwelli	80	40	80	40	120	40	140	60	40	60	80	120
Fragilaria oceanica		20										
Gyrosigma fasciola		20	20				20					
Leptocylindrus danicus			20									
Lycmophora lyngbyei	20		40	40								
Melosira sp.	60	180		40	80	40	40	40			20	
Navicula sp.		20				20	40	20				
Nitzschia closterium	140	180	360	160	560	60	140	100	160	140	300	40
Pleurosigma angulatum					20				20			
Pleurosigma sp.		20		20	20	20						
Pseudonitzschia pseudodelicatissima	40	20	60		60		100	20	60	20	20	
Pseudonitzschia pungens		20	20	60			20	60	40			
Rhabdonema arcuatum		20										
Rhizosolenia delicatula					60		20	20	20	20		
Rhizosolenia sp.				100			40			20		
Skeletonema costatum	100	100	120	100	220	40	320	60	160	20	40	80
Thalassiosira decipiens	20		20	60	40	20	40	40	100		40	
Thalassiosira gravida				20								
Thalassiosira sp.			20	60			60					20
Thalassiothrix nitzschiodes				20	20		20	20		20		60
Acartia sp.	40	20			60	20						
Distephanus speculum			20	20	40	20	20	40	60	20	40	
Eutreptia sp.	80		100	100	60	20	40	20	40	20	20	60
Mesodinium rubrum	1060	20	140	480	40	120	40			220	420	120
Tintinnids	880	100	260	820	380	260	160	200	180	500	300	200
Dinobryon sp.				20								

DATE: 22-10-90

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Ceratium minutum	60		40	180	100	100		260	100	60	60	20
Dinophysis norvegica						20		40			20	20
Gonyaulax spinifera				80	20				20			20
Gyrodinium sp.	20				20					20		20
Peridinium depressum				20								
Peridinium sp.	40	20	20	180	80	180	40	20	20	20	80	120
Prorocentrum micans		20		40		40				20	20	60
Scrippsiella trochoidea	20			20	20	80						
Actinoptychus undulatus	40	80	20	80	20	80	40		80	60	40	60
Cerataulina pelagica				20								
Chaetoceros sp.	60				20	20						
Corethron criophilum	20	20	20		40	20		20		20		
Ditylum brightwelli	40	80	20	40	60	20		40	40	60	40	20
Leptocylindrus minimus						20			20			
Lycmophora lyngbyei			20			20						
Melosira sp.			60		60						20	
Navicula sp.	20										20	
Nitzschia closterium	20	60	80	40	20	80	60	60	160	80	100	40
Pleurosigma angulatum		20			20							
Pleurosigma sp.				20		20						
Pleurosigma strigosum		20						20	20			
Pseudonitzschia pseudodelicatissima		40	40			20	20	20		20	20	
Pseudonitzschia pungens	20	60	40	40	40	20	60	20	20		60	
Rhabdonema arcuatum					20							
Rhizosolenia delicatula		20		20								
Rhizosolenia sp.				20								
Skeletonema costatum	100	100	60	60	40	100	420	140	140	200	100	40
Thalassiosira baltica		20									20	
Thalassiosira decipiens					60	20		20				
Thalassiosira sp.			20	20	40	20						
Thalassiothrix nitzschiodes				40	20	20	60	40	20			20
Acartia sp.	20			20						20		20
Distephanus speculum				20	20	20	60	40	20	20	20	
Eutreptia sp.		40		20		20	40		40			40
Mesodinium rubrum	300	200	60	840	120	300	240	220	80	20	520	1380
Tintinnids	440	120	160	480	200	420	200	100	160	20	60	320

DATE: 05-11-90

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Ceratium minutum		60	20		20					20		
Gyrodinium sp.	20				20					20		
Peridinium sp.					20							
Prorocentrum micans					20					40		
Actinoptychus undulatus	100	40			100	80	120	20			60	20
Chaetoceros sp.					20							
Corethron criophilum	20				40	20			20	40	20	
Coscinodiscus sp.	20		40			40		20		20	60	
Ditylum brightwelli	20	20							40	60		
Grammatophora marina					20							
Gyrosigma fasciola			20		20							
Lycmophora lyngbyei					20				20			
Melosira sp.					20		80					20
Navicula sp.	40	40			40	20	20			20	20	
Nitzschia closterium	40	40	100		240	40	80	40	100	20	280	80
Paralia sulcata						20						
Pseudonitzschia pseudodelicatissima	20	20					20	20	20		20	
Pseudonitzschia pungens	20					20						
Rhizosolenia sp.					20							
Skeletonema costatum		60	40		20		40	20	80	20	20	20
Thalassiosira baltica						20						
Distephanus speculum	20		20			20	20	20		20	20	
Mesodinium rubrum	340	180				100	40	100	20	340	320	
Tintinnids	160	60	40		260	80	200	80	40	40	40	140

DATE: 27-11-90

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Ceratium minutum			20	20		40		40	40	40	40	
Ceratium sp.						20						
Dinophysis acuminata			20		20							
Dinophysis norvegica	20	20						20	20			
Gyrodinium sp.		20			20	40			20			
Peridinium sp.						20			20			
Prorocentrum micans						20			20			
Actinoptychus undulatus				40	40	40		80				
Corethron criophilum			20		60	40	40	20	100			20
Coscinodiscus sp.	20		20	40		40	20	20	20		20	20
Detonula cystifera				20								
Ditylum brightwelli	20			40	20	40			40	20	20	40
Fragilaria sp.		20										
Gyrosigma baltica				20								
Gyrosigma fasciola		20				20						
Gyrosigma littorale				20								
Leptocylindrus minimus	20											
Nitzschia closterium		60	120	160	200	220	40	140	260	60	80	80
Pleurosigma strigosum				20	20			20			20	
Pseudonitzschia pseudodelicatissima	100				20			20	20		20	
Pseudonitzschia pungens					20							
Rhizosolenia delicatula			20	120	20	60	100	40		60	40	20
Skeletonema costatum	20	20	40	60	20	20	120	60	20		40	40
Thalassiosira decipiens						20		20				
Thalassiosira nordenskioeldii				20								
Thalassiothrix nitzschiodes			20	40				20				
Distephanus speculum	40	20	20	60	40		40		100	20	60	40
Mesodinium rubrum	180		1800	100	560	140	280	180	360	840	580	360
Notholca sp.				20								
Tintinnids	60		60	60			20	20	100	20	20	120

DATE: 02-01-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Ceratium minutum				20								
Gymnodinium sp.			40				20					
Peridinium limbatum						20						
Peridinium sp.								20				
Unarmoured dinoflagellate	20											
Actinoptychus undulatus				100			40			80		
Asterionella kariana			20									
Asterionella sp.									20			80
Biddulphia regia				20								
Chaetoceros debilis		20										
Chaetoceros lorenzianus										20		
Chaetoceros sp.							20					
Corethron criophilum				20	40					40		
Coscinodiscus sp.					20							
Ditylum brightwelli		20				20	20		20			
Gyrosigma fasciola					20							
Leptocylindrus danicus			20									
Leptocylindrus minimus				20								
Lycmophora lyngbyei		20										
Navicula sp.		20	40	40	20	100	60	20		60		40
Nitzschia closterium	100	80	80	280	280	160	100	120	200	100		120
Pleurosigma angulatum			20			20						20
Pleurosigma strigosum				20								
Pseudonitzschia pseudodelicatissima		20			20				20			20
Rhizosolenia delicatula	40	80	20		40		20	20	20			
Skeletonema costatum			40	20	20		20	80	20	20		20
Thalassiosira baltica					20					40		
Thalassiosira gravida					20		20					
Thalassiosira nordenskioeldii										20		
Acartia sp.												20
Distephanus speculum						20	20	20				
Euglena sp.							20					
Mesodinium rubrum		40		20		20			20			20
Tintinnids				60								100

DATE: 14-01-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Peridinium sp.	20											
Prorocentrum micans		20							20			
Actinoptychus undulatus						60						
Chaetoceros debilis											20	
Chaetoceros sp.		20	20									
Corethron criophilum			20		40		20	40				
Coscinosira polychorda							20					
Ditylum brightwelli									20			
Leptocylindrus danicus						40				20		
Melosira ambigua												20
Melosira monoliformis								20				20
Melosira sp.							20					
Navicula sp.	20				20	100	20	40				
Nitzschia closterium	120	80	60	40	40	60	40	80	100	120	80	120
Pleurosigma angulatum			40	20						20		
Pleurosigma formosum				20								
Pseudonitzschia pseudodelicatissima		20		20	20	20		20		20	20	40
Pseudonitzschia pungens										20		
Rhizosolenia delicatula	20	40				20					20	
Skeletonema costatum	20	20	20				60	20		20		40
Thalassiosira baltica							20					
Thalassiosira decipiens					20					40		
Thalassiosira gravida							20					
Thalassiosira sp.												20
Thalassiothrix nitzschiodes					20							
Distephanus speculum						20						
Euglena sp.	20											
Mesodinium rubrum	40		60		40	120			60		100	820
Tintinnids	20				20			20	20		20	20

DATE: 04-02-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense										20		
Gymnodinium sp.				20								
Peridinium sp.				20								
Unarmoured dinoflagellate								60				
Actinoptychus undulatus										80		
Asterionella sp.												60
Biddulphia aurita									20			
Biddulphia sp.		20					40					
Chaetoceros laciniosus							20					
Chaetoceros lorenzianus	20											
Chaetoceros sp.			20			20	40			20		
Corethron criophilum		20	20				40		40	20		
Ditylum brightwelli			20			20			20			
Gyrosigma tennuissimum							40					
Leptocylindrus minimus							20			20		
Melosira sp.		20										
Navicula sp.		20		20	20				20	60		40
Nitzschia closterium	20	140	20	60		20	120	80	60	60		100
Pleurosigma angulatum			20						20			
Pleurosigma formosum						20						
Pleurosigma strigosum		20										
Pseudonitzschia pseudodelicatissima	20		20	40		80	20	20		60		
Rhizosolenia delicatula		20		20	20							
Skeletonema costatum		20		40			40	80	20	40		60
Thalassiosira condensata										20		
Thalassiosira sp.												20
Thalassiothrix nitzschiodes							20					
Distephanus speculum						20						20
Eutreptia sp.				20								
Mesodinium rubrum	80	40		60	80	160	60	140	80	40		120
Tintinnids		20						40				

DATE: 05-03-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Ceratium sp.										20		
Gonyaulax triacantha		20										
Peridinium excentricum												20
Peridinium sp.							20			20		
Peridinium triqueta									20			
Scrippsiella trochoidea										20		
Biddulphia aurita							40					
Biddulphia obtusa												40
Biddulphia sp.	80		20		20	20	120	60				
Chaetoceros debilis						20	20	40				
Chaetoceros decipiens				20								
Chaetoceros sp.	80	20	20	20				20				
Corethron criophilum				20		20						
Ditylum brightwelli						20						
Fragilaria sp.					20							
Gyrosigma fasciola							60					
Lycmophora lyngbyei								20				
Melosira ambigua							20					
Melosira monoliformis		40			20							
Navicula sp.	40	40				60		40	60	40		40
Nitzschia closterium	40	200		20	40	100	80	100	220	320		180
Pleurosigma angulatum				20						20		
Pleurosigma strigosum										20		
Pseudonitzschia pseudodelicatissima		100	40			60				20		
Skeletonema costatum		40	20	20		60		80				
Thalassiosira decipiens			20									
Thalassiosira nordenskioeldii		20										
Thalassiosira sp.						20	20	20				
Dinobryon												20
Distephanus speculum			20				20	20				20
Eutreptia sp.					40			40				
Mesodinium rubrum	300	120	160	120	60	260	300	140	300	160		220
Tintinnids	20	40	40		60		20	20	20	40		

DATE: 09-04-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense	20		40	40	100	40		20	40			
Gonyaulax triacantha	20											
Peridinium sp.	100	20		140	40	20	100	20	40	20		
Peridinium triqueta	20				40							
Scrippsiella trochoidea				40				40				
Unarmoured dinoflagellate					40							
Biddulphia obtusa		20										
Biddulphia sp.		20										
Chaetoceros compressus									20			
Chaetoceros convolutus		20										
Chaetoceros debilis	100		120	380	20	20	240	120	440	120		80
Chaetoceros decipiens	40											
Chaetoceros sp.	260	80	120	760	20	140	440	380	1540	40		320
Corethron criophilum	20											
Coscinodiscus sp.	20	80	20			20			40			
Coscinosira polychorda				20	20				20			
Ditylum brightwelli							20			20		
Fragilaria sp.		20			20							
Gyrosigma fasciola								20				
Leptocylindrus minimus						20			20			
Lycmophora lyngbyei		20				20						
Melosira monoliformis												20
Navicula sp.			20			20	20					
Nitzschia closterium		20			20			20	40	20		
Pseudonitzschia pseudodelicatissima		20	40	60		40			20	120		
Rhizosolenia hebetata						20						
Skeletonema costatum	40	100	80	140	220	60		200		200		
Thalassiosira decipiens				20					20			20
Thalassiosira gravida	40			40	20		20					20
Thalassiosira nordenskioeldii	260	40	60	1220	80		620	760	2980	100		420
Thalassiosira sp.		40	80	120			20	80	40	40		40
Dinobryon												220
Distephanus speculum								40		40		
Eutreptia sp.	80			40	40			20				
Mesodinium rubrum	1340	1540	440	600	1080	280	740	700	100	180		2400
Notholca sp.		20		20	20							
Tintinnids	400	260	160	680	600	100	60	160	60	240		60

DATE: 24-04-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense	80	140	40		20		40	20				200
Ceratium longipes										20		
Dinophysis norvegica			40									
Dinophysis sp.							20					
Peridinium sp.	360	40	80	120	60		60	40	40		20	
Peridinium triqueta					20					20		
Scrippsiella trochoidea							20				20	
Biddulphia sp.					20			20				
Chaetoceros compressus		20										
Chaetoceros constrictus	80											
Chaetoceros convolutus					20		40	20				
Chaetoceros debilis	160	160	560	600	160		1420	1380	1320	80	640	4800
Chaetoceros decipiens				80			20	40				
Chaetoceros diadema					20							
Chaetoceros socialis		20								20		
Chaetoceros sp.	440	500	1200	1400	1000		6020	4000	7520	580	2140	14900
Chaetoceros teres											20	
Coscinodiscus sp.	40	60		40	20						20	100
Coscinosira polychorda		20			20		40	20				
Ditylum brightwelli										20		
Leptocylindrus minimus			40									
Lycmophora lyngbyei					20					40		
Melosira ambigua												100
Melosira monoliformis					20		40					
Navicula sp.				40						40	40	
Nitzschia closterium		80	40		20			20		60	20	
Pleurosigma angulatum		20										
Pleurosigma strigosum										20		
Pseudonitzschia pseudodelicatissima		20		160			60	40	40	80		100
Pseudonitzschia pungens									40			
Rhizosolenia gracillima											20	
Rhizosolenia setigera		20	40		20			20		20	40	
Skeletonema costatum	40	20	280	40	140		120	20	40	220	200	100
Thalassiosira decipiens				40								
Thalassiosira gravida		20						100		60	180	
Thalassiosira nordenskioeldii	3000	1960	3400	8320	4180		11520	3780	20160	1680	7200	32700
Thalassiosira sp.	40	140	80	240	20		20	20	40	240	140	200
Thalassiothrix nitzschiodes								20				
Distephanus speculum	40		80		20			40			20	
Eutreptia sp.		20	40		20		20					
Mesodinium rubrum	1320	860	680	40	520		80	40	440	120		1500
Tintinnids	360	260	520	40	120		80	80	80	260		500

DATE: 14-05-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense		100		40		20	80	40			80	80
Ceratium longipes						20						
Dinophysis norvegica							40					
Peridinium limbatum							80		40			
Peridinium sp.	40		160	80	160	40	80	120	160			240
Peridinium triqueta					40							
Scrippsiella trochoidea								40				
Unarmoured dinoflagellate				80		20						
Biddulphia aurita					40				80			
Biddulphia obtusa												80
Biddulphia sp.						20						
Cerataulina pelagica		100										
Chaetoceros compressus									40			
Chaetoceros constrictus	40		80		40	80		40	40	300	160	
Chaetoceros convolutus											80	
Chaetoceros debilis	640	1800	1480	1800	3240	1640	2600	2640	3040	2900	2160	3360
Chaetoceros decipiens			80						160			
Chaetoceros diadema								40				
Chaetoceros didymus		100										
Chaetoceros furcellatus	40	300	440	1280	1200	960	3160	1800	4880	500	240	1840
Chaetoceros sp.	440	600	3720	3160	5320	6400	3320	6320	6360	3700	4400	8160
Chaetoceros teres							160		200			400
Coscinodiscus sp.			40				40					
Coscinosira polychorda		100	40			20	80			100		
Eucampia sp.				40								
Eucampia zoodiacus											80	
Fragilaria sp.					80							
Grammatophora marina									40			
Gyrosigma fasciola			40									
Gyrosigma tenuissimum									40			
Leptocylindrus danicus						20						
Lycmophora lyngbyei			40			40		40				80
Melosira monoliformis			160		40	20		40	40	100		
Navicula sp.			40						40	100		
Nitzschia closterium	40		80	40	80	20	40			100	80	80
Pleurosigma angulatum					40							
Pseudonitzschia pseudodelicatissima	120	700	200	120	120	40	120	320	240	200	160	320
Pseudonitzschia pungens								80				80
Rhabdonema sp.							40	80				
Rhizosolenia fragillima	40			40		100					80	160
Skeletonema costatum		100		40	40			40		500		

DATE: 14-05-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Tabellaria sp.					40		80		40			
Thalassiosira decipiens			40								160	
Thalassiosira gravida		100	160	120	80	120	120	120		200	80	80
Thalassiosira nordenskioeldii	6120	15200	8760	760	2360	3680	4440	1680	7840	33500	39280	33360
Thalassiosira sp.	120	3300	320	40	280	40	40	80	160	1900		640
Thalassiothrix nitzschiodes			40		120	20						
Distephanus speculum	40											
Eutreptia sp.	240		40	40	120	20	1320	80	240		80	
Mesodinium rubrum	400	200	320	80	480		240	120	80		160	240
Notholca sp.						20						
Tintinnids			80	120	80		160					160

DATE: 21-05-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense	40	100		80	100	100	20	40	60		100	
Ceratium longipes												100
Ceratium sp.						100						
Dinophysis norvegica								20				
Gonyaulax triacantha									20			
Peridinium denticulatum					200							
Peridinium sp.	240	200	160	140	500		60	120	120	100	300	300
Peridinium triqueta		100		40				20				
Prorocentrum micans							20					
Scrippsiella trochoidea	40	100		60						100		100
Unarmoured dinoflagellate	40			40	200			20				
Biddulphia obtusa		100										
Biddulphia sp.							40	20				
Chaetoceros compressus												100
Chaetoceros constrictus					500	100		80		100		
Chaetoceros debilis	1280	600	1360	1780	5300	1400	1020	1740	4000	900	1300	4700
Chaetoceros decipiens	40											
Chaetoceros furcellatus	120	200	40	900	2100	1000	1580	2040	5940		2200	11300
Chaetoceros laciniosus									20			
Chaetoceros sp.	440	400	880	820	3500	700	620	1060	5460	400	800	2300
Chaetoceros teres					200		40	80	100			100
Coscinodiscus sp.					100							
Coscinosira polychorda	40		80		400		20	20		200		
Eucampia sp.							20					
Eucampia zoodiacus					300							
Fragilaria sp.									20			
Grammatophora marina							40	20	40		100	
Gyrosigma baltica							40		20			
Gyrosigma littorale								20				
Leptocylindrus danicus			120	20					40			
Leptocylindrus minimus		200		20				20	20		300	
Lycmophora lyngbyei				20		100		20	20		100	
Melosira monoliformis			40			100	40					
Navicula sp.		200	40		100		20	40	40			
Nitzschia closterium	120	200	160	20	300			40	40		100	200
Pleurosigma angulatum									20			
Pleurosigma sp.				20								
Pleurosigma strigosum									20			
Pseudonitzschia pseudodelicatissima	200	100	160	160	1500	700	120	160	60	500	500	300
Rhabdonema sp.							20	40				

DATE: 21-05-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Rhizosolenia fragillima		100	80	40	800	100		60	20		100	100
Rhizosolenia setigera				20								
Skeletonema costatum	240	200	120	20	300	200	20		20			
Tabellaria sp.								20				
Thalassiosira decipiens							80	120	60		100	
Thalassiosira gravida		400		140		100	120	80	220			100
Thalassiosira nordenskioeldii	33640	35700	30600	10260	88600	31300	1660	5960	2420	33000	15300	4700
Thalassiosira sp.	40	700	80	880	200	2000	240	320	640	900	1100	900
Brachionus sp.			40									
Distephanus speculum				40								
Eutreptia sp.	320	400	480	100	900	400	40	20	60	500	200	100
Mesodinium rubrum	280	800	440	420	800	800	780		140	2000	1400	2100
Tintinnids	560	1200	80	300	600	300	660	20	340		300	300

DATE: 28-05-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense	280		200		240	240	80		240	400		
Alexandrium (duplet)	80											
Alexandrium (quadruplet)			40									
Dinophysis norvegica		100										
Gymnodinium sp.					80							
Peridinium denticulatum								200				
Peridinium limbatum				80								
Peridinium sp.	1120	600	200	440	800	560	80	400	200	1120	100	
Peridinium triqueta		100			40							
Scrippsiella trochoidea	480	300	40		40		40		40			200
Unarmoured dinoflagellate	240			80	120	80		200				
Asterionella kariana				40								
Biddulphia aurita			40									
Chaetoceros constrictus	160			40	40	40				240	100	
Chaetoceros debilis	3720	4800	2920	2880	2120	2880	2120	3900	8600	1280	1700	10300
Chaetoceros decipiens	120		40		40			300		240		
Chaetoceros diadema				40	40	40	80	100	160			
Chaetoceros furcellatus		100	40	40	160	440	1280	3900	2920	80	800	1000
Chaetoceros laciniosus		100				40					500	
Chaetoceros sp.	1040	600	1120	960	1080	1120	240	1400	3280	640	400	1100
Chaetoceros subtilis	40											
Chaetoceros teres		100	200	40	80	240	160	300	320			200
Coscinosira polychorda	160	700	200	80	120	120	40	100	240		600	300
Ditylum brightwelli			80									
Eucampia sp.	40						40					
Eucampia zoodiacus				40		200						
Fragilaria sp.				40								
Grammatophora marina												100
Gyrosigma fasciola				40								
Leptocylindrus danicus	40			320			160		120			300
Leptocylindrus minimus	40	200			120				240			
Lycmophora lyngbyei			40							80		
Melosira sp.		100										
Navicula sp.	40	200	120	40			40	100				100
Nitzschia closterium	640	900	440	120	280	280	120	1000	80	400	800	200
Pleurosigma angulatum									40			
Pleurosigma strigosum									40			
Pseudonitzschia pseudodelicatissima	2360	1400	1200	480	1560	760	920	1600	1080	560	1900	600
Pseudonitzschia pungens						40			80		100	
Rhizosolenia fragillima	80		80		120	120	40		200		100	200
Rhizosolenia setigera					40							

DATE: 28-05-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Skeletonema costatum	600	1300	1040	320	200	240	440	100	40	800	200	
Thalassiosira decipiens	40	900				160			200	1520	600	
Thalassiosira gravida	120	300	400	160	760	160	200	100	520		200	1300
Thalassiosira nordenskioeldii	179520	118300	70000	40800	74480	41320	3480	6200	1760	43920	82700	2800
Thalassiosira sp.	440		400	280	440	440	160	400	280	400	1200	1600
Thalassiothrix nitzschiodes	120		80		80	40	40	200	40			
Acartia sp.				40								
Brachionus sp.			40		40				40			
Distephanus speculum	80			40				100			200	
Eutreptia sp.	560		120	200	280	160			120	80	300	
Mesodinium rubrum	1400	2300	1760	1400	2120	80	240	600	1240	2800	700	1800
Tintinnids	760	1900	1320	1360	2120	280	80	300	280	480		400

DATE: 04-06-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense	200	800	400		500	1200	40	200	400	1040		280
Alexandrium (duplet)	80								100	240		40
Ceratium longipes	40		80	40						240		40
Ceratium minutum										80		
Dinophysis acuminata	40		160	80		900	40	100	300			40
Dinophysis norvegica								100	400			40
Dinophysis sp.			80									
Gymnodinium sp.					100	100						
Peridinium sp.	560	480	1360	240	1600	1000	400	100	1000	880		600
Peridinium triqueta			80		100				100	80		
Scrippsiella trochoidea		320	880		200	500	80	300	500	240		160
Unarmoured dinoflagellate			80					100	200			
Biddulphia obtusa		80										
Chaetoceros compressus		160	560		900		280		300	160		80
Chaetoceros constrictus			80		200	800	120	100	300			
Chaetoceros convolutus	40											
Chaetoceros debilis	600	1840	2560	1840	1600	2700	5920	5200	10000	1760		8200
Chaetoceros decipiens	360	320	480	240	600	800	80	100	100	480		80
Chaetoceros diadema							40					
Chaetoceros furcellatus								100				40
Chaetoceros laciniosus	120		160	120	100	600	40	100	200	160		
Chaetoceros sp.	520	2080	3440	3760	3200	2500	1360	1600	2900	1120		560
Chaetoceros teres	40		80		400	200	680	400	900			1000
Coscinodiscus sp.			80	40								40
Coscinosira polychorda	80		240	40			240	300	100			120
Ditylum brightwelli			80		100	100						
Eucampia sp.			80						100			
Eucampia zoodiacus			160									120
Gyrosigma tennuissimum							40					
Lauderia borealis										80		
Leptocylindrus danicus		320	560		1700	700	280	600	100	240		440
Leptocylindrus minimus		80		160	300	1100	80	300	900	80		840
Melosira ambigua										80		
Melosira monoliformis	40	80		40								
Navicula sp.	40	160	80	40					100			
Nitzschia closterium	440	480	800	80	3400	1600	40	1000	1200	800		400
Pseudonitzschia pseudodelicatissima	2000	1840	14880	4320	37100	58200	2400	11400	27900	8080		7280
Pseudonitzschia pungens	160	800	560	200	700	300	40	100	100	240		
Rhabdonema sp.										80		
Rhizosolenia fragillima	120		320	120	300	700	120	100	300	240		80

DATE: 04-06-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Rhizosolenia hebetata	120											40
Rhizosolenia setigera				40			40					
Skeletonema costatum	760	3200	8640	1800	8900	7600	240	1200	200	3760		40
Thalassiosira decipiens	40		960		400	700						160
Thalassiosira gravida	80		400	440	400	100	800	400	500			920
Thalassiosira nordenskioeldii	26040	38800	18080	9480	39700	9400	440	1500	400	36880		240
Thalassiosira sp.	1240	640	1440	960	1200	1200	120	300	200	1360		80
Thalassiothrix nitzschiodes				80	100							
Acartia sp.			80	40								
Brachionus sp.		160	80			200				80		40
Distephanus speculum			80						100			
Eutreptia sp.	40	80		160	300	400		100	200	80		80
Mesodinium rubrum	1160	2560	1680	320	1100	1100	400	600	1100	2960		3320
Parafavella sp.			80							80		40
Ptychocylis sp.		80			100							
Tintinnids	1040	1280	1520	240	1800	900	320	300	1000	560		480

DATE: 11-06-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense	720	300	120	320	160	160	200	200	200			40
Alexandrium (duplet)	40											
Ceratium longipes							40			200		
Dinophysis acuminata		200	40	80	80	320	40	80				
Dinophysis norvegica									40			
Dinophysis sp.								40	40			
Gonyaulax triacantha						80						
Gymnodinium sp.	40											
Peridinium denticulatum	80											
Peridinium limbatum								40				
Peridinium sp.	1440	200	80	280		1040	120	600	200	400		
Peridinium triqueta	240	100		40				40		100		
Scrippsiella trochoidea	1360		280	320	240	1040		240	40	100		
Unarmoured dinoflagellate				80		160						
Chaetoceros compressus	400	1600	680	1080	1120	880	480	280	400	1500		80
Chaetoceros constrictus	40	300	120	320	640	400		120		400		
Chaetoceros convolutus	80			80			40					
Chaetoceros debilis	2960	2000	2160	3920	3040	3760	3520	3640	7400	2600		14920
Chaetoceros decipiens	1000	700	1160	1280	1600	1360	880	560	440	900		320
Chaetoceros diadema				160					40			
Chaetoceros didymus						80						
Chaetoceros furcellatus					80							
Chaetoceros laciniosus	440	900	520	640	240	400	160	120		1100		120
Chaetoceros sp.	3160	2900	2960	4000	5040	6480	3720	2520	3280	9000		1200
Chaetoceros teres	120	800	200	200			160		240			1240
Coscinodiscus sp.					80		40					
Coscinosira polychorda			120	80		240	40	40	160	100		40
Ditylum brightwelli							40					
Eucampia sp.		100	40	40	240			80	40			
Eucampia zoodiacus	40						40		120			40
Fragilaria sp.							40					
Gyrosigma tennuissimum				40								
Lauderia borealis												200
Leptocylindrus danicus	200	100		1280	640	880	600	1080	2760	500		1920
Leptocylindrus minimus	40	600	80	920	1120	1280	800	720	1400	500		2680
Lycmophora lyngbyei				80								
Melosira monoliformis								40				
Navicula sp.	40	200	40									40
Nitzschia closterium	40	1300	40	480	240	1120	1040	40	960	600		1760
Pleurosigma angulatum				80					40			40
Pseudonitzschia pseudodelicatissima	3040	19300	9400	107720	17280	32560	14120	68560	29800	37600		30760

DATE: 11-06-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Pseudonitzschia pungens	320	400	680	640	720	160	360	520	320	1200		280
Rhabdonema sp.		100										
Rhizosolenia delicatula	40									200		
Rhizosolenia fragillima	40	800	280	560	320	320	400	320	200	400		320
Rhizosolenia hebetata		400	120	120	80	320		40	40			80
Rhizosolenia setigera									40			
Skeletonema costatum	320	1100	160	800	560	800	800	400	440	4200		
Tabellaria sp.								40				
Thalassiosira decipiens		700				80		120		300		
Thalassiosira gravida	200	500	360	600	720	800	1120	1280	960			1160
Thalassiosira nordenskioeldii	4400	13900	3840	1240	1200	1120	160	120	280	2100		
Thalassiosira sp.	240		120	200	720	400	440	80	200			40
Thalassiothrix nitzschiodes					80	80	40					
Brachionus sp.	440	100		40	80	160	80	40				40
Dinobryon				40								
Distephanus speculum	40					80		40	40	100		
Eutreptia sp.	360	100		160			40	40	120			
Favella sp.	40											
Helicostomella sp.				40								
Mesodinium rubrum	28920	4700	1960	1160	2160	160	280	1280	640	200		1720
Parafavella sp.	40						40					
Tintinnids	600	600	200	400	160	400	240	400	280			400

DATE: 18-06-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense	60			1040	160	320	160		160	600	600	
Alexandrium (duplet)				120		40	40				80	
Alexandrium (quadruplet)											40	
Ceratium longipes						40			80	40	40	
Dinophysis acuminata	20	80		80	120	80	120	40	120			
Dinophysis norvegica			40		40						40	40
Gymnodinium sp.									40			
Peridinium depressum							40					
Peridinium excentricum									40			
Peridinium limbatum	20					80						
Peridinium sp.	120	280	80	520	400	120	440	160	960	640	1120	120
Peridinium triqueta		40		160					40	80	120	
Scrippsiella trochoidea	40	40	200	360	280	280	280	60	120	40	640	
Unarmoured dinoflagellate					80	40	40	60	40		40	80
Actinoptychus undulatus	20											
Chaetoceros compressus	20	40	440		80			20			200	
Chaetoceros constrictus	40	40	360	160	120		160	160	80	440	40	
Chaetoceros convolutus		40			80						40	
Chaetoceros debilis	40	680	320	80	200		280	160	80	1440	1840	280
Chaetoceros decipiens	140	400	680	360	480	280	440	140	160	680	1320	280
Chaetoceros furcellatus												40
Chaetoceros laciniosus	60	520	320	240	160	160	280	140	200	880	520	40
Chaetoceros socialis				40								
Chaetoceros sp.	180	640	960	640	800	520	840	260	560	2520	5240	200
Chaetoceros teres										40		
Corethron criophilum	20										40	
Coscinodiscus sp.		40										
Coscinosira polychorda			40	80				80		40		40
Ditylum brightwelli												40
Eucampia sp.								20	80			
Eucampia zoodiacus						80			40	40	40	
Fragilaria sp.						40			40			
Gyrosigma baltica							40					
Gyrosigma fasciola								40	40	40		
Gyrosigma littorale					40		40	20				
Leptocylindrus danicus	680	240	3080	2040	4280	1560	1280	2340	2280	40	5080	
Leptocylindrus minimus	4220	9280	14080	12560	20160	8760	6920	7900	10640	4960	3720	15680
Lycmophora lyngbyei			40									
Melosira ambigua	100					840						
Melosira monoliformis	20								40			

DATE: 18-06-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Navicula sp.			40		40	40						40
Nitzschia closterium	120	360	240	120	480		800	80	600	200		1160
Pleurosigma angulatum	20				40				40			40
Pleurosigma sp.		40										
Pleurosigma strigosum				40					40			
Porosira glacialis		40									200	
Pseudonitzschia pseudodelicatissima	6540	10360	30480	15240	22800	5720	24000	81600	24400	20600	78340	10320
Pseudonitzschia pungens	60	480	720	680	440	240	440	280	360	560	2680	560
Pseudonitzschia seriata										40		200
Rhizosolenia delicatula				40					40	480		4000
Rhizosolenia fragillima	60	240	200	360	240	280	200	420	120	520	320	240
Rhizosolenia hebetata	40				40	80		80			80	
Rhizosolenia setigera											80	40
Rhizosolenia sp.											40	80
Skeletonema costatum		40			40							
Stephanopyxis turris								20				
Tabellaria sp.	40					240						
Thalassiosira decipiens					40		80					
Thalassiosira gravida	20	240	320	120	240	240	160	400	320	200	920	680
Thalassiosira nordenskioeldii		40			40			120		120	40	40
Thalassiosira sp.		40	40		40		80	20			40	
Thalassiothrix nitzschiodes									40			
Brachionus sp.		80				40			40			
Distephanus speculum											40	
Eutreptia sp.		40	160	160	80		40	40	80	280	120	
Helicostomella sp.	20								40			
Mesodinium rubrum	220	1680	720	120	320	320	320		440	40	2760	680
Parafavella sp.		40				40	40				40	
Tintinnids	80	120	200		120	40	160	20	280	40	360	320

DATE: 25-06-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense	40	240	960	680	1900	240	240	440	800	1120	480	80
Alexandrium (duplet)			120		200				200	80		20
Ceratium longipes		240								240	80	20
Dinophysis acuminata		320		120	100	160	80		100	80	80	20
Dinophysis norvegica	40								100	160	160	20
Dinophysis sp.			80					40				
Gymnodinium sp.			40		100				100			
Peridinium denticulatum												40
Peridinium sp.	80	1280	920	1400	2300	1280	520	1040	2000	4560	2880	280
Peridinium triqueta		80	120	40	200	80	80	40	300	2720	320	
Scrippsiella trochoidea	160	960	400	640	1600	960	320	360	1400	2880	1440	140
Unarmoured dinoflagellate								40	200			
Cerataulina pelagica							40					
Chaetoceros borealis										80		
Chaetoceros compressus	120	160	160	80	200	160						
Chaetoceros constrictus	280	2160	2320	3960	3500	1200	400	560	100	3280	3680	80
Chaetoceros convolutus	160	80	80				40				80	
Chaetoceros debilis	2080	5920	9160	4440	14600	6480	440	640		7040	3600	
Chaetoceros decipiens	200	1600	680	520	1700	800	40	160	400	320	960	120
Chaetoceros diadema			120									
Chaetoceros laciniosus	200	2160	400	1120	3800	1760	800	40	200	480	240	
Chaetoceros sp.	3880	6880	12240	4920	15400	10400	1360	1920	800	8480	10160	320
Coscinodiscus sp.												40
Coscinosira polychorda		160	80		100	80		40				
Ditylum brightwelli					100							
Eucampia sp.							40	40	200			
Eucampia zoodiacus			80									100
Guinardia flaccida					100							
Leptocylindrus danicus	2240	11040	6080	16800	26400	17520	8560	10360	15600	7680	9840	19040
Leptocylindrus minimus	4440	14560	22560	120760	50800	33440	78320	117520	375400	4320	14400	84860
Lycmophora lyngbyei			40	40			40					
Melosira ambigua					500							
Navicula sp.	40	240	40				80		100			20
Nitzschia closterium		160	200	160	100		240		200	160		320
Pleurosigma angulatum							40					80
Pleurosigma sp.								40				
Pleurosigma strigosum						80						
Pseudonitzschia pseudodelicatissima	1400	12480	11400	1320	22400	11200	1480	560	300	960	80	200
Pseudonitzschia pungens	2280	8080	7480	6600	13200	7200	1800	3080	6700	4880	2880	1720
Rhizosolenia alata									100			

DATE: 25-06-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Rhizosolenia delicatula						160	80					
Rhizosolenia fragillima	160	560	640	640	1000	640	320	480	600	80	640	780
Rhizosolenia hebetata	80	160	480	280		80		240	400		480	200
Rhizosolenia setigera			40				80	40				40
Rhizosolenia sp.		240										
Skeletonema costatum			120		100			40		80		
Thalassiosira decipiens							40		100			
Thalassiosira gravida	80	240	360	320		240	40	200	400		80	120
Thalassiosira nordenskioeldii		240		40			80					
Thalassiosira sp.			40		100			40				
Acartia sp.			80									
Brachionus sp.			40									
Distephanus speculum		160	120		100			40		320	480	
Eutreptia sp.	360	800	840	1720	1900	800	80	80	200	320		60
Helicostomella sp.	40				200		40	80	100			40
Mesodinium rubrum	2600	4480	2160	1040	2500	2080	280	1120	1100	1120	1120	440
Notholca sp.												20
Parafavella sp.				40								
Tintinnids	40	400	480	80	100	400	320	200	800	800	320	700

DATE: 09-07-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense	460	5340	4280	2800	2640	12740	320	1180	340	7440	4120	240
Alexandrium (duplet)	20	420	220	260	240	1140	80	180	120	540	80	20
Alexandrium (fusing)										40		
Alexandrium (planozygote)						40						
Alexandrium (quadruplet)			40		20	80				20	80	
Alexandrium (triplet)			20		40	80				20	80	
Ceratium longipes		40	80	40	100	120	80	40		100	240	
Ceratium minutum	20	40		40	80	40		60		40	240	
Dinophysis acuminata	120	120	80		100	100	20	60	140	300	80	
Dinophysis norvegica		40	80	80	20	100	20	40		40		
Dinophysis rotundata											40	
Dinophysis sp.				100						20		
Gonyaulax spinifera		40			20					20		
Gonyaulax triacantha		20				20				20		
Gymnodinium sp.								20				
Peridinium conicum	20					60						
Peridinium depressum										20		
Peridinium sp.	380	460	400	380	760	1180	480	880	540	1180	680	180
Peridinium triqueta	40	100	80	240	100	360		80		520	320	
Phalacroma pulchellum				20								
Scrippsiella trochoidea	20	220	200	180	240	620	60	20	40	780	600	100
Unarmoured dinoflagellate	20		40		20	60			20			
Actinoptychus undulatus				60								
Cerataulina pelagica		20					40		20			40
Chaetoceros borealis		20										
Chaetoceros compressus	40						100		40	20		
Chaetoceros constrictus	340		1400	360	200	1520	80	760	40		480	40
Chaetoceros debilis	420	780	900	440	640	1920	20	440		960	1920	
Chaetoceros decipiens		60	100		20	140	40			40	40	
Chaetoceros laciniosus			40	20	40		40	20		40	80	
Chaetoceros sp.	700	3860	2060	760	2400	2660	1260	980	400	4640	3480	20
Coscinodiscus sp.						40		20				
Coscinosira polychorda		60				40						
Ditylum brightwelli											80	
Fragilaria sp.	20	140										20
Grammatophora marina										20		
Guinardia flaccida				140								
Leptocylindrus danicus	120		360	120	300	360	180	240	120		80	
Leptocylindrus minimus	20	80	20		20	20	20	20	20	40		
Lycmophora lyngbyei		40		20	20	40			20	20		
Navicula sp.	20	40		80					20			20

DATE: 09-07-91	STATION NUMBER											
ORGANISM	1	3	5	7	8	9	11	13	14	15	16	17
Nitzschia closterium	60	120	20	20	20		60	40	60		80	120
Pleurosigma angulatum						20			20			20
Pleurosigma strigosum									20			
Pseudonitzschia pseudodelicatissima	60	160	100	40	200	120	20	80	80	180	160	100
Pseudonitzschia pungens	260	700	660	1620	1260	1080	340	180	320	100	160	20
Rhizosolenia delicatula	20				40	40	20	40	40			40
Rhizosolenia fragillima						120						
Rhizosolenia gracillima		20						20				
Rhizosolenia hebetata	20	20			40	140			60			
Rhizosolenia setigera			20			20	40	40				20
Skeletonema costatum	20		20				20	20	20			
Thalassiosira decipiens									20			
Thalassiosira gravida							40					
Thalassiosira nordenskioeldii							20					
Thalassiosira sp.									20			
Thalassiothrix longissima			20									
Acartia sp.		80										
Brachionus sp.		80	60	20	60	120	20	20		40	40	
Distephanus speculum	40	20		60	40	60	20	80	20	20	160	20
Eutreptia sp.	60		20	200	20	40	40	40	20			40
Favella sp.		140	40	20	120	20		40	60			
Helicostomella sp.	220	860	560	460	860	940	240	200	120	440	240	300
Mesodinium rubrum	1000	5700	8640	2320	6220	7260	780	1660	1180	2960	3960	2780
Notholca sp.				20	20				20			40
Parafavella sp.			20	40		60						
Tintinnids	500	720	560	380	280	500	340	540	740	240	360	2000

DATE: 16-07-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense	480	2900	2480	1520	1880	1320	360	920	220	3680	60380	220
Alexandrium (duplet)	20	80	60	100	60	20	40	40		220	3400	
Alexandrium (fusing)			40							20	200	
Alexandrium (planozygote)										40	1640	
Alexandrium (quadruplet)											40	
Alexandrium (triplet)											160	
Ceratium longipes	60	160	140	20	40	60	20	40		100	160	20
Ceratium minutum	60	60		20	40	60	20		60	80	40	20
Dinophysis acuminata	100	160	260	180	160	140		40			120	40
Dinophysis norvegica		80	80	60	180	40		80			40	
Dinophysis sp.		20	20	60	200							
Gonyaulax spinifera		20									240	
Gonyaulax triacantha					40							
Gymnodinium sp.				20								
Peridinium depressum				20				20				
Peridinium sp.	260	340	420	500	420	760	100	340	120	700	1400	200
Peridinium triqueta	60	40	40	40	180	200		20	20	320	880	
Phalacroma pulchellum				20								
Scrippsiella trochoidea			40	120	60	100	20	40	80	520	1720	
Unarmoured dinoflagellate	20		20	20	40	80	20		20			
Biddulphia sp.							20					
Cerataulina pelagica		60						20	20			
Chaetoceros borealis		40										
Chaetoceros compressus		20					40				80	140
Chaetoceros constrictus	120	340	480		440	260		120	60	740	800	40
Chaetoceros convolutus					20							
Chaetoceros debilis	300	860	160	20	580	280	20	20	40	720	640	40
Chaetoceros decipiens		20									80	
Chaetoceros laciniosus						40	20		40	20		60
Chaetoceros lorenzianus						20	20					
Chaetoceros sp.	200	1460	380	120	220	320	300	100	280	1420	1520	160
Chaetoceros subtilis	20											
Corethron criophilum										20		
Coscinosira polychorda					20							
Ditylum brightwelli		20	20								40	
Guinardia flaccida			60	260	260	260		200				340
Gyrosigma fasciola									20			
Gyrosigma littorale								20				
Leptocylindrus danicus		40								40		
Leptocylindrus minimus	160	800	180	20	280	100	60	300	180	660	6920	60
Lycmophora lyngbyei							60		120			

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ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Melosira monoliformis								20		20		
Melosira sp.								20				
Navicula sp.	20				20		20	20	60			
Nitzschia closterium	260	980	80	20	40		300	200	340	920	120	460
Pleurosigma angulatum	20			20	20	20		20				20
Pleurosigma strigosum		20				20			20	20		60
Pseudonitzschia pseudodelicatissima	240	1800	160	100	100	240	140	260	180	3160	1760	20
Pseudonitzschia pungens		100	20		20					20		
Rhizosolenia alata									20			
Rhizosolenia delicatula	40	260	380	60	240	320	140	120	40	200	800	140
Rhizosolenia fragillima		20	20					40		20	40	
Rhizosolenia hebetata				20					60		40	
Rhizosolenia setigera							20		20			20
Rhizosolenia sp.									20			
Skeletonema costatum				20		20	200	40	20			
Thalassiosira decipiens							40	20				
Thalassiosira sp.				20								
Acartia sp.					20							
Brachionus sp.					20							
Distephanus speculum	120	240	320	100	240	220	20	120		340	120	280
Eutreptia sp.	40		140	40	80		40	60	300	80	240	100
Favella sp.	20		20		40							
Helicostomella sp.	100	120	140	200	360	100	60	40	20		160	120
Mesodinium rubrum	1120	3120	2240	760	5360	2100	960	760	380	220	7520	3940
Notholca sp.								40	20			
Tintinnids	460	160	200	740	280	160	220	640	60	480	960	700

DATE: 24-07-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense	260	1580	640	520	820	2500		280	520	7920	10000	
Alexandrium (duplet)				20					20			
Alexandrium (fusing)									20	40	20	
Alexandrium (planozygote)		80		20	20	60				600	80	
Ceratium fusus								20				
Ceratium longipes	60	260	300	240	380	180		140	60	200	60	20
Ceratium minutum	200	980	980	220	920	160	20	260	20	160	120	100
Dinophysis acuminata	120	300	200	20	340	160	40	200	20	80	80	60
Dinophysis norvegica	80	120	140	240	320	120	40	160	60	40	20	80
Gonyaulax spinifera	20	220	280	300	360	500		40	20	680	780	20
Gymnodinium sp.	20		220	20	100	480			120			
Peridinium limbatum										40		
Peridinium sp.	300	1960	1520	860	1460	8120	80	760	840	12400	800	120
Peridinium triqueta	180	600	1160	320	5360	4460		240	120	2320	2760	
Scrippsiella trochoidea	200	3120	1720	940	1380	3020	20	940	340	16560	17840	40
Unarmoured dinoflagellate	80	60	540	40	940	140		180		40	20	
Cerataulina pelagica					20		20	40	60	80	40	80
Chaetoceros compressus							460					
Chaetoceros constrictus								40	20			
Chaetoceros debilis	20	100	20	40	40		20	20				120
Chaetoceros decipiens					20							
Chaetoceros laciniosus				20			20		20			
Chaetoceros sp.		80	60		20	20	4500	200	440			240
Corethron criophilum								20				20
Coscinosira polychorda				20								
Ditylum brightwelli			20				20		20			
Guinardia flaccida		40		200			80	80	200			620
Gyrosigma littorale												40
Leptocylindrus danicus				160					80			40
Leptocylindrus minimus	20	20	60	40		40	180	120	100			120
Lycmophora lyngbyei					20	120						
Melosira ambigua		20										
Navicula sp.					20					40		
Nitzschia closterium	40	60	100	80			260	20	800		40	820
Pleurosigma angulatum						20		40	20			40
Pleurosigma sp.					20							
Pleurosigma strigosum				20			60	40	80			160
Pseudonitzschia pseudodelicatissima	80	40	100	120	20	100	600	580	1660		40	1100
Rhizosolenia delicatula	240	680	580	640	600	600	260	500	880	640	920	1660
Rhizosolenia hebetata												20
Rhizosolenia setigera												20

DATE: 24-07-91	STATION NUMBER											
ORGANISM	1	3	5	7	8	9	11	13	14	15	16	17
Rhizosolenia shrubsolei								40				
Skeletonema costatum				60			4980	40	1340			2340
Thalassiosira baltica		20										
Thalassiosira decipiens							80	20	80			20
Thalassiosira gravida									20			40
Thalassiosira nordenskioeldii							120					
Thalassiosira sp.							60					
Thalassiothrix nitzschiodes									60			
Distephanus speculum	220	300	460	440	480	820	100	540	320	240	1400	480
Eutreptia sp.	640	160	120	280	980	780	100	18000	120	240	320	
Favella sp.	20	20	20	40	20	20					20	
Helicostomella sp.	60	60	60		60	20	100	60	60			300
Mesodinium rubrum	4340	3180	4420	940	14040	1400	1100	6100	80	400	1600	1140
Notholca sp.							20		20			
Tintinnids	380	420	120	560	740	540	120	440	160	1240	340	720

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ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense	20				20						40	
Ceratium fusus								20				
Ceratium longipes	100	80	240	80		220	20	140	60	240	320	60
Ceratium minutum	700	420	580	180	200	1020	100	380	260	700	1520	300
Ceratium sp.								20			20	
Dinophysis acuminata	80	180	120		20	380	60	340	200	260	480	160
Dinophysis norvegica	220	40	140	120	40	320	100	220	120	140	140	40
Dinophysis sp.		60								20		
Gonyaulax spinifera	220	20	60	60	240	100			20	60	920	40
Gymnodinium sp.				20				20				
Peridinium conicum									20		20	
Peridinium sp.	560	80	220	340	320	200	40	280	180	380	2440	80
Peridinium triqueta	140	100	80	180	860	600	40	140	80	180	5140	
Prorocentrum micans						40				20		
Scrippsiella trochoidea	280	100	80	140	240	420		40	20	220	1560	
Unarmoured dinoflagellate	40			60	40	140		20				
Cerataulina pelagica							20		20			40
Chaetoceros compressus							240					
Chaetoceros constrictus												20
Chaetoceros debilis							60					
Chaetoceros furcellatus							20					
Chaetoceros sp.	20		20		20		1880		20			40
Coscinodiscus sp.					20		20		20			
Ditylum brightwelli		20	20		20							
Fragilaria sp.	40											
Guinardia flaccida		260		120	40		200	300	720		360	1760
Gyrosigma fasciola						20						
Gyrosigma littorale							20		60			
Leptocylindrus danicus							20					100
Leptocylindrus minimus					20		20	20	20	20		20
Lycmophora lyngbyei			40	100		20	40		40			
Melosira monoliformis										20		
Navicula sp.	40		40	40	20	20					20	
Nitzschia closterium		80		20			20	20	40			40
Nitzschia sp.							20					
Pleurosigma angulatum	20	60	20	20		60	20	40				40
Pleurosigma sp.												20
Pleurosigma strigosum							20		20			100
Pseudonitzschia pseudodelicatissima		60		20	80		140		20			80
Pseudonitzschia pungens								20				20

DATE: 30-07-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Pseudonitzschia seriata												20
Rhizosolenia delicatula	280	1080	540	1920	1160	2120	1380	2260	2080	1800	4200	6080
Rhizosolenia fragillima												20
Skeletonema costatum		20		20			4400		280			40
Thalassiosira nordenskioeldii							20		20			
Thalassiosira sp.							180					
Distephanus speculum	80	100	60	80	180	260	120	220	200	100	380	640
Eutreptia sp.	200	20	60	340	140	120	4440	100	60	20	20	500
Favella sp.	20	20	20		20					20	20	
Helicostomella sp.	600	120	180	40		80	40	40	20	380	880	540
Mesodinium rubrum	6200	1700	3520	1120	2100	1300	3080	2520	2480	3140	3220	6480
Tintinnids	680	340	540	180	560	360	420	180	160	340	740	300

DATE: 05-08-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense		40	20			40				20		
Ceratium fusus			20		40	40	20			20	20	40
Ceratium longipes	80	60	140	100	200	800	80	160	120	260	240	140
Ceratium minutum	580	1620	1620	480	2840	11840	440	1240	440	480	2040	740
Ceratium sp.			20		20	80		20		20	20	
Dinophysis acuminata	60	100	220	140	540	520	80	200	180	580	540	60
Dinophysis norvegica	120	160	240	120	220	800	40	120	100	180	380	40
Dinophysis rotundata									20			
Dinophysis sp.		80			20			20				20
Gonyaulax spinifera	60	340	240	120		4560		140		20	140	160
Peridinium depressum					20				40		20	
Peridinium sp.		560	420	400	420	4160	240	380	100	280	180	100
Peridinium triqueta	40	200	200	660	1940	19480		180		340	1360	
Prorocentrum micans				20		40				20		
Scrippsiella trochoidea	40	60	160	180	140	3680	20	100		20	80	
Unarmoured dinoflagellate			180	40	220	480		160	/40		60	
Cerataulina pelagica										20		80
Chaetoceros compressus									20			
Chaetoceros furcellatus							20					
Chaetoceros sp.		20					20			20		80
Coscinodiscus sp.								20		40		
Ditylum brightwelli	20	40	20	20	40	40		40		20		
Grammatophora marina				20								
Guinardia flaccida		60	20	280	200	40	700	1080	1900	120	200	1440
Gyrosigma fasciola						40						
Leptocylindrus danicus							20	20				
Leptocylindrus minimus							20		20	20	20	140
Lycmophora lyngbyei		40		20		80	80		60	40		
Navicula sp.		20						20				
Nitzschia closterium			20	40	40	40	40	40		60	80	60
Pleurosigma angulatum				20								
Pleurosigma sp.												20
Pleurosigma strigosum									20			
Pseudonitzschia pseudodelicatissima									40			
Pseudonitzschia pungens					40	40		40	20		100	140
Rhizosolenia delicatula	4840	8460	8040	15800	13680	25400	4800	11080	6400	16060	15840	15720
Rhizosolenia fragillima											20	
Rhizosolenia hebetata								40				
Rhizosolenia shrubsolei												40
Skeletonema costatum				20			360	20	140			
Thalassiothrix longissima									20			
Acartia sp.		40	20									
Distephanus speculum	40	220	40	160	120	240	480	220	420	140	540	460
Eutreptia sp.	200	80	120	640	120	80	1060	260	120	20	20	
Helicostomella sp.		40	120	20	240	440	160	40	220	40	100	140
Mesodinium rubrum	500	1700	920	120	1120	4200	660	1140	700	120	1680	2000
Notholca sp.	20	20									20	
Tintinnids	180	160	460	140	280	760	560	140	2800	140	340	2560

DATE: 13-08-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense				20			20	20	20		160	
Ceratium fusus		20		20	40	20				20		
Ceratium longipes	140	120	240	140	60	140	60	140	100	240	360	20
Ceratium minutum	1420	3460	1920	220	420	2760	660	640	2680	520	2040	1380
Ceratium sp.		100				20		40		100		
Dinophysis acuminata	40	180	140	120	40	100	40	200		20	280	60
Dinophysis norvegica	200	340	160	260	200	380	100	160	60	80	40	140
Dinophysis rotundata		60										
Dinophysis sp.	80			60	40				20	60	40	
Gonyaulax spinifera	40	80	40	540	800	540	40	160	60	100	4680	
Gymnodinium sp.					20			20				
Peridinium depressum	20											
Peridinium sp.	60	420	180	1260	1660	500	60	280	240	280	8160	60
Peridinium triqueta	160	260	320	1240	1380	1300	100	200	160	520	13360	
Prorocentrum micans				20								
Scrippsiella trochoidea	60	80		520	260	280	40	80		180	2000	20
Unarmoured dinoflagellate	40		40	20	60	40		40				
Actinoptychus undulatus											40	
Cerataulina pelagica		20				20			20			80
Chaetoceros constrictus								20	20			
Chaetoceros sp.									20			
Corethron criophilum										20		
Coscinodiscus sp.										20		
Ditylum brightwelli		60	80	20	40		40		20		40	
Guinardia flaccida	60	460	320	980	560	1300	720	1800	2280	100	320	4620
Gyrosigma fasciola			20	20								
Leptocylindrus danicus					60		20	20				80
Leptocylindrus minimus		20							40			280
Lycmophora lyngbyei					40		20					
Navicula sp.					20	40	20	20				40
Nitzschia closterium	40	60	120					20		40	40	20
Pleurosigma angulatum	60	20			20	20	80	100				20
Pleurosigma sp.					20							
Pleurosigma strigosum									20			100
Pseudonitzschia pseudodelicatissima		20	20				20			20		20
Pseudonitzschia pungens			20	20		160		40	40		40	200
Rhizosolenia delicatula	220	680	1000	1800	1160	1040	4920	4480	10160	360	640	20360
Rhizosolenia setigera						20						
Skeletonema costatum							80					60
Acartia sp.	40			20	20		40					
Distephanus speculum	20	80	160	360	40	260	340	520	1120	80	360	400
Eutreptia sp.				140	80	20	53860	40	140			140
Helicostomella sp.	40	60	40		20	40						
Mesodinium rubrum	120	240	220	380	1200	1140	1100	640	900	480	3200	480
Tintinnids	320	260	320	240	240	260	260	320	320	40	1560	440

DATE: 19-08-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense		20		120								
Ceratium fusus						20						40
Ceratium longipes	40	120	60	60	20	80	20	80			140	40
Ceratium minutum	800	640	240	1480	300	1920	500	1340	780	100	3920	380
Ceratium sp.	20				40	40		20			60	
Dinophysis acuminata		20		80		20		40		120	120	60
Dinophysis norvegica	40	80	120	80	20	140	60	60		80	40	
Dinophysis sp.		40	20	40		40	60					
Gonyaulax spinifera	20	120		40		20		20		20	200	
Gymnodinium sp.									20			
Peridinium depressum					20					20		
Peridinium sp.	60	80	60	500	40	240	40	260	40	140	500	40
Peridinium triqueta	180	80		620	100	580	320	460	80		1520	
Prorocentrum micans						20			20	20		
Scrippsiella trochoidea	60	80		140		120	60	260		20	140	
Unarmoured dinoflagellate								40				
Actinoptychus undulatus		40								20		
Cerataulina pelagica				360			120	40	20			40
Chaetoceros lorenzianus										20		
Chaetoceros sp.				20	20			40				
Corethron criophilum				20		20	40	20				
Coscinodiscus sp.		20		20	20			20				
Ditylum brightwelli			40			20		20				20
Guinardia flaccida		80	80	1100	540	200	1000	3300	1940	160	2000	5960
Gyrosigma littorale		20										
Leptocylindrus danicus								20				20
Leptocylindrus minimus		40		20			80	60	20	20	80	220
Lycmophora lyngbyei		20		20					100	20		
Navicula sp.										40		
Nitzschia closterium	20	80		100	80	60	20	20		100	220	
Nitzschia sp.												20
Pleurosigma angulatum		20				20						
Pleurosigma formosum							40					
Pleurosigma sp.									20			
Pseudonitzschia pseudodelicatissima		20	40	60	60	60		100	60	120	20	
Pseudonitzschia pungens						40	40	200			40	60
Rhizosolenia delicatula	20	40	60	120	20	80	480	320	320	40	320	100
Skeletonema costatum	20						180		160			60
Acartia sp.			80	40						40		
Distephanus speculum	120	140	80	2980	80	1560	660	3380	580	40	4500	620
Eutreptia sp.	60		60	380	40	100	580	260	80		280	160
Helicostomella sp.		40	20	100		40		20		20	60	
Mesodinium rubrum	620	560	160	1520	240	260	720	1460	300	160	2160	1340
Notholca sp.												20
Tintinnids	500	200	480	260	140	200	160	60	320	140	240	520

DATE: 28-08-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense	20		20	360	80	40	60	40	160	60		
Ceratium fusus	60			20		20						
Ceratium longipes		20	60	40	20	60		60		60		
Ceratium minutum	5060	1900	9900	10180	29380	8000	1020	2240	3660	20400		200
Ceratium sp.	100	60	340	140	160	240	60	260	180	360		
Dinophysis acuminata		40	20	120	240	100	20	20	60	160		20
Dinophysis norvegica		40	80	140	320	40	20	100	160	200		
Dinophysis rotundata				20	20	20						
Dinophysis sp.	20		20	100	240					80		
Gonyaulax spinifera	120		180	160	640	300		40		860		20
Gonyaulax triacantha					20							
Gymnodinium sp.	20				20	60						
Peridinium depressum							20		20			
Peridinium sp.	480	80	840	1800	6220	840	160	820	700	2780		40
Peridinium triqueta	60	80	180	640	4460	840	80	100	20	2380		
Prorocentrum micans					60		20			80		
Scrippsiella trochoidea	280	20	740	3820	4600	800	120	1100	3440	660		100
Unarmoured dinoflagellate			140	100	260	100	20	20				
Cerataulina pelagica				80			120	140	260			
Chaetoceros constrictus									40			
Chaetoceros debilis				20								
Chaetoceros sp.			20			20	20	60	60			80
Corethron criophilum		20										
Coscinodiscus sp.			20					20				
Ditylum brightwelli				20	20		40		20			
Guinardia flaccida		120	80		40		40	20		20		20
Gyrosigma fasciola							20					
Gyrosigma littorale									20			
Gyrosigma tennuissimum						20						
Leptocylindrus danicus		20										
Leptocylindrus minimus				40			20	20	40			40
Lycmophora lyngbyei				160	60		800	20				
Navicula sp.		20	40						20			
Nitzschia closterium		40	20		60				40	100		
Nitzschia sp.												20
Pleurosigma angulatum		60	20		40	40		20	40			40
Pseudonitzschia pseudodelicatissima	40	100	60	40	40	60	80	20		80		
Pseudonitzschia pungens							20		80			60
Rhizosolenia delicatula	40	200	180	120	220	60	100	60	60	80		
Rhizosolenia stolterfothii							20					
Skeletonema costatum							320					20
Thalassiothrix nitzschiodes							20					

DATE: 28-08-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Acartia sp.	40						20					
Brachionus sp.										20		
Distephanus speculum	100	20		1240	340	240	260	940	1380	100		140
Eutreptia sp.			80	40	60	20	120	60	20			140
Helicostomella sp.				80	20			60	80			20
Mesodinium rubrum	700	60	460	1800	2520	1020	6280	1080	720	600		680
Notholca sp.				20	20		20	20				
Tintinnids	160	140	260	620	180	60	340	80	320	220		240
Tintinnopsis campanula				40	20							

DATE: 03-09-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense		20	20	20	20	20	20	20	300	40	200	20
Ceratium fusus					20	20	20	20	40		40	
Ceratium longipes			20							20	60	
Ceratium minutum	660	560	500	100	400	400	400	400	2460	2060	11780	120
Ceratium sp.		20			40	40	40	40	80	20	500	40
Ceratium tripos			20									
Dinophysis acuminata		20	20								40	20
Dinophysis acuta		20										
Dinophysis norvegica		20	20	60					40	60	80	20
Dinophysis rotundata											20	
Dinophysis sp.			20						40			20
Gonyaulax spinifera										20		
Gymnodinium sp.			40									
Peridinium sp.	120	80	120	40	60	60	60	60	980	100	1320	280
Peridinium triqueta					160	160	160	160	40	140	700	
Prorocentrum micans					20	20	20	20			20	60
Scrippsiella trochoidea	260	320	60	80	500	500	500	500	10740	160	2260	1380
Unarmoured dinoflagellate		20	20						80		20	
Actinoptychus undulatus											20	
Cerataulina pelagica									80	20	20	20
Chaetoceros constrictus									100			
Chaetoceros debilis										20		
Chaetoceros sp.									20			80
Gyrosigma littorale		20										
Leptocylindrus minimus											20	
Lycmophora lyngbyei		20		20					120			
Navicula sp.									20			
Nitzschia closterium									60	60	20	
Pleurosigma sp.									20			
Pseudonitzschia pseudodelicatissima	40	120	60	80					40	200	620	20
Rhizosolenia delicatula			20	20					20	20	120	20
Skeletonema costatum									80		40	40
Thalassiothrix nitzschiodes			20									
Acartia sp.			20								80	
Distephanus speculum		20	120	100	120	120	120	120	780	260	1040	220
Eutreptia sp.	20	60	60	400	140	140	140	140	20	40		
Helicostomella sp.		20			20	20	20	20	160		20	
Mesodinium rubrum	280	140	60	20					560	220	640	2520
Notholca sp.	20	20		20								
Tintinnids	140	200	280						140	40	140	600
Tintinnopsis campanula		20							20			20

DATE: 09-09-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense	140	120	220	640	140	600		280	140	1080	600	
Ceratium fusus					20						80	
Ceratium longipes	20	20	60		40	20		20	20	120	200	
Ceratium minutum	2120	4180	5300	880	1960	1660	460	840	420	9480	15400	
Ceratium sp.	40		100		160	200		40			400	
Dinophysis acuminata			40		60	60				80	80	
Dinophysis norvegica	40	80	180	20	80	40		60		120	240	
Dinophysis rotundata											40	
Dinophysis sp.		20										
Gonyaulax spinifera									20	40	40	
Gonyaulax triacantha	20								20			
Peridinium sp.	560	3120	520	600	380	1260	400	120	720	40	1000	20
Peridinium triqueta	180	160	140	20	200	320				3760	1000	
Prorocentrum micans	40	20		20	40	20	20	20	20	40	40	
Scrippsiella trochoidea	3820		3480	6700	4720	11680	1620	2560	11420	5440	4960	60
Unarmoured dinoflagellate				20	20	60		20	20			
Actinoptychus undulatus			40								40	
Biddulphia sp.										40		
Cerataulina pelagica		40		20			20			80		
Chaetoceros constrictus		20	20	20		20		20			40	
Chaetoceros laciniosus											80	
Chaetoceros socialis			60		40							
Chaetoceros sp.		20		20	40	60	40	40	120	80		
Corethron criophilum		20	40				20		20	40		
Coscinodiscus sp.			20				20	20				
Fragilaria sp.								20				
Guinardia flaccida		560								40	120	
Gyrosigma fasciola		20		20					20			
Gyrosigma tennuissimum								20				
Leptocylindrus minimus		40	60							240	40	
Lycmophora lyngbyei			20	60	60			20	200			
Melosira sp.									20			
Navicula sp.		20	40	20				40	20			
Nitzschia closterium	40	240	300		20	20	80	60	20		160	
Pleurosigma angulatum		40	60	40								
Pleurosigma sp.							20					
Pleurosigma strigosum									40			
Pseudonitzschia pseudodelicatissima	1000	2900	4180	520	2040	640	240	240	100	11360	2000	
Pseudonitzschia pungens			40							40	40	
Pseudonitzschia seriata				20								
Rhizosolenia delicatula	20	20	160	20	60	40				160	40	20

DATE: 09-09-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Rhizosolenia gracillima					20							
Rhizosolenia stolterfothii	140		140		100		100				1120	
Skeletonema costatum	40	320	580	60	80	80	1820	260	280	2280	400	
Thalassiosira gravida					40							
Thalassiosira sp.		160		20	40		60	20		280	160	
Thalassiothrix nitzschiodes						20						
Distephanus speculum	20	260	140	420	220	340	140	60	540	240	560	60
Eutreptia sp.	200		80	440	60	60	80	20	100		80	
Helicostomella sp.			20		20	40		20	20			
Mesodinium rubrum	2000	1360	1440	1040	660	3460	80	180	1040	600	1320	300
Notholca sp.		20						20				40
Tintinnids	280	240	420	120	120	100	120	160	320	80	240	100

DATE: 17-09-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense	40	1620	100	80	80	780	1160	720	40		1040	140
Ceratium fusus									20		40	
Ceratium longipes		20				20			20	40	200	
Ceratium minutum	220	380	360	220	620	1000	540	680	520	160	13760	280
Ceratium sp.	20		20	40	80	80					280	
Dinophysis acuminata		40						20	20		80	
Dinophysis acuta											80	
Dinophysis norvegica			20		120	160				20	480	20
Dinophysis rotundata					20	20						
Dinophysis sp.						60						
Gonyaulax spinifera						20		20			80	
Peridinium sp.	60	620	260	220	440	700	1740	1340	500	40	1960	400
Peridinium triqueta	40	60			140	80	80	80			3000	
Prorocentrum micans	20	20		20	80	20	20	40	20		320	
Scrippsiella trochoidea	3980	2580	760	380	1660	6800	11920	13540	7800	20	6360	1740
Unarmoured dinoflagellate							20	20				
Actinoptychus undulatus			120				40					
Cerataulina pelagica		20			160		40				80	
Chaetoceros constrictus					20		40		20			40
Chaetoceros debilis					40							
Chaetoceros lorenzianus								20				
Chaetoceros socialis									20			
Chaetoceros sp.				60	100	40	160	40	20			20
Corethron criophilum		20	20			20		120	20	20	80	
Coscinodiscus sp.			20	20		20				20		
Ditylum brightwelli				20			60	20	20			20
Fragilaria sp.			20		20					20		
Guinardia flaccida			20			60					280	
Gyrosigma fasciola				20			60		40			
Leptocylindrus minimus		40	20	20	40	80	40		20	40	40	
Lycmophora lyngbyei					60	20				20		
Navicula sp.				20						20		
Nitzschia closterium		80	100	60	60	60	140	420	340	780	320	40
Pleurosigma strigosum	20						40				40	
Pseudonitzschia pseudodelicatissima	80	540	1280	380	2820	2040	1980	1000	600	6280	2840	60
Pseudonitzschia pungens		20										
Rhizosolenia delicatula	20	20				180	40	20	60	140		20
Rhizosolenia gracillima											40	
Rhizosolenia sp.							20					
Rhizosolenia stolterfothii		20		120	40	40	80	200	20		200	
Skeletonema costatum		100	80	100	160	40	4800	480	1720	100	200	140

DATE: 17-09-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Thalassiosira sp.	20	60		40	60	60	380	40	100	20	40	
Thalassiothrix nitzschiodes						80						
Distephanus speculum	20	20	20	160	1100	320	180	580	400	80	800	160
Eutreptia sp.	80	220	100	300	320	140	160	60	60			
Helicostomella sp.						20		20				20
Mesodinium rubrum	840	1780	360	140	40	560	1540	1240	140		2000	3940
Notholca sp.						20	100					
Tintinnids	120	360	380	120	20	100	280	460	60	60	600	480

DATE: 23-09-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense		260	60	440	300	180	280	460	480	440		
Ceratium fusus			20									
Ceratium longipes	20	20	140	40	20	20			20	20		
Ceratium minutum	300	640	860	500	640	460	520	360	2600	560		140
Ceratium sp.				100		100			20			
Ceratium tripos					20				20			
Dinophysis acuminata	20			20	20	20	20	20	20	40		
Dinophysis norvegica	60	100	60	20	40	80	40	20		80		
Dinophysis sp.									40			
Gonyaulax spinifera							20	40	20			
Gymnodinium sp.				20	20							
Peridinium denticulatum				20								
Peridinium depressum					20							
Peridinium sp.	200	660	340	460	700	560	60	160	940	780		80
Peridinium triqueta			120	160	80	100		20	40	260		
Prorocentrum micans	60	40		80		20	20			100		
Scrippsiella trochoidea	940	1580	4160	5320	2980	3180	3560	4400	13020	3460		1280
Unarmoured dinoflagellate	20						20	20				
Actinoptychus undulatus	20		20			100						
Biddulphia obtusa				20								
Chaetoceros compressus							20					
Chaetoceros constrictus		20						20	20			60
Chaetoceros debilis				20								20
Chaetoceros laciniosus						20						
Chaetoceros socialis						20						
Chaetoceros sp.			20			20	20	20	20			20
Corethron criophilum	60			60	40		40	60	60			40
Coscinodiscus sp.		20			40				40			20
Ditylum brightwelli		20	40		20		20					
Grammatophora marina				80								
Guinardia flaccida	20	20		80	20	100				20		
Gyrosigma tennuissimum									20			
Leptocylindrus danicus								40				
Leptocylindrus minimus		20	60			80		20	20	100		
Lycmophora lyngbyei			20	40	20				20			
Navicula sp.			20		40		20					20
Nitzschia closterium	20	80	220	80	120	60	40	140	60	120		40
Pleurosigma angulatum		40				20		20		40		
Pleurosigma sp.					20							
Pleurosigma strigosum		20					20					
Pseudonitzschia pseudodelicatissima	380	1080	1240	1220	1900	960	940	540	340	4960		40

DATE: 23-09-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Rhizosolenia delicatula			40	80			20	20	20	20		
Rhizosolenia fragillima			20							20		
Rhizosolenia stolterfothii	40	40	20	80		60		20		140		
Skeletonema costatum	60	100	160	60	80	120	5320	220	540	60		240
Thalassiosira decipiens	20											
Thalassiosira gravida										40		
Thalassiosira sp.		100	60	80	100	100	180	40	20			
Distephanus speculum	20		100	260		80	220	200	340	60		40
Eutreptia sp.	60		120	40	60	20	20					
Favella sp.									20			
Helicostomella sp.							20		60			20
Mesodinium rubrum	200	220	240	240	100	240	240	520	1020	520		620
Notholca sp.			20			20						40
Salpingella sp.		20										
Tintinnids	240	540	380	580	220	540	120	300	560	380		180
Tintinnopsis campanula									20			40

DATE: 01-10-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense	20	40		40	20		20	80	60			
Ceratium fusus						20						
Ceratium longipes	20			40		20		20				
Ceratium minutum	80	220	200	340	200	600	120	420	280			100
Ceratium sp.					20							
Dinophysis acuminata					20			20	20	40		
Dinophysis norvegica		40	40		60	20						
Dinophysis sp.				20								
Gonyaulax spinifera				20								
Gymnodinium sp.						60						
Peridinium sp.	220		40	60	40	180	140	100	120			20
Peridinium triqueta						80		20				
Prorocentrum micans				20	20	100	20			20		
Scrippsiella trochoidea	300	320	180	1200	540	1640	360	1240	680	140		280
Unarmoured dinoflagellate			20					20	20			
Actinoptychus undulatus		80		80	140	160				20		
Biddulphia regia				40								
Cerataulina pelagica									20			
Chaetoceros teres				20								
Corethron criophilum		20	40	60	20	80	20	80	60	60		
Coscinodiscus sp.	20	40	40	20		40	20			20		
Ditylum brightwelli						60		20				
Fragilaria sp.						20						
Guinardia flaccida				80								
Gyrosigma fasciola			40			20						
Gyrosigma littorale				40			20					
Leptocylindrus minimus		40		100	120	20	20	40		60		
Lycmophora lyngbyei				160		20				60		
Navicula sp.				40	20					20		
Nitzschia closterium		20	140	60	320	200	120	440	20	700		60
Pleurosigma angulatum				40	20							
Pleurosigma formosum										20		
Pleurosigma sp.				40								
Pleurosigma strigosum							20		20			
Pseudonitzschia pseudodelicatissima	120	380	480	340	1640	1600	600	860	220	2400		120
Pseudonitzschia pungens								20				
Rhizosolenia delicatula		20			80			20		40		
Rhizosolenia stolterfothii	120	40		100	80	20		20				
Skeletonema costatum	40	400	380	100	140	180	580	480	240	360		200
Thalassiosira condensata									40			
Thalassiosira sp.		40			40	80				20		

DATE: 01-10-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Thalassiothrix longissima				20	20							
Thalassiothrix nitzschiodes				20	20							
Distephanus speculum	20			180	60	80	80	140	60	20		20
Eutreptia sp.		20			20		60			20		
Favella sp.								20				
Helicostomella sp.						40						
Mesodinium rubrum	520	320	140	200	280	340	120	120	160	260		
Notholca sp.												40
Tintinnids	420	440	140	360	160	500	120	140	160	220		380
Tintinnopsis campanula						20						

DATE: 22-10-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Ceratium fusus										20		
Ceratium minutum		100								220		60
Peridinium sp.		20								80		
Peridinium triqueta		20								20		
Actinoptychus undulatus		60								80		60
Cerataulina pelagica										20		
Chaetoceros debilis										20		
Chaetoceros decipiens										20		
Corethron criophilum		60								40		20
Coscinodiscus sp.										40		
Ditylum brightwelli		60								140		
Leptocylindrus minimus		20								60		20
Navicula sp.		20										20
Nitzschia closterium		280								400		100
Pseudonitzschia pseudodelicatissima		760								1220		200
Pseudonitzschia pungens		40										
Rhabdonema sp.										20		20
Rhizosolenia delicatula		20								140		
Rhizosolenia setigera										40		
Rhizosolenia stolterfothii		60										
Skeletonema costatum		80								80		20
Thalassiosira baltica		20										
Thalassiosira sp.										20		
Distephanus speculum										60		160
Mesodinium rubrum		960								1380		460
Tintinnids		560								640		100

DATE: 15-10-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Ceratium fusus		20										
Ceratium longipes	20	40			20						20	
Ceratium minutum	60	60	20	140	60	60	100	80	100		140	
Dinophysis acuminata			20	20			20	40		40		
Dinophysis norvegica				40		20	20	20			20	
Dinophysis sp.			20									
Gonyaulax spinifera				20		40		40		20		
Peridinium sp.		40	100		20	20	40	60		60	20	
Peridinium triqueta		40		40		20		20	20	40		
Prorocentrum micans	40	80	80	100	20	40	40		60		20	
Scrippsiella trochoidea			20	40		80		60				
Unarmoured dinoflagellate						20		20	40			
Actinoptychus undulatus		240			80		60		100		100	40
Biddulphia obtusa					20							
Chaetoceros borealis			20							20		
Chaetoceros constrictus				20								
Chaetoceros laciniosus											20	
Chaetoceros sp.							20		20			
Corethron criophilum		20	20		60	100	60	60	20	20	120	
Coscinodiscus sp.	40		20		20	20				40		
Ditylum brightwelli			40								20	
Fragilaria sp.							20					
Grammatophora marina						20						
Gyrosigma fasciola							20					
Gyrosigma littorale						20			20	20		
Leptocylindrus danicus				20								
Leptocylindrus minimus					20	20	20	40				20
Lycmophora lyngbyei	20				20		40	20				20
Melosira sp.					20	20						
Navicula sp.	20	20		20						20		
Nitzschia closterium	140	140	120		220	60	400	240	120	160	180	20
Pleurosigma strigosum	20										20	
Pseudonitzschia pseudodelicatissima	440	560	740	660	1080	1320	1220	820	380	2680	1100	80
Pseudonitzschia pungens										40	20	
Rhizosolenia delicatula				60	20	20	20			40		
Rhizosolenia stolterfothii							40					
Skeletonema costatum	40	240	580	20	540	140	260	120	40	220		
Thalassiosira condensata							20					
Thalassiosira sp.		20		40	40		40	20				
Distephanus speculum	40	40	40	420	160	260	320	300	120	40	100	
Eutreptia sp.	40	80		100	40		440	100		20	20	
Mesodinium rubrum	220	880	500	620	300	120	160	200	500	60	40	580
Notholca sp.								20				
Tintinnids	220	560	180	60	100	20	80	100	80	40	100	60

DATE: 08-10-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Alexandrium fundyense		20		40		40		40			40	
Ceratium fusus					40							
Ceratium longipes	40		60		20	40		20		60		
Ceratium minutum	120	220	400	240	440	2380	80	140	460	360	260	
Dinophysis acuminata	20	40	20	40	20	100				20		
Dinophysis norvegica	20	40		40	20	80	20	40	20		20	40
Gonyaulax spinifera	20								20	20		
Gonyaulax triacantha		20										
Gymnodinium sp.	20						20					
Peridinium sp.	40	20	60	80	60	240		20	120	100	40	
Peridinium triqueta	40	20	80	60	80	500	20			160	20	
Prorocentrum micans	20	100	100	20	40	20	20	20	40		40	
Scrippsiella trochoidea	40	60	40	160	80	140	40	120	160	40	80	
Unarmoured dinoflagellate	60				60	20			20			
Actinoptychus undulatus	160	160	40		220		120	160	40	80		40
Biddulphia alternans									60	40		
Cerataulina pelagica				20								
Chaetoceros borealis										20		
Chaetoceros constrictus									40			
Chaetoceros debilis							20					
Chaetoceros furcellatus		20										
Chaetoceros laciniosus							20					
Chaetoceros sp.	20										20	
Corethron criophilum	40	20	40	60	40	20	40	80	140		20	
Coscinodiscus sp.		20	20			80				40		
Ditylum brightwelli	20	40	40	40		80	20					
Guinardia flaccida				20			20					
Gyrosigma sp.							20					
Leptocylindrus minimus	20		40	20	80	20	60	20	20		20	
Lycmophora lyngbyei			20	20	40							
Navicula sp.		40	20	40				40				
Nitzschia closterium	180	140	420	180	220	100	180	60	120	100	80	40
Pleurosigma angulatum							20			20	20	
Pleurosigma strigosum							20					
Pseudonitzschia pseudodelicatissima	1020	1860	2640	1640	2280	620	940	800	420	560	320	60
Pseudonitzschia pungens										60		
Rhizosolenia delicatula	60	60		100	20	80		40		20		80
Rhizosolenia setigera			20					20		20		
Rhizosolenia sp.				20								
Rhizosolenia stolterfothii	100	20						20	20			
Skeletonema costatum	620	920	680	160	360	240	280	160	320	60	40	20
Thalassiosira sp.		20	20	20	20		60	20				
Thalassiothrix nitzschiodes	20		40									
Distephanus speculum	80	20	160	200	280	380	100	160	560	240	100	40
Eutreptia sp.	20			20	20		20					80
Mesodinium rubrum	1580	580	940	440	420	2280	200	140	220	1180	1520	560
Notholca sp.	20										20	
Tintinnids	340	280	360	80	340	520	160	80	60	220	120	100

DATE: 05-11-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Ceratium longipes		20								20		
Ceratium minutum		40								120	100	
Dinophysis acuminata											20	
Peridinium sp.										20	40	
Peridinium triqueta											40	
Prorocentrum micans		20									20	40
Actinoptychus undulatus		60								140	380	20
Biddulphia obtusa										20		
Chaetoceros sp.		20										
Corethron criophilum		20										20
Coscinodiscus sp.		20								20	80	
Ditylum brightwelli		60								100		
Grammatophora marina										20		
Leptocylindrus danicus		20									40	
Melosira monoliformis											20	
Melosira sp.											20	
Navicula sp.												20
Nitzschia closterium		120								20	360	80
Pseudonitzschia pseudodelicatissima		600								640	860	20
Rhizosolenia delicatula		80								80	20	20
Skeletonema costatum												20
Thalassiosira condensata										20		
Thalassiosira gravida											20	
Distephanus speculum		180									20	40
Favella sp.											20	
Mesodinium rubrum		420								360	720	1360
Tintinnids		100								40	40	80

DATE: 19-11-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Ceratium minutum		40										
Peridinium sp.		20								20	40	80
Prorocentrum micans												
Actinoptychus undulatus											20	
Chaetoceros sp.		20								20		
Corethron criophilum												
Coscinodiscus sp.										20		
Ditylum brightwelli										40	60	40
Grammatophora marina											20	
Leptocylindrus minimus										20		
Navicula sp.		20								20		
Nitzschia closterium		240										
Pleurosigma angulatum										20	160	100
Pleurosigma strigosum										20		
Pseudonitzschia pseudodelicatissima		580									20	
Rhabdonema sp.		20								660	420	440
Rhizosolenia alata		20										
Rhizosolenia delicatula		40										
Rhizosolenia setigera										40	40	
Rhizosolenia stolterfothii		20										20
Skeletonema costatum												
Thalassiosira condensata		20									20	
Acartia sp.		20									20	20
Distephanus speculum		40										
Eutreptia sp.		20								20		
Mesodinium rubrum		60										
Notholca sp.										20	760	340
Tintinnids		20								20	20	
										20	80	140

DATE: 10-12-91

ORGANISM	STATION NUMBER 1	3	5	7	8	9	11	13	14	15	16	17
Ceratium fusus										20		
Ceratium minutum		20								60		
Dinophysis acuminata										20		
Peridinium sp.										20		
Prorocentrum micans												20
Chaetoceros convolutus											20	
Corethron criophilum										40	20	40
Coscinodiscus sp.										40		
Ditylum brightwelli												20
Grammatophora marina		20										
Leptocylindrus minimus		80								20		
Lycmophora lyngbyei		40										
Melosira monoliformis		60										
Navicula sp.		20									40	
Nitzschia closterium		140								100	500	280
Pleurosigma angulatum		20									20	
Pseudonitzschia pseudodelicatissima		380								780	800	520
Rhizosolenia delicatula		60										
Rhizosolenia stolterfothii											40	
Thalassiosira baltica												20
Distephanus speculum										20		
Mesodinium rubrum		20								80	80	80
Notholca sp.										20		
Tintinnids										40	80	240

DATE: 07-01-92

ORGANISM	STATION NUMBER 3	15	16	17
Ceratium minutum		140		
Dinophysis acuminata		40		
Peridinium sp.		20		
Unarmoured dinoflagellate		60		
Biddulphia obtusa		20		
Corethron criophilum		20	20	
Ditylum brightwelli		20		40
Leptocylindrus minimus			20	
Navicula sp.	20		20	
Nitzschia closterium	120	140	100	160
Pseudonitzschia pseudodelicatissima	960	880	320	260
Rhizosolenia delicatula	20			
Skeletonema costatum	20		20	20
Distephanus speculum	20	60		
Mesodinium rubrum		2380	680	80
Salpingella sp.		20		
Tintinnids	20	700	20	

DATE: 11-02-92

ORGANISM	STATION NUMBER 3	15	16	17
Peridinium sp.		20		
Corethron criophilum				20
Ditylum brightwelli		20		
Fragilaria sp.	120	20		
Grammatophora marina		20		
Lycmophora lyngbyei	20			
Melosira ambigua	40			40
Navicula sp.	20	20		20
Nitzschia closterium	20	20		140
Pseudonitzschia pseudodelicatissima		560		840
Pseudonitzschia pungens	680			
Rhabdonema sp.	20			
Rhizosolenia setigera	20			
Skeletonema costatum	20			20
Tabellaria sp.				140
Distephanus speculum	20	20		
Mesodinium rubrum	260	220		
Tintinnids	60	20		40

DATE: 31-03-92

ORGANISM	STATION NUMBER 3	15	16	17
Ceratium minutum		20		
Biddulphia sp.				40
Chaetoceros debilis		20		
Chaetoceros sp.	40		80	80
Coscinosira polychorda		20		
Fragilaria sp.	40	40		
Gyrosigma fasciola	20			
Leptocylindrus minimus			20	
Lycmophora lyngbyei	20			
Melosira ambigua			20	
Navicula sp.	20			
Nitzschia closterium	120	20		20
Pseudonitzschia pseudodelicatissima	1920	1000	1660	140
Rhabdonema sp.			20	
Rhizosolenia setigera		20		
Skeletonema costatum	60		20	
Thalassiosira condensata	20			
Thalassiosira gravida	100		40	
Thalassiosira nordenskioeldii	20	20		
Thalassiosira sp.	160		20	40
Dinobryon				60
Distephanus speculum		20	20	
Mesodinium rubrum	20		100	800

DATE: 14-04-92

ORGANISM	STATION NUMBER 3	15	16	17
Alexandrium fundyense				20
Ceratium longipes			20	
Peridinium sp.	20	40	20	20
Biddulphia aurita		60		20
Chaetoceros constrictus		40	160	
Chaetoceros debilis		20	20	
Chaetoceros sp.	400	440	500	340
Chaetoceros teres		20		
Coscinodiscus sp.		20		
Lycmophora lyngbyei		20		
Melosira monoliformis			20	
Navicula sp.	20	20		
Nitzschia closterium				100
Pseudonitzschia pseudodelicatissima	620	1200	520	160
Skeletonema costatum		20		
Thalassiosira gravida	20	40	120	
Thalassiosira nordenskioeldii	860	1900	2000	860
Thalassiosira sp.			20	
Mesodinium rubrum		80	20	780
Notholca sp.				20
Tintinnids	20			

DATE: 22-04-92	STATION NUMBER			
ORGANISM	3	15	16	17
Dinophysis acuminata			20	
Peridinium sp.		200		
Biddulphia aurita	20			
Chaetoceros constrictus	40	20		20
Chaetoceros convolutus		20		
Chaetoceros debilis	100	80	40	20
Chaetoceros sp.	2300	400	660	1520
Chaetoceros teres	20		20	
Corethron criophilum	20			
Coscinodiscus sp.	20			
Coscinosira polychorda	100		40	
Ditylum brightwelli		20		
Gyrosigma tennuissimum	20			
Leptocylindrus minimus	60	40		
Lycmophora lyngbyei				20
Melosira ambigua	20			
Melosira monoliformis		40		
Navicula sp.	80			40
Nitzschia closterium	80		20	
Pseudonitzschia pseudodelicatissima	3720	2420	2640	200
Rhizosolenia setigera		20		
Skeletonema costatum	60	120	100	20
Thalassiosira decipiens		20		40
Thalassiosira gravida	320	320	180	240
Thalassiosira nordenskioeldii	10740	1400	960	5380
Thalassiosira sp.		60		
Mesodinium rubrum	260	20	60	140
Tintinnids	20		20	20

DATE: 05-05-92	STATION NUMBER			
ORGANISM	3	15	16	17
Alexandrium fundyense	40		80	100
Peridinium sp.	160	200	240	
Unarmoured dinoflagellate	80			100
Asterionella kariana	40	40		
Chaetoceros compressus			160	
Chaetoceros constrictus			80	
Chaetoceros debilis	80		40	400
Chaetoceros sp.	5720	400	3440	25200
Chaetoceros teres				100
Coscinodiscus sp.			40	
Coscinosira polychorda	80	80	80	100
Fragilaria sp.	80		40	
Leptocylindrus minimus	160	120	320	
Lycmophora lyngbyei	40			
Melosira ambigua	40			
Navicula sp.	80	80		
Nitzschia closterium	160		40	
Pseudonitzschia pseudodelicatissima	3000	4160	6160	5600
Skeletonema costatum	320	120	160	100
Thalassiosira decipiens			40	100
Thalassiosira gravida	1840	640	1080	800
Thalassiosira nordenskioeldii	12640	4080	9640	84400
Thalassiosira sp.	200	80		
Eutreptia sp.			40	
Mesodinium rubrum	680	280	880	600
Tintinnids	40	40	80	

DATE: 19-05-92	STATION NUMBER			
ORGANISM	3	15	16	17
Alexandrium fundyense	80	100	140	
Peridinium sp.	200	700	140	200
Scrippsiella trochoidea			20	
Unarmoured dinoflagellate	40			100
Chaetoceros compressus				100
Chaetoceros constrictus	40	100	20	
Chaetoceros debilis	80		80	300
Chaetoceros furcellatus	280	200	860	400
Chaetoceros socialis			20	
Chaetoceros sp.	2880	2100	2720	20900
Chaetoceros teres				300
Coscinosira polychorda			20	
Eucampia sp.	40			
Leptocylindrus minimus	240	200	60	
Navicula sp.	120		80	100
Nitzschia closterium	40		20	
Pseudonitzschia pseudodelicatissima	5280	10400	3080	4700
Rhizosolenia fragillima			100	
Skeletonema costatum	40	100	40	100
Thalassiosira decipiens		100		
Thalassiosira gravida	1160	2400	1380	300
Thalassiosira nordenskioeldii	39840	68800	17780	21500
Eutreptia sp.		100		
Mesodinium rubrum	480	100	40	400
Tintinnids	120			100

DATE: 26-05-92	STATION NUMBER			
ORGANISM	3	15	16	17
Alexandrium fundyense	120	320	160	200
Ceratium longipes			20	
Dinophysis norvegica			20	
Gymnodinium sp.				500
Peridinium sp.	600	1400	360	700
Peridinium triqueta		40		
Scrippsiella trochoidea			20	
Unarmoured dinoflagellate				200
Chaetoceros compressus			20	
Chaetoceros constrictus		40		
Chaetoceros convolutus		40		
Chaetoceros debilis	280	120	80	800
Chaetoceros furcellatus	40		140	400
Chaetoceros sp.	3400	3400	620	40300
Coscinodiscus sp.		40		
Coscinosira polychorda			20	
Eucampia zoodiacus			60	
Leptocylindrus danicus				100
Leptocylindrus minimus	280	320	20	700
Melosira ambigua		80		
Navicula sp.	40	40	40	
Nitzschia closterium		40	20	100
Porosira glacialis		80		
Pseudonitzschia pseudodelicatissima	3200	5320	3340	11300
Rhabdonema sp.			20	
Rhizosolenia hebetata		40	20	
Skeletonema costatum	120	280	20	
Thalassiosira gravida	200	240	280	
Thalassiosira nordenskioeldii	53040	35360	28480	6000
Thalassiosira sp.			40	100
Acartia sp.		40		
Brachionus sp.				100
Distephanus speculum	40	80	20	
Eutreptia sp.			60	
Mesodinium rubrum	440	1000	820	1800
Tintinnids	40	80	100	600

DATE: 09-06-92	STATION NUMBER			
ORGANISM	3	15	16	17
Alexandrium fundyense	280	40	540	460
Ceratium longipes	20			
Ceratium minutum	20			
Ceratium sp.			20	
Dinophysis sp.			20	
Peridinium sp.	180	200	380	660
Peridinium triqueta	20	20	60	
Scrippsiella trochoidea	40	20		60
Chaetoceros compressus	320	20		40
Chaetoceros constrictus	20		40	
Chaetoceros debilis	340	120	200	520
Chaetoceros decipiens			20	
Chaetoceros diadema	20			
Chaetoceros didymus				20
Chaetoceros furcellatus	60			
Chaetoceros laciniosus	60	20	140	
Chaetoceros sp.	700	120	380	180
Chaetoceros teres			160	
Coscinodiscus sp.				20
Coscinosira polychorda	20			
Eucampia sp.				60
Eucampia zoodiacus	40			
Fragilaria sp.	20	20		
Leptocylindrus danicus			20	380
Leptocylindrus minimus	260	140	100	480
Navicula sp.	20	20	20	20
Nitzschia closterium				20
Pleurosigma formosum		40		
Pseudonitzschia pseudodelicatissima	60	20	220	1020
Pseudonitzschia pungens			140	20
Rhizosolenia fragillima	40	40		140
Skeletonema costatum	40			
Thalassiosira decipiens		20		
Thalassiosira gravida	40	20		
Thalassiosira nordenskioeldii	6460	4260	14060	20
Thalassiosira sp.	20	20		
Brachionus sp.		20		80
Distephanus speculum	40			
Euglena sp.				40
Eutreptia sp.	240	80	620	220
Helicostomella sp.				40
Mesodinium rubrum	920	140	1400	2960
Notholca sp.	40			
Parafavella sp.			20	
Ptychocylis sp.	20			
Tintinnids	120	140	260	500

DATE: 16-06-92	STATION NUMBER			
ORGANISM	3	15	16	17
Alexandrium fundyense	220	80	200	80
Alexandrium (duplet)	40		40	
Ceratium longipes			20	
Dinophysis norvegica	20			
Peridinium sp.	200	20	120	160
Peridinium triqueta	60	80	60	
Scrippsiella trochoidea	100			20
Chaetoceros compressus	680	880	860	40
Chaetoceros constrictus	140	80	140	
Chaetoceros convolutus				20
Chaetoceros debilis	740	1000	740	380
Chaetoceros decipiens	60	100	60	
Chaetoceros didymus	20			
Chaetoceros furcellatus	40			
Chaetoceros laciniosus	160	60	140	
Chaetoceros socialis	40			
Chaetoceros sp.	1820	2180	1040	260
Chaetoceros teres	120		40	60
Coscinosira polychorda	20	20		
Eucampia sp.	40	100		
Eucampia zoodiacus	80	100		
Leptocylindrus danicus		160	260	60
Leptocylindrus minimus	460	640	120	500
Lycmophora lyngbyei		60		
Navicula sp.	20	20		60
Nitzschia closterium				60
Pleurosigma angulatum	20			
Pseudonitzschia pseudodelicatissima	360	180	100	1420
Pseudonitzschia pungens	20	120		40
Rhizosolenia fragillima	20	80	80	80
Rhizosolenia hebetata	20		40	
Rhizosolenia sp.	20			
Skeletonema costatum			40	
Thalassiosira condensata	40			
Thalassiosira gravida	60			
Thalassiosira nordenskioeldii	3860	1300	5880	
Thalassiosira sp.	240	20	40	20
Brachionus sp.	20			20
Distephanus speculum		20		
Eutreptia sp.	120		40	
Mesodinium rubrum	1360		480	400
Tintinnids	320	20	80	260

DATE: 24-06-92	STATION NUMBER			
ORGANISM	3	15	16	17
Alexandrium fundyense	1300	4220	180	120
Alexandrium (duplet)	60	440		
Alexandrium (fusing)	20			
Alexandrium (quadruplet)	20	20		
Alexandrium (triplet)	20	20		
Ceratium longipes	20	120	60	
Dinophysis acuminata		20		
Dinophysis sp.		100		
Gonyaulax triacantha	20			40
Peridinium depressum			20	
Peridinium sp.	460	720	20	20
Peridinium triqueta	60	220	20	
Scrippsiella trochoidea		640	20	20
Cerataulina pelagica				20
Chaetoceros compressus	960	820	1460	60
Chaetoceros constrictus	300	100	660	40
Chaetoceros convolutus	20			
Chaetoceros debilis	800	940	1060	600
Chaetoceros decipiens		20	60	
Chaetoceros didymus	40	20	20	
Chaetoceros laciniosus	240	220	180	40
Chaetoceros socialis			120	
Chaetoceros sp.	1180	920	1400	280
Chaetoceros teres	20			40
Coscinodiscus sp.	20			
Eucampia sp.	120		120	
Eucampia zoodiacus		80	40	20
Guinardia flaccida				20
Leptocylindrus danicus	180	180	120	3420
Leptocylindrus minimus	380	220	160	2560
Lycmophora lyngbyei		60		
Navicula sp.			20	20
Nitzschia closterium			60	
Pseudonitzschia pseudodelicatissima	40	100	100	1000
Pseudonitzschia pungens			80	
Rhizosolenia fragillima	80	100	100	120
Rhizosolenia hebetata	20			20
Rhizosolenia sp.	20			
Thalassiosira decipiens			20	
Thalassiosira nordenskioeldii	260	1080	1000	20
Thalassiosira sp.	20	80	240	
Distephanus speculum	20	80	80	60
Eutreptia sp.	780	440	80	120
Helicostomella sp.				20
Mesodinium rubrum	700	11480	880	6740
Parafavella sp.	40	20	40	
Ptychocylis sp.		20		
Tintinnids	120	480	80	620

DATE: 30-06-92	STATION NUMBER			
ORGANISM	3	15	16	17
Alexandrium fundyense	640	2920		180
Alexandrium (duplet)	40	80		20
Ceratium longipes	80			
Dinophysis acuminata		120		
Dinophysis acuta		40		
Dinophysis norvegica		80		
Dinophysis sp.	20			
Peridinium sp.	560	1920		20
Peridinium triqueta		120		
Scrippsiella trochoidea	200	480		40
Cerataulina pelagica				40
Chaetoceros compressus	8600	10920		
Chaetoceros constrictus	1840	2400		60
Chaetoceros convolutus	20			
Chaetoceros debilis	3880	5480		160
Chaetoceros decipiens	20			
Chaetoceros diadema	20			
Chaetoceros didymus	20			
Chaetoceros furcellatus	20			
Chaetoceros laciniosus	280	360		
Chaetoceros lorenzianus		80		
Chaetoceros sp.	6480	9240		100
Chaetoceros teres		80		
Coscinodiscus sp.				20
Coscinosira polychorda		80		
Eucampia sp.	220	160		20
Eucampia zoodiacus	140			
Grammatophora marina		80		
Leptocylindrus danicus	580	1080		5300
Leptocylindrus minimus	300	360		1980
Navicula sp.	60	120		40
Nitzschia closterium	100	360		600
Pseudonitzschia pseudodelicatissima	260	80		2560
Pseudonitzschia pungens		40		
Rhizosolenia fragillima	60	40		
Rhizosolenia hebetata		80		20
Skeletonema costatum	200	160		80
Thalassiosira nordenskioeldii	3440	5000		
Thalassiosira sp.	360	640		
Thalassiothrix longissima		40		
Dinobryon				20
Distephanus speculum	40	40		
Eutreptia sp.	40	280		40
Helicostomella sp.				20
Mesodinium rubrum	540	1920		420
Parafavella sp.	20			
Tintinnids	260	240		120

DATE: 07-07-92	STATION NUMBER			
ORGANISM	3	15	16	17
Alexandrium fundyense	580	3080	280	160
Alexandrium (fusing)				20
Ceratium longipes	20	120	20	
Ceratium sp.	20			
Dinophysis acuminata	20	120	40	40
Dinophysis norvegica		160	40	40
Peridinium depressum		40	40	
Peridinium limbatum		40		
Peridinium sp.	580	3880	580	320
Peridinium triqueta		400		40
Scrippsiella trochoidea	380	600	80	20
Chaetoceros compressus	2880	4000	10880	60
Chaetoceros constrictus	1660	1000	2240	40
Chaetoceros convolutus	40			
Chaetoceros debilis	1260	1080	5200	
Chaetoceros didymus			20	
Chaetoceros laciniosus	40	40	20	
Chaetoceros lorenzianus	20			
Chaetoceros sp.	4360	5600	9600	160
Coscinosira polychorda	60	120	40	
Ditylum brightwelli			20	
Fragilaria sp.	20	40		
Leptocylindrus danicus	660	280	880	780
Leptocylindrus minimus	260	240	300	60
Lycmophora lyngbyei	20	40		
Navicula sp.	20	80	20	60
Nitzschia closterium	20		180	320
Pleurosigma angulatum				40
Pseudonitzschia pseudodelicatissima	360	160	500	660
Pseudonitzschia pungens	40	40	60	80
Rhizosolenia fragillima	20		20	
Rhizosolenia hebetata		40		
Rhizosolenia sp.				20
Skeletonema costatum	340	200	480	
Thalassiosira decipiens			20	
Thalassiosira gravida		40		
Thalassiosira nordenskioeldii	40	40	20	
Thalassiosira sp.	60	80	200	
Distephanus speculum	60		20	
Eutreptia sp.	20	520		60
Helicostomella sp.	40	200		80
Mesodinium rubrum	100	520	420	1220
Ptychocylis sp.	20			
Tintinnids	80	280	180	200

DATE: 14-07-92	STATION NUMBER			
ORGANISM	3	15	16	17
Alexandrium fundyense	220	4280	460	
Alexandrium (duplet)	40	520	20	
Ceratium longipes	20	320	80	20
Dinophysis acuminata		40		
Dinophysis norvegica	20			
Dinophysis sp.	60	40	20	
Peridinium depressum	20		40	
Peridinium sp.	320	1360	180	20
Peridinium triqueta		240		
Scrippsiella trochoidea	60	1200	160	
Chaetoceros altanticus	20			
Chaetoceros compressus	1800	2200	1120	
Chaetoceros constrictus	2680	3240	2880	20
Chaetoceros convolutus	20			
Chaetoceros debilis	1740	1360	1380	
Chaetoceros decipiens	20		40	
Chaetoceros laciniosus		200	100	
Chaetoceros sp.	4340	3280	2240	60
Coscinodiscus sp.	20			
Coscinosira polychorda	120	440	140	
Ditylum brightwelli	60	160	120	
Eucampia zoodiacus		40		
Gyrosigma fasciola				20
Leptocylindrus danicus	1020	880	60	
Leptocylindrus minimus	240	120	80	40
Navicula sp.	20		20	20
Nitzschia closterium	120	40	120	80
Pseudonitzschia pseudodelicatissima	680	960	680	100
Pseudonitzschia pungens	40	120	40	
Rhizosolenia hebetata	40	40		
Skeletonema costatum	700	1240	920	40
Thalassiosira gravida	40			
Thalassiosira sp.	520	560	620	
Thalassiothrix nitzschiodes		40		
Distephanus speculum	60	320	120	
Eutreptia sp.	40	200	60	
Helicostomella sp.			20	100
Mesodinium rubrum	880	40	2580	80
Parafavella sp.	20		20	
Ptychocylis sp.	20			
Tintinnids	420	680	300	880

DATE: 21-07-92	STATION NUMBER			
ORGANISM	3	15	16	17
Alexandrium fundyense	4200	20080	6800	160
Alexandrium (duplet)	60	480	120	
Alexandrium (fusing)	20			
Ceratium longipes	140	1000	200	80
Dinophysis acuminata	40	40	80	
Dinophysis norvegica	60	160	40	
Dinophysis sp.	40	440	40	40
Gonyaulax spinifera			80	
Gonyaulax triacantha		40		
Peridinium depressum	20		40	
Peridinium sp.	2300	9120	2440	240
Peridinium triqueta	720	5760	40	40
Scrippsiella trochoidea	1100	920	1120	40
Cerataulina pelagica				40
Chaetoceros constrictus	140	600	120	3120
Chaetoceros convolutus	20			
Chaetoceros debilis	220	480	2440	400
Chaetoceros decipiens			40	
Chaetoceros laciniosus	40	240	160	120
Chaetoceros sp.	3140	9080	14120	13600
Coscinosira polychorda			40	
Leptocylindrus danicus	20	280	520	40
Leptocylindrus minimus	120	40	120	80
Lycmophora lyngbyei			40	
Navicula sp.	40			
Nitzschia closterium	80	160	560	760
Pseudonitzschia pseudodelicatissima	200	1680	1000	9280
Pseudonitzschia pungens	220	80	400	
Rhizosolenia hebetata			80	200
Skeletonema costatum				160
Thalassiothrix nitzschiodes			40	
Acartia sp.	20		40	
Brachionus sp.	40	40		
Distephanus speculum	540	3360	2320	560
Eutreptia sp.	280	520	520	1120
Favella sp.	100	40		80
Helicostomella sp.	900	40	240	1000
Mesodinium rubrum	3360	9920	17080	9880
Parafavella sp.			40	
Tintinnids	480	240	560	4080

DATE: 28-07-92	STATION NUMBER			
ORGANISM	3	15	16	17
Alexandrium fundyense	480	5040	4600	460
Alexandrium (duplet)	120		720	
Alexandrium (fusing)			40	
Ceratium longipes	240	400	440	40
Dinophysis acuminata	160	120	440	
Dinophysis norvegica	40	40		
Dinophysis sp.			40	40
Gonyaulax spinifera	40	160		
Gonyaulax triacantha				20
Peridinium sp.	560	3640	1560	720
Peridinium triqueta		2440	360	140
Scrippsiella trochoidea	120	3680	640	200
Cerataulina pelagica	80		40	460
Chaetoceros compressus			200	80
Chaetoceros constrictus	3880	4320	8440	60
Chaetoceros convolutus			40	
Chaetoceros debilis	1880	1360	6120	160
Chaetoceros laciniosus	200	160	40	20
Chaetoceros sp.	17840	11120	22600	1360
Corethron criophilum			40	
Ditylum brightwelli	80			
Leptocylindrus danicus	40	40	160	
Leptocylindrus minimus	160	40	1960	120
Lycmophora lyngbyei		80		
Navicula sp.		40		
Nitzschia closterium	40	120	360	460
Pseudonitzschia pseudodelicatissima	920	1320	2080	7360
Pseudonitzschia pungens	280	80	320	
Rhizosolenia delicatula			40	40
Rhizosolenia hebetata			80	
Skeletonema costatum		40		14040
Thalassiosira nordenskioeldii				20
Thalassiosira sp.			40	60
Thalassiothrix longissima		80		
Thalassiothrix nitzschiodes			40	40
Brachionus sp.	40	200	40	
Distephanus speculum	200	360	640	920
Eutreptia sp.	40	40	120	40
Favella sp.		200	40	60
Helicostomella sp.	920	400	680	860
Mesodinium rubrum	1880	15120	12800	8520
Ptychocylis sp.				20
Salpingella sp.	40			
Tintinnids	280	840	1000	1000

DATE: 04-08-92	STATION NUMBER			
ORGANISM	3	15	16	17
Alexandrium fundyense	120	60	280	100
Ceratium longipes	60	40	160	
Dinophysis acuminata	40	20	240	
Dinophysis norvegica	20	20	160	20
Dinophysis sp.	20			
Gonyaulax triacantha		20		
Peridinium sp.	60	220	600	200
Peridinium triqueta	20	20	160	140
Scrippsiella trochoidea	40		240	
Cerataulina pelagica	20	160	40	60
Chaetoceros constrictus		440	80	
Chaetoceros debilis	20	420	1280	40
Chaetoceros decipiens		40	80	
Chaetoceros laciniosus	20	240	280	40
Chaetoceros sp.	760	4500	5880	160
Coscinodiscus sp.	40	60		20
Coscinosira polychorda			120	
Ditylum brightwelli		60	80	20
Gyrosigma littorale		20		
Leptocylindrus danicus	120	40	320	
Leptocylindrus minimus	140	100	600	180
Lycmophora lyngbyei		20		
Navicula sp.		40	40	20
Nitzschia closterium	540	2020	4440	740
Pleurosigma angulatum				20
Pseudonitzschia pseudodelicatissima	1520	2880	6040	2240
Pseudonitzschia pungens	240	740	1920	40
Pseudonitzschia seriata			40	
Rhizosolenia delicatula		20	280	260
Skeletonema costatum	100	20	240	3400
Thalassiosira sp.			80	
Thalassiothrix nitzschiodes		20		
Acartia sp.		120		
Brachionus sp.			120	
Distephanus speculum	340	280	480	340
Eutreptia sp.	20	80	40	20
Helicostomella sp.	680	900	1440	80
Mesodinium rubrum	5640	580	3520	19460
Tintinnids	760	60	200	640

DATE: 11-08-92	STATION NUMBER			
ORGANISM	3	15	16	17
Alexandrium fundyense	1060	6600	520	120
Alexandrium (fusing)		40		
Ceratium longipes	240	640	260	
Ceratium minutum	20			
Dinophysis acuminata	100	600	120	
Dinophysis norvegica	40	120	120	
Dinophysis rotundata			20	
Dinophysis sp.	40	200	180	
Gonyaulax spinifera	60	440	40	80
Gonyaulax triacantha	80	40	80	
Gymnodinium sp.			200	40
Peridinium sp.	920	8080	2360	500
Peridinium triqueta	1100	10720	2240	2120
Scrippsiella trochoidea	460	1840	520	80
Unarmoured dinoflagellate			1000	
Cerataulina pelagica				400
Chaetoceros debilis	60			
Chaetoceros laciniosus	20		20	
Chaetoceros simplex				380
Chaetoceros sp.	240	40	100	380
Coscinodiscus sp.	40		40	40
Coscinosira polychorda	40		40	
Ditylum brightwelli	20		20	40
Eucampia zoodiacus				40
Fragilaria sp.	40			
Leptocylindrus minimus	160	240	140	1160
Lycmophora lyngbyei	420			
Melosira monoliformis			20	20
Navicula sp.	20			
Nitzschia closterium	40	40	320	580
Pleurosigma angulatum				20
Pseudonitzschia pseudodelicatissima	1860	1040	1500	3100
Pseudonitzschia pungens	260	240	100	140
Rhizosolenia delicatula	60	120	120	740
Skeletonema costatum	60		20	21180
Thalassiosira nordenskioeldii				20
Thalassiosira sp.		120	40	20
Thalassiothrix longissima	60	40		
Thalassiothrix nitzschiodes			20	40
Acartia sp.	20	80	100	
Brachionus sp.	40	120	60	
Distephanus speculum	460	2400	880	640
Eutreptia sp.	300	1040	440	320
Favella sp.	200	400	240	
Helicostomella sp.	2040	3760	1740	80
Mesodinium rubrum	9680	62020	21360	12260
Tintinnids	760	1000	940	280

DATE: 18-08-92	STATION NUMBER			
ORGANISM	3	15	16	17
Alexandrium fundyense	1500	2360	4760	60
Alexandrium (duplet)			60	
Alexandrium (fusing)			20	
Alexandrium (planozygote)		40	20	
Ceratium fusus		120		
Ceratium longipes	520	560	640	40
Ceratium minutum	20			
Dinophysis acuminata	1140	1520	620	
Dinophysis acuta	60			
Dinophysis norvegica	280	240	200	
Dinophysis sp.		40	80	
Gonyaulax spinifera	420	960	40	
Gonyaulax triacantha	40	240	40	
Gymnodinium sp.	160		280	
Peridinium sp.	1840	2080	1620	160
Peridinium triqueta	2940	1440	740	40
Scrippsiella trochoidea	420	120	420	20
Unarmoured dinoflagellate	900		480	80
Cerataulina pelagica	20			40
Chaetoceros decipiens				20
Chaetoceros laciniosus			80	
Chaetoceros simplex	20			2280
Chaetoceros sp.	60	40	100	40
Coscinodiscus sp.	40	40	100	80
Ditylum brightwelli			40	40
Fragilaria sp.			20	40
Guinardia flaccida				60
Leptocylindrus minimus	40		80	1000
Lycmophora lyngbyei	20			60
Navicula sp.	20			
Nitzschia closterium	180	120	260	200
Pseudonitzschia pseudodelicatissima	320	240	440	280
Pseudonitzschia pungens		120	260	60
Rhizosolenia delicatula	1700	1960	2520	760
Rhizosolenia hebetata				20
Skeletonema costatum	40		40	3060
Thalassiosira nordenskioeldii				20
Thalassiosira sp.			40	20
Thalassiothrix nitzschiodes	40		20	
Acartia sp.	60	240	20	20
Brachionus sp.	80	120	100	
Distephanus speculum	300	360	180	260
Eutreptia sp.	100			200
Favella sp.	60	640	60	
Helicostomella sp.	1540	8000	260	
Mesodinium rubrum	4280	16200	6560	3020
Tintinnids	2080	1120	1060	620

DATE: 24-08-92	STATION NUMBER			
ORGANISM	3	15	16	17
Alexandrium fundyense	100	180	200	
Ceratium longipes	80	200	900	80
Ceratium minutum			40	20
Dinophysis acuminata	40		140	40
Dinophysis norvegica	100		180	80
Dinophysis rotundata			20	
Dinophysis sp.	40	20	140	
Gonyaulax spinifera	180	220	120	20
Gonyaulax triacantha				20
Gymnodinium sp.			140	40
Peridinium sp.	360	340	760	40
Peridinium triqueta	220	480	520	
Scrippsiella trochoidea	60	120	120	
Unarmoured dinoflagellate	100		580	60
Cerataulina pelagica		20		60
Chaetoceros constrictus				40
Chaetoceros simplex			40	2840
Chaetoceros sp.	60	40	60	40
Coscinodiscus sp.	40	40	40	20
Ditylum brightwelli			40	
Fragilaria sp.		20		
Leptocylindrus minimus	20		20	360
Lycmophora lyngbyei	40	40		20
Nitzschia closterium	40	20	40	180
Pseudonitzschia pseudodelicatissima	120	80	80	120
Pseudonitzschia pungens		20	80	
Rhizosolenia delicatula	900	4520	4400	1520
Skeletonema costatum				660
Acartia sp.	20		40	
Distephanus speculum	140	360	900	680
Eutreptia sp.	160		40	
Favella sp.				20
Helicostomella sp.	260	220	520	140
Mesodinium rubrum	12240	620	5660	2300
Salpingella sp.			20	
Tintinnids	260	80	100	480

DATE: 31-08-92	STATION NUMBER			
ORGANISM	3	15	16	17
Alexandrium fundyense	1320	2000	8880	
Alexandrium (duplet)			120	
Alexandrium (fusing)			20	
Alexandrium (planozygote)	40	40	260	
Ceratium longipes	100	220	400	20
Ceratium minutum		20	20	
Ceratium sp.		20		
Ceratium tripos		20	40	
Dinophysis acuminata	100	280	160	
Dinophysis norvegica		160	80	
Dinophysis sp.	40			
Gonyaulax spinifera	60	140	160	20
Gymnodinium sp.	60	40	100	
Peridinium depressum			20	
Peridinium sp.	280	500	1180	20
Peridinium triqueta	460	2180	4520	
Prorocentrum micans	20			
Scrippsiella trochoidea	80	120	600	
Unarmoured dinoflagellate	100	80	320	
Cerataulina pelagica			20	
Chaetoceros compressus			20	
Chaetoceros constrictus			40	
Chaetoceros lorenzianus			20	
Chaetoceros sp.	20		100	20
Coscinodiscus sp.	40			20
Ditylum brightwelli	20	80	560	20
Fragilaria sp.				20
Guinardia flaccida				80
Gyrosigma tennuissimum	20			
Leptocylindrus minimus	40	40	140	20
Lycmophora lyngbyei	20	40	20	
Navicula sp.				20
Nitzschia closterium	160	80	140	120
Pseudonitzschia pseudodelicatissima	140	40		20
Pseudonitzschia pungens	120	620	1780	
Rhizosolenia delicatula	39160	104440	93020	940
Rhizosolenia setigera	40		20	
Skeletonema costatum				60
Thalassiosira sp.		20		
Thalassiothrix nitzschiodes				20
Acartia sp.	20	60		20
Brachionus sp.		20	20	
Distephanus speculum	500	80	200	60
Eutreptia sp.	340	40		20
Favella sp.		40		
Helicostomella sp.	60	180	20	40
Mesodinium rubrum	1520	720	1460	780
Tintinnids	160	80	280	180

DATE: 14-09-92	STATION NUMBER			
ORGANISM	3	15	16	17
Alexandrium fundyense	20			
Ceratium fusus	20		60	
Ceratium longipes	40	60	280	
Ceratium minutum	60	20	140	40
Ceratium tripos		80	80	
Dinophysis acuminata	100	120	800	40
Dinophysis norvegica	60	120	360	40
Dinophysis sp.	40	20		20
Gonyaulax spinifera	20	80	220	60
Gonyaulax triacantha			20	
Gymnodinium sp.	160		320	60
Peridinium depressum	40			
Peridinium sp.	80	700	620	80
Peridinium triqueta	180	1240	560	
Prorocentrum sp. "a"			20	
Scrippsiella trochoidea	20	520	120	
Unarmoured dinoflagellate	120	20	280	160
Chaetoceros lorenzianus		20		
Chaetoceros socialis	20	60	360	
Chaetoceros sp.		180		
Coscinodiscus sp.	40		40	120
Ditylum brightwelli	20	20		
Guinardia flaccida				20
Leptocylindrus minimus	120	260	160	20
Nitzschia closterium	140	100	40	
Pseudonitzschia pseudodelicatissima	20	40	100	
Pseudonitzschia pungens				20
Rhizosolenia delicatula	140	520	480	80
Skeletonema costatum			20	40
Thalassiosira sp.	20			
Distephanus speculum	100	200	480	1420
Eutreptia sp.	60	240	120	
Favella sp.	40			
Helicostomella sp.		20	60	260
Mesodinium rubrum	1180	1540	8680	4440
Tintinnids	380	20	120	100

DATE: 21-09-92	STATION NUMBER			
ORGANISM	3	15	16	17
Ceratium fusus	20			
Ceratium longipes	20	60	40	60
Ceratium minutum	20		140	580
Ceratium tripos			120	20
Dinophysis acuminata		120	120	20
Dinophysis norvegica	60	60	180	80
Dinophysis rotundata				20
Gonyaulax spinifera			20	
Gonyaulax triacantha			20	20
Gymnodinium sp.	20	20	160	
Peridinium sp.	120	80	620	40
Peridinium triqueta	140	160	2500	140
Scrippsiella trochoidea		20	260	
Unarmoured dinoflagellate	20			
Chaetoceros lorenzianus				20
Chaetoceros sp.		40		
Coscinodiscus sp.		20		160
Ditylum brightwelli		20		
Leptocylindrus danicus			40	
Leptocylindrus minimus	20	40	260	40
Lycmophora lyngbyei		40		
Navicula sp.		20		
Nitzschia closterium		60	180	
Pleurosigma strigosum	20			
Pseudonitzschia pseudodelicatissima			120	
Pseudonitzschia pungens				20
Rhizosolenia delicatula			160	
Skeletonema costatum				20
Thalassiosira sp.				20
Distephanus speculum	140	400	960	1220
Eutreptia sp.	540	60	140	
Favella sp.				20
Helicostomella sp.	40	20	20	400
Mesodinium rubrum	2080	700	12100	12220
Tintinnids				20

DATE: 28-09-92	STATION NUMBER			
ORGANISM	3	15	16	17
Ceratium fusus	20	60	60	
Ceratium longipes	40	40	100	
Ceratium minutum	80	100	40	
Ceratium sp.	20			
Ceratium tripos		80	100	
Dinophysis acuminata	60	360	140	20
Dinophysis acuta	60	20	20	
Dinophysis norvegica	100	300	480	
Dinophysis rotundata	20		20	
Dinophysis sp.		60	40	
Gonyaulax spinifera		20	20	
Gonyaulax triacantha	20		20	
Gymnodinium sp.		20		
Peridinium sp.	120	120	240	
Peridinium triqueta	20		80	
Prorocentrum micans	20	20		
Scrippsiella trochoidea		40	60	
Unarmoured dinoflagellate	20			
Coscinodiscus sp.	60	20	20	60
Ditylum brightwelli		20		
Leptocylindrus danicus	20			
Leptocylindrus minimus	20	60		
Navicula sp.		40		
Nitzschia closterium	100	20	20	40
Pleurosigma angulatum	20	40		
Pseudonitzschia pseudodelicatissima	20	40	80	
Rhizosolenia delicatula	120	20		
Rhizosolenia shrubsolei			60	
Acartia sp.	20			
Distephanus speculum	300	200	160	100
Eutreptia sp.	20		20	20
Mesodinium rubrum	900	3440	3700	560
Tintinnids	60	20	20	280

DATE: 13-10-92	STATION NUMBER			
ORGANISM	3	15	16	17
Ceratium fusus	20	40		
Ceratium longipes	20	20	20	
Ceratium minutum		180	40	
Ceratium tripos		40		
Dinophysis acuminata	20	140	100	20
Dinophysis acuta		40		
Dinophysis norvegica	20	200	40	
Dinophysis sp.		20	40	
Gymnodinium sp.	40	20	60	
Peridinium sp.	20	100	140	
Peridinium triqueta	20	140	140	
Scrippsiella trochoidea		20	40	
Chaetoceros borealis	20			
Corethron criophilum	20		40	
Coscinodiscus sp.		20		
Gyrosigma fasciola				20
Leptocylindrus minimus		20	40	
Navicula sp.	40	20		
Nitzschia closterium	120	20	220	60
Pleurosigma angulatum	40			
Pseudonitzschia pseudodelicatissima	240	20	80	
Rhizosolenia delicatula	20			20
Skeletonema costatum				60
Distephanus speculum	200	340	220	140
Mesodinium rubrum	400	4120	3520	220
Notholca sp.			20	
Tintinnids	40	40	140	160

DATE: 27-10-92	STATION NUMBER			
ORGANISM	3	15	16	17
Alexandrium fundyense		20		
Ceratium fusus		40		
Ceratium longipes		20		20
Ceratium minutum	20	40		
Ceratium tripos		20		
Dinophysis acuminata	20	20		
Dinophysis norvegica	20	80		
Dinophysis rotundata		20		
Peridinium limbatum				20
Peridinium sp.		40		
Corethron criophilum	20			20
Coscinodiscus sp.	20			20
Ditylum brightwelli	40	20		
Lycmophora lyngbyei		20		
Navicula sp.	20			
Nitzschia closterium	80	140		20
Pseudonitzschia pseudodelicatissima	120	180		
Thalassiothrix nitzschiodes	20			20
Distephanus speculum	400	80		400
Eutreptia sp.	20	20		
Mesodinium rubrum	40	200		
Tintinnids	40			400

DATE: 10-11-92	STATION NUMBER			
ORGANISM	3	15	16	17
Ceratium fusus	60	20		
Ceratium longipes	60	20		
Ceratium minutum	240	580	220	
Ceratium tripos	20	20	20	
Dinophysis acuminata	20		20	
Dinophysis acuta			20	
Dinophysis norvegica	40	40	60	20
Gyrodinium aureolum		40		
Gymnodinium sp.		20		
Peridinium limbatum		20		
Peridinium sp.	60	80	40	
Scrippsiella trochoidea	20	40	20	
Ditylum brightwelli			40	
Leptocylindrus minimus	20			
Navicula sp.				20
Nitzschia closterium	180	80	260	80
Pseudonitzschia pseudodelicatissima	80	80	200	80
Rhizosolenia delicatula	20			
Thalassiothrix nitzschiodes		20	20	20
Distephanus speculum	100	60	180	460
Mesodinium rubrum	340	140	1540	20
Tintinnids	40		60	100

DATE: 24-11-92	STATION NUMBER			
ORGANISM	3	15	16	17
Ceratium longipes	20			
Ceratium minutum	20	40		
Ceratium tripos		20		
Dinophysis norvegica	20	20		
Peridinium sp.		20		
Coscinodiscus sp.				20
Leptocylindrus minimus	60			
Navicula sp.				20
Nitzschia closterium	260	80		140
Pseudonitzschia pseudodelicatissima	220	120		80
Rhabdonema sp.	20	20		
Rhizosolenia delicatula	40	20		
Distephanus speculum	20	40		60
Mesodinium rubrum	80			20
Tintinnids	20	60		320

DATE: 22-12-92	STATION NUMBER			
ORGANISM	3	15	16	17
Peridinium sp.	20			
Biddulphia aurita		20		
Chaetoceros sp.	20			
Nitzschia closterium	500	340		340
Pleurosigma strigosum				20
Pseudonitzschia pseudodelicatissima	40	120		20
Rhizosolenia delicatula		20		
Skeletonema costatum		20		20
Tabellaria sp.	20			
Mesodinium rubrum	60			20
Tintinnids				100

Appendix 3. Chemical oceanographic data obtained during phytoplankton sampling at 4-17 stations during 1990-92.

STATION DATE	1 DEPTH	TEMP.C.	DO(mg/L)	DO(% SAT.)	SALINITY(‰)	CHL A(UG/L)
90 1 23	0 m	01.5			32.39	
	Btm				32.49	
90 2 22	0 m	00.0			31.97	
	Btm	00.5			32.07	
90 3 13	0 m	02.0			32.05	
	Btm	02.4			32.04	
90 4 9	0 m	03.2			30.73	
	Btm	04.9			31.00	
90 4 23	0 m	04.2			30.91	
	Btm	07.7			31.22	
90 5 8	0 m	06.2			30.05	
	Btm	04.2			29.94	
90 5 14	0 m	07.7			29.31	
	Btm	04.6			31.09	
90 8 13	0 m	15.8			31.13	
	Btm	16.0			31.60	
90 8 20	0 m	14.8			31.80	
	Btm	15.8			31.93	
90 8 27	0 m	16.3			31.91	
	Btm	17.6			32.06	
90 9 4	0 m	15.3			31.90	
	Btm	15.5			31.90	
90 9 17	0 m	14.0			32.17	
	Btm	14.0			32.21	
90 9 25	0 m	14.0			31.59	
	Btm	15.0			31.98	
90 10 1	0 m	14.3			31.87	
	Btm	16.5			32.04	
90 10 9	0 m	13.3			32.21	
	Btm	12.8			32.21	
90 10 17	0 m	13.2			31.83	
	Btm	14.8			32.04	
90 10 22	0 m	12.2			32.24	
	Btm	12.5			32.30	
90 11 5	0 m	10.3			32.04	
	Btm	10.2			32.15	
90 11 27	0 m	07.1			32.43	
	Btm	07.2			32.16	

STATION DATE	3 DEPTH	TEMP.C.	DO(mg/L)	DO(% SAT.)	SALINITY(‰)	CHL A(UG/L)
90 1 23	0 m	02.6	10.02	91.7	32.47	.310
	Btm	02.7	10.00	91.8	32.47	.270
90 2 22	0 m	01.0	9.90	86.7	32.19	.170
	Btm	00.2	9.93	87.1	32.30	.230
90 3 13	0 m	01.6	9.85	87.8	32.14	.330
	Btm	01.9	9.85	88.4	32.12	.300
90 4 9	0 m	03.5	9.85	91.5	31.18	.220
	Btm	03.2	9.87	91.0	31.58	.300
90 4 23	0 m	03.5	9.76	89.7	29.87	.350
	Btm	05.2	9.50	92.2	31.40	.220
90 5 8	0 m	06.1	11.09	108.9	30.27	.620
	Btm	04.1	11.25	105.8	31.13	.340
90 5 14	0 m	06.1	10.25	101.0	30.83	1.200
	Btm	04.6	10.60	101.2	31.27	.850
90 5 22	0 m	06.2	8.92	87.7	29.99	1.030
	Btm	05.2	9.23	89.2	30.94	.950
90 5 29	0 m	07.8	9.42	96.5	30.55	.570
	Btm	05.2	9.90	95.6	30.82	.590
90 6 4	0 m	06.3	8.22	81.0	31.25	.980
	Btm	05.0	8.27	80.4	32.67	.880
90 6 11	0 m	06.8	10.73	107.7	30.90	2.690
	Btm	05.1	9.83	95.0	31.41	.960
90 6 18	0 m	10.0	11.75	127.0	31.04	6.470
	Btm	07.4	12.22	124.6	31.32	2.980
90 6 28	0 m	10.9	12.82	141.4	31.24	3.140
	Btm	09.2	13.57	145.7	31.32	2.370
90 7 9	0 m	10.9	8.24	91.1	31.51	4.810
	Btm	10.9	8.35	92.4	31.53	6.190
90 7 16	0 m	12.0	8.64	97.7	31.60	2.370
	Btm	11.3	8.98	100.2	31.84	2.590
90 7 24	0 m	11.1	10.11	112.4	31.92	16.300
	Btm	09.8	10.15	109.6	31.90	17.600
90 7 31	0 m	14.2	9.66	114.3	31.40	2.640
	Btm	15.4	11.01	124.9	31.66	1.660
90 8 7	0 m	13.8	8.76	103.2	31.62	3.220
	Btm	13.6	8.85	103.7	31.63	1.950
90 8 13	0 m	14.3	7.86	93.3	31.48	1.800
	Btm	13.8	7.94	93.4	31.65	1.650
90 8 20	0 m	13.8	8.81	110.0	31.99	2.710
	Btm	13.5	9.20	107.7	31.98	2.520
90 8 27	0 m	16.0	8.21	101.1	31.94	15.070
	Btm	15.2	8.69	104.7	32.13	15.070
90 9 4	0 m	15.0	9.34	112.8	31.89	22.000
	Btm	14.6	9.01	107.9	31.89	5.910
90 9 17	0 m	13.4	8.06	94.5	32.34	2.590
	Btm	12.8	8.12	93.8	32.30	22.120
90 9 25	0 m	13.9	7.26	85.7	31.77	1.230
	Btm	14.0	7.44	88.2	32.20	1.760
90 10 1	0 m	13.8	7.76	91.6	32.13	2.830
	Btm	13.9	7.98	112.3	32.24	3.680
90 10 9	0 m	13.3	7.69	89.9	32.28	.810
	Btm	12.6	7.58	87.3	32.36	.580
90 10 17	0 m	13.0	7.45	86.5	32.24	1.030
	Btm	13.8	7.32	86.5	32.23	.550
90 10 22	0 m	12.4	6.98	80.1	32.51	.570
	Btm	12.4	6.92	79.5	32.62	.460
90 11 5	0 m	10.3	8.25	90.5	32.41	.550
	Btm	10.5	8.28	90.2	32.34	.460
90 11 27	0 m	07.1	7.79	79.1	31.71	.410
	Btm	08.1	7.91	82.6	32.41	.290

STATION DATE	5 DEPTH	TEMP.C.	DO(mg/L)	DO(% SAT.)	SALINITY(‰)	CHL A(UG/L)
90 1 23	0 m	02.5			32.48	
	Btm	02.6			32.49	
90 2 22	0 m	01.0			32.18	
	Btm	00.4			32.32	
90 3 13	0 m	01.8			32.04	
	Btm	02.2			32.09	
90 4 9	0 m	03.5			31.38	
	Btm	03.9			31.72	
90 4 23	0 m	03.4			30.26	
	Btm	05.7			31.48	
90 5 8	0 m	05.8			29.97	
	Btm	03.4			31.59	
90 5 14	0 m	06.6			30.32	
	Btm	04.6			31.50	
90 8 13	0 m	13.5			31.70	
	Btm	13.2			31.78	
90 8 20	0 m	14.0			31.98	
	Btm	14.0			31.98	
90 8 27	0 m	14.8			32.07	
	Btm	17.0			32.10	
90 9 4	0 m	14.9			31.91	
	Btm	15.2			31.94	
90 9 17	0 m	13.5			32.30	
	Btm	13.5			32.30	
90 9 25	0 m	13.8			31.96	
	Btm	14.5			32.33	
90 10 1	0 m	13.8			32.25	
	Btm	14.2			32.22	
90 10 9	0 m	13.2			32.29	
	Btm	12.6			32.32	
90 10 17	0 m	12.9			32.14	
	Btm	13.9			32.29	
90 10 22	0 m	12.2			32.47	
	Btm	12.3			32.74	
90 11 5	0 m	10.2			32.32	
	Btm	09.8			32.36	
90 11 27	0 m	07.5			31.89	
	Btm	07.8			32.27	

STATION DATE	7 DEPTH	TEMP.C.	DO(mg/L)	DO(% SAT.)	SALINITY(‰)	CHL A(UG/L)
90 1 23	0 m	01.0			32.46	
	Btm	04.6			32.57	
90 2 22	0 m	00.5			32.08	
	Btm	00.6			32.22	
90 3 13	0 m	01.9			32.07	
	Btm	02.2			32.11	
90 4 23	0 m	03.8				
	Btm	07.1				
90 5 8	0 m	05.7			30.29	
	Btm	04.1			31.07	
90 5 14	0 m	06.2			30.85	
	Btm	05.2			31.37	
90 8 13	0 m	14.2			31.46	
	Btm	15.3			31.96	
90 8 20	0 m	13.9			32.04	
	Btm	15.5			32.10	
90 8 27	0 m	14.7			32.15	
	Btm	17.5			32.21	
90 9 4	0 m	14.5			32.07	
	Btm	15.5			32.12	
90 9 17	0 m	13.8			32.18	
	Btm	13.8			32.32	
90 9 25	0 m	13.8			31.60	
	Btm	15.5			32.35	
90 10 1	0 m	13.9			32.26	
	Btm	15.6			32.30	
90 10 9	0 m	12.9			32.36	
	Btm				32.33	
90 10 17	0 m	12.9			32.13	
	Btm	15.6			32.19	
90 10 22	0 m	12.4			32.44	
	Btm	13.5			32.45	
90 11 27	0 m	08.0			32.06	
	Btm	07.1			32.39	

STATION 8 DATE	DEPTH	TEMP.C.	DO(mg/L)	DO(% SAT.)	SALINITY(‰)	CHL A(UG/L)
90 1 23	0 m	02.9			32.57	
	Btm	02.7			32.57	
90 2 22	0 m	01.5			32.18	
	Btm	00.4			32.11	
90 3 13	0 m	01.7			31.98	
	Btm	02.3			32.08	
90 4 9	0 m	03.1			31.39	
	Btm	04.2			31.51	
90 4 23	0 m	04.1			30.02	
	Btm	06.6			30.98	
90 5 8	0 m	05.8			30.05	
	Btm	04.6			30.78	
90 5 14	0 m	06.2			31.05	
	Btm	04.5			31.47	
90 8 13	0 m	14.6			31.72	
	Btm	13.8			31.90	
90 8 20	0 m	14.0			32.01	
	Btm	14.6			32.04	
90 8 27	0 m	15.2			32.13	
	Btm	16.5			32.14	
90 9 4	0 m	15.2			32.00	
	Btm	15.3			31.98	
90 9 17	0 m	13.7			32.32	
	Btm	13.8			32.33	
90 9 25	0 m	13.8			32.34	
	Btm	13.4			32.37	
90 10 1	0 m	13.7			32.23	
	Btm	14.2			32.28	
90 10 9	0 m	13.3			32.26	
	Btm	12.5			32.30	
90 10 17	0 m	13.0			32.29	
	Btm	13.6			32.25	
90 10 22	0 m	12.2			32.50	
	Btm	13.4			32.48	
90 11 5	0 m	10.5			32.21	
	Btm	10.2			32.26	
90 11 27	0 m	08.5			32.55	
	Btm	07.5			32.68	

STATION DATE	9 DEPTH	TEMP.C.	DO(mg/L)	DO(% SAT.)	SALINITY(‰)	CHL A(UG/L)
90 1 23	0 m	02.5			32.63	
	Btm	02.7			32.64	
90 2 22	0 m	01.9			32.08	
	Btm	00.3			32.27	
90 3 13	0 m	01.8			32.10	
	Btm	02.0			32.14	
90 4 9	0 m	03.5			31.21	
	Btm	03.5			31.48	
90 4 23	0 m	04.2			30.04	
	Btm	06.0			31.41	
90 5 8	0 m	06.1			30.09	
	Btm	04.6			30.88	
90 5 14	0 m	07.0			31.07	
	Btm	04.9			31.34	
90 8 13	0 m	14.6			31.72	
	Btm	14.3			31.90	
90 8 20	0 m	14.5			31.94	
	Btm	13.6			32.04	
90 8 27	0 m	14.9			32.15	
	Btm	15.3			32.23	
90 9 4	0 m	15.1			31.98	
	Btm	15.0			32.00	
90 9 17	0 m	13.5			32.33	
	Btm	13.6			30.46	
90 9 25	0 m	13.5			32.33	
	Btm	13.5			32.33	
90 10 1	0 m	13.9			32.22	
	Btm	14.7			32.27	
90 10 9	0 m	13.0			32.29	
	Btm	12.5			32.30	
90 10 17	0 m	12.9			32.22	
	Btm	13.4			32.28	
90 10 22	0 m	12.4			32.47	
	Btm	13.2			32.49	
90 11 5	0 m	10.3			32.12	
	Btm	10.6			32.17	
90 11 27	0 m	08.2			32.48	
	Btm	06.8			32.56	

STATION DATE	11 DEPTH	TEMP.C.	DO(mg/L)	DO(% SAT.)	SALINITY(‰)	CHL A(UG/L)
90 1 23	0 m	02.4			32.67	
	Btm	03.2			32.63	
90 2 22	0 m	00.4			31.83	
	Btm	00.4			32.13	
90 3 13	0 m	01.5			31.80	
	Btm	02.4			31.92	
90 4 9	0 m	02.2			30.80	
	Btm	03.3			30.89	
90 4 23	0 m	03.6			31.16	
	Btm	03.7			31.47	
90 5 8	0 m	05.0			31.05	
	Btm	03.5			31.08	
90 5 14	0 m	05.9			30.76	
	Btm	04.6			31.41	
90 8 13	0 m	13.2			31.87	
	Btm	12.8			32.26	
90 8 20	0 m	12.8			31.98	
	Btm	14.0			32.01	
90 8 27	0 m	14.2			32.14	
	Btm	14.0			32.35	
90 9 4	0 m	13.8			32.13	
	Btm	14.0			32.17	
90 9 17	0 m	13.2			32.36	
	Btm	14.5			32.30	
90 9 25	0 m	13.2			32.22	
	Btm	13.4			32.48	
90 10 1	0 m	13.0			32.18	
	Btm	13.3			32.42	
90 10 9	0 m	12.8			32.22	
	Btm	12.7			32.31	
90 10 17	0 m	12.4			32.24	
	Btm	13.0			32.30	
90 10 22	0 m	11.7			32.31	
	Btm	11.7			32.63	
90 11 5	0 m	10.8			32.03	
	Btm	12.5			32.06	
90 11 27	0 m	07.9			32.12	
	Btm	06.2			32.59	

STATION 13 DATE	DEPTH	TEMP.C.	DO(mg/L)	DO(% SAT.)	SALINITY(‰)	CHL A(UG/L)
90 1 23	0 m	02.0			32.60	
	Btm	01.8			32.59	
90 2 22	0 m	01.0			32.18	
	Btm	00.6			32.09	
90 3 13	0 m	01.9			32.11	
	Btm	02.4			32.01	
90 4 9	0 m	02.3			31.20	
	Btm	06.1			31.54	
90 4 23	0 m	03.2			31.21	
	Btm	04.0			32.76	
90 5 8	0 m	04.8			30.70	
	Btm	03.5			31.17	
90 5 14	0 m	05.5			30.51	
	Btm	04.6			31.55	
90 8 13	0 m	13.9			31.52	
	Btm	14.2			31.94	
90 8 20	0 m	13.0			32.08	
	Btm	13.8			32.08	
90 8 27	0 m	13.5			32.15	
	Btm	18.0			32.18	
90 9 4	0 m	13.8			32.12	
	Btm	16.5			32.13	
90 9 17	0 m	13.2			32.28	
	Btm	15.6			32.28	
90 9 25	0 m	12.9			32.36	
	Btm	11.4			32.33	
90 10 1	0 m	13.0			32.48	
	Btm	16.0			32.29	
90 10 9	0 m	12.8			32.33	
	Btm	11.6			32.31	
90 10 17	0 m	12.5			32.26	
	Btm	17.2			32.26	
90 10 22	0 m	11.9			32.45	
	Btm	12.5			32.48	
90 11 5	0 m	10.7			32.29	
	Btm	10.5			32.34	
90 11 27	0 m	08.1			32.40	
	Btm	08.2			32.42	

STATION DATE	14 DEPTH	TEMP.C.	DO(mg/L)	DO(% SAT.)	SALINITY(‰)	CHL A(UG/L)
90 1 23	0 m	01.5			32.33	
	Btm	01.2			32.49	
90 2 22	0 m	00.5			31.74	
	Btm	00.4			31.84	
90 3 13	0 m	01.5			31.65	
	Btm	03.2			31.70	
90 4 9	0 m	02.3			29.21	
	Btm	03.2			30.89	
90 4 23	0 m	03.4			29.97	
	Btm	04.2			30.94	
90 5 8	0 m	05.0			30.64	
	Btm	03.6			30.74	
90 5 14	0 m	05.4			30.77	
	Btm	04.6			31.16	
90 8 13	0 m	13.6			31.56	
	Btm	14.2			31.90	
90 8 20	0 m	13.8			31.56	
	Btm	13.2			31.69	
90 8 27	0 m	14.4			32.13	
	Btm	14.2			32.13	
90 9 4	0 m	14.2			31.74	
	Btm	14.0			31.82	
90 9 17	0 m	13.3			32.06	
	Btm	13.2			31.71	
90 9 25	0 m	13.0			31.89	
	Btm	12.6			32.10	
90 10 1	0 m	12.9			32.06	
	Btm	13.1			32.10	
90 10 9	0 m	12.6			31.81	
	Btm	11.5			32.12	
90 10 17	0 m	12.5			31.61	
	Btm	10.8			31.75	
90 10 22	0 m	12.0			31.87	
	Btm	12.0			32.25	
90 11 5	0 m	10.5			31.29	
	Btm	10.2			31.87	
90 11 27	0 m	07.4			31.73	
	Btm	05.5			32.28	

STATION DATE	15 DEPTH	TEMP.C.	DO(mg/L)	DO(% SAT.)	SALINITY(‰)	CHL A(UG/L)
90 1 23	0 m	03.2	10.22	95.1	32.66	.340
	Btm	05.7	10.17	100.5	32.61	.200
90 2 22	0 m	01.5	9.89	87.9	32.23	.140
	Btm	00.4	9.54	82.3	32.27	.150
90 3 13	0 m	01.9	10.02	90.0	32.22	.190
	Btm	02.0	9.82	88.4	32.24	.210
90 4 9	0 m	02.6	10.03	91.2	31.51	.250
	Btm	03.6	10.05	93.9	31.91	.300
90 4 23	0 m	03.5	10.11	92.0	28.23	.280
	Btm	05.5	9.97	97.1	31.28	.220
90 5 8	0 m	06.3	11.23	110.3	29.33	.430
	Btm	03.4	11.26	104.2	31.22	.260
90 5 14	0 m	05.5	10.74	104.6	31.05	1.230
	Btm	04.6	10.67	101.7	31.19	1.360
90 5 22	0 m	06.5	9.43	93.1	29.51	2.830
	Btm	05.0	9.25	88.7	30.65	2.260
90 5 29	0 m	06.8	10.37	104.2	30.88	1.610
	Btm	05.1	10.38	100.3	31.36	.210
90 6 4	0 m	07.2	8.27	83.9	31.08	3.470
	Btm	05.2	8.51	82.4	31.31	2.850
90 6 11	0 m	06.5	10.76	107.7	31.57	1.500
	Btm	05.2	10.89	105.6	31.56	1.900
90 6 18	0 m	10.1	13.89	150.5	30.96	6.390
	Btm	07.4	12.52	127.8	31.39	3.080
90 6 28	0 m	10.2	16.66	181.2	31.32	3.950
	Btm	07.4	15.04	153.7	31.53	1.840
90 7 9	0 m	12.0	8.79	99.3	31.40	7.330
	Btm	10.9	8.96	99.0	31.56	5.900
90 7 16	0 m	11.2	9.48	105.7	31.87	3.710
	Btm	10.7	9.62	106.1	31.85	2.670
90 7 24	0 m	11.5	10.68	119.9	31.91	26.400
	Btm	12.6	10.51	120.7	31.91	18.500
90 8 7	0 m	14.2	9.28	110.1	31.48	2.790
	Btm	14.0	9.33	110.1	31.51	4.580
90 8 13	0 m	14.0	8.89	105.0	31.55	1.890
	Btm	14.0	8.51	100.7	32.00	2.940
90 8 20	0 m	14.2	9.96	118.4	32.00	4.060
	Btm	14.5	9.58	114.6	32.02	2.930
90 8 27	0 m	15.8	9.66	118.6	32.17	13.120
	Btm	16.5	9.42	117.3	32.10	21.870
90 9 4	0 m	15.2	10.23	123.9	31.88	20.060
	Btm	14.5	9.56	114.3	31.89	27.260
90 9 17	0 m	14.0	8.66	102.6	32.32	46.300
	Btm	14.5	8.24	98.8	32.33	14.400
90 10 1	0 m	14.0	9.35	110.8	32.14	5.850
	Btm	15.1	9.49	115.0	32.12	5.140
90 10 9	0 m	13.2	7.91	92.3	32.34	1.440
	Btm	13.2	7.68	89.6	32.36	1.340
90 10 17	0 m	13.0	8.00	92.8	32.18	1.650
	Btm	14.5	7.57	90.7	32.43	.320
90 10 22	0 m	12.0	7.15	81.5	32.56	.730
	Btm	11.8	7.17	81.3	32.57	.510
90 11 5	0 m	10.3	8.69	95.4	32.43	.420
	Btm	10.6	8.21	90.9	32.78	.500
90 11 27	0 m	07.9	8.23	85.6	32.49	.540
	Btm	07.3	7.60	78.2	32.98	.440

STATION DATE	16 DEPTH	TEMP.C.	DO(mg/L)	DO(% SAT.)	SALINITY(‰)	CHL A(UG/L)
90 1 23	0 m	03.7	9.94	93.6	32.79	.560
	10 m	03.6	9.99	93.9	32.78	.290
	25 m	05.2	9.89	96.8	32.78	.300
	50 m	03.6	10.07	94.8	32.80	.340
90 3 13	0 m	01.8	9.95	89.0	32.11	.260
	10 m	01.9	9.86	88.4	32.11	.230
	25 m	01.8	9.80	87.7	32.20	.270
	50 m	01.9	9.79	87.8	32.23	.250
90 4 9	0 m	02.9	9.90			.210
	10 m	03.3	9.98			.220
	25 m	04.1	9.88			.260
	50 m	02.6	9.87			.240
90 4 23	0 m	03.5	10.12	92.5	28.87	.270
	10 m	04.8	9.91	95.4	31.67	.230
	25 m	05.2	9.83	95.8	32.17	.160
	50 m	03.0	9.87	91.0	32.19	.120
90 5 8	0 m	05.6	11.43	110.9	30.10	.300
	10 m	03.4	11.86	109.2	30.38	.800
	25 m	02.3	11.46	102.9	30.95	.580
	50 m	03.4	10.94	99.9	29.36	.160
90 5 22	0 m	06.2	9.33	91.7	29.94	2.380
	10 m	05.0	9.51	90.9	30.05	.970
	25 m		9.23		30.70	.870
	50 m	05.0	9.23	89.5	32.13	.330
90 5 29	0 m	07.0	10.93	110.6	31.23	.460
	10 m	05.2	10.50	101.9	31.49	.450
	25 m	02.3	10.46	94.9	32.14	.610
	50 m	04.1	10.63	100.5	31.76	.300
90 6 11	0 m	06.5	11.00	111.3	31.24	3.390
	10 m	05.1	10.95	106.0	31.60	2.920
	25 m	05.8	10.59	104.4	31.81	.560
	50 m	05.0	10.78	104.2	31.82	.400
90 6 28	0 m	09.5	16.30	174.6	31.45	2.280
	10 m	07.5	12.45	127.6	31.73	1.880
	25 m				31.79	1.030
	50 m	07.5	13.36	137.4	32.28	.870
90 7 16	0 m	11.3	10.04	112.1	31.90	3.430
	10 m	09.7	9.39	101.3	31.89	2.050
	25 m	10.6	9.17	101.0	32.02	1.180
	50 m	09.2	8.91	95.2	32.20	.490
90 7 24	0 m	10.4	10.82	118.7	31.96	22.500
	10 m	10.2	10.99	119.9	31.92	27.600
	25 m	10.1	10.73	117.0	31.94	16.100
	50 m	10.4	10.15	111.2	32.12	2.100
90 7 31	0 m	12.5	10.88	107.9	31.73	2.930
	10 m	10.1	11.04	101.1	31.81	1.270
	25 m	10.4	10.75	95.3	31.98	2.700
	50 m	10.7	10.22	92.6	32.16	1.270
90 8 7	0 m	13.6	9.43	108.5	31.62	3.800
	10 m	12.5	9.29	103.8	31.71	2.060
	25 m	12.7	8.69	98.4	32.01	.620
	50 m	12.1	8.38	93.7	32.37	.520
90 8 13	0 m	13.5	9.26	108.4	31.77	4.320
	10 m	13.2	9.08	105.7	31.95	1.430
	25 m	13.2	8.54	99.6	32.28	.730
	50 m	12.0	8.23	93.7	32.51	.570
90 8 20	0 m	13.9	10.01	118.4	32.08	2.650

STATION DATE	16 DEPTH	TEMP.C.	DO(mg/L)	DO(% SAT.)	SALINITY(‰)	CHL A(UG/L)
	10 m	13.0	9.87	114.6	32.22	1.660
	25 m	13.3	8.94	104.6	32.38	1.740
	50 m	12.3	8.74	100.4	32.68	.950
90 8 27	0 m	14.0	8.91	105.6	32.15	11.060
	10 m	12.1	8.50	97.0	32.25	13.580
	25 m	11.4	8.12	91.2	32.31	7.720
	50 m	11.9	7.66	87.0	32.53	8.230
90 9 4	0 m	15.2	9.98	120.8	31.86	20.750
	10 m	14.2	9.21	109.8	32.32	1.900
	25 m	14.5	8.71	104.8	32.73	1.290
	50 m	12.5	8.12	93.2	32.15	.400
90 9 17	0 m	13.5	8.63	101.2	32.34	2.240
	10 m	13.6	8.61	101.4	32.38	40.930
	25 m	13.8	8.42	99.4	32.38	31.910
	50 m	12.8	7.58	87.8	32.63	37.250
90 9 25	0 m	13.6	7.32	86.1	32.40	34.150
	10 m	12.3	8.52	97.6	32.38	33.150
	25 m		7.91		32.55	2.650
	50 m	11.4	7.65	86.3	32.73	.690
90 10 1	0 m	14.7	8.92	107.4	32.38	6.150
	10 m	12.9	8.96	104.0	32.38	5.450
	25 m	13.0	8.75	101.8	32.53	4.550
	50 m	13.7	8.17	96.5	32.78	2.160
90 10 9	0 m	13.0	8.31	96.7	32.51	3.240
	10 m	12.5	8.26	95.0	32.49	2.660
	25 m	12.5	8.22	94.7	32.56	2.310
	50 m	12.4	7.71	88.6	32.65	1.230
90 10 17	0 m	12.8	7.69	88.9	32.34	.670
	10 m	13.3	7.59	88.8	32.42	.630
	25 m	13.5	7.71	90.8	32.75	.290
	50 m	13.4	7.37	86.6	32.93	.220
90 10 22	0 m	12.1	7.26	83.0	32.62	.700
	10 m	11.7	7.22	81.7	32.60	.300
	25 m	12.1	7.07	80.8	32.69	.390
	50 m	11.5	6.91	78.1	32.97	.550
90 11 5	0 m	10.2	8.59	94.0	32.41	.580
	10 m	10.1	8.48	92.6	32.30	.420
	25 m	10.2	8.29	90.8	32.51	.400
	50 m	10.0	8.12	87.8	31.13	.460
90 11 27	0 m	08.8	8.20	87.1	32.60	.360
	10 m	07.1	8.16	83.4	32.60	.390
	25 m	07.4	8.06	83.0	32.68	.430
	50 m	07.5	7.88	80.5	31.15	.270

STATION 17 DATE	DEPTH	TEMP.C.	DO(mg/L)	DO(% SAT.)	SALINITY(‰)	CHL A(UG/L)
90 1 23	0 m	00.4	10.70	92.1	31.85	.410
	Btm	00.4	10.53	90.7	31.94	.350
90 2 22	0 m	-1.0	10.54	84.9	27.62	.160
	Btm	00.2	10.16	86.6	31.21	.180
90 3 13	0 m	02.0	10.18	89.4	28.85	.220
	Btm	02.5	10.09	91.2	30.79	.260
90 4 9	0 m	01.9	10.44			.220
	Btm	03.2	10.11			.230
90 4 23	0 m	04.3	10.07	91.6	25.20	.410
	Btm	05.2	9.84	94.4	29.64	.350
90 5 8	0 m	07.3	11.26	111.9	27.64	2.360
	Btm	04.6	11.22	106.2	30.18	1.980
90 5 14	0 m	08.0	11.01	112.0	28.68	2.410
	Btm	05.1	11.07	106.3	30.53	3.450
90 5 22	0 m	07.2	9.40	93.1	27.46	6.610
	Btm	05.0	9.41	89.7	27.96	6.690
90 5 29	0 m	08.6	10.41	106.0	26.58	1.730
	Btm	05.2	10.63	101.4	28.77	2.150
90 6 4	0 m	10.6	8.10	89.1	31.74	1.730
	Btm	05.2	8.44	80.7	29.45	.940
90 6 11	0 m	07.6	10.60	107.4	29.47	1.390
	Btm		10.81		30.18	1.030
90 6 18	0 m	12.4	11.62	130.1	28.34	2.260
	Btm	07.5	11.69	119.0	30.64	3.260
90 6 28	0 m	11.6	14.13	156.8	29.74	1.700
	Btm	09.3	13.95	147.7	30.38	1.700
90 7 9	0 m	11.0	8.41	92.8	30.79	2.800
	Btm	11.2	8.35	92.8	31.30	2.820
90 7 16	0 m	13.8	9.42	110.3	30.78	2.420
	Btm	10.2	9.34	101.2	30.80	2.840
90 7 24	0 m	12.4	10.45	119.4	31.46	30.100
	Btm	15.2	10.51	127.0	31.46	32.300
90 7 31	0 m	15.6	10.61	127.9	29.49	3.240
	Btm	15.9	10.09	123.5	31.10	2.450
90 8 7	0 m	14.6	9.05	107.7	30.91	8.040
	Btm	15.2	8.80	106.4	31.37	3.610
90 8 13	0 m	16.0	9.02	110.3	30.38	3.390
	Btm	16.5	8.55	105.9	31.46	2.880
90 8 20	0 m	15.8	9.47	115.4	30.54	4.240
	Btm	17.2	9.59	120.2	30.63	3.810
90 8 27	0 m	17.1	8.53	105.8	29.52	19.190
	Btm	17.0	7.98	99.8	31.33	10.910
90 9 4	0 m	15.9	8.88	108.0	30.33	26.700
	Btm	15.9	8.83	108.0	30.99	10.290
90 9 17	0 m	14.5	7.38	87.4	30.22	1.540
	Btm	14.0	7.46	86.8	29.32	1.130
90 9 25	0 m	14.2	7.79	91.0	29.18	1.810
	Btm	15.2	7.60	91.9	31.48	.610
90 10 1	0 m	14.2	8.40	98.0	29.03	1.460
	Btm	14.5	8.10	96.2	30.81	1.750
90 10 9	0 m	13.2	8.23	94.6	29.86	3.190
	Btm	12.2	8.13	92.6	31.85	1.540
90 10 17	0 m	12.5	7.90	89.1	29.24	.740
	Btm	10.7	7.57	83.0	30.95	.160
90 10 22	0 m	13.9	7.27	85.5	31.27	2.000
	Btm	13.2	7.18	83.5	31.87	.940
90 11 5	0 m	10.1	8.80	94.4	29.51	.530
	Btm	10.0	8.47	90.7	29.64	.440
90 11 27	0 m	06.5	8.59	85.0	29.85	.340
	Btm	04.5	8.25	77.6	29.37	.250

STATION DATE	1 DEPTH	TEMP.C.	DO(mg/L)	DO(% SAT.)	SALINITY(‰)	CHL A(UG/L)
91 1 2	0 m	05.3			31.95	
	Btm	05.0			31.88	
91 1 14	0 m	01.8			31.77	
	Btm	01.9			31.81	
91 2 4	0 m	02.8			31.86	
	Btm	03.0			31.41	
91 3 5	0 m	03.0			31.36	
	Btm	02.7			31.62	
91 4 9	0 m	03.8			30.38	
	Btm	04.0			31.11	
91 4 24	0 m	07.2			27.98	
	Btm	03.5			29.70	
91 5 8	0 m	07.4			30.91	
	Btm	05.0			28.94	
91 5 14	0 m	07.8			30.54	
	Btm	05.1			30.72	
91 5 21	0 m	07.8			30.48	
	Btm	07.4			30.60	
91 5 28	0 m	08.4			30.71	
	Btm	07.4			30.89	
91 6 4	0 m	10.0			30.44	
	Btm	07.6			30.64	
91 6 11	0 m	11.2			30.65	
	Btm	08.2			30.97	
91 6 18	0 m	09.7			31.25	
	Btm	08.6			31.27	
91 6 25	0 m	11.8			31.41	
	Btm	09.4			31.52	
91 7 9	0 m	12.4			31.45	
	Btm	11.2			31.51	
91 7 16	0 m	12.5			31.61	
	Btm	09.6			31.70	
91 7 24	0 m	15.4			31.27	
	Btm	11.7			31.60	
91 7 29	0 m	15.5			31.22	
	Btm	11.9			31.52	
91 8 6	0 m	15.3			31.23	
	Btm	12.6			31.43	
91 8 13	0 m	14.0			30.99	
	Btm	12.4			29.36	
91 8 19	0 m	15.2			31.73	
	Btm	12.4			31.12	
91 8 27	0 m	14.0			31.38	
	Btm	12.2			31.83	
91 9 3	0 m	14.7			31.67	
	Btm	12.8			31.81	
91 9 9	0 m	14.0			32.00	
	Btm	12.2			32.11	
91 9 17	0 m	14.0			31.88	
	Btm	12.5			32.09	
91 9 23	0 m	13.0			31.99	
	Btm	12.1			32.08	
91 10 1	0 m	11.4			31.48	
	Btm	11.4			31.54	
91 10 8	0 m	11.8			31.65	
	Btm	11.7			31.73	
91 10 15	0 m	11.2			31.21	
	Btm	10.8			31.97	

STATION 3 DATE	DEPTH	TEMP.C.	DO(mg/L)	DO(% SAT.)	SALINITY(‰)	CHL A(UG/L)
91 1 2	0 m	05.9	9.77	96.7	32.05	.250
	Btm	05.6	9.79	96.1	32.04	.250
91 1 14	0 m	03.3	9.88	91.7	31.94	.280
	Btm	03.6	10.08	94.1	31.88	.130
91 2 4	0 m	02.9	10.36	95.3	31.95	.240
	Btm	02.9	10.26	94.3	31.89	.170
91 3 5	0 m	03.0	11.65	107.2	31.73	.230
	Btm	02.6	11.32	103.1	31.70	.210
91 4 9	0 m	03.3	10.45	95.7	29.87	.260
	Btm	03.7	10.10	94.2	31.11	.230
91 4 24	0 m	05.2	9.90	94.3	28.71	1.130
	Btm	03.5	10.70	99.0	30.84	.810
91 5 8	0 m	06.5	10.87	108.3	30.82	.240
	Btm	04.9	10.85	102.9	29.13	.200
91 5 14	0 m	05.9	10.53	103.5	30.99	1.050
	Btm	05.1	10.18	98.2	31.04	1.200
91 5 21	0 m	07.4	10.88	110.5	30.63	3.080
	Btm	06.7	11.26	112.6	30.67	2.080
91 5 28	0 m	07.0	12.14	122.3	30.89	7.180
	Btm	05.0			31.03	3.230
91 6 4	0 m	09.5	10.83	115.4	30.58	1.980
	Btm	07.6	10.94	111.7	30.80	5.400
91 6 11	0 m	09.2	10.51	111.5	30.95	1.430
	Btm	06.9	10.66	106.7	31.18	.970
91 6 18	0 m	09.4	10.06	107.5	31.31	.390
	Btm	08.0	10.17	105.2	31.30	.560
91 6 25	0 m	10.1	10.36	112.5	31.54	2.150
	Btm	08.9	10.86	114.9	31.45	1.550
91 7 9	0 m	11.2	10.08	112.2	31.50	.410
	Btm	10.0	10.05	108.7	31.47	.750
91 7 16	0 m	11.3	9.70	108.3	31.71	.780
	Btm	10.0	9.61	104.2	31.72	.260
91 7 24	0 m	13.6	9.76	114.3	31.45	.990
	Btm	11.5	9.80	109.8	31.57	.340
91 7 29	0 m	12.5	9.67	110.6	31.50	.590
	Btm	11.2	9.98	111.0	31.58	.340
91 8 6	0 m	14.5	8.84	105.3	31.30	.630
	Btm	11.9	9.42	106.4	31.57	.330
91 8 13	0 m	13.0	9.19	106.3	31.53	.460
	Btm	12.2	9.20	104.8	31.58	.140
91 8 19	0 m	13.7	7.58	88.9	31.52	.250
	Btm	12.1	8.40	95.5	32.03	.170
91 8 27	0 m	13.0	8.50	98.3	31.65	.490
	Btm	12.1	8.87	100.8	31.87	.170
91 9 3	0 m	13.9	8.18	96.6	31.92	.220
	Btm	12.0	8.58	97.4	31.99	.150
91 9 9	0 m	13.2	8.77	102.1	32.13	.380
	Btm	12.4	8.65	99.1	32.06	.300
91 9 17	0 m	13.1	7.77	90.4	32.24	.450
	Btm	11.8	8.36	94.6	32.26	.290
91 9 23	0 m	12.2	8.59	98.0	32.10	.350
	Btm	11.5	8.58	96.6	32.10	.210
91 10 1	0 m	11.2	8.19	91.1	31.60	.160
	Btm	11.1	8.19	91.2	32.10	.140
91 10 8	0 m	11.6	8.46	95.0	31.82	.380
	Btm	11.6	8.44	95.0	31.92	.280
91 10 15	0 m	11.2	8.22	91.4	31.38	.280
	Btm	10.8	8.14	90.2	32.07	.140
91 10 22	0 m	10.6	8.33	91.6	31.60	.200
	Btm	10.6	8.38	92.2	31.86	.180
91 11 5	0 m	09.9	8.98	97.2	31.96	.140
	Btm	09.8	8.89	96.1	31.87	.120
91 11 19	0 m	08.8	8.87	93.8	31.94	.080
	Btm	09.5	8.77	94.1	31.95	.090
91 12 10	0 m	06.0	9.15	90.8	31.91	.090
	Btm	06.3	9.26	92.6	31.90	.090

STATION 5 DATE	DEPTH	TEMP.C.	DO(mg/L)	DO(% SAT.)	SALINITY(‰)	CHL A(UG/L)
91 1 2	0 m	05.8			31.91	
	Btm	05.5			32.10	
91 1 14	0 m	03.3			31.94	
	Btm	01.0			31.92	
91 2 4	0 m	03.3			32.02	
	Btm	02.9			32.08	
91 3 5	0 m	03.0			31.76	
	Btm	02.7			31.72	
91 4 9	0 m	03.3			30.18	
	Btm	03.2			31.02	
91 4 24	0 m	04.9			28.83	
	Btm	03.5			30.06	
91 5 8	0 m	06.8				
	Btm	05.0			29.17	
91 5 14	0 m	06.6			30.84	
	Btm	04.7			31.14	
91 5 21	0 m	07.1			30.72	
	Btm	05.8			30.84	
91 5 28	0 m	07.5			30.89	
	Btm	05.1			31.11	
91 6 4	0 m	08.6			30.55	
	Btm	07.0			30.94	
91 6 11	0 m	09.5			30.94	
	Btm	07.6			31.19	
91 6 18	0 m	08.7			31.35	
	Btm	07.9			31.34	
91 6 25	0 m	10.1			31.50	
	Btm	08.7			31.49	
91 7 9	0 m	11.5			31.50	
	Btm	10.2			31.49	
91 7 16	0 m	12.1			31.74	
	Btm	09.9			31.76	
91 7 24	0 m	13.4			31.46	
	Btm	11.5			31.58	
91 7 29	0 m	14.0			31.37	
	Btm	11.2			31.60	
91 8 6	0 m	14.8			31.21	
	Btm	12.1			31.51	
91 8 13	0 m	12.9			31.60	
	Btm	12.0			31.72	
91 8 19	0 m	14.5			31.46	
	Btm	12.1			32.06	
91 8 27	0 m	13.2			31.41	
	Btm	12.0			32.01	
91 9 3	0 m	13.3			31.81	
	Btm	12.2			32.03	
91 9 9	0 m	13.2			32.03	
	Btm	12.4			31.99	
91 9 17	0 m	12.0			32.06	
	Btm	12.1			32.18	
91 9 23	0 m	12.5			32.16	
	Btm	11.9			32.17	
91 10 1	0 m	11.9			31.71	
	Btm	11.0			32.04	
91 10 8	0 m	11.3			31.85	
	Btm	10.7			31.80	
91 10 15	0 m	10.8			31.67	
	Btm	10.8			32.14	

STATION 7 DATE	DEPTH	TEMP.C.	DO(mg/L)	DO(% SAT.)	SALINITY(‰)	CHL A(UG/L)
91 1 2	0 m	05.9			31.76	
	Btm	05.1			31.76	
91 1 14	0 m	03.3			31.85	
	Btm	01.5			31.88	
91 2 4	0 m	03.2			32.05	
	Btm	05.5			32.02	
91 3 5	0 m	02.8			31.65	
	Btm	02.7			31.71	
91 4 9	0 m	03.5			30.40	
	Btm	03.7			31.00	
91 4 24	0 m	04.7			28.79	
	Btm	03.9			30.79	
91 5 8	0 m	07.2			29.44	
	Btm	04.9			30.75	
91 5 14	0 m	07.1			30.88	
	Btm	05.7			31.02	
91 5 21	0 m	07.8			30.82	
	Btm	05.8			30.95	
91 5 28	0 m	07.8			31.08	
	Btm	06.9			31.13	
91 6 4	0 m	09.0			30.67	
	Btm	07.0			31.11	
91 6 11	0 m	05.5			31.07	
	Btm	07.2			31.17	
91 6 18	0 m	09.8			31.40	
	Btm	07.6			31.42	
91 6 25	0 m	11.8			31.54	
	Btm	08.7			31.55	
91 7 9	0 m	11.0			31.62	
	Btm	10.2			31.59	
91 7 16	0 m	11.5			31.81	
	Btm	09.4			31.85	
91 7 24	0 m	14.5			31.41	
	Btm	11.4			31.74	
91 7 29	0 m	13.6			31.59	
	Btm	11.4			31.68	
91 8 6	0 m	15.0			31.04	
	Btm	11.5			31.69	
91 8 13	0 m	14.4			31.51	
	Btm	11.7			31.84	
91 8 19	0 m	13.9			31.28	
	Btm	11.9			31.95	
91 8 27	0 m	13.8			31.42	
	Btm	12.2			31.77	
91 9 3	0 m	14.6			31.87	
	Btm	12.1			31.91	
91 9 9	0 m	13.2			31.98	
	Btm	12.1			31.97	
91 9 17	0 m	13.0			32.25	
	Btm	12.1			32.20	
91 9 23	0 m	11.9			32.12	
	Btm	11.7			32.19	
91 10 1	0 m	11.0			31.98	
	Btm	10.8			31.96	
91 10 8	0 m	11.5			31.89	
	Btm	11.4			31.84	
91 10 15	0 m	10.6			31.89	
	Btm	10.6			32.05	

STATION 8 DATE	DEPTH	TEMP.C.	DO(mg/L)	DO(% SAT.)	SALINITY(‰)	CHL A(UG/L)
91 1 2	0 m	05.9			31.82	
	Btm	05.0			31.91	
91 1 14	0 m	03.5			31.90	
	Btm	00.1			32.07	
91 2 4	0 m	03.3			32.04	
	Btm	03.3			32.02	
91 3 5	0 m	03.0			31.72	
	Btm	02.7			31.74	
91 4 9	0 m	03.0			29.50	
	Btm	04.0			30.82	
91 4 24	0 m	05.2			29.61	
	Btm	04.0			30.54	
91 5 8	0 m	06.0			30.14	
	Btm	05.0			29.34	
91 5 14	0 m	06.3			30.96	
	Btm	05.6			31.02	
91 5 21	0 m	07.0			30.71	
	Btm	05.8			31.01	
91 5 28	0 m	07.8			30.82	
	Btm	06.9			31.04	
91 6 4	0 m	09.0			30.43	
	Btm	07.6			30.87	
91 6 11	0 m	08.9			31.03	
	Btm	07.1			31.16	
91 6 18	0 m	08.5			31.47	
	Btm	07.9			31.37	
91 6 25	0 m	10.6			31.51	
	Btm	09.9			31.54	
91 7 9	0 m	11.0			31.51	
	Btm	11.8			31.52	
91 7 16	0 m	11.3			31.76	
	Btm	09.8			31.82	
91 7 24	0 m	13.9			31.44	
	Btm	11.5			31.61	
91 7 29	0 m	14.4			31.53	
	Btm	11.2			31.70	
91 8 6	0 m	14.8			31.59	
	Btm	11.8			31.62	
91 8 13	0 m	13.9			31.67	
	Btm	11.9			31.74	
91 8 19	0 m	13.3			31.56	
	Btm	11.7			31.97	
91 8 27	0 m	13.5			31.61	
	Btm	12.0			31.79	
91 9 3	0 m	14.1			31.95	
	Btm	12.1			32.14	
91 9 9	0 m	13.1			31.98	
	Btm	12.0				
91 9 17	0 m	13.0			32.18	
	Btm	11.9			32.15	
91 9 23	0 m	11.9			32.31	
	Btm	11.8			32.17	
91 10 1	0 m	11.0			32.11	
	Btm	11.0			32.13	
91 10 8	0 m	11.9			31.84	
	Btm	11.3			31.87	
91 10 15	0 m	11.0			32.04	
	Btm	10.7			32.05	

STATION DATE	9 DEPTH	TEMP.C.	DO(mg/L)	DO(% SAT.)	SALINITY(‰)	CHL A(UG/L)
91 1 2	0 m	06.1			31.90	
	Btm	05.1			32.01	
91 1 14	0 m	03.8			31.80	
	Btm	02.0			31.85	
91 2 4	0 m	03.2			31.99	
	Btm	03.0			32.08	
91 3 5	0 m	03.0			31.77	
	Btm	02.7			31.73	
91 4 9	0 m	03.0			30.02	
	Btm	04.0			31.10	
91 4 24	0 m	05.5			29.50	
	Btm	04.0			30.65	
91 5 8	0 m	06.4			29.06	
	Btm	04.9			30.85	
91 5 14	0 m	06.5			30.90	
	Btm	05.0			31.18	
91 5 21	0 m	07.2			30.70	
	Btm	05.7			31.23	
91 5 28	0 m	07.8			30.93	
	Btm	07.0			31.02	
91 6 4	0 m	09.3			30.57	
	Btm	07.0			30.96	
91 6 11	0 m	09.4			31.08	
	Btm	07.2			31.15	
91 6 18	0 m	08.6			31.37	
	Btm	07.6			31.40	
91 6 25	0 m	10.5			31.53	
	Btm	08.6			31.49	
91 7 9	0 m	11.0			31.50	
	Btm	10.3			31.48	
91 7 16	0 m	10.9			31.78	
	Btm	09.8			31.80	
91 7 24	0 m	14.5			31.21	
	Btm	11.4			31.74	
91 7 29	0 m	14.4			31.56	
	Btm	11.1			31.67	
91 8 6	0 m	14.5			31.24	
	Btm	11.8			31.64	
91 8 13	0 m	13.5			31.85	
	Btm	11.8			31.74	
91 8 19	0 m	13.0			31.60	
	Btm	11.6			31.91	
91 8 27	0 m	13.1			31.48	
	Btm	12.2			31.81	
91 9 3	0 m	13.3			31.97	
	Btm	11.8			31.97	
91 9 9	0 m	13.1				
	Btm	11.9			31.98	
91 9 17	0 m	13.2			32.13	
	Btm	11.8			32.22	
91 9 23	0 m	12.1			32.13	
	Btm	11.8			32.22	
91 10 1	0 m	11.3			32.12	
	Btm	10.9			32.12	
91 10 8	0 m	11.6			31.79	
	Btm	11.3			31.86	
91 10 15	0 m	11.0			32.03	
	Btm	10.6			32.34	

STATION DATE	11 DEPTH	TEMP.C.	DO(mg/L)	DO(% SAT.)	SALINITY(‰)	CHL A(UG/L)
91 1 2	0 m	05.6			31.59	
	Btm	05.5			31.70	
91 1 14	0 m	03.5			31.76	
	Btm	01.0			31.74	
91 2 4	0 m	02.9			31.90	
	Btm	02.8			32.01	
91 3 5	0 m	02.9			31.22	
	Btm	02.7			31.68	
91 4 9	0 m	03.8			30.93	
	Btm	02.4			31.40	
91 4 24	0 m	04.8			30.39	
	Btm	03.9			31.27	
91 5 8	0 m	06.2			30.51	
	Btm	04.9			30.06	
91 5 14	0 m	06.2			28.30	
	Btm	05.7			28.28	
91 5 21	0 m	07.0			31.17	
	Btm	05.7			31.49	
91 5 28	0 m	06.7			31.23	
	Btm	06.2			31.25	
91 6 4	0 m	08.4			31.20	
	Btm	06.9			31.53	
91 6 11	0 m	08.0			31.32	
	Btm	07.3			31.38	
91 6 18	0 m	09.0			31.33	
	Btm	07.3			31.51	
91 6 25	0 m	09.0			31.60	
	Btm	08.4			31.62	
91 7 9	0 m	10.0			31.76	
	Btm	09.3			31.78	
91 7 16	0 m	11.4			31.74	
	Btm	09.5			31.85	
91 7 24	0 m	11.2			31.84	
	Btm	10.4			31.90	
91 7 29	0 m	12.9			31.71	
	Btm	10.2			31.92	
91 8 6	0 m	12.6			31.57	
	Btm	10.6			31.86	
91 8 13	0 m	12.8			31.56	
	Btm	11.1			31.92	
91 8 19	0 m	13.5			31.49	
	Btm	12.0			32.04	
91 8 27	0 m	13.0			31.59	
	Btm	11.9			31.87	
91 9 3	0 m	12.8			31.67	
	Btm	11.7			32.04	
91 9 9	0 m	12.5			31.83	
	Btm	11.9			31.84	
91 9 17	0 m	12.6			32.16	
	Btm	10.8			32.32	
91 9 23	0 m	11.9			32.17	
	Btm	11.3			32.19	
91 10 1	0 m	10.9			31.65	
	Btm	10.5			32.28	
91 10 8	0 m	10.9			31.82	
	Btm	11.1			31.92	
91 10 15	0 m	10.5			31.66	
	Btm	10.4			32.22	

STATION 13 DATE	DEPTH	TEMP.C.	DO(mg/L)	DO(% SAT.)	SALINITY(‰)	CHL A(UG/L)
91 1 2	0 m	05.9			31.89	
	Btm	06.5			31.90	
91 1 14	0 m	03.0			31.89	
	Btm	04.0			31.92	
91 2 4	0 m	03.3			32.08	
	Btm	02.7			32.04	
91 3 5	0 m	03.1			31.62	
	Btm	02.4			31.69	
91 4 9	0 m	03.3			30.37	
	Btm	02.4			31.40	
91 4 24	0 m	04.7			29.70	
	Btm	03.8			30.85	
91 5 8	0 m	05.5			30.56	
	Btm	04.1			30.92	
91 5 14	0 m	06.1			28.28	
	Btm	05.2			28.28	
91 5 21	0 m	06.8			31.07	
	Btm	06.5			31.25	
91 5 28	0 m	06.6			31.16	
	Btm	06.6			31.19	
91 6 4	0 m	07.7			31.12	
	Btm	06.9			31.15	
91 6 11	0 m	08.6			31.06	
	Btm	07.6			31.27	
91 6 18	0 m	09.0			31.39	
	Btm	07.7			31.42	
91 6 25	0 m	09.6			31.51	
	Btm	08.3			31.67	
91 7 9	0 m	10.0			31.64	
	Btm	09.7			31.65	
91 7 16	0 m	10.3			31.83	
	Btm	11.8			31.82	
91 7 24	0 m	11.9			31.41	
	Btm	10.6			31.76	
91 7 29	0 m	12.6			31.66	
	Btm	11.2			31.74	
91 8 6	0 m	12.9			31.66	
	Btm	11.4			31.70	
91 8 13	0 m	12.9			31.73	
	Btm	11.1			31.74	
91 8 19	0 m	12.8			31.74	
	Btm	11.5			31.96	
91 8 27	0 m	13.0			31.68	
	Btm	12.2			31.81	
91 9 3	0 m	12.3			31.89	
	Btm	11.8			31.98	
91 9 9	0 m	12.2			32.02	
	Btm	11.6			32.03	
91 9 17	0 m	12.2			32.19	
	Btm	11.6			32.11	
91 9 23	0 m	11.8			32.19	
	Btm	11.4			32.17	
91 10 1	0 m	11.3			31.96	
	Btm	10.8				
91 10 8	0 m	11.1			31.89	
	Btm	11.1			31.97	
91 10 15	0 m	10.4			31.97	
	Btm	10.6			32.06	

STATION DATE	14 DEPTH	TEMP.C.	DO(mg/L)	DO(% SAT.)	SALINITY(‰)	CHL A(UG/L)
91 1 2	0 m	05.1			31.01	
	Btm	04.0			30.99	
91 1 14	0 m	03.0			31.43	
	Btm	-0.1			31.38	
91 2 4	0 m	03.2			31.79	
	Btm	02.7			31.92	
91 3 5	0 m	02.8			31.03	
	Btm	02.7			31.21	
91 4 9	0 m	03.8			30.29	
	Btm	02.6			31.11	
91 4 24	0 m	04.3			30.24	
	Btm	04.2			30.71	
91 5 8	0 m	07.0			30.32	
	Btm	05.0			30.85	
91 5 14	0 m	06.1			28.26	
	Btm	05.7			28.28	
91 5 21	0 m	06.7			30.93	
	Btm	05.7			31.17	
91 5 28	0 m	07.8			30.85	
	Btm	08.1			30.95	
91 6 4	0 m	08.2			30.92	
	Btm	07.0			31.11	
91 6 11	0 m	08.3			31.08	
	Btm	08.2			31.08	
91 6 18	0 m	08.8			31.21	
	Btm	07.9			31.32	
91 6 25	0 m	09.9			31.40	
	Btm	08.8			31.34	
91 7 9	0 m	10.0			31.65	
	Btm	09.6			31.66	
91 7 16	0 m	10.9			31.70	
	Btm	10.1			31.75	
91 7 24	0 m	12.4			31.27	
	Btm	11.4			31.71	
91 7 29	0 m	12.3			31.44	
	Btm	11.2			31.67	
91 8 6	0 m	12.5			31.37	
	Btm	11.2			31.67	
91 8 13	0 m	12.8			31.43	
	Btm	13.9			31.55	
91 8 19	0 m	12.5			31.74	
	Btm	11.6			31.90	
91 8 27	0 m	13.5			31.34	
	Btm	12.2			31.66	
91 9 3	0 m	12.9				
	Btm	11.7			31.88	
91 9 9	0 m	12.6			31.62	
	Btm	12.0			31.76	
91 9 17	0 m	12.9			31.63	
	Btm	12.1			32.12	
91 9 23	0 m	12.1			31.84	
	Btm	12.1			31.89	
91 10 1	0 m	11.1			31.10	
	Btm	11.4			31.82	
91 10 8	0 m	10.9			31.17	
	Btm	10.9			31.40	
91 10 15	0 m	10.1			30.85	
	Btm	10.4			31.91	

STATION 15 DATE	DEPTH	TEMP.C.	DO(mg/L)	DO(% SAT.)	SALINITY(‰)	CHL A(UG/L)
91 1 2	0 m	06.0	10.02	99.5	32.26	.200
	Btm	06.0	10.14	100.6	32.17	.330
91 1 14	0 m	04.0	9.88	93.4	32.00	.250
	Btm	03.6	9.99	93.4	32.04	.200
91 2 4	0 m	03.3	10.69	99.3	32.03	.360
	Btm	02.9	10.65	97.8	31.77	.130
91 3 5	0 m	03.0	11.55	106.4	31.81	.230
	Btm	02.7	11.59	105.9	31.72	.200
91 4 9	0 m	03.0	10.61	96.2	29.58	.410
	Btm	02.6	10.41	94.4	31.18	.050
91 4 24	0 m	04.6	10.99	103.8	29.77	.560
	Btm	03.5	10.68	99.2	31.42	.720
91 5 8	0 m	07.0	10.96	108.5	28.16	.350
	Btm	04.9	10.91	104.6	30.76	.440
91 5 14	0 m	06.5	11.12	110.8	30.82	3.070
	Btm	04.7	10.48	100.2	31.11	1.190
91 5 21	0 m	07.5	11.83	120.1	30.20	2.520
	Btm	05.8	11.33	111.3	31.30	2.440
91 5 28	0 m	08.4	12.43	129.3	30.70	4.800
	Btm	05.0	12.07	116.1	30.80	2.180
91 6 4	0 m	08.8	12.74	133.2	30.08	5.240
	Btm	06.9	12.78	128.1	30.16	6.980
91 6 11	0 m	10.7	10.83	118.7	30.80	.700
	Btm	07.2	10.99	111.4	31.06	1.520
91 6 18	0 m	10.4	11.01	119.5	31.39	.700
	Btm	07.4	11.04	112.8	31.40	1.270
91 6 25	0 m	11.1	12.20	135.4	31.43	1.510
	Btm	08.9	12.29	129.8	31.46	1.270
91 7 9	0 m	11.9	10.66	120.3	31.52	.780
	Btm	09.7	10.18	109.6	31.50	.340
91 7 16	0 m	11.8	10.17	114.7	31.66	.300
	Btm	09.6	10.43	112.1	31.71	.460
91 7 24	0 m	14.2	10.31	121.8	30.97	1.360
	Btm	11.9	10.15	114.6	31.42	.480
91 7 29	0 m	13.6	10.22	119.6	31.53	.280
	Btm	11.2	10.64	118.4	31.55	.230
91 8 6	0 m	14.2	9.84	116.5	31.27	.960
	Btm	11.7	10.08	113.5	31.64	1.040
91 8 13	0 m	13.9	8.88	104.8	31.73	.050
	Btm	11.7	9.34	105.1	31.71	.150
91 8 19	0 m	13.5	8.43	98.6	31.65	.220
	Btm	11.4	8.64	96.7	32.00	.190
91 8 27	0 m	14.0	8.90	105.2	31.65	.450
	Btm	12.2	8.84	100.7	31.86	.160
91 9 3	0 m	14.3	8.86	105.5	31.98	.310
	Btm	11.6	8.73	98.2	32.05	.120
91 9 9	0 m	13.4	9.33	109.2	31.98	.400
	Btm	12.2	9.18	104.7	32.02	.280
91 9 17	0 m	13.8	8.50	100.4	32.04	.340
	Btm	12.0	8.61	98.0	32.25	.180
91 9 23	0 m	12.5	9.02	103.5	32.13	.480
	Btm	11.5	8.95	100.5	32.12	.180
91 10 1	0 m	11.3	8.39	93.9	32.34	.170
	Btm	11.0			32.38	.190
91 10 8	0 m	11.4	8.91	99.7	31.73	.460
	Btm	10.9	9.03	99.9	31.70	.340
91 10 15	0 m	10.8	8.52	94.3	32.18	.170
	Btm	10.8	8.42	93.3	32.24	.140
91 10 22	0 m	10.5	8.84	96.7	31.35	.300
	Btm	10.6	8.62	94.6	31.66	.180
91 11 5	0 m	09.6	9.04	97.4	31.86	.220
	Btm	09.8	8.80	95.0	32.03	.070
91 11 19	0 m	09.1	8.95	95.4	32.17	.100
	Btm	09.5	8.79	94.6	32.12	.100
91 12 10	0 m	05.9	9.44	93.2	31.88	.200
	Btm	07.3	9.32	95.2	31.90	.090

STATION DATE	16 DEPTH	TEMP.C.	DO(mg/L)	DO(% SAT.)	SALINITY(‰)	CHL A(UG/L)
91 1 14	0 m	04.2	9.92	94.2	32.15	.360
	10 m	04.0	9.88	93.4	32.06	.290
	25 m	03.5	9.92	92.5	31.90	.190
	50 m	03.6	9.28	86.9	32.47	.160
91 4 24	0 m	05.2	10.95	105.2	30.14	1.270
	10 m	03.5	10.93	101.8	31.68	.910
	25 m		10.82		30.85	.370
	50 m	03.5	10.59	98.7	31.84	.580
91 5 8	0 m	06.5	9.66	94.5	27.94	.330
	10 m	04.9	11.30	108.2	30.65	1.590
	25 m	05.9	10.95	107.9	31.45	.350
	50 m	04.9	10.86	104.8	31.81	.090
91 5 14	0 m	06.3	11.10	110.0	30.85	3.630
	10 m	05.0	10.37	100.0	31.35	.480
	25 m	04.5	10.35	98.8	31.63	.340
	50 m	05.3	10.47	101.9	31.74	.340
91 5 21	0 m	06.1	11.36	112.3	31.08	.950
	10 m	05.7	11.41	111.7	31.11	1.670
	25 m	05.2	11.19	108.5	31.44	.350
91 5 28	0 m	07.5	12.88	131.4	30.96	4.400
	10 m	05.0	11.75	113.2	31.11	12.500
	25 m	06.6	10.75	107.9	31.47	1.140
	50 m	05.0	10.48	101.3	31.68	.170
91 6 18	0 m	09.2	11.71	124.6	31.36	1.260
	10 m	06.9	10.52	106.3	31.56	.340
	25 m	06.5	10.36	103.9	31.60	.310
	50 m	06.2	10.30	102.4	31.73	.270
91 6 25	0 m	10.8	12.18	134.4	31.54	.700
	10 m	08.1	11.63	120.9	31.58	2.000
	25 m	06.9	10.10	102.2	31.76	.240
	50 m	06.4	10.04	100.6	31.92	.190
91 7 9	0 m	10.5	10.96	120.1	31.56	.830
	10 m	08.8	11.02	116.4	31.62	.280
	25 m	08.6	10.35	108.9	31.67	.300
	50 m	07.2	9.45	96.6	32.21	.060
91 7 16	0 m	11.7	11.19	126.0	31.62	.490
	10 m	09.3	10.38	110.8	31.68	.190
	25 m	10.2	10.20	111.2	32.00	.330
	50 m	08.2	9.93	103.4	31.80	.330
91 7 24	0 m	13.6	10.66	124.9	31.50	1.160
	10 m	11.3	10.51	117.5	31.70	.800
	25 m	09.5	9.77	105.0	31.82	.600
	50 m	09.0	9.37	99.8	32.41	1.420
91 7 29	0 m	13.2	10.76	125.1	31.68	.790
	10 m	11.4	10.88	121.7	31.69	.760
	25 m	11.2	10.02	111.8	31.88	.250
	50 m	09.2	10.01	107.0	32.01	.060
91 8 6	0 m	13.8	10.47	123.3	31.67	.960
	10 m	10.8	10.09	111.4	31.81	.540
	25 m	10.2	9.76	106.5	31.92	.540
	50 m	09.5	9.65	104.0	32.08	.330
91 8 13	0 m	12.8	9.65	111.2	31.78	.390
	10 m	11.7	9.34	105.2	31.81	.340
	25 m	10.8	9.14	101.0	31.95	.260
	50 m	11.0	9.25	103.0	32.35	.100
91 8 19	0 m	12.5	9.20	105.1	31.83	.560
	10 m	11.5	8.75	98.2	31.93	.490

STATION 16 DATE	DEPTH	TEMP.C.	DO(mg/L)	DO(% SAT.)	SALINITY(‰)	CHL A(UG/L)
	25 m	10.7	8.62	95.3	32.06	.170
	50 m	09.8	8.40	91.0	32.30	.110
91 9 3	0 m	13.1	9.52	110.7	32.01	.710
	10 m	11.8	9.06	102.5	32.11	.190
	25 m	10.8	8.45	93.6	32.24	.080
	50 m	10.2	8.84	96.7	32.35	.070
91 9 9	0 m	13.4	9.84	115.0	31.99	.640
	10 m	11.0	8.73	97.2	32.37	.040
	25 m	11.6	8.72	98.4	32.37	.090
	50 m	10.4	8.72	95.9	32.40	
91 9 17	0 m	13.0	9.19	106.7	32.21	.600
	10 m	11.2	8.85	98.9	32.18	.440
	25 m	11.2	8.37	93.4	32.26	.200
	50 m	10.8	8.02	89.0	32.48	.090
91 10 8	0 m	11.0	8.53	94.7	32.05	.330
	10 m	10.8	8.16	90.4	32.20	.160
	25 m	10.8	8.27	91.7	32.24	.130
	50 m	10.3	8.12	89.2	32.66	.030
91 10 15	0 m	10.8	8.46	93.7	32.28	.260
	10 m	10.5	8.38	92.2	32.22	.180
	25 m	10.5	8.12	89.4	32.54	.060
	50 m	10.6	8.13	90.0	32.79	.060
91 11 5	0 m	09.9			31.94	.180
	10 m	09.7	9.03	97.5	32.08	.090
	25 m	09.7	8.94	96.6	32.17	.090
	50 m	09.7	8.66	93.9	32.72	.080
91 11 19	0 m	08.9	8.99	95.2	31.88	.100
	10 m	09.5	8.95	96.2	31.96	.080
	25 m	09.5	9.08	97.6	32.04	.110
	50 m	09.5	8.79	94.8	32.37	.060
91 12 10	0 m	07.0	9.20	93.5	32.14	.090
	10 m	07.4	9.08	93.1	32.03	.100
	25 m	07.4	8.92	91.6	32.08	.080
	50 m	07.6	9.10	93.8	32.08	.080

STATION DATE	17 DEPTH	TEMP.C.	DO(mg/L)	DO(% SAT.)	SALINITY(‰)	CHL A(UG/L)
91 1 2	0 m	04.4	10.42	97.3	28.70	.200
	Btm	02.5	9.96	89.5	30.06	.210
91 1 14	0 m	02.3	10.40	92.9	29.97	.270
	Btm	02.2	10.11	90.5	30.74	.140
91 2 4	0 m	01.9	10.36	93.6	28.75	.200
	Btm	02.8	10.47	95.2	30.88	.160
91 3 5	0 m	02.6	12.03	105.3	25.81	.230
	Btm	02.6	11.48	103.8	30.75	.260
91 4 9	0 m	04.9	11.23	98.3	17.02	.230
	Btm	02.6	10.32	93.4	30.78	.520
91 4 24	0 m	05.5	11.44	105.3	22.52	16.400
	Btm	04.2	11.34	106.4	29.94	8.020
91 5 8	0 m	07.9	11.42	110.2	20.87	.850
	Btm	06.4	11.61	114.8	30.12	.630
91 5 14	0 m	06.9	11.07	109.7	28.53	3.430
	Btm	05.0	11.10	104.8	28.23	2.220
91 5 21	0 m	06.8	11.33	113.2	30.17	.770
	Btm	05.7	11.35	110.8	30.60	.940
91 5 28	0 m	08.2	10.70	110.1	29.70	1.200
	Btm	08.1	10.88	111.8	29.90	1.050
91 6 4	0 m	08.8	10.92	114.2	30.11	1.360
	Btm	07.0	10.78	108.6	30.77	1.760
91 6 11	0 m	11.0	10.55	115.5	29.66	1.550
	Btm	09.2	10.66	112.6	30.39	1.190
91 6 18	0 m	09.2	10.44	110.8	30.97	.820
	Btm	08.4	10.54	109.9	31.04	.630
91 6 25	0 m	10.9	10.24	112.6	30.59	1.370
	Btm	09.7	10.60	113.8	31.06	.660
91 7 9	0 m	11.7	9.73	109.1	30.90	.180
	Btm	11.9	9.89	111.5	31.13	.170
91 7 16	0 m	11.6	9.88	110.6	31.16	.110
	Btm	12.3	10.39	118.1	31.21	.390
91 7 24	0 m	13.2	10.00	115.1	29.61	1.270
	Btm	12.1	9.81	111.0	31.00	1.320
91 7 29	0 m	14.6	9.48	112.7	30.52	.890
	Btm	11.4	9.21	103.0	31.44	.700
91 8 6	0 m	13.6	9.90	115.0	30.22	1.070
	Btm	11.9	9.37	105.8	31.45	.510
91 8 13	0 m	14.0			30.13	.340
	Btm	13.9	9.49	110.8	30.12	.480
91 8 19	0 m	14.3	8.51	100.7	30.88	.550
	Btm	12.3	8.44	96.1	31.58	.300
91 8 27	0 m	14.5	8.48	99.8	29.34	.410
	Btm	13.1	8.42	97.0	30.65	.310
91 9 3	0 m	13.2	8.64	99.5	30.40	.290
	Btm	12.5	8.62	98.5	31.43	.160
91 9 9	0 m	13.4	8.90	102.7	29.90	.340
	Btm	13.0	8.46	97.2	30.48	.220
91 9 17	0 m	13.1	8.68	100.4	31.33	.430
	Btm	12.1	8.38	95.2	31.87	.170
91 9 23	0 m	12.4	8.72	99.1	30.96	.210
	Btm	12.1	8.46	96.0	31.68	.240
91 10 1	0 m	11.1	8.60	94.4	29.51	.150
	Btm	11.4	8.30	92.6	31.34	.160
91 10 8	0 m	11.0	8.04	86.9	27.61	.140
	Btm	13.0	8.47	97.2	30.41	.170
91 10 15	0 m	10.0	8.68	91.4	26.74	.140
	Btm	10.9	8.39	92.6	31.33	.120
91 10 22	0 m	10.2	8.59	92.4	29.66	.150
	Btm	10.5	8.24	89.8	30.66	.140
91 11 5	0 m	09.9	9.22	97.9	28.73	.160
	Btm	09.7	8.93	94.9	29.58	.130
91 11 19	0 m	07.5	9.26	93.8	30.05	.080
	Btm	06.1	9.02	88.8	30.44	.080
91 12 10	0 m	05.4	9.44	91.6	30.81	.090
	Btm	06.4	9.35	92.7	30.55	.100

DATE	DEPTH	TEMP.C	SALINTY ‰
STATION 3			
92 1 6	0 m	5.5	31.66
92 1 6	Btm	5.3	31.65
92 2 11	0 m	1.1	
92 2 11	Btm	1.2	
92 3 31	0 m	1.6	30.98
92 3 31	Btm	1.5	31.02
92 4 13	0 m	2.1	30.79
92 4 13	Btm	2.1	30.79
92 4 22	0 m	3.3	30.78
92 4 22	Btm	2.8	30.83
92 5 5	0 m	3.2	29.39
92 5 5	Btm	2.8	30.19
92 5 19	0 m	5.3	30.08
92 5 19	Btm	4.2	30.44
92 5 26	0 m	6.2	28.90
92 5 26	Btm	5.0	30.49
92 6 9	0 m	7.3	30.36
92 6 9	Btm	6.5	30.51
92 6 16	0 m	6.9	30.72
92 6 16	Btm	6.6	30.75
92 6 23	0 m	9.0	30.25
92 6 23	Btm	7.4	30.54
92 6 30	0 m	8.4	30.51
92 6 30	Btm	8.1	30.53
92 7 7	0 m	9.2	30.43
92 7 7	Btm	8.0	30.61
92 7 14	0 m	8.7	30.63
92 7 14	Btm	8.3	30.74
92 7 21	0 m	10.7	30.35
92 7 21	Btm	9.7	30.59
92 8 11	0 m	10.9	30.95
92 8 11	Btm	10.6	31.01
92 8 24	0 m	12.5	30.75
92 8 24	Btm	10.9	31.06
92 8 31	0 m	11.2	31.20
92 8 31	Btm	11.0	31.22
92 9 16	0 m	11.4	31.46
92 9 16	Btm	11.2	31.47
92 9 21	0 m	12.0	31.89
92 9 21	Btm	11.2	31.90
92 10 27	0 m	9.6	32.02
92 10 27	Btm	9.6	32.08
92 11 10	0 m	7.9	31.81
92 11 10	Btm	7.9	31.90
92 11 24	0 m	7.3	31.96
92 11 24	Btm	7.3	31.96
92 12 22	0 m	5.2	31.94
92 12 22	Btm	5.2	31.94

DATE	DEPTH	TEMP.C	SALINTY ‰
STATION 15			
92 1 6	0 m	5.1	31.48
92 1 6	Btm	5.4	31.61
92 2 11	0 m	.8	
92 2 11	Btm	.9	
92 3 31	0 m	1.9	30.84
92 3 31	Btm	1.5	31.02
92 4 13	0 m	2.1	30.82
92 4 13	Btm	2.0	30.86
92 4 22	0 m	2.8	30.76
92 4 22	Btm	2.3	30.85
92 5 5	0 m	2.9	28.55
92 5 5	Btm	2.7	29.82
92 5 19	0 m	4.5	30.08
92 5 19	Btm	3.8	30.36
92 5 26	0 m	6.2	28.28
92 5 26	Btm	5.6	29.15
92 6 9	0 m	7.9	30.23
92 6 9	Btm	5.8	30.69
92 6 16	0 m	7.4	30.69
92 6 16	Btm	6.4	30.79
92 6 23	0 m	8.0	30.49
92 6 23	Btm	7.1	30.54
92 6 30	0 m	8.7	30.48
92 6 30	Btm	8.3	30.46
92 7 7	0 m	8.3	30.34
92 7 7	Btm	8.0	30.51
92 7 14	0 m	8.8	30.48
92 7 14	Btm	8.4	30.67
92 7 21	0 m	10.8	30.33
92 7 21	Btm	8.9	30.68
92 8 11	0 m	11.4	30.43
92 8 11	Btm	11.3	30.72
92 8 24	0 m	12.0	30.90
92 8 24	Btm	9.9	31.12
92 8 31	0 m	11.8	31.16
92 8 31	Btm	10.1	31.41
92 9 14	0 m	11.6	31.37
92 9 14	Btm	10.8	31.52
92 9 21	0 m	11.7	31.92
92 9 21	Btm	11.1	25.50
92 10 27	0 m	9.7	31.79
92 10 27	Btm	9.8	32.17
92 11 10	0 m	7.8	31.69
92 11 10	Btm	7.8	31.86
92 11 24	0 m	7.2	31.95
92 11 24	Btm	7.2	31.96
92 12 22	0 m	5.2	31.73
92 12 22	Btm	5.2	31.95

DATE	DEPTH	TEMP.C	SALINTY ‰
STATION 16			
92 1 6	0 m	6.7	31.99
92 1 6	10 m	6.4	32.08
92 1 6	25 m	6.4	32.12
92 1 6	50 m	6.3	32.12
92 3 31	0 m	1.4	30.92
92 3 31	10 m	1.4	31.03
92 3 31	25 m	1.6	31.25
92 3 31	50 m	1.5	31.32
92 4 13	0 m	2.1	30.67
92 4 13	10 m	2.1	30.96
92 4 13	25 m	2.1	31.03
92 4 13	50 m	2.3	31.48
92 4 22	0 m	2.3	30.85
92 4 22	10 m	2.4	31.06
92 4 22	25 m	2.3	31.11
92 4 22	50 m	2.4	31.23
92 5 5	0 m	2.9	28.58
92 5 5	10 m	3.0	29.08
92 5 5	25 m	3.0	30.63
92 5 5	50 m	2.7	31.17
92 5 19	0 m	4.2	30.50
92 5 19	10 m	3.8	30.68
92 5 19	25 m	3.5	31.00
92 5 19	50 m	3.3	31.15
92 5 26	0 m	5.5	29.85
92 5 26	10 m	5.0	30.46
92 5 26	25 m	4.1	30.98
92 5 26	50 m	3.3	31.29
92 6 9	0 m	6.4	30.34
92 6 9	10 m	5.5	30.66
92 6 9	25 m	5.1	30.74
92 6 9	50 m	4.2	31.25
92 6 16	0 m	6.2	30.77
92 6 16	10 m	5.9	30.83
92 6 16	25 m	5.2	30.93
92 6 16	50 m	4.9	31.17
92 6 23	0 m	7.6	30.58
92 6 23	10 m	6.8	30.74
92 6 23	25 m	5.7	31.02
92 6 23	50 m	5.1	31.35
92 7 7	0 m	7.2	30.82
92 7 7	10 m	6.9	30.92
92 7 7	25 m	6.5	31.12
92 7 7	50 m	6.0	31.36
92 7 14	0 m	8.6	30.69
92 7 14	10 m	7.8	30.93
92 7 14	25 m	7.0	31.12
92 7 14	50 m	6.4	31.38
92 7 21	0 m	9.3	30.71
92 7 21	10 m	8.6	30.86
92 7 21	25 m	7.5	31.16
92 7 21	50 m	6.9	31.41
92 8 11	0 m	10.9	30.73
92 8 11	10 m	10.1	31.04
92 8 11	25 m	8.5	31.46
92 8 11	50 m	7.8	31.75
92 8 24	10 m	11.6	30.89

DATE	DEPTH	TEMP.C	SALINTY ‰
STATION 16			
92 8 24	10 m	10.4	31.08
92 8 24	25 m	9.3	31.44
92 8 24	50 m	8.0	31.91
92 8 31	0 m	11.2	31.25
92 8 31	10 m	10.9	31.16
92 8 31	25 m	10.1	31.45
92 8 31	50 m	9.0	31.72
92 9 15	0 m	11.6	31.51
92 9 15	10 m	10.9	31.46
92 9 15	25 m	10.5	31.57
92 9 15	50 m	9.2	31.88
92 9 21	0 m	11.1	28.92
92 9 21	10 m	11.0	31.97
92 9 21	25 m	10.6	31.96
92 9 21	50 m	9.3	32.29
92 10 27	0 m	9.8	28.67
92 10 27	10 m	9.8	32.09
92 10 27	25 m	9.5	32.42
92 10 27	50 m	9.3	32.69
92 11 10	0 m	8.1	32.07
92 11 10	10 m	8.2	32.13
92 11 10	25 m	8.5	32.24
92 11 10	50 m	9.0	32.54

DATE	DEPTH	TEMP.C	SALINTY ‰
STATION 17			
92 1 6	0 m	3.4	28.66
92 1 6	Btm	3.5	30.60
92 2 11	0 m	.0	
92 2 11	Btm	.1	
92 3 31	0 m	1.9	27.55
92 3 31	Btm	1.8	30.04
92 4 13	0 m	2.0	28.27
92 4 13	Btm	2.3	29.25
92 4 22	0 m	3.8	28.18
92 4 22	Btm	3.5	28.82
92 5 5	0 m	4.2	27.91
92 5 5	Btm	4.1	28.13
92 5 19	0 m	5.9	28.29
92 5 19	Btm	5.9	28.32
92 5 26	0 m	7.0	29.28
92 5 26	Btm	5.1	30.36
92 6 9	0 m	7.8	29.78
92 6 9	Btm	6.7	30.43
92 6 16	0 m	8.6	29.32
92 6 16	Btm	8.6	29.34
92 6 23	0 m	9.9	28.55
92 6 23	Btm	8.7	29.70
92 6 30	0 m	11.3	25.35
92 6 30	Btm	9.5	28.67
92 7 7	0 m	9.0	29.44
92 7 7	Btm	8.2	30.36
92 7 14	0 m	10.0	28.79
92 7 14	Btm	9.4	29.86
92 7 21	0 m	12.1	27.92
92 7 21	Btm	8.9	30.63
92 8 11	0 m	12.3	29.13
92 8 11	Btm	11.2	30.19
92 8 18	0 m	12.2	28.52
92 8 18	Btm	11.5	29.96
92 8 24	0 m	12.2	29.95
92 8 24	Btm	10.9	30.81
92 8 31	0 m	12.1	29.60
92 8 31	Btm	12.1	29.65
92 9 17	0 m	12.7	30.25
92 9 17	Btm	11.5	31.11
92 9 21	0 m	10.4	31.98
92 9 21	Btm	11.2	31.61
92 10 27	0 m	9.3	30.48
92 10 27	Btm	9.3	31.47
92 11 10	0 m	7.2	30.45
92 11 10	Btm	7.5	31.11
92 11 24	0 m	6.6	30.76
92 11 24	Btm	6.8	31.21
92 12 22	0 m	4.2	30.65
92 12 22	Btm	4.7	31.30

Appendix 4. Plant nutrient concentrations in µg/L in seawater during 1990-92 at stations 3, 15, 16 and 17.

	SILICATES			PHOSPHATES			NITRATES		
DATE	STN #3	STN #15	STN #17	STN #3	STN #15	STN #17	STN #3	STN #15	STN #17
23/01/90	7.460	8.008	11.296	0.877	0.929	0.976	7.874	8.666	10.530
22/02/90	8.478	9.157	14.864	0.947	1.049	1.052	8.598	10.045	10.903
13/03/90	4.374	5.935	11.757	0.686	0.733	0.924	4.351	5.914	9.691
09/04/90	6.338	3.691	15.253	0.674	0.581	0.748	5.403	3.700	7.952
23/04/90	7.931	8.765	14.096	1.021	0.444	0.567	6.627	7.229	7.602
08/05/90	7.361	7.946	10.880	0.752	0.667	0.776	6.426	6.559	6.769
14/05/90	4.947	8.437	9.333	0.776	0.741	0.898	4.333	8.161	6.169
22/05/90	9.630	9.579	5.699	0.904	0.796	0.760	7.814	7.863	3.763
29/05/90	8.547	8.159	8.181	0.935	0.938	0.940	6.618	7.919	4.593
04/06/90	6.582	4.924	3.672	1.028	1.433	0.549	6.880	5.236	1.637
11/06/90	5.820	4.217	6.449	1.076	0.842	0.773	6.489	4.777	4.854
18/06/90	2.632	0.496	3.196	0.817	0.582	0.544	3.315	0.394	3.203
28/06/90	1.798	1.560	5.674	0.682	1.133	0.742	2.284	1.141	4.365
09/07/90	2.080	0.645	3.132	1.129	0.466	0.668	1.963	0.191	2.296
16/07/90	3.134	1.483	4.063	0.922	0.614	0.558	2.706	1.231	2.271
24/07/90	3.346	2.413	2.665	0.817	0.727	0.568	2.704	1.217	1.651
31/07/90	4.940		5.329	1.153		0.534	2.660		0.844
07/08/90	4.062	2.961	5.202	0.741	0.584	0.592	2.515	1.343	1.588
13/08/90	5.620	5.192	4.193	0.923	0.699	0.432	3.290	3.264	1.271
20/08/90	4.779	3.636	6.687	0.767	0.578	0.583	3.043	1.725	1.976
27/08/90	6.341	3.470	8.212	0.945	0.504	0.621	2.537	0.068	1.751
04/09/90	2.259	1.346	7.520	0.617	0.733	0.693	0.688	0.006	2.440
17/09/90	2.925	1.367	8.728	0.833	0.705	1.024	2.357	0.783	4.239
25/09/90	4.352		11.196	0.888		0.929	2.901		5.903
01/10/90	6.498	3.899	11.496	1.289	0.701	0.898	4.778	3.121	6.156
09/10/90	5.274	6.349	8.865	0.906	1.013	0.964	4.692	5.839	5.961
17/10/90	8.463	5.793	12.479	1.097	0.800	1.105	7.439	4.954	7.799
22/10/90	6.078	4.843	10.683	0.852	0.816	1.014	5.735	4.534	8.694

STN #16

	SILICATES				PHOSPHATES				NITRATES			
	SURF	10M	25M	50M	SURF	10M	25M	50M	SURF	10M	25M	50M
23/01/90	8.103	5.554	7.970	6.234	0.922	0.655	0.874	0.782	9.026	6.090	8.671	6.756
13/03/90	9.821	3.026	6.698	1.745	0.905	0.516	0.758	0.453	10.035	3.651	7.472	2.205
09/04/90	10.601	2.855	7.031	6.342	0.815	0.689	0.925	0.765	9.465	2.999	7.057	7.029
23/04/90	11.487	7.525	6.846	5.944	0.455	0.629	0.344	0.640	9.248	7.542	3.178	5.494
08/05/90	10.672	2.887	7.228	2.738	0.885	0.444	0.691	0.561	9.648	2.786	6.702	3.376
22/05/90	6.999	8.644	7.720	6.642	1.128	0.715	0.762	0.915	6.398	7.988	7.591	7.866
29/05/90	5.574	2.695	4.285	6.978	1.020	0.614	1.065	0.925	6.461	3.492	5.328	8.502
11/06/90	2.420	3.102	4.987	5.747	0.608	0.623	0.741	0.817	2.771	3.844	6.113	7.034
28/06/90	1.295	1.721	1.919	4.350	0.550	0.463	0.615	0.802	1.298	2.603	2.951	5.871
16/07/90	0.700	2.009	3.808	3.241	0.471	0.513	0.666	0.534	0.000	2.066	5.107	3.532
24/07/90	2.382	1.841	2.368	3.519	0.740	0.451	0.477	0.563	2.203	1.277	2.135	3.989
31/07/90	2.815	1.663	2.207	3.049	0.689	0.341	0.441	0.520	2.042	1.324	2.101	3.006
07/08/90	2.336	3.196	3.032	5.881	0.464	0.528	0.512	0.783	0.982	2.304	2.945	6.421
13/08/90	5.079	3.406	5.845	4.768	0.607	0.502	0.724	0.665	3.441	3.196	6.023	5.581
20/08/90	3.871	4.570	5.735	6.752	0.541	0.619	0.769	0.863	2.664	4.254	6.487	8.069
27/08/90	4.104	4.638	4.024	4.641	1.030	0.515	0.527	0.641	1.084	2.587	3.593	4.938
04/09/90	0.942	4.171	5.615	7.518	0.393	0.565	0.589	0.858	0.000	2.600	4.392	7.568
17/09/90	2.677	2.016	1.831	5.178	0.578	0.524	0.838	0.775	1.761	1.856	1.969	6.025
25/09/90	1.245	1.723	4.954	6.859	0.465	0.528	0.705	0.850	0.474	1.654	5.685	7.382
01/10/90	3.409	3.326	3.481	6.102	0.646	0.639	0.666	0.827	3.655	3.827	4.387	7.358
09/10/90	5.008	3.943	5.545	6.755	0.771	0.623	0.719	0.878	5.410	4.449	6.501	7.437
17/10/90	7.687	7.604	6.839		0.935	0.913	0.875		7.780	7.789	7.929	
22/10/90	8.238	8.052	6.265	8.993	0.965	0.932	0.775	0.978	8.813	8.839	7.141	9.885

	Silicates			Phosphates			Nitrates		
Date	Stn #3	Stn #15	Stn #17	Stn #3	Stn #15	Stn #17	Stn #3	Stn #15	Stn #17
05/03/91	6.601	7.263	8.034	0.917	0.973	0.899	8.140	9.998	7.478
09/04/91	8.992	9.607	4.475	0.836	1.167	0.545	9.806	11.311	3.920
24/04/91	10.015	8.270	10.408	0.787	0.715	0.993	7.719	8.714	4.566
08/05/91	7.329	8.754	6.817	0.681	0.644	0.436	5.843	7.700	1.675
14/05/91	6.419	6.164	3.631	0.764	0.659	0.503	6.906	4.250	2.303
21/05/91	5.593	6.328	2.921	0.883	0.757	0.692	3.989	3.823	3.548
28/05/91	2.042	0.924	2.244	0.574	0.318	0.601	1.021	0.157	2.178
04/06/91	1.683	0.767	2.151	0.704	0.332	0.689	1.278	0.302	1.954
11/06/91	1.960	0.979	1.649	0.604	0.367	0.604	2.902	0.776	1.858
18/06/91	2.275	1.588	1.776	0.708	0.549	0.597	2.860	1.754	2.140
25/06/91	1.787	0.744	3.196	0.584	0.333	0.587	2.384	0.393	2.630
09/07/91	2.113	0.632	2.315	0.609	0.332	0.338	1.650	0.568	1.571
16/07/91	3.661	2.458	4.849	0.767	0.653	0.785	3.435	2.426	3.011
23/07/91	4.137	2.030	5.048	0.790	0.339	0.479	3.073	0.452	0.833
29/07/91	4.328	3.778	4.200	0.718	0.717	0.537	2.847	2.348	1.578
06/08/91	5.916	4.138	6.494	0.974	0.569	0.649	2.811	0.928	1.848
13/08/91	4.037	4.634	7.685	0.639	0.638	0.776	2.570	3.443	2.717
19/08/91	5.221	5.382	6.874	0.986	0.837	0.892	3.942	4.146	3.799
27/08/91	3.809	5.150	9.557	0.684	0.832	0.952	3.012	3.406	5.171
03/09/91	7.855	6.373	8.325	1.075	1.137	0.868	6.259	5.745	5.454
09/09/91	6.858	5.271	9.788	0.918	0.860	0.963	5.225	3.319	6.302
17/09/91	8.050	5.888	8.485	1.202	0.860	0.909	6.708	4.987	5.758
23/09/91	6.591	4.463	9.817	0.957	0.817	0.984	5.526	3.472	6.872
01/10/91	6.175	8.113	12.891	0.149	0.788	0.732	4.838	7.299	7.197
08/10/91	8.264	7.160	16.678	0.691	0.636	0.699	8.784	6.754	8.023
15/10/91	11.605	9.158	16.748	1.148	0.575	0.696	8.560	8.662	8.547
22/10/91	9.905	8.314	12.569	0.580	0.634	0.131	8.449	7.004	9.319
05/11/91	8.298	9.961	15.468	0.586	0.411	0.777	7.771	9.310	9.673
19/11/91	10.075	10.309	13.390	0.749	0.643	0.232	9.109	8.553	9.840
10/12/91	8.580	7.815	12.975	0.693	0.574	0.631	7.954	7.297	9.766

STN 16

	SILICATES				PHOSPHATES				NITRATES			
DATE	SURF	10 M	25 M	50 M	SURF	10 M	25 M	50 M	SURF	10 M	25 M	50 M
24/04/91	9.737	9.059	8.175	8.081	0.861	0.813	0.824	0.873	9.320	9.790	9.699	9.298
08/05/91	6.155	5.871	6.172	6.884	0.453	0.684	0.829	0.876	6.325	6.275	7.598	8.606
14/05/91	6.051	4.833	6.306	5.451	0.610	0.721	0.866	0.899	4.893	6.190	7.751	7.433
21/05/91	4.409	3.934	2.985		0.773	0.643	0.628		5.037	4.543	3.614	
28/05/91	0.738	1.142	4.128	3.739	0.343	0.439	0.771	0.665	0.139	1.187	5.857	4.868
18/06/91	0.981	2.556	3.259	3.259	0.499	0.694	0.808	0.832	0.875	4.487	5.431	5.062
25/06/91	0.368	0.795	3.315	4.186	0.241	0.397	0.672	0.665	0.352	0.960	6.100	6.547
09/07/91	1.016	1.631	1.803	3.619	0.422	0.489	0.508	0.605	1.397	2.843	3.320	5.251
16/07/91	1.587	2.069	2.545	4.239	0.532	0.524	0.551	0.653	1.341	2.983	3.641	5.577
23/07/91	2.169	2.278	3.649	4.073	0.417	0.416	0.587	0.672	0.853	1.201	3.738	5.569
29/07/91	2.947	2.932	4.029	5.630	0.548	0.486	0.678	0.778	2.000	2.007	4.324	5.321
06/08/91	3.199	2.868	2.919	5.251	0.500	0.497	0.512	0.716	1.765	2.191	2.692	5.789
13/08/91	3.394	4.001	4.483	3.654	0.636	0.550	0.642	0.770	2.864	3.431	4.510	7.387
19/08/91	5.838	5.320	4.981	6.398	0.757	0.709	0.731	0.832	5.094	4.927	5.372	6.965
03/09/91	4.930	5.244	6.984	5.119	0.628	0.699	0.837	0.691	4.094	5.052	7.846	5.676
09/09/91	3.843	6.559	6.945	5.523	0.675	0.796	0.850	0.695	2.860	6.912	7.843	6.315
17/09/91	4.965	5.479	6.136	7.800	0.728	0.722	0.751	0.898	3.826	5.067	6.501	8.080
08/10/91	8.726	8.757	8.574	8.555	0.677	0.874	0.811	0.804	8.001	8.441	9.408	7.897
15/10/91	9.034	9.032	8.649	8.383	0.916	0.537	0.340	0.876	9.310	9.125	9.704	9.577
05/11/91	8.624	9.017	9.327	7.302	0.138	0.639	0.719	0.251	8.379	9.035	9.584	8.292
19/11/91	9.505	8.485	8.795	8.022	0.470	0.398	0.463	0.595	9.120	8.412	8.665	7.848
10/12/91	6.743	7.265	7.427	8.423	0.407	0.328	0.673	0.649	5.787	7.086	7.198	8.017

STN #16

	SILICATES				PHOSPHATES				NITRATES			
DATE	SURF	10M	25M	50M	SURF	10M	25M	50M	SURF	10M	25M	50M
06/01/92	9.350	6.655	8.676	6.277	0.390	0.410	0.226	0.305	9.066	6.794	8.841	6.560
23/06/92	2.381	2.118	2.145	3.193	0.446	0.552	0.579	0.579	2.577	2.458	2.613	3.699
07/07/92	1.338	2.715	3.671	4.507	0.477	0.621	0.788	0.658	1.593	3.558	4.300	4.952
14/07/92	2.175	2.298	3.431	5.122	0.749	0.582	0.641	0.752	2.358	2.808	4.083	5.138
21/07/92	4.434	2.412	4.029	6.084	0.496	0.623	0.629	0.844	1.696	3.105	4.412	5.812
28/07/92	0.679	1.753	5.322	6.308	0.372	0.531	0.774	0.822	0.278	2.330	5.793	6.902
04/08/92	2.434	4.169	4.718	5.553	0.666	0.639	0.691	0.593	2.668	4.040	4.766	5.470
11/08/92	3.876				0.603				2.625			
18/08/92	3.834	3.857	4.105	6.696	0.598	0.583	0.471	0.866	2.965	3.654	3.881	6.349
24/08/92	4.461	5.475	6.339	7.849	0.572	0.740	0.790	0.940	2.917	4.839	6.386	8.419
31/08/92	3.915	3.818	4.875	7.660	0.604	0.560	0.718	0.930	1.985	2.552	5.054	7.598
15/09/92	5.460	4.904	7.077	7.742	0.733	0.668	0.878	1.066	2.828	3.638	6.243	7.062
20/09/92	4.975	5.458	3.866	8.772	0.747	0.647	0.423	0.931	4.058	4.482	3.618	7.712
28/09/92	4.679	5.806	6.363	8.603	0.521	0.762	0.563	0.964	3.406	5.181	5.900	7.795
13/10/92	6.312	6.344	8.272	9.598	0.815	0.851	0.992	1.119	5.885	6.122	8.489	9.357
10/11/92	8.091	8.398	7.649	9.151	0.981	0.959	0.864	1.078	8.057	8.042	7.976	9.319

DATE	SILICATES STN #3	SILICATES STN #15	SILICATES STN #17	PHOSPHATES STN #3	PHOSPHATES STN #15	PHOSPHATES STN #17	NITRATES STN #3	NITRATES STN #15	NITRATES STN #17
06/01/92	10.252	9.176	14.981	0.155	0.176	0.532	9.977	8.679	9.128
11/02/92	10.254	10.047	12.240	0.529	0.432	0.707	9.360	9.469	9.460
23/06/92	2.840	2.537	6.141	0.786	0.458	0.673	1.855	1.153	2.658
30/06/92	1.742	1.072	6.784	0.523	0.389	0.517	1.277	0.727	1.756
07/07/92	2.523	2.544	5.302	0.796	0.438	0.580	2.217	0.563	2.836
14/07/92	2.382	1.264	7.497	0.548	0.466	0.305	1.747	1.213	3.749
21/07/92	4.190	2.046	7.120	1.081	0.553	0.527	2.749	0.641	2.644
28/07/92	2.297	0.998	7.254	0.694	0.448	0.641	2.092	0.267	3.897
04/08/92	5.509	3.713	7.551	0.975	0.752	0.908	3.935	3.177	4.279
11/08/92	4.327	3.914	8.149	0.677	0.610	0.652	3.009	2.071	4.027
18/08/92	5.195	4.992	7.882	0.850	0.624	0.790	3.288	2.500	4.255
24/08/92	6.088	4.284	5.984	1.004	0.480	0.703	3.866	2.930	3.338
31/08/92	6.219	4.757	8.018	0.795	0.564	0.915	4.408	2.165	5.024
14/09/92	7.582	5.490	9.893	1.542	1.303	1.344	4.463	3.055	5.357
20/09/92	5.225	5.359	6.297	0.765	0.672	0.569	3.549	3.484	2.972
28/09/92	6.207	5.435	8.152	0.615	0.651	0.501	4.381	3.589	4.296
13/10/92	8.232	7.854	11.338	1.118	1.063	1.180	6.720	6.249	7.251
27/10/92	8.838	5.974	11.256	1.037	0.109	0.952	7.888	5.705	8.027
10/11/92	7.500	7.346	10.675	0.248	0.714	1.002	6.831	6.739	8.214
24/11/92	9.172	9.477	8.739	1.016	0.873	0.971	7.908	8.476	6.939
22/12/92	9.974	6.605	10.008	1.024	0.779	1.072	9.239	6.029	7.817