ATLANTIC COASTAL EXPERIMENT
PHYTOPLANKTON SPECIES COMPOSITION:
1976-1978
DATA REPORT

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Department of Energy and Environment

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PHYTOPLANKTON SAMPLING PROGRAM

Paul G. Falkowski

Phytoplankton samples are routinely taken at every station on Brookhaven oceanographic cruises. On productivity stations samples are taken from every depth, while on hydrographic stations samples are taken from the surface and some fixed depth (e.g. 20 m). The 125 ml samples are drawn as soon as possible after the cast from Niskin bottles and preserved with 2-3 ml of Lugol's solution. The samples are left in dark boxes in cool areas until counted. For counting, 10 ml subsamples are settled in Utermohl chambers, usually within three months after the cruise, and counted with an inverted microscope equipped with phase contrast illumination. Between one-half and the entire chamber are counted, depending on the cell density. This data report is a listing of the phytoplankton counts from selected stations and cruises between 1976 and 1978, inclusive.

Note: In the case of Ceratium tripos, recently divided cells, referred to as "long+short", are not included in the total Ceratium tripos count. In order to obtain the total Ceratium tripos count, the "long+short" cells should be added to the regular Ceratium tripos listing.

R/V PALUMBO CRUISE
APRIL 1976

R/V Palumbo: Station Locations

LAT 40 40.7
SONIC DEPTH 0036

LONG 072 24.7 DATE 76/05/17
ONE PERCENT LIGHT DEPTH

TIME 2300

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
1	1	0.0	CERATIUM TRIPOS	26400	1 4 91
1	1	0.0	EXUVIELLA SP.	800	1 4 3
1	1	0.0	THALASSIOSIRA SP.	400	1 4 1
1	1	0.0	GYMNODINIUM SP.	300	1 4 1
1	1	0.0	MELOSIRA WESTII	200	1 4 1
1	1	0.0	DINOPHYSIS ACUTA	200	1 4 1
1	1	0.0	SILIATE	200	1 4 1
1	1	0.0	ASTERIONELLA JAPONICA	200	1 4 1
1	1	0.0	RHIZOSOLENIA ALATA	100	1 4 0
1	1	0.0	COSCIINODISCUS SP.	100	1 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 3
PERCENT DINOFLAGELLATE/TOTAL 96
PERCENT OTHER/TOTAL 1

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
1	1	10.0	CERATIUM TRIPOS	66700	2 2 90
1	1	10.0	THALASSIOSIRA SP.	1300	2 2 2
1	1	10.0	CERATIUM TRIPOS LONG + SHORT	1200	2 2 2
1	1	10.0	DINOPHYSIS ACUTA	900	2 2 1
1	1	10.0	PERIDINIUM SP.	800	2 2 1
1	1	10.0	DINOPHYSIS NORVEGICA	800	2 2 1
1	1	10.0	GYMNODINIUM SP.	500	2 2 1
1	1	10.0	CERATIUM FUSUS	200	2 2 0
1	1	10.0	GYMNODINIUM SIMPLEX	200	2 2 0
1	1	10.0	EXUVIELLA SP.	200	2 2 0
1	1	10.0	RHIZOSOLENIA HEBETATA	200	2 2 0
1	1	10.0	CHAEETOCEROS SP.	200	2 2 0
1	1	10.0	NAVICULA SP.	100	2 2 0
1	1	10.0	GYMNODINIUM FILUM	100	2 2 0
1	1	10.0	CERATIUM FURCA	100	2 2 0
1	1	10.0	PROROCENTRUM SP.	100	2 2 0
1	1	10.0	ASTERIONELLA JAPONICA	100	2 2 0
1	1	10.0	SILICA FLAGELLATE	100	2 2 0
1	1	10.0	RHIZOSOLENIA DELICATULA	100	2 2 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 3
PERCENT DINOFLAGELLATE/TOTAL 97
PERCENT OTHER/TOTAL 0

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
1	1	20.0	CERATIUM TRIPOS	20400	3 4 85
1	1	20.0	MELOSIRA MONILIFORMIS	1300	3 4 5
1	1	20.0	THALASSIOSIRA SP.	1000	3 4 4
1	1	20.0	PERIDINIUM SP.	400	3 4 2
1	1	20.0	GYMNODINIUM PYGMAEUM	200	3 4 1
1	1	20.0	RHIZOSOLENIA DELICATULA	200	3 4 1
1	1	20.0	NITZSCHIA CLOSTERIUM	200	3 4 1
1	1	20.0	DINOPHYSIS NORVEGICA	100	3 4 0
1	1	20.0	CERATIUM TRIPOS LONG + SHORT	100	3 4 0
1	1	20.0	NAVICULA SP.	100	3 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 12
PERCENT DINOFLAGELLATE/TOTAL 88
PERCENT OTHER/TOTAL 0

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
1	1	35.0	CERATIUM TRIPOS	29500	4 4 83
1	1	35.0	MELOSIRA MONILIFORMIS	2600	4 4 7
1	1	35.0	THALASSIOSIRA SP.	1400	4 4 4
1	1	35.0	PERIDINIUM SP.	400	4 4 1
1	1	35.0	NITZSCHIA PUNGENS V. ATLANTICA	300	4 4 1
1	1	35.0	GYMNODINIUM PYGMAEUM	300	4 4 1
1	1	35.0	NAVICULA SP.	200	4 4 1
1	1	35.0	AMPHIDINIUM SP.	100	4 4 0
1	1	35.0	COSCIINODISCUS SP.	100	4 4 0
1	1	35.0	CERATIUM TRIPOS LONG + SHORT	100	4 4 0
1	1	35.0	GUINARDIA FLACCIDA	100	4 4 0
1	1	35.0	MELOSIRA WESTII	100	4 4 0
1	1	35.0	EXUVIELLA SP.	100	4 4 0
1	1	35.0	CERATIUM FUSUS	100	4 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 14
PERCENT DINOFLAGELLATE/TOTAL 86
PERCENT OTHER/TOTAL 0

LAT 40 40.7
SONIC DEPTH 0032

LONG 072 24.7 DATE 76/05/18
ONE PERCENT LIGHT DEPTH

TIME 0420

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
2	1	0.0	CERATIUM TRIPOS	33300	54 97
2	1	0.0	CERATIUM TRIPOS LONG • SHORT	1100	54 3
2	1	0.0	THALASSIOSIRA SP.	800	54 2
2	1	0.0	EXUVIELLA SP	500	54 1
2	1	0.0	RHIZOSOLENIA DELICATULA	500	54 1
2	1	0.0	GYMNODINIUM PYGMAEUM	300	54 1
2	1	0.0	GYMNODINIUM SP.	300	54 1
2	1	0.0	CERATIUM MINUTUM	300	54 1
2	1	0.0	CERATIUM FURCA	200	54 1
2	1	0.0	PERIDINIUM SP.	200	54 1
2	1	0.0	COSCIINODISCUS SP.	100	54 0
2	1	0.0	ASTERIONELLA JAPONICA	100	54 0
2	1	0.0	SILIATE	100	54 0
2	1	0.0	DINOPHYSIS ACUTA	100	54 0
2	1	0.0	CERATIUM FUSUS	100	54 0
2	1	0.0	NITZSCHIA PUNGENS V. ATLANTICA	100	54 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 4
PERCENT DINOFLAGELLATE/TOTAL 96
PERCENT OTHER/TOTAL 0

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
2	1	10.0	CERATIUM TRIPOS	37700	64 84
2	1	10.0	THALASSIOSIRA SP.	2400	64 5
2	1	10.0	GYMNODINIUM PYGMAEUM	900	64 2
2	1	10.0	DINOPHYSIS NORVEGICA	700	64 2
2	1	10.0	GYMNODINIUM SP.	700	64 2
2	1	10.0	EXUVIELLA SP	500	64 1
2	1	10.0	NITZSCHIA PUNGENS V. ATLANTICA	500	64 1
2	1	10.0	CHAETOCEROS SP.	300	64 1
2	1	10.0	RHIZOSOLENIA DELICATULA	300	64 1
2	1	10.0	NAVICULA SP.	300	64 1
2	1	10.0	PERIDINIUM SP.	200	64 0
2	1	10.0	CERATIUM FUSUS	200	64 0
2	1	10.0	AMPHIDINIUM SP.	200	64 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 8
PERCENT DINOFLAGELLATE/TOTAL 92
PERCENT OTHER/TOTAL 0

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
2	1	20.0	CERATIUM TRIPOS	21600	74 81
2	1	20.0	THALASSIOSIRA SP.	1200	74 4
2	1	20.0	RHIZOSOLENIA DELICATULA	1200	74 4
2	1	20.0	MELOSIRA MONILIFORMIS	1100	74 4
2	1	20.0	GYMNODINIUM PYGMAEUM	500	74 2
2	1	20.0	PERIDINIUM SP.	300	74 1
2	1	20.0	GYMNODINIUM SP.	200	74 1
2	1	20.0	NITZSCHIA PUNGENS V. ATLANTICA	200	74 1
2	1	20.0	COSCIINODISCUS SP.	100	74 0
2	1	20.0	NITZSCHIA CLOSTERIUM	100	74 0
2	1	20.0	DINOPHYSIS NORVEGICA	100	74 0
2	1	20.0	GYMNODINIUM SIMPLEX	100	74 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 15
PERCENT DINOFLAGELLATE/TOTAL 85
PERCENT OTHER/TOTAL 0

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
2	1	30.0	CERATIUM TRIPOS	22000	84 77
2	1	30.0	MELOSIRA MONILIFORMIS	1300	84 5
2	1	30.0	NANNOPLANKTON	800	84 3
2	1	30.0	GYMNODINIUM PYGMAEUM	700	84 2
2	1	30.0	THALASSIOSIRA SP.	700	84 2
2	1	30.0	GYMNODINIUM SP.	500	84 2
2	1	30.0	COSCIINODISCUS SP.	400	84 1
2	1	30.0	RHIZOSOLENIA HEBETATA	300	84 1
2	1	30.0	NITZSCHIA PUNGENS V. ATLANTICA	300	84 1
2	1	30.0	DINOPHYSIS ACUTA	300	84 1
2	1	30.0	PERIDINIUM SP.	300	84 1
2	1	30.0	NITZSCHIA CLOSTERIUM	200	84 1
2	1	30.0	EXUVIELLA SP	200	84 1
2	1	30.0	RHIZOSOLENIA DELICATULA	200	84 1
2	1	30.0	NAVICULA SP.	100	84 0
2	1	30.0	RHIZOSOLENIA STOLTERFOTHII	100	84 0
2	1	30.0	TRICERATIUM SP.	100	84 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 13
PERCENT DINOFLAGELLATE/TOTAL 84
PERCENT OTHER/TOTAL 3

LAT 40 41.2
SONIC DEPTH 0034

LONG 072 25.3 DATE 76/05/18
ONE PERCENT LIGHT DEPTH

TIME 0855

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
3	1	0.0 CERATIUM TRIPOS	47000	94
3	1	0.0 CERATIUM TRIPOS LONG + SHORT	5000	94
3	1	0.0 GYMNOIDINIUM PYGMAEUM	2000	94
3	1	0.0 THALASSIOSIRA SP.	1600	94
3	1	0.0 GYMNOIDINIUM SP.	900	94
3	1	0.0 NITZSCHIA PUNGENS V. ATLANTICA	400	94
3	1	0.0 COSCINODISCUS SP.	200	94
3	1	0.0 PERIDINIUM SP.	200	94
3	1	0.0 RHIZOSOLENIA DELICATULA	200	94
3	1	0.0 NANNOPLANKTON	200	94
3	1	0.0 PHALACROMA ROTUNDATUM	100	94
3	1	0.0 NAVICULA SP.	100	94
3	1	0.0 NITZSCHIA CLOSTERIUM	100	94
3	1	0.0 MELOSIRA SP.	100	94

TOTAL CELLS
PERCENT DIATOM/TOTAL 5
PERCENT DINOFLAGELLATE/TOTAL 95
PERCENT OTHER/TOTAL 0

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
3	1	10.0 CERATIUM TRIPOS	31500	104
3	1	10.0 CERATIUM TRIPOS LONG + SHORT	900	104
3	1	10.0 THALASSIOSIRA SP.	900	104
3	1	10.0 RHIZOSOLENIA DELICATULA	700	104
3	1	10.0 DINOPHYSIS ACUTA	500	104
3	1	10.0 COSCINODISCUS SP.	300	104
3	1	10.0 NITZSCHIA PUNGENS V. ATLANTICA	300	104
3	1	10.0 EXUVIELLA SP.	100	104
3	1	10.0 NAVICULA SP.	100	104
3	1	10.0 PROROCENTRUM MICANS	100	104
3	1	10.0 DINOPHYSIS NORVEGICA	100	104
3	1	10.0 GYMNOIDINIUM PYGMAEUM	100	104

TOTAL CELLS
PERCENT DIATOM/TOTAL 6
PERCENT DINOFLAGELLATE/TOTAL 94
PERCENT OTHER/TOTAL 0

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
3	1	20.0 CERATIUM TRIPOS	23600	114
3	1	20.0 MELOSIRA MONILIFORMIS	1200	114
3	1	20.0 THALASSIOSIRA SP.	700	114
3	1	20.0 COSCINODISCUS SP.	600	114
3	1	20.0 NITZSCHIA PUNGENS V. ATLANTICA	500	114
3	1	20.0 GYMNOIDINIUM PYGMAEUM	500	114
3	1	20.0 PERIDINIUM SP.	200	114
3	1	20.0 DINOPHYSIS ACUTA	200	114
3	1	20.0 NAVICULA SP.	100	114
3	1	20.0 SILIATE	100	114
3	1	20.0 EXUVIELLA SP.	100	114
3	1	20.0 RHIZOSOLENIA DELICATULA	100	114

TOTAL CELLS
PERCENT DIATOM/TOTAL 11
PERCENT DINOFLAGELLATE/TOTAL 88
PERCENT OTHER/TOTAL 0

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
3	1	30.0 CERATIUM TRIPOS	13600	124
3	1	30.0 MELOSIRA MONILIFORMIS	700	124
3	1	30.0 NANNOPLANKTON	600	124
3	1	30.0 NITZSCHIA PUNGENS V. ATLANTICA	500	124
3	1	30.0 THALASSIOSIRA SP.	300	124
3	1	30.0 THALASSIONEMA NITZSCHIOIDES	300	124
3	1	30.0 COSCINODISCUS SP.	100	124
3	1	30.0 NAVICULA SP.	100	124
3	1	30.0 GYMNOIDINIUM PYGMAEUM	100	124
3	1	30.0 TINTINNIDA	100	124
3	1	30.0 RHIZOSOLENIA DELICATULA	100	124
3	1	30.0 GYMNOIDINIUM SP.	100	124

TOTAL CELLS
PERCENT DIATOM/TOTAL 13
PERCENT DINOFLAGELLATE/TOTAL 83
PERCENT OTHER/TOTAL 4

LAT 40 40.5
SONIC DEPTH 0031

LONG 072 25.5 DATE 76/05/18
ONE PERCENT LIGHT DEPTH

TIME 1400

STA	C	D	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
4	1	0.0		CERATIUM TRIPOS	30700	13 4 78
4	1	0.0		NANNOPLANKTON	2800	13 4 7
4	1	0.0		THALASSIOSIRA SP.	2800	13 4 7
4	1	0.0		GYMNODINIUM PYGMAEUM	1700	13 4 4
4	1	0.0		RHIZOLENIA DELICATULA	200	13 4 1
4	1	0.0		PHALACROMA ROTUNDATUM	200	13 4 1
4	1	0.0		CERATIUM TRIPOS LONG • SHORT	200	13 4 1
4	1	0.0		PERIDINIUM SP.	200	13 4 1
4	1	0.0		GYMNODINIUM SP.	200	13 4 1
4	1	0.0		SILIATE	100	13 4 0
4	1	0.0		ASTERIONELLA JAPONICA	100	13 4 0
4	1	0.0		PROROCENTRUM MICANS	100	13 4 0
4	1	0.0		DINOPHYSIS ACUTA	100	13 4 0
4	1	0.0		CERATIUM FURCA	100	13 4 0
4	1	0.0		NITZSCHIA PUNGENS V. ATLANTICA	100	13 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 8
PERCENT DINOFLAGELLATE/TOTAL 85
PERCENT OTHER/TOTAL 7

STA	C	D	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
4	1	10.0		CERATIUM TRIPOS	40300	14 4 59
4	1	10.0		THALASSIOSIRA SP.	23400	14 4 34
4	1	10.0		RHIZOLENIA DELICATULA	1700	14 4 2
4	1	10.0		CERATIUM TRIPOS LONG • SHORT	1100	14 4 2
4	1	10.0		MELOSIRA SP.	600	14 4 1
4	1	10.0		COSCIINODISCUS SP.	400	14 4 1
4	1	10.0		EXUVIELLA SP.	300	14 4 0
4	1	10.0		NANNOPLANKTON	200	14 4 0
4	1	10.0		PROROCENTRUM MICANS	100	14 4 0
4	1	10.0		DINOPHYSIS ACUTA	100	14 4 0
4	1	10.0		DINOPHYSIS PUNCTATA	100	14 4 0
4	1	10.0		GYMNODINIUM PYGMAEUM	100	14 4 0
4	1	10.0		GYMNODINIUM SP.	100	14 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 38
PERCENT DINOFLAGELLATE/TOTAL 62
PERCENT OTHER/TOTAL 0

STA	C	D	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
4	1	20.0		CERATIUM TRIPOS	59400	15 4 96
4	1	20.0		RHIZOLENIA DELICATULA	700	15 4 1
4	1	20.0		COSCIINODISCUS SP.	300	15 4 0
4	1	20.0		CERATIUM TRIPOS LONG • SHORT	200	15 4 0
4	1	20.0		THALASSIOSIRA SP.	200	15 4 0
4	1	20.0		DINOPHYSIS ACUTA	200	15 4 0
4	1	20.0		SILIATE	100	15 4 0
4	1	20.0		CHAETOCEROS SP.	100	15 4 0
4	1	20.0		MELOSIRA SP.	100	15 4 0
4	1	20.0		NAVICULA SP.	100	15 4 0
4	1	20.0		GYMNODINIUM SP.	100	15 4 0
4	1	20.0		NANNOPLANKTON	100	15 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 2
PERCENT DINOFLAGELLATE/TOTAL 97
PERCENT OTHER/TOTAL 0

STA	C	D	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
4	1	30.0		CERATIUM TRIPOS	15100	16 4 78
4	1	30.0		NANNOPLANKTON	800	16 4 4
4	1	30.0		MELOSIRA MONILIFORMIS	600	16 4 3
4	1	30.0		THALASSIOSIRA SP.	500	16 4 3
4	1	30.0		RHIZOLENIA DELICATULA	500	16 4 3
4	1	30.0		GYMNODINIUM PYGMAEUM	500	16 4 3
4	1	30.0		PERIDINIUM SP.	400	16 4 2
4	1	30.0		GYMNODINIUM SP.	300	16 4 2
4	1	30.0		NITZSCHIA PUNGENS V. ATLANTICA	300	16 4 2
4	1	30.0		COSCIINODISCUS SP.	200	16 4 1
4	1	30.0		DINOPHYSIS ACUTA	100	16 4 1
4	1	30.0		NAVICULA SP.	100	16 4 1

TOTAL CELLS
PERCENT DIATOM/TOTAL 11
PERCENT DINOFLAGELLATE/TOTAL 85
PERCENT OTHER/TOTAL 4

LAT 40 41.0
SONIC DEPTH 0031

LONG 072 26.0 DATE 76/05/18
ONE PERCENT LIGHT DEPTH

TIME 1855

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
5	1	0.0	CERATIUM TRIPOS	27900	17.4
5	1	0.0	NANNOPLANKTON	5400	17.4
5	1	0.0	THALASSIOSIRA SP.	2500	17.4
5	1	0.0	RHIZOSOLENIA DELICATULA	1300	17.4
5	1	0.0	GYMNODINIUM PYGMAEUM	900	17.4
5	1	0.0	GYMNODINIUM SIMPLEX	700	17.4
5	1	0.0	GYMNODINIUM SP.	700	17.4
5	1	0.0	PERIDINIUM SP.	500	17.4
5	1	0.0	RHIZOSOLENIA ALATA	400	17.4
5	1	0.0	EXUVIELLA SP.	400	17.4
5	1	0.0	NAVICULA SP.	300	17.4
5	1	0.0	MELOSIRA WESTII	200	17.4
5	1	0.0	PROROCENTRUM MICANS	100	17.4
5	1	0.0	COSCIINODISCUS RADIATUS	100	17.4
5	1	0.0	DIPLONEIS SP.	100	17.4
5	1	0.0	CERATIUM TRIPOS LONG • SHORT	100	17.4
5	1	0.0	SILIATE	100	17.4
5	1	0.0	DINOPHYSIS ACUTA	100	17.4
5	1	0.0	NITZSCHIA PUNGENS V. ATLANTICA	100	17.4

TOTAL CELLS
PERCENT DIATOM/TOTAL 12
PERCENT DINOFLLAGELLATE/TOTAL 75
PERCENT OTHER/TOTAL 13

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
5	1	10.0	CERATIUM TRIPOS	39600	18.4
5	1	10.0	THALASSIOSIRA SP.	1600	18.4
5	1	10.0	GYMNODINIUM SP.	1100	18.4
5	1	10.0	GYMNODINIUM PYGMAEUM	900	18.4
5	1	10.0	NANNOPLANKTON	800	18.4
5	1	10.0	EXUVIELLA SP.	700	18.4
5	1	10.0	RHIZOSOLENIA DELICATULA	600	18.4
5	1	10.0	DINOPHYSIS ACUTA	500	18.4
5	1	10.0	DINOPHYSIS NORVEGICA	300	18.4
5	1	10.0	PERIDINIUM SP.	200	18.4
5	1	10.0	CERATIUM TRIPOS LONG • SHORT	200	18.4
5	1	10.0	CERATIUM FUSUS	100	18.4
5	1	10.0	MELOSIRA SP.	100	18.4

TOTAL CELLS
PERCENT DIATOM/TOTAL 5
PERCENT DINOFLLAGELLATE/TOTAL 93
PERCENT OTHER/TOTAL 2

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
5	1	20.0	CERATIUM TRIPOS	110300	19.4
5	1	20.0	MELOSIRA MONILIFORMIS	1600	19.4
5	1	20.0	DINOPHYSIS ACUTA	1400	19.4
5	1	20.0	CERATIUM TRIPOS LONG • SHORT	1100	19.4
5	1	20.0	PERIDINIUM SP.	600	19.4
5	1	20.0	GYMNODINIUM SP.	500	19.4
5	1	20.0	THALASSIOSIRA SP.	400	19.4
5	1	20.0	DINOPHYSIS NORVEGICA	400	19.4
5	1	20.0	GYMNODINIUM PYGMAEUM	200	19.4
5	1	20.0	EXUVIELLA SP.	200	19.4
5	1	20.0	CERATIUM FURCA	200	19.4
5	1	20.0	RHIZOSOLENIA DELICATULA	200	19.4
5	1	20.0	NITZSCHIA PUNGENS V. ATLANTICA	200	19.4
5	1	20.0	SILICA FLAGELLATE	100	19.4

TOTAL CELLS
PERCENT DIATOM/TOTAL 2
PERCENT DINOFLLAGELLATE/TOTAL 98
PERCENT OTHER/TOTAL 0

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
5	1	30.0	CERATIUM TRIPOS	27000	20.4
5	1	30.0	MELOSIRA MONILIFORMIS	2100	20.4
5	1	30.0	THALASSIOSIRA SP.	1200	20.4
5	1	30.0	RHIZOSOLENIA DELICATULA	700	20.4
5	1	30.0	PERIDINIUM SP.	400	20.4
5	1	30.0	EXUVIELLA SP.	400	20.4
5	1	30.0	NANNOPLANKTON	400	20.4
5	1	30.0	SILICA FLAGELLATE	300	20.4
5	1	30.0	GYMNODINIUM PYGMAEUM	300	20.4
5	1	30.0	DINOPHYSIS ACUTA	300	20.4
5	1	30.0	NITZSCHIA PUNGENS V. ATLANTICA	200	20.4
5	1	30.0	NAVICULA SP.	100	20.4
5	1	30.0	NITZSCHIA CLOSTERIUM	100	20.4

TOTAL CELLS
PERCENT DIATOM/TOTAL 13
PERCENT DINOFLLAGELLATE/TOTAL 85
PERCENT OTHER/TOTAL 2

LAT 40 41.0
SONIC DEPTH 0033

LONG 072 26.0 DATE 76/05/18
ONE PERCENT LIGHT DEPTH

TIME 0002

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
6	1	0.0	CERATIUM TRIPOS	17900	21 4	82
6	1	0.0	THALASSIOSIRA SP.	900	21 4	4
6	1	0.0	NANNOPLANKTON	800	21 4	4
6	1	0.0	RHIZOLENIA DELICATULA	700	21 4	3
6	1	0.0	DINOPHYSIS ACUTA	500	21 4	2
6	1	0.0	PERIDINIUM SP.	300	21 4	1
6	1	0.0	NITZSCHIA PUNGENS V. ATLANTICA	300	21 4	1
6	1	0.0	EXUVIELLA SP.	200	21 4	1
6	1	0.0	MELOSIRA SP.	100	21 4	0
6	1	0.0	CHAETOCEROS SP.	100	21 4	0
6	1	0.0	GYMNODINIUM SP.	100	21 4	0
TOTAL CELLS						
PERCENT DIATOM/TOTAL						10
PERCENT DINOFLAGELLATE/TOTAL						87
PERCENT OTHER/TOTAL						4

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
6	1	10.0	CERATIUM TRIPOS	38900	22 4	87
6	1	10.0	THALASSIOSIRA SP.	1200	22 4	3
6	1	10.0	NANNOPLANKTON	1100	22 4	3
6	1	10.0	PERIDINIUM SP.	1000	22 4	2
6	1	10.0	EXUVIELLA SP.	800	22 4	2
6	1	10.0	GYMNODINIUM SP.	500	22 4	1
6	1	10.0	NITZSCHIA PUNGENS V. ATLANTICA	300	22 4	1
6	1	10.0	GUINARDIA FLACCIDA	200	22 4	0
6	1	10.0	RHIZOLENIA DELICATULA	200	22 4	0
6	1	10.0	ASTERIONELLA JAPONICA	200	22 4	0
6	1	10.0	CERATIUM TRIPOS LONG • SHORT	100	22 4	0
6	1	10.0	DINOPHYSIS ACUTA	100	22 4	0
6	1	10.0	CHAETOCEROS SP.	100	22 4	0
6	1	10.0	RHIZOLENIA ROBUSTA	100	22 4	0
6	1	10.0	MELOSIRA SP.	100	22 4	0
TOTAL CELLS						
PERCENT DIATOM/TOTAL						5
PERCENT DINOFLAGELLATE/TOTAL						92
PERCENT OTHER/TOTAL						2

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
6	1	20.0	CERATIUM TRIPOS	85600	23 4	97
6	1	20.0	PERIDINIUM SP.	800	23 4	1
6	1	20.0	RHIZOLENIA DELICATULA	300	23 4	0
6	1	20.0	GYMNODINIUM SP.	200	23 4	0
6	1	20.0	NAVICULA SP.	200	23 4	0
6	1	20.0	EXUVIELLA SP.	200	23 4	0
6	1	20.0	DINOPHYSIS ACUTA	100	23 4	0
6	1	20.0	CERATIUM TRIPOS LONG • SHORT	100	23 4	0
6	1	20.0	NITZSCHIA CLOSTERIUM	100	23 4	0
6	1	20.0	THALASSIOSIRA SP.	100	23 4	0
6	1	20.0	NANNOPLANKTON	100	23 4	0
TOTAL CELLS						
PERCENT DIATOM/TOTAL						1
PERCENT DINOFLAGELLATE/TOTAL						99
PERCENT OTHER/TOTAL						0

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
6	1	30.0	CERATIUM TRIPOS	73700	24 4	96
6	1	30.0	PERIDINIUM SP.	800	24 4	1
6	1	30.0	MELOSIRA MONILIFORMIS	600	24 4	1
6	1	30.0	CERATIUM TRIPOS LONG • SHORT	500	24 4	1
6	1	30.0	DINOPHYSIS ACUTA	400	24 4	1
6	1	30.0	COSCIINODISCUS SP.	300	24 4	0
6	1	30.0	GUINARDIA FLACCIDA	100	24 4	0
6	1	30.0	RHIZOLENIA SP.	100	24 4	0
TOTAL CELLS						
PERCENT DIATOM/TOTAL						1
PERCENT DINOFLAGELLATE/TOTAL						99
PERCENT OTHER/TOTAL						0

R/V EASTWARD CRUISE
APRIL-MAY 1976

LAT 40 20.0
SONIC DEPTH 0088

LONG 071 14.6 DATE 76/04/24
ONE PERCENT LIGHT DEPTH 34.0

TIME 1023

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

21 1 0.0 CERATIUM TRIPOS
21 1 0.0 COSCINODISCUS SP.

500 73 4
500 73 4

50
50

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

50
50
0

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

21 1 5.0 CERATIUM TRIPOS
21 1 5.0 CERATIUM TRIPOS LONG + SHORT

500 74 4
100 74 4

83
17

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

0
100
0

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

21 1 10.0 CERATIUM TRIPOS
21 1 10.0 CERATIUM TRIPOS LONG + SHORT
21 1 10.0 COSCINODISCUS SP.
21 1 10.0 DINOPHYSIS ACUTA

1100 75 4
400 75 4
100 75 4
100 75 4

65
24
6
6

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

6
94
0

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

21 1 17.0 CERATIUM TRIPOS
21 1 17.0 CERATIUM TRIPOS LONG + SHORT
21 1 17.0 COSCINODISCUS SP.

1000 76 4
200 76 4
100 76 4

77
15
8

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

8
92
0

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

21 1 34.0 CERATAULINA SP
21 1 34.0 COSCINODISCUS SP.

3900 77 4
400 77 4

91
9

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

100
0
0

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

21 1 50.0 CERATAULINA SP
21 1 50.0 COSCINODISCUS SP.
21 1 50.0 PERIDINIUM SP.

800 78 4
500 78 4
100 78 4

57
36
7

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

93
7
0

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

21 1 70.0 COSCINODISCUS SP.

300 79 4

100

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

100
0
0

LAT 40 20.0
SONIC DEPTH 92

LONG 71 14.0 DATE 76/04/24
ONE PERCENT LIGHT DEPTH

TIME 1217

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

STA	CAST DEPTH(M)	SPECIES
22	1	0.0 CERATIUM TRIPOS
22	1	0.0 CERATIUM TRIPOS LONG + SHORT

(NO./L)	PERCENTAGES
400	80 4
100	80 4

TOTAL CELLS	PERCENT DIATOM/TOTAL	PERCENT DINOFLAGELLATE/TOTAL	PERCENT OTHER/TOTAL
	0	100	0

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

STA	CAST DEPTH(M)	SPECIES
22	1	40.0 CERATAULINA SP
22	1	40.0 CERATIUM TRIPOS
22	1	40.0 COSCINODISCUS SP.

(NO./L)	PERCENTAGES
2600	81 4
100	81 4
100	81 4

TOTAL CELLS	PERCENT DIATOM/TOTAL	PERCENT DINOFLAGELLATE/TOTAL	PERCENT OTHER/TOTAL
	96	4	0

LAT 40 39.8
SONIC DEPTH 0047

LONG 072 17.9 DATE 76/04/30
ONE PERCENT LIGHT DEPTH 24.0

TIME 2029

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
63	1	0.0 CERATIUM TRIPOS	19000 186 4	72
63	1	0.0 LEPTOCYLINDRUS MINIMUS	5300 186 4	20
63	1	0.0 EXUVIELLA SP	700 186 4	3
63	1	0.0 DINOPHYSIS ACUTA	600 186 4	2
63	1	0.0 CERATIUM TRIPOS LONG • SHORT	300 186 4	1
63	1	0.0 PERIDINIUM SP.	300 186 4	1
63	1	0.0 COSCINODISCUS SP.	200 186 4	1

TOTAL CELLS
PERCENT DIATOM/TOTAL 21
PERCENT DINOFLAGELLATE/TOTAL 79
PERCENT OTHER/TOTAL 0

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
63	1	25.0 CERATIUM TRIPOS	19700 187 4	99
63	1	25.0 PERIDINIUM SP.	100 187 4	1
63	1	25.0 COSCINODISCUS SP.	100 187 4	1

TOTAL CELLS
PERCENT DIATOM/TOTAL 1
PERCENT DINOFLAGELLATE/TOTAL 99
PERCENT OTHER/TOTAL 0

LAT 40 39.1
SONIC DEPTH 0050

LONG 072 16.9 DATE 76/04/30
ONE PERCENT LIGHT DEPTH 24.0

TIME 0123

STA CAST DEPTH(M)			SPECIES	(NO./L)		PERCENTAGES	
64	1	0.0	CERATIUM TRIPOS	9800	188 4	83	
64	1	0.0	DINOPHYSIS ACUTA	800	188 4	7	
64	1	0.0	LEPTOCYLINDRUS MINIMUS	600	188 4	5	
64	1	0.0	COSCIINODISCUS SP.	200	188 4	2	
64	1	0.0	EXUVIELLA SP.	200	188 4	2	
64	1	0.0	CERATIUM TRIPOS LONG + SHORT	100	188 4	1	
64	1	0.0	PERIDINIUM SP.	100	188 4	1	
TOTAL CELLS							
PERCENT DIATOM/TOTAL							7
PERCENT DINOFLAGELLATE/TOTAL							93
PERCENT OTHER/TOTAL							0

STA CAST DEPTH(M)			SPECIES	(NO./L)		PERCENTAGES	
64	1	25.0	CERATIUM TRIPOS	12000	189 4	92	
64	1	25.0	COSCIINODISCUS SP.	400	189 4	3	
64	1	25.0	DINOPHYSIS ACUTA	300	189 4	2	
64	1	25.0	CERATIUM TRIPOS LONG + SHORT	200	189 4	2	
64	1	25.0	EXUVIELLA SP.	100	189 4	1	
TOTAL CELLS							
PERCENT DIATOM/TOTAL							3
PERCENT DINOFLAGELLATE/TOTAL							97
PERCENT OTHER/TOTAL							0

LAT 40 37.0
SONIC DEPTH 0048

LONG 072 18.8 DATE 76/04/30
ONE PERCENT LIGHT DEPTH 24.0

TIME 0613

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
65	1	0.0	CERATIUM TRIPOS	7600	190 4 60
65	1	0.0	CERATIUM TRIPOS LONG + SHORT	2000	190 4 16
65	1	0.0	LEPTOCYLINDRUS MINIMUS	1100	190 4 9
65	1	0.0	MELOSIRA SP.	800	190 4 6
65	1	0.0	PERIDINIUM SP.	400	190 4 3
65	1	0.0	EXUVIELLA SP.	300	190 4 2
65	1	0.0	DINOPHYSIS ACUTA	200	190 4 2
65	1	0.0	COSCIINODISCUS SP.	100	190 4 1
65	1	0.0	PHALACROMA SP.	100	190 4 1

TOTAL CELLS
PERCENT DIATOM/TOTAL 16
PERCENT DINOFLAGELLATE/TOTAL 84
PERCENT OTHER/TOTAL 0

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
65	1	25.0	CERATIUM TRIPOS	72600	191 4 93
65	1	25.0	CERATIUM TRIPOS LONG + SHORT	1800	191 4 2
65	1	25.0	DINOPHYSIS ACUTA	1700	191 4 2
65	1	25.0	CERATIUM MINUTUM	700	191 4 1
65	1	25.0	COSCIINODISCUS SP.	500	191 4 1
65	1	25.0	CHAETOCEROS GRACILE	200	191 4 0
65	1	25.0	PERIDINIUM SP.	100	191 4 0
65	1	25.0	CERATIUM FURCA	100	191 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 1
PERCENT DINOFLAGELLATE/TOTAL 99
PERCENT OTHER/TOTAL 0

LAT 40 36.5
SONIC DEPTH 0050

LONG 072 20.3 DATE 76/04/30
ONE PERCENT LIGHT DEPTH 24.0

TIME 1028

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
66	1	0.0	CERATIUM TRIPOS	3700	192 4	76
66	1	0.0	CERATIUM TRIPOS LONG + SHORT	900	192 4	18
66	1	0.0	PERIDINIUM SP.	100	192 4	2
66	1	0.0	COSCINODISCUS SP.	100	192 4	2
66	1	0.0	THALASSIOSIRA SP.	100	192 4	2
TOTAL CELLS						4
PERCENT DIATOM/TOTAL						96
PERCENT DINOFLAGELLATE/TOTAL						0
PERCENT OTHER/TOTAL						0

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
66	1	4.0	CERATIUM TRIPOS	5200	193 4	81
66	1	4.0	CERATIUM TRIPOS LONG + SHORT	900	193 4	14
66	1	4.0	DINOPHYSIS ACUTA	300	193 4	5
TOTAL CELLS						0
PERCENT DIATOM/TOTAL						100
PERCENT DINOFLAGELLATE/TOTAL						0
PERCENT OTHER/TOTAL						0

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
66	1	7.0	CERATIUM TRIPOS	5200	194 4	63
66	1	7.0	CERATIUM TRIPOS LONG + SHORT	1600	194 4	20
66	1	7.0	ASTERIONELLA JAPONICA	800	194 4	10
66	1	7.0	DINOPHYSIS ACUTA	400	194 4	5
66	1	7.0	PERIDINIUM SP.	200	194 4	2
TOTAL CELLS						10
PERCENT DIATOM/TOTAL						90
PERCENT DINOFLAGELLATE/TOTAL						0
PERCENT OTHER/TOTAL						0

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
66	1	12.0	CERATIUM TRIPOS	12500	195 4	59
66	1	12.0	DINOPHYSIS ACUTA	5000	195 4	24
66	1	12.0	CERATIUM TRIPOS LONG + SHORT	3600	195 4	17
TOTAL CELLS						0
PERCENT DIATOM/TOTAL						100
PERCENT DINOFLAGELLATE/TOTAL						0
PERCENT OTHER/TOTAL						0

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
66	1	24.0	CERATIUM TRIPOS	12900	196 4	86
66	1	24.0	CERATIUM TRIPOS LONG + SHORT	1200	196 4	8
66	1	24.0	PERIDINIUM SP.	300	196 4	2
66	1	24.0	DINOPHYSIS ACUTA	200	196 4	1
66	1	24.0	EXUVIELLA SP.	200	196 4	1
66	1	24.0	CERATIUM FUSUS	100	196 4	1
66	1	24.0	COSCINODISCUS SP.	100	196 4	1
TOTAL CELLS						1
PERCENT DIATOM/TOTAL						99
PERCENT DINOFLAGELLATE/TOTAL						0
PERCENT OTHER/TOTAL						0

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
66	1	31.0	CERATIUM TRIPOS	18800	197 4	94
66	1	31.0	CERATIUM TRIPOS LONG + SHORT	600	197 4	3
66	1	31.0	COSCINODISCUS SP.	200	197 4	1
66	1	31.0	NITZSCHIA SERTIATA	200	197 4	1
66	1	31.0	PERIDINIUM SP.	100	197 4	0
66	1	31.0	DINOPHYSIS ACUTA	100	197 4	0
TOTAL CELLS						2
PERCENT DIATOM/TOTAL						98
PERCENT DINOFLAGELLATE/TOTAL						0
PERCENT OTHER/TOTAL						0

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
66	1	45.0	EXUVIELLA SP.	100	198 4	100
TOTAL CELLS						0
PERCENT DIATOM/TOTAL						100
PERCENT DINOFLAGELLATE/TOTAL						0
PERCENT OTHER/TOTAL						0

LAT 40 36.5
SONIC DEPTH 0047

LONG 072 21.5 DATE 76/04/30
ONE PERCENT LIGHT DEPTH 24.0

TIME 1343

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
67	1	0.0	LEPTOCYLINDRUS MINIMUS	1900 199 4	49
67	1	0.0	CERATIUM TRIPOS	1400 199 4	36
67	1	0.0	EXUVIELLA SP	300 199 4	8
67	1	0.0	CERATIUM TRIPOS LONG + SHORT	200 199 4	5
67	1	0.0	COSCINODISCUS SP.	100 199 4	3

TOTAL CELLS
PERCENT DIATOM/TOTAL 51
PERCENT DINOFLAGELLATE/TOTAL 49
PERCENT OTHER/TOTAL 0

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
67	1	30.0	CERATIUM TRIPOS	30800 200 4	97
67	1	30.0	COSCINODISCUS SP.	300 200 4	1
67	1	30.0	DINOPHYSIS ACUTA	300 200 4	1
67	1	30.0	LEPTOCYLINDRUS MINIMUS	200 200 4	1
67	1	30.0	CERATIUM TRIPOS LONG + SHORT	100 200 4	0
67	1	30.0	CERATIUM FURCA	100 200 4	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 2
PERCENT DINOFLAGELLATE/TOTAL 98
PERCENT OTHER/TOTAL 0

LAT 40 38.2
SONIC DEPTH 0045

LONG 072 23.7 DATE 76/04/30
ONE PERCENT LIGHT DEPTH 24.0

TIME 2023

STA	CAS	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
68	1	0.0	CERATIUM TRIPOS	28000 201 4	82	
68	1	0.0	LEPTOCYLINDRUS MINIMUS	2700 201 4	8	
68	1	0.0	CERATIUM TRIPOS LONG • SHORT	1600 201 4	5	
68	1	0.0	DINOPHYSIS ACUTA	900 201 4	3	
68	1	0.0	COSCIINODISCUS SP.	300 201 4	1	
68	1	0.0	CERATIUM MINUTUM	200 201 4	1	
68	1	0.0	EXUVIELLA SP.	200 201 4	1	
68	1	0.0	PERIDINIUM SP.	200 201 4	1	
68	1	0.0	CERATIUM FLVCA	100 201 4	0	
68	1	0.0	PHALACROMA ROTUNDATUM	100 201 4	0	
					TOTAL CELLS	
					PERCENT DIATOM/TOTAL	9
					PERCENT DINOFLAGELLATE/TOTAL	91
					PERCENT OTHER/TOTAL	0

STA	CAS	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
68	1	35.0	PERIDINIUM SP.	300 202 4	33	
68	1	35.0	COSCIINODISCUS SP.	300 202 4	33	
68	1	35.0	EXUVIELLA SP.	200 202 4	22	
68	1	35.0	CERATIUM TRIPOS	100 202 4	11	
					TOTAL CELLS	
					PERCENT DIATOM/TOTAL	33
					PERCENT DINOFLAGELLATE/TOTAL	67
					PERCENT OTHER/TOTAL	0

LAT 40 46.9
SONIC DEPTH 0033

LONG 072 19.6 DATE 76/05/01
ONE PERCENT LIGHT DEPTH 20.0

TIME 0213

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
72	1	0.0	CERATIUM TRIPOS	7000 209 4	76
72	1	0.0	LEPTOCYLINDRUS MINIMUS	1100 209 4	12
72	1	0.0	CERATIUM TRIPOS LONG + SHORT	600 209 4	7
72	1	0.0	DINOPHYSIS ACUTA	200 209 4	2
72	1	0.0	PERIDINIUM SP.	100 209 4	1
72	1	0.0	COSCINODISCUS SP.	100 209 4	1
72	1	0.0	SILTE	100 209 4	1

TOTAL CELLS
PERCENT DIATOM/TOTAL 13
PERCENT DINOFLAGELLATE/TOTAL 86
PERCENT OTHER/TOTAL 1

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
72	1	18.0	CERATIUM TRIPOS	24400 210 4	88
72	1	18.0	LEPTOCYLINDRUS MINIMUS	1600 210 4	6
72	1	18.0	DINOPHYSIS ACUTA	500 210 4	2
72	1	18.0	COSCINODISCUS SP.	500 210 4	2
72	1	18.0	CERATIUM TRIPOS LONG + SHORT	400 210 4	1
72	1	18.0	PERIDINIUM SP.	400 210 4	1

TOTAL CELLS
PERCENT DIATOM/TOTAL 8
PERCENT DINOFLAGELLATE/TOTAL 92
PERCENT OTHER/TOTAL 0

LAT 40 35.6
SONIC DEPTH 0048

LONG 072 22.4 DATE 76/05/01
ONE PERCENT LIGHT DEPTH 20.0

TIME 0628

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
75	1	0.0	CERATIUM TRIPOS	13900 215 4	66	
75	1	0.0	CERATIUM TRIPOS LONG + SHORT	4100 215 4	19	
75	1	0.0	LEPTOCYLINDRUS MINIMUS	2500 215 4	12	
75	1	0.0	COSCINODISCUS SP.	200 215 4	1	
75	1	0.0	PERIDINIUM SP.	200 215 4	1	
75	1	0.0	TINTINNIDA	100 215 4	0	
75	1	0.0	SILIATE	100 215 4	0	
					TOTAL CELLS	
					PERCENT DIATOM/TOTAL	13
					PERCENT DINOFLAGELLATE/TOTAL	86
					PERCENT OTHER/TOTAL	1

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
75	1	30.0	CERATIUM TRIPOS	12900 216 4	96	
75	1	30.0	PERIDINIUM SP.	200 216 4	1	
75	1	30.0	DINOPHYSIS ACUTA	200 216 4	1	
75	1	30.0	COSCINODISCUS SP.	100 216 4	1	
75	1	30.0	NAVICULA SP.	100 216 4	1	
					TOTAL CELLS	
					PERCENT DIATOM/TOTAL	1
					PERCENT DINOFLAGELLATE/TOTAL	99
					PERCENT OTHER/TOTAL	0

LAT 40 35.9
SONIC DEPTH 0040

LONG 072 29.0 DATE 76/05/01
ONE PERCENT LIGHT DEPTH 20.0

TIME 1031

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
77	1	0.0	CERATIUM TRIPOS	4200	219 4 54
77	1	0.0	LEPTOCYLINDRUS MINIMUS	1500	219 4 19
77	1	0.0	CERATIUM TRIPOS LONG + SHORT	1200	219 4 15
77	1	0.0	COSCIINODISCUS SP.	500	219 4 6
77	1	0.0	PERIDINIUM SP.	200	219 4 3
77	1	0.0	EXUVIELLA SP.	200	219 4 3

TOTAL CELLS
PERCENT DIATOM/TOTAL 26
PERCENT DINOFLAGELLATE/TOTAL 74
PERCENT OTHER/TOTAL 0

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
77	1	30.0	CERATIUM TRIPOS	5200	220 4 70
77	1	30.0	CERATIUM TRIPOS LONG + SHORT	1700	220 4 23
77	1	30.0	DINOPHYSIS ACUTA	200	220 4 3
77	1	30.0	LEPTOCYLINDRUS MINIMUS	100	220 4 1
77	1	30.0	EXUVIELLA SP.	100	220 4 1
77	1	30.0	COSCIINODISCUS SP.	100	220 4 1

TOTAL CELLS
PERCENT DIATOM/TOTAL 3
PERCENT DINOFLAGELLATE/TOTAL 97
PERCENT OTHER/TOTAL 0

LAT 39 35.6
SONIC DEPTH 1350

LONG 071 44.1 DATE 76/05/05
ONE PERCENT LIGHT DEPTH

TIME 2333

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
93	1	0.0	CERATIUM TRIPOS	1900	247 4 83
93	1	0.0	DINOPHYSIS ACUTA	100	247 4 4
93	1	0.0	CERATIUM MINUTUM	100	247 4 4
93	1	0.0	COSCINODISCUS SP.	100	247 4 4
93	1	0.0	EXUVIELLA SP	100	247 4 4

TOTAL CELLS
PERCENT DIATOM/TOTAL 4
PERCENT DINOFLAGELLATE/TOTAL 96
PERCENT OTHER/TOTAL 0

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
93	1	30.0	COSCINODISCUS SP.	500	248 4 63
93	1	30.0	PERIDINIUM SP.	200	248 4 25
93	1	30.0	CERATIUM TRIPOS	100	248 4 13

TOTAL CELLS
PERCENT DIATOM/TOTAL 63
PERCENT DINOFLAGELLATE/TOTAL 38
PERCENT OTHER/TOTAL 0

LAT 39 41.1
SONIC DEPTH 0500

LONG 071 46.7 DATE 05/05/05
ONE PERCENT LIGHT DEPTH

TIME 0255

STA	C	D	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
94	1	0.0	CERATIUM TRIPOS	1200	249 4	57
94	1	0.0	CERATIUM MINUTUM	200	249 4	10
94	1	0.0	EXUVIELLA SP	200	249 4	10
94	1	0.0	DINOPHYSIS ACUTA	200	249 4	10
94	1	0.0	CERATIUM TRIPOS LONG + SHORT	100	249 4	5
94	1	0.0	COSCIINODISCUS SP.	100	249 4	5
94	1	0.0	PERIDINIUM SP.	100	249 4	5

TOTAL CELLS
PERCENT DIATOM/TOTAL 5
PERCENT DINOFLAGELLATE/TOTAL 95
PERCENT OTHER/TOTAL 0

STA	C	D	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
94	1	30.0	COSCIINODISCUS SP.	100	250 4	17
94	1	30.0	EXUVIELLA SP	100	250 4	17
94	1	30.0	PERIDINIUM SP.	100	250 4	17
94	1	30.0	CHAETOCEROS SP.	100	250 4	17
94	1	30.0	DINOPHYSIS ACUTA	100	250 4	17
94	1	30.0	CERATIUM TRIPOS	100	250 4	17

TOTAL CELLS
PERCENT DIATOM/TOTAL 33
PERCENT DINOFLAGELLATE/TOTAL 67
PERCENT OTHER/TOTAL 0

LAT 39 49.2
SONIC DEPTH 0187

LONG 071 51.5 DATE 76/05/05
ONE PERCENT LIGHT DEPTH

TIME 0607

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

95 1 0.0 CERATIUM TRIPOS
95 1 0.0 CERATIUM TRIPOS LONG + SHORT

1700 252 4
300 252 4

85
15

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

0
100
0

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

95 1 22.0 CERATIUM TRIPOS
95 1 22.0 CERATIUM TRIPOS LONG + SHORT
95 1 22.0 COSCINODISCUS SP.

3400 251 4
100 251 4
100 251 4

94
3
3

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

3
97
0

LAT 40 00.0
SONIC DEPTH 0900

LONG 071 57.9 DATE 76/05/05
ONE PERCENT LIGHT DEPTH

TIME 0902

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
96	1	0.0	CERATIUM TRIPOS	3800 253 4	68
96	1	0.0	CERATIUM TRIPOS LONG + SHORT	1100 253 4	20
96	1	0.0	CERATAULINA SP	500 253 4	9
96	1	0.0	COSCINODISCUS SP.	100 253 4	2
96	1	0.0	DINOPHYSIS ACUTA	100 253 4	2

TOTAL CELLS	
PERCENT DIATOM/TOTAL	11
PERCENT DINOFLAGELLATE/TOTAL	89
PERCENT OTHER/TOTAL	0

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
96	1	30.0	CERATAULINA SP	900 254 4	64
96	1	30.0	COSCINODISCUS SP.	400 254 4	29
96	1	30.0	CERATIUM TRIPOS	100 254 4	7

TOTAL CELLS	
PERCENT DIATOM/TOTAL	93
PERCENT DINOFLAGELLATE/TOTAL	7
PERCENT OTHER/TOTAL	0

LAT 40 03.5
SONIC DEPTH 0068

LONG 072 01.1 DATE 76/05/05
ONE PERCENT LIGHT DEPTH

TIME 1052

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

97	1	0.0	CERATIUM TRIPOS	1900	255	4	86
97	1	0.0	CERATIUM TRIPOS LONG + SHORT	300	255	4	14

TOTAL CELLS	
PERCENT DIATOM/TOTAL	0
PERCENT DINOFLAGELLATE/TOTAL	100
PERCENT OTHER/TOTAL	0

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

97	1	30.0	CERATIUM TRIPOS	2500	256	4	61
97	1	30.0	CERATAULINA SP	1000	256	4	24
97	1	30.0	CERATIUM TRIPOS LONG + SHORT	400	256	4	10
97	1	30.0	COSCIINODISCUS SP.	200	256	4	5

TOTAL CELLS	
PERCENT DIATOM/TOTAL	29
PERCENT DINOFLAGELLATE/TOTAL	71
PERCENT OTHER/TOTAL	0

LAT 40 08.9
SONIC DEPTH 0055

LONG 072 04.5 DATE 76/05/05
ONE PERCENT LIGHT DEPTH

TIME 1249

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

98	1	0.0	CERATIUM TRIPOS	2900	257	4	81
98	1	0.0	CERATIUM TRIPOS LONG + SHORT	700	257	4	19

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

0
100
0

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

98	1	35.0	COSCIINODISCUS SP.	300	258	4	60
98	1	35.0	CERATIUM TRIPOS	200	258	4	40

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

60
40
0

LAT 40 12.9
SONIC DEPTH 0065

LONG 072 07.5 DATE 76/05/05
ONE PERCENT LIGHT DEPTH

TIME 1602

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
99	1	32.0	CERATIUM TRIPOS	25900	259 4 87
99	1	32.0	CERATIUM TRIPOS LONG + SHORT	3400	259 4 11
99	1	32.0	CHAETOCEROS CURVISETUS	300	259 4 1
99	1	32.0	PERIDINIUM SP.	100	259 4 0
99	1	32.0	COSCINODISCUS SP.	100	259 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 1
PERCENT DINOFLAGELLATE/TOTAL 99
PERCENT OTHER/TOTAL 0

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
99	1	35.0	CERATIUM TRIPOS	1300	261 4 68
99	1	35.0	CERATIUM TRIPOS LONG + SHORT	400	261 4 21
99	1	35.0	COSCINODISCUS SP.	200	261 4 11

TOTAL CELLS
PERCENT DIATOM/TOTAL 11
PERCENT DINOFLAGELLATE/TOTAL 89
PERCENT OTHER/TOTAL 0

LAT 40 23.4
SONIC DEPTH 0057

LONG 072 14.0 DATE 76/05/05
ONE PERCENT LIGHT DEPTH

TIME 2020

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
101	1	0.0	CERATIUM TRIPOS	8700	264 4 93
101	1	0.0	CERATIUM TRIPOS LONG + SHORT	400	264 4 4
101	1	0.0	DINOPHYSIS ACUTA	200	264 4 2
101	1	0.0	COSCIINODISCUS SP.	100	264 4 1

TOTAL CELLS
PERCENT DIATOM/TOTAL 1
PERCENT DINOFLAGELLATE/TOTAL 99
PERCENT OTHER/TOTAL 0

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
101	1	32.0	CERATIUM TRIPOS	29800	265 4 100
101	1	32.0	CERATIUM FUSUS	100	265 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 0
PERCENT DINOFLAGELLATE/TOTAL 100
PERCENT OTHER/TOTAL 0

R/V RESEARCHER CRUISE
SEPTEMBER 1976

LAT 40 25.4
SONIC DEPTH 34

LONG 73 40.0 DATE 76/09/16
ONE PERCENT LIGHT DEPTH

TIME 2000

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
1	1	0.0 SKELETONEMA COSTATUM	85050	4 71
1	1	0.0 CHAETOCEROS SP.	11140	4 9
1	1	0.0 NITZSCHIA SERTIATA	4550	4 4
1	1	0.0 LEPTOCYLINDRUS SP.	4200	4 4
1	1	0.0 SILIATE	3450	4 3
1	1	0.0 THALASSIOSIRA NORDENSKIÖDII	2550	4 2
1	1	0.0 PERIDINIUM SP.	2100	4 2
1	1	0.0 COCCOLITHOPHORES	1500	4 1
1	1	0.0 NITZSCHIA CLOSTERIUM	1200	4 1
1	1	0.0 THALASSIONEMA NITZSCHIOIDES	1050	4 1
1	1	0.0 RHIZOSOLENIA SP.	600	4 1
1	1	0.0 EUCAMPIA SP.	600	4 1
1	1	0.0 TINTINNIDA	450	4 0
1	1	0.0 DETONULA CONFERVACEA	150	4 0
1	1	0.0 EXUVIELLA SP.	150	4 0
1	1	0.0 PROROCENTRUM SP.	150	4 0
1	1	0.0 GUINARDIA FLACCIDA	150	4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 93
PERCENT DINOFLAGELLATE/TOTAL 2
PERCENT OTHER/TOTAL 5

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
1	1	25.0 SKELETONEMA COSTATUM	354300	4 67
1	1	25.0 SILICA FLAGELLATE	79870	4 15
1	1	25.0 NANNOPLANKTON	26620	4 5
1	1	25.0 THALASSIOSIRA SP.	19390	4 4
1	1	25.0 UNIDENTIFIED DIATOMS	18430	4 3
1	1	25.0 COCCOLITHOPHORES	6300	4 1
1	1	25.0 NITZSCHIA CLOSTERIUM	5600	4 1
1	1	25.0 ASTERIONELLA JAPONICA	5430	4 1
1	1	25.0 LEPTOCYLINDRUS SP.	3990	4 1
1	1	25.0 CHAETOCEROS SP.	3590	4 1
1	1	25.0 THALASSIONEMA NITZSCHIOIDES	3110	4 1
1	1	25.0 THALASSIOTHRUX SP.	3110	4 1
1	1	25.0 NITZSCHIA SERTIATA	640	4 0
1	1	25.0 EUCAMPIA SP.	640	4 0
1	1	25.0 SCHRODERELLA SP.	320	4 0
1	1	25.0 RHIZOSOLENIA SP.	320	4 0
1	1	25.0 RADIOLARIAN	160	4 0
1	1	25.0 STREPTOTHECA SP.	160	4 0
1	1	25.0 SILICA FLAGELLATE	80	4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 79
PERCENT DINOFLAGELLATE/TOTAL 0
PERCENT OTHER/TOTAL 21

LAT 40 10.0
SONIC DEPTH 50

LONG 73 00.5 DATE 76/09/19
ONE PERCENT LIGHT DEPTH

TIME 1200

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
2	1	0.0	SILICA FLAGELLATE	315300	59
2	1	0.0	SKFLETONEMA COSTATUM	94030	18
2	1	0.0	COCCOLITHOPHORES	77810	15
2	1	0.0	DINOFLAGELLATES	17900	3
2	1	0.0	CHAETOCEROS SP.	11670	2
2	1	0.0	LEPTOCYLINDRUS SP.	5370	1
2	1	0.0	NITZSCHIA SERTIATA	3270	1
2	1	0.0	TINTINNIDA	2800	1
2	1	0.0	RHIZOSOLENIA SP.	1860	0
2	1	0.0	NANNOPLANKTON	1170	0
2	1	0.0	THALASSIOSIRA SP.	930	0
2	1	0.0	NITZSCHIA CLOSTERIUM	700	0
2	1	0.0	PROROCENTRUM SP.	470	0
2	1	0.0	PERIDINIUM SP.	230	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 22
PERCENT DINOFLAGELLATE/TOTAL 3
PERCENT OTHER/TOTAL 74

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
2	1	25.0	SILICA FLAGELLATE	121900	68
2	1	25.0	NANNOPLANKTON	28670	16
2	1	25.0	COCCOLITHOPHORES	25370	14
2	1	25.0	SKFLETONEMA COSTATUM	1120	1
2	1	25.0	TINTINNIDA	700	0
2	1	25.0	THALASSIOTHRIX SP.	560	0
2	1	25.0	DINOFLAGELLATES	358	0
2	1	25.0	UNIDENTIFIED DIATOMS	358	0
2	1	25.0	PERIDINIUM SP.	280	0
2	1	25.0	THALASSIOSIRA SP.	280	0
2	1	25.0	EXUVIELLA SP	280	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 1
PERCENT DINOFLAGELLATE/TOTAL 1
PERCENT OTHER/TOTAL 98

LAT 39 39.5
SONIC DEPTH 550

LONG 71 54.2 DATE 76/09/19
ONE PERCENT LIGHT DEPTH

TIME 2200

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
10	1	0.0	SILICA FLAGELLATE	172000	4 73
10	1	0.0	NANNOPLANKTON	36860	4 16
10	1	0.0	DINOFAGELLATES	16380	4 7
10	1	0.0	COCCOLITHOPHORES	8510	4 4
10	1	0.0	PERIDINIUM SP.	480	4 0
10	1	0.0	THALASSIOSIRA SP.	480	4 0
10	1	0.0	TINTINNIDA	320	4 0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	0
PERCENT DINOFAGELLATE/TOTAL	7
PERCENT OTHER/TOTAL	93

LAT 40 46.2
SONIC DEPTH 27

LONG 072 31.0 DATE 76/09/22
ONE PERCENT LIGHT DEPTH 14

TIME 0209

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
7A	1	0.0	GYMNODINIUM SP.	800 PF5 4	40
7A	1	0.0	COSCONODISCUS SP.	400 PF5 4	20
7A	1	0.0	NITZSCHIA PUNGENS V. ATLANTICA	300 PF5 4	15
7A	1	0.0	PROROCENTRUM SP.	100 PF5 4	5
7A	1	0.0	SILICA FLAGELLATE	100 PF5 4	5
7A	1	0.0	HEMIAULUS SP.	100 PF5 4	5
7A	1	0.0	EXUVIELLA SP.	100 PF5 4	5
7A	1	0.0	NAVICULA SP.	100 PF5 4	5

TOTAL CELLS
PERCENT DIATOM/TOTAL 45
PERCENT DINOFLAGELLATE/TOTAL 50
PERCENT OTHER/TOTAL 5

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
7A	1	20.0	COSCONODISCUS SP.	3200 PF7 4	46
7A	1	20.0	SILICA FLAGELLATE	1400 PF7 4	20
7A	1	20.0	NAVICULA SP.	400 PF7 4	6
7A	1	20.0	GYMNODINIUM SP.	400 PF7 4	6
7A	1	20.0	EXUVIELLA SP.	400 PF7 4	6
7A	1	20.0	HELOSIRA NUMMULOIDES	400 PF7 4	6
7A	1	20.0	CERATIUM FURCA	200 PF7 4	3
7A	1	20.0	NITZSCHIA PUNGENS V. ATLANTICA	100 PF7 4	1
7A	1	20.0	HEMIAULUS SP.	100 PF7 4	1
7A	1	20.0	PERIDINIUM SP.	100 PF7 4	1
7A	1	20.0	PROROCENTRUM SP.	100 PF7 4	1
7A	1	20.0	THALASSIOSIRA GRAVIDA	100 PF7 4	1
7A	1	20.0	DINOPHYSIS ACUTA	100 PF7 4	1

TOTAL CELLS
PERCENT DIATOM/TOTAL 61
PERCENT DINOFLAGELLATE/TOTAL 19
PERCENT OTHER/TOTAL 20

LAT 40 46.3
SONIC DEPTH 27

LONG 072 31.4 DATE 78/09/22
ONE PERCENT LIGHT DEPTH 23

TIME 1313

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

78	1	0.0	GYMNODINIUM SP.
78	1	0.0	PHOROCENTRUM SP.
78	1	0.0	SILICA FLAGELLATE
78	1	0.0	NITZSCHIA PUNGENS V. ATLANTICA

300	PF15	4
100	PF15	4
100	PF15	4
100	PF15	4

TOTAL CELLS	
PERCENT DIATOM/TOTAL	17
PERCENT DINOFLAGELLATE/TOTAL	57
PERCENT OTHER/TOTAL	17

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

78	1	15.0	COSCIINODISCUS SP.
78	1	15.0	SILICA FLAGELLATE
78	1	15.0	THALASSIOSIRA GRAVIDA
78	1	15.0	EXUVIELLA SP.
78	1	15.0	NAVICULA SP.

600	PF18	4
500	PF18	4
200	PF18	4
100	PF18	4
100	PF18	4

TOTAL CELLS	
PERCENT DIATOM/TOTAL	60
PERCENT DINOFLAGELLATE/TOTAL	7
PERCENT OTHER/TOTAL	33

LAT 40 46.4
SONIC DEPTH 27

LONG 072 31.1 DATE 76/09/23
ONE PERCENT LIGHT DEPTH 16

TIME 0123

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
7C	1	0.0 COSCINODISCUS SP.	1300 PF27 4	35
7C	1	0.0 GYMNOIDINIUM SP.	1100 PF27 4	30
7C	1	0.0 THALASSIOSIRA GRAVIDA	600 PF27 4	16
7C	1	0.0 NAVICULA SP.	300 PF27 4	8
7C	1	0.0 NITZSCHIA SERTIATA	200 PF27 4	5
7C	1	0.0 PROROCENTRUM SP.	100 PF27 4	3
7C	1	0.0 GYROSIGMA SPENCERII	100 PF27 4	3

TOTAL CELLS
PERCENT DIATOM/TOTAL 68
PERCENT DINOFLAGELLATE/TOTAL 32
PERCENT OTHER/TOTAL 0

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
7C	1	10.0 COSCINODISCUS SP.	1300 PF29 4	38
7C	1	10.0 GYMNOIDINIUM SP.	700 PF29 4	21
7C	1	10.0 NITZSCHIA PUNGENS V. ATLANTICA	500 PF29 4	15
7C	1	10.0 THALASSIOSIRA GRAVIDA	400 PF29 4	12
7C	1	10.0 PROROCENTRUM SP.	300 PF29 4	9
7C	1	10.0 NAVICULA SP.	100 PF29 4	3
7C	1	10.0 PERIDINIUM SP.	100 PF29 4	3

TOTAL CELLS
PERCENT DIATOM/TOTAL 68
PERCENT DINOFLAGELLATE/TOTAL 32
PERCENT OTHER/TOTAL 0

LAT 40 39.2
SONIC DEPTH 26

LONG 072 54.6 DATE 76/09/23
ONE PERCENT LIGHT DEPTH

TIME 0825

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
8	1	0.0 NITZSCHIA PUNGENS V. ATLANTICA	4700 PF39 4	41
8	1	0.0 COSCINODISCUS SP.	1100 PF39 4	9
8	1	0.0 SKELETONEMA COSTATUM	1100 PF39 4	9
8	1	0.0 LEPTOCYLINDRUS MINIMUS	800 PF39 4	7
8	1	0.0 EXUVIELLA SP.	800 PF39 4	7
8	1	0.0 GYMNODINIUM SP.	700 PF39 4	6
8	1	0.0 PROROCENTRUM SP.	600 PF39 4	5
8	1	0.0 NAVICULA SP.	600 PF39 4	5
8	1	0.0 CERATIUM FURCA	400 PF39 4	3
8	1	0.0 PERIDINIUM SP.	300 PF39 4	3
8	1	0.0 SILICA FLAGELLATE	200 PF39 4	2
8	1	0.0 THALASSIOSIRA GRAVIDA	100 PF39 4	1
8	1	0.0 CERATIUM FUSUS	100 PF39 4	1
8	1	0.0 CHAETOCEROS GRACILE	100 PF39 4	1

TOTAL CELLS
PERCENT DIATOM/TOTAL 73
PERCENT DINOFLAGELLATE/TOTAL 25
PERCENT OTHER/TOTAL 2

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
8	1	10.0 NITZSCHIA PUNGENS V. ATLANTICA	15100 PF41 4	50
8	1	10.0 LEPTOCYLINDRUS MINIMUS	5100 PF41 4	17
8	1	10.0 EXUVIELLA SP.	2600 PF41 4	9
8	1	10.0 SKELETONEMA COSTATUM	1500 PF41 4	5
8	1	10.0 COSCINODISCUS SP.	1100 PF41 4	4
8	1	10.0 GYMNODINIUM SP.	800 PF41 4	3
8	1	10.0 NAVICULA SP.	600 PF41 4	2
8	1	10.0 CERATIUM FURCA	600 PF41 4	2
8	1	10.0 PROROCENTRUM SP.	600 PF41 4	2
8	1	10.0 PERIDINIUM SP.	500 PF41 4	2
8	1	10.0 PLEUROSIGMA AESTUARII	400 PF41 4	1
8	1	10.0 SILICA FLAGELLATE	400 PF41 4	1
8	1	10.0 THALASSIONEMA NITZSCHIOIDES	300 PF41 4	1
8	1	10.0 CHAETOCEROS GRACILE	300 PF41 4	1
8	1	10.0 CERATIUM FURCA	100 PF41 4	0
8	1	10.0 SILIATE	100 PF41 4	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 81
PERCENT DINOFLAGELLATE/TOTAL 17
PERCENT OTHER/TOTAL 2

LAT 40 31.8
SONIC DEPTH 22

LONG 073 18.1 DATE 76/09/23
ONE PERCENT LIGHT DEPTH 18

TIME 1312

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
9A	1	0.0	NITZSCHIA PUNGENS V. ATLANTICA	22600 PF45 4	65	
9A	1	0.0	LEPTOCYLINDRUS MINIMUS	4600 PF45 4	13	
9A	1	0.0	EXUVIELLA SP.	2700 PF45 4	8	
9A	1	0.0	COSCIJODISCUS SP.	1500 PF45 4	4	
9A	1	0.0	SKELETONEMA COSTATUM	1100 PF45 4	3	
9A	1	0.0	CHAETOCEROS GRACILE	600 PF45 4	2	
9A	1	0.0	MELOSIRA NUMMULOIDES	300 PF45 4	1	
9A	1	0.0	GYMNODINIUM SP.	300 PF45 4	1	
9A	1	0.0	PLEUROSIGMA AESTUARII	200 PF45 4	1	
9A	1	0.0	NITZSCHIA CLOSTERIUM	200 PF45 4	1	
9A	1	0.0	NAVICULA SP.	200 PF45 4	1	
9A	1	0.0	THALASSIOSIRA GRAVIDA	200 PF45 4	1	
9A	1	0.0	THALASSIONEMA NITZSCHIOIDES	130 PF45 4	0	
9A	1	0.0	BIDDULPHIA ALTERNANS	100 PF45 4	0	
9A	1	0.0	PROROCENTRUM SP.	100 PF45 4	0	
9A	1	0.0	PERIDINIUM SP.	100 PF45 4	0	
9A	1	0.0	CERATIUM FURCA	100 PF45 4	0	
						TOTAL CELLS
						PERCENT DIATOM/TOTAL
						PERCENT DINOFLAGELLATE/TOTAL
						PERCENT OTHER/TOTAL
						91
						9
						0

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
9A	1	10.0	NITZSCHIA PUNGENS V. ATLANTICA	11500 PF47 4	59	
9A	1	10.0	LEPTOCYLINDRUS MINIMUS	2600 PF47 4	13	
9A	1	10.0	EXUVIELLA SP.	1300 PF47 4	7	
9A	1	10.0	SKELETONEMA COSTATUM	1100 PF47 4	6	
9A	1	10.0	MELOSIRA WESTII	600 PF47 4	3	
9A	1	10.0	GYMNODINIUM SP.	400 PF47 4	2	
9A	1	10.0	COSCIJODISCUS SP.	400 PF47 4	2	
9A	1	10.0	SILICA FLAGELLATE	400 PF47 4	2	
9A	1	10.0	THALASSIOSIRA GRAVIDA	300 PF47 4	2	
9A	1	10.0	THALASSIOSIRA HYALINA	300 PF47 4	2	
9A	1	10.0	THALASSIONEMA NITZSCHIOIDES	200 PF47 4	1	
9A	1	10.0	PLEUROSIGMA AESTUARII	100 PF47 4	1	
9A	1	10.0	RHIZOSOLENIA ALATA	100 PF47 4	1	
9A	1	10.0	NITZSCHIA CLOSTERIUM	100 PF47 4	1	
9A	1	10.0	CHAETOCEROS GRACILE	100 PF47 4	1	
						TOTAL CELLS
						PERCENT DIATOM/TOTAL
						PERCENT DINOFLAGELLATE/TOTAL
						PERCENT OTHER/TOTAL
						69
						9
						2

LAT 40 31.9
SONIC DEPTH 22

LONG 073 18.1 DATE 76/09/23
ONE PERCENT LIGHT DEPTH 18

TIME 1854

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
98	1	0.0	NITZSCHIA PUNGENS V. ATLANTICA	11800 PF50 4	81
98	1	0.0	LEPTOCYLINDRUS MINIMUS	500 PF50 4	3
98	1	0.0	THALASSIONEMA NITZSCHIOIDES	500 PF50 4	3
98	1	0.0	COSCIINODISCUS SP.	400 PF50 4	3
98	1	0.0	NAVICULA SP.	300 PF50 4	2
98	1	0.0	THALASSIOSIRA GRAVIDA	200 PF50 4	1
98	1	0.0	MELOSIRA MONILIFORMIS	200 PF50 4	1
98	1	0.0	PERIDINIUM SP.	200 PF50 4	1
98	1	0.0	EXUVIELLA SP.	120 PF50 4	1
98	1	0.0	TINTINNIDA	100 PF50 4	1
98	1	0.0	DINOPHYSIS ACUTA	100 PF50 4	1
98	1	0.0	CHAETOCEROS GRACILE	100 PF50 4	1
98	1	0.0	RHIZOSOLENIA ALATA	100 PF50 4	1

TOTAL CELLS
PERCENT DIATOM/TOTAL 96
PERCENT DINOFLAGELLATE/TOTAL 3
PERCENT OTHER/TOTAL 1

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
98	1	10.0	NITZSCHIA PUNGENS V. ATLANTICA	7200 PF52 4	45
98	1	10.0	COSCIINODISCUS SP.	2000 PF52 4	13
98	1	10.0	THALASSIONEMA NITZSCHIOIDES	1300 PF52 4	8
98	1	10.0	SKELETONEMA COSTATUM	900 PF52 4	6
98	1	10.0	LEPTOCYLINDRUS MINIMUS	800 PF52 4	5
98	1	10.0	EXUVIELLA SP.	600 PF52 4	4
98	1	10.0	THALASSIOSIRA HYALINA	600 PF52 4	4
98	1	10.0	GYMNODINIUM SP.	600 PF52 4	4
98	1	10.0	MELOSIRA WESTII	600 PF52 4	4
98	1	10.0	NAVICULA SP.	300 PF52 4	2
98	1	10.0	NITZSCHIA CLOSTERIUM	300 PF52 4	2
98	1	10.0	PLEUROSIGMA AESTUARII	200 PF52 4	1
98	1	10.0	DINOPHYSIS ACUTA	200 PF52 4	1
98	1	10.0	BACTERIOSIRA	100 PF52 4	1
98	1	10.0	RHIZOSOLENIA HEBETATA	100 PF52 4	1
98	1	10.0	PERIDINIUM SP.	100 PF52 4	1

TOTAL CELLS
PERCENT DIATOM/TOTAL 91
PERCENT DINOFLAGELLATE/TOTAL 9
PERCENT OTHER/TOTAL 0

R/V DELAWARE II CRUISE
MAY 1977

LAT 39 26.0
SONIC DEPTH 35

LONG 073 04.4 DATE 77/05/22
ONE PERCENT LIGHT DEPTH

TIME 0400

STA	CASE	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
136	1	0.0	NANNOPLANKTON	10400	643 4 47
136	1	0.0	GYMNODINIUM SP.	4500	643 4 20
136	1	0.0	TINTINNIDA	1900	643 4 9
136	1	0.0	SILIATE	1800	643 4 8
136	1	0.0	EXUVIELLA SP.	1200	643 4 5
136	1	0.0	PERIDINIUM SP.	800	643 4 4
136	1	0.0	THALASSIOSIRA SP.	600	643 4 3
136	1	0.0	SILICA FLAGELLATE	300	643 4 1
136	1	0.0	CERATIUM TRIPOS	300	643 4 1
136	1	0.0	CERATIUM FURCA	200	643 4 1
136	1	0.0	CERATIUM FUSUS	100	643 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 3
PERCENT DINOFLAGELLATE/TOTAL 32
PERCENT OTHER/TOTAL 65

STA	CASE	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
136	1	25.0	NANNOPLANKTON	37300	644 4 62
136	1	25.0	GYMNODINIUM SIMPLEX	10700	644 4 18
136	1	25.0	GYMNODINIUM SP.	6600	644 4 11
136	1	25.0	TINTINNIDA	3200	644 4 5
136	1	25.0	SILIATE	1300	644 4 2
136	1	25.0	THALASSIOSIRA SP.	600	644 4 1
136	1	25.0	EXUVIELLA SP.	300	644 4 0
136	1	25.0	CERATIUM TRIPOS	100	644 4 0
136	1	25.0	CERATIUM FUSUS	100	644 4 0
136	1	25.0	COSCIINODISCUS SP.	100	644 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 1
PERCENT DINOFLAGELLATE/TOTAL 30
PERCENT OTHER/TOTAL 69

LAT 39 34.0
SONIC DEPTH 27

LONG 073 43.0 DATE 77/05/22
ONE PERCENT LIGHT DEPTH

TIME 0648

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
138	1	0.0	NANNOPLANKTON	18300 645 4	34
138	1	0.0	TINTINNIDA	12500 645 4	23
138	1	0.0	GYMNODINIUM SP.	8000 645 4	15
138	1	0.0	THALASSIOSIRA SP.	5400 645 4	10
138	1	0.0	GYMNODINIUM SIMPLEX	4000 645 4	7
138	1	0.0	SILIATE	2200 645 4	4
138	1	0.0	EXUVIELLA SP.	1700 645 4	3
138	1	0.0	DETONULA CONFERVACEA	900 645 4	2
138	1	0.0	PERIDINIUM SP.	700 645 4	1
138	1	0.0	GUINARDIA FLACCIDA	300 645 4	1
138	1	0.0	CERATIUM TRIPOS	200 645 4	1
138	1	0.0	NAVICULA SP.	100 645 4	1
138	1	0.0	CERATIUM FURCA	100 645 4	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 12
PERCENT DINOFLAGELLATE/TOTAL 27
PERCENT OTHER/TOTAL 61

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
138	1	27.0	NANNOPLANKTON	19000 646 4	61
138	1	27.0	GYMNODINIUM SP.	5200 646 4	17
138	1	27.0	GYMNODINIUM SIMPLEX	2200 646 4	7
138	1	27.0	TINTINNIDA	1900 646 4	6
138	1	27.0	THALASSIOSIRA SP.	800 646 4	3
138	1	27.0	MELOSIRA MONILIFORMIS	500 646 4	2
138	1	27.0	SILIATE	500 646 4	2
138	1	27.0	THALASSIOSIRA SP.	200 646 4	1
138	1	27.0	EXUVIELLA SP.	200 646 4	1
138	1	27.0	PLEUROSIGMA AESTUARII	200 646 4	1
138	1	27.0	SILICA FLAGELLATE	200 646 4	1
138	1	27.0	GUINARDIA FLACCIDA	200 646 4	1

TOTAL CELLS
PERCENT DIATOM/TOTAL 6
PERCENT DINOFLAGELLATE/TOTAL 24
PERCENT OTHER/TOTAL 69

LAT 39 36.0
SONIC DEPTH 28

LONG 074 07.0 DATE 77/05/22
ONE PERCENT LIGHT DEPTH

TIME 1018

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
141	1	0.0	NANNOPLANKTON	12000 649 4	30
141	1	0.0	GYMNODINIUM SP.	11300 649 4	28
141	1	0.0	GYMNODINIUM MINUTUM	2700 649 4	7
141	1	0.0	TINTINNIDA	2500 649 4	6
141	1	0.0	SILIATE	2500 649 4	6
141	1	0.0	GYMNODINIUM SIMPLEX	2400 649 4	6
141	1	0.0	THALASSIOSIRA SP.	1400 649 4	3
141	1	0.0	CERATIUM FURCA	1300 649 4	3
141	1	0.0	PERIDINIUM SP.	900 649 4	2
141	1	0.0	EXUVIELLA SP.	600 649 4	1
141	1	0.0	CERATIUM FUSUS	600 649 4	1
141	1	0.0	NAVICULA SP.	600 649 4	1
141	1	0.0	GUINARDIA FLACCIDA	500 649 4	1
141	1	0.0	DINOPHYSIS OVUM	500 649 4	1
141	1	0.0	CERATIUM TRIPOS	300 649 4	1
141	1	0.0	DINOPHYSIS ACUTA	200 649 4	0
141	1	0.0	RHIZOSOLENIA SETIGERA	100 649 4	0
141	1	0.0	PHALACROMA IRREGULARE	100 649 4	0
141	1	0.0	COSCIINODISCUS SP.	100 649 4	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 7
PERCENT DINOFLAGELLATE/TOTAL 51
PERCENT OTHER/TOTAL 42

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
141	1	16.0	GYMNODINIUM SP.	8300 650 4	39
141	1	16.0	NANNOPLANKTON	6300 650 4	30
141	1	16.0	GYMNODINIUM SIMPLEX	1300 650 4	6
141	1	16.0	SILIATE	1200 650 4	6
141	1	16.0	THALASSIOSIRA SP.	1200 650 4	6
141	1	16.0	MELOSIRA MONILIFORMIS	1100 650 4	5
141	1	16.0	GYMNODINIUM MINUTUM	700 650 4	3
141	1	16.0	ASTERIONELLA JAPONICA	300 650 4	1
141	1	16.0	GUINARDIA FLACCIDA	200 650 4	1
141	1	16.0	TINTINNIDA	200 650 4	1
141	1	16.0	EXUVIELLA SP.	100 650 4	0
141	1	16.0	NAVICULA SP.	100 650 4	0
141	1	16.0	PERIDINIUM SP.	100 650 4	0
141	1	16.0	NAVICULA TUSCULA	100 650 4	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 14
PERCENT DINOFLAGELLATE/TOTAL 50
PERCENT OTHER/TOTAL 36

LAT 39 47.0
SONIC DEPTH 132

LONG 072 02.0 DATE 77/05/24
ONE PERCENT LIGHT DEPTH

TIME 2258

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
157	1	0.0 NANNOPLANKTON	16500 670 4	78
157	1	0.0 GYMNOIDINIUM SIMPLEX	1000 670 4	5
157	1	0.0 CHAETOCEROS GRACILE	900 670 4	4
157	1	0.0 THALASSIOSIRA SP.	900 670 4	4
157	1	0.0 GYMNOIDINIUM SP.	600 670 4	3
157	1	0.0 TINTINNIDA	400 670 4	2
157	1	0.0 SILIATE	300 670 4	1
157	1	0.0 GUINARDIA FLACCIDA	300 670 4	1
157	1	0.0 COSCINODISCUS SP.	100 670 4	0
157	1	0.0 GYMNOIDINIUM MINUTUM	100 670 4	0
157	1	0.0 NAVICULA SP.	100 670 4	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 11
PERCENT DINOFLAGELLATE/TOTAL 8
PERCENT OTHER/TOTAL 81

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
157	1	25.0 NANNOPLANKTON	2200 671 4	34
157	1	25.0 GYMNOIDINIUM SP.	1700 671 4	27
157	1	25.0 GYMNOIDINIUM SIMPLEX	1200 671 4	19
157	1	25.0 THALASSIOSIRA SP.	300 671 4	5
157	1	25.0 GUINARDIA FLACCIDA	300 671 4	5
157	1	25.0 GYMNOIDINIUM MINUTUM	200 671 4	3
157	1	25.0 EXUVIELLA SP	200 671 4	3
157	1	25.0 SILIATE	200 671 4	3
157	1	25.0 TINTINNIDA	100 671 4	2

TOTAL CELLS
PERCENT DIATOM/TOTAL 9
PERCENT DINOFLAGELLATE/TOTAL 52
PERCENT OTHER/TOTAL 39

LAT 39 52.0
SONIC DEPTH 200

LONG 071 46.0 DATE 77/05/24
ONE PERCENT LIGHT DEPTH

TIME 0128

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
158A	1	25.0	TINTINNIDA	3700 672 4	52
158A	1	25.0	GYMNODINUM SP.	1600 672 4	23
158A	1	25.0	NANNOPLANKTON	700 672 4	10
158A	1	25.0	MELOSIRA MONILIFORMIS	400 672 4	6
158A	1	25.0	PERIDINIUM SP.	300 672 4	4
158A	1	25.0	SILIATE	200 672 4	3
158A	1	25.0	MELOSIRA WESTII	100 672 4	1
158A	1	25.0	CHAETOCEROS SP.	100 672 4	1

TOTAL CELLS	
PERCENT DIATOM/TOTAL	8
PERCENT DINOFLAGELLATE/TOTAL	27
PERCENT OTHER/TOTAL	65

LAT 40 08.0
SONIC DEPTH 77

LONG 071 56.0 DATE 77/05/24
ONE PERCENT LIGHT DEPTH

TIME 0327

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

158	1	0.0	TINTINNIDA
158	1	0.0	CHAETOCEROS ATLANTICUS
158	1	0.0	SILIAE

5100	673	4
300	673	4
200	673	4

91
5
4

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

5
0
95

LAT 40 46.0
SONIC DEPTH 15

LONG 072 40.0 DATE 77/05/24
ONE PERCENT LIGHT DEPTH

TIME 1428

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
163	1	0.0	RHIZOSOLENIA DELICATULA	36400 683 4	51
163	1	0.0	TINTINNIDA	14100 683 4	20
163	1	0.0	NANNOPLANKTON	9200 683 4	13
163	1	0.0	MESODINIUM RUBRUM	3400 683 4	5
163	1	0.0	GYMNODINIUM PYGMAEUM	2200 683 4	3
163	1	0.0	GYMNODINIUM MINUTUM	2100 683 4	3
163	1	0.0	EXUVIELLA SP.	1000 683 4	1
163	1	0.0	GYMNODINIUM FILUM	500 683 4	1
163	1	0.0	NAVICULA SP.	500 683 4	1
163	1	0.0	THALASSIOSIRA SP.	300 683 4	0
163	1	0.0	SILICA FLAGELLATE	200 683 4	0
163	1	0.0	GYMNODINIUM SIMPLEX	200 683 4	0
163	1	0.0	DINOPHYSIS PUNCTATA	200 683 4	0
163	1	0.0	PERIDINIUM SP.	200 683 4	0
163	1	0.0	GYMNODINIUM SP.	190 683 4	0
163	1	0.0	CHAETOCEROS SP.	100 683 4	0
163	1	0.0	RHIZOSOLENIA HEBETATA	100 683 4	0
163	1	0.0	DINOPHYSIS ACUTA	100 683 4	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 53
PERCENT DINOFLAGELLATE/TOTAL 9
PERCENT OTHER/TOTAL 38

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
163	1	15.0	RHIZOSOLENIA DELICATULA	100500 684 4	61
163	1	15.0	NANNOPLANKTON	47600 684 4	29
163	1	15.0	MELOSIRA MONILIFORMIS	3500 684 4	2
163	1	15.0	MESODINIUM RUBRUM	3300 684 4	2
163	1	15.0	TINTINNIDA	2600 684 4	2
163	1	15.0	EXUVIELLA SP.	2200 684 4	1
163	1	15.0	THALASSIOSIRA SP.	1500 684 4	1
163	1	15.0	NAVICULA SP.	1000 684 4	1
163	1	15.0	MELOSIRA NUMMULOIDES	900 684 4	1
163	1	15.0	COSCIINODISCUS SP.	700 684 4	0
163	1	15.0	NITZSCHIA PUNGENS V. ATLANTICA	400 684 4	0
163	1	15.0	GYMNODINIUM PYGMAEUM	300 684 4	0
163	1	15.0	SILICA FLAGELLATE	200 684 4	0
163	1	15.0	GYMNODINIUM MINUTUM	100 684 4	0
163	1	15.0	CHAETOCEROS SP.	100 684 4	0
163	1	15.0	PERIDINIUM SP.	100 684 4	0
163	1	15.0	NITZSCHIA SP.	100 684 4	0
163	1	15.0	DINOPHYSIS PUNCTATA	100 684 4	0
163	1	15.0	GYMNODINIUM SP.	100 684 4	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 66
PERCENT DINOFLAGELLATE/TOTAL 2
PERCENT OTHER/TOTAL 32

LAT 40 48.8
SONIC DEPTH 24

LONG 072 23.6 DATE 77/05/24
ONE PERCENT LIGHT DEPTH

TIME 1700

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
165A	1	0.0	RHIZOSOLENIA DELICATULA	154700	687 4 98
165A	1	0.0	PERIDINIUM SP.	1300	687 4 1
165A	1	0.0	EXUVIELLA SP.	600	687 4 0
165A	1	0.0	GYMNODINIUM SP.	500	687 4 0
165A	1	0.0	TINTINNIDA	400	687 4 0
165A	1	0.0	NITZSCHIA PUNGENS V. ATLANTICA	200	687 4 0
165A	1	0.0	SILIATE	200	687 4 0
165A	1	0.0	DINOPHYSIS ACUTA	100	687 4 0
165A	1	0.0	THALASSIOSIRA SP.	100	687 4 0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	98
PERCENT DINOFLAGELLATE/TOTAL	2
PERCENT OTHER/TOTAL	0

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
165A	1	24.0	RHIZOSOLENIA DELICATULA	2400	688 4 40
165A	1	24.0	HELOSIRA HOMILIFORMIS	1300	688 4 22
165A	1	24.0	TINTINNIDA	500	688 4 8
165A	1	24.0	SILIATE	500	688 4 8
165A	1	24.0	PERIDINIUM SP.	400	688 4 7
165A	1	24.0	GYMNODINIUM SP.	400	688 4 7
165A	1	24.0	THALASSIOSIRA GRAVIDA	300	688 4 5
165A	1	24.0	PLEUROSIGMA AESTUARII	100	688 4 2
165A	1	24.0	EXUVIELLA SP.	100	688 4 2

TOTAL CELLS	
PERCENT DIATOM/TOTAL	68
PERCENT DINOFLAGELLATE/TOTAL	15
PERCENT OTHER/TOTAL	17

LAT 40 45.2
SONIC DEPTH 37

LONG 072 21.3 DATE 77/05/24
ONE PERCENT LIGHT DEPTH

TIME 1800

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
165	1	0.0	RHIZOSOLENIA DELICATULA	82100	689 4 91
165	1	0.0	TINTINNIDA	4500	689 4 5
165	1	0.0	GYMNODINIUM SP.	1400	689 4 2
165	1	0.0	PERIDINIUM SP.	1100	689 4 1
165	1	0.0	EXUVIELLA SP.	500	689 4 1
165	1	0.0	CHAETOCEROS GRACILE	500	689 4 1
165	1	0.0	THALASSIOSIRA GRAVIDA	200	689 4 0
165	1	0.0	SILIATE	100	689 4 0
165	1	0.0	DINOPHYSIS ACUTA	100	689 4 0
165	1	0.0	CERATIUM TRIPOS	100	689 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 91
PERCENT DINOFLAGELLATE/TOTAL 4
PERCENT OTHER/TOTAL 5

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
165	1	25.0	RHIZOSOLENIA DELICATULA	20400	690 4 66
165	1	25.0	EXUVIELLA SP.	8600	690 4 28
165	1	25.0	GYMNODINIUM SP.	1000	690 4 3
165	1	25.0	TINTINNIDA	500	690 4 2
165	1	25.0	CERATIUM TRIPOS	200	690 4 1
165	1	25.0	DINOPHYSIS OVUM	100	690 4 0
165	1	25.0	PHAEOCYSTIS SP.	100	690 4 0
165	1	25.0	THALASSIOSIRA GRAVIDA	100	690 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 66
PERCENT DINOFLAGELLATE/TOTAL 32
PERCENT OTHER/TOTAL 2

LAT 40 30.0
SONIC DEPTH 45

LONG 072 14.0 DATE 77/05/24
ONE PERCENT LIGHT DEPTH

TIME 1930

STA	CAST DEPTH(M)	SPECIES
1658	1	0.0 RHIZOSOLENIA DELICATULA
1658	1	0.0 PERIDINIUM SP.
1658	1	0.0 CHAETOCEROS GRACILE
1658	1	0.0 GYMNODINIUM SP.
1658	1	0.0 TINTINNIDA
1658	1	0.0 NITZSCHIA PUNGENS V. ATLANTICA
1658	1	0.0 THALASSIOSIRA SP.
1658	1	0.0 EXUVIELLA SP

(NO./L)	PERCENTAGES
128700 691 4	98
1100 691 4	1
600 691 4	0
400 691 4	0
400 691 4	0
400 691 4	0
100 691 4	0
100 691 4	0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	98
PERCENT DINOFLAGELLATE/TOTAL	1
PERCENT OTHER/TOTAL	0

STA	CAST DEPTH(M)	SPECIES
1658	1	30.0 RHIZOSOLENIA DELICATULA
1658	1	30.0 GYMNODINIUM SP.
1658	1	30.0 TINTINNIDA
1658	1	30.0 PERIDINIUM SP.
1658	1	30.0 THALASSIOSIRA GRAVIDA

(NO./L)	PERCENTAGES
1800 692 4	82
100 692 4	5
100 692 4	5
100 692 4	5
100 692 4	5

TOTAL CELLS	
PERCENT DIATOM/TOTAL	86
PERCENT DINOFLAGELLATE/TOTAL	9
PERCENT OTHER/TOTAL	5

LAT 40 20.0
SONIC DEPTH 60

LONG 072 06.0 DATE 77/05/24
ONE PERCENT LIGHT DEPTH

TIME 2100

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
165C	1	0.0 RHIZOSOLENIA DELICATULA	170400 693 4	72
165C	1	0.0 NANNOPLANKTON	59200 693 4	25
165C	1	0.0 GYMNOIDINIUM SP.	3600 693 4	2
165C	1	0.0 EXUVIELLA SP.	1900 693 4	1
165C	1	0.0 PERIDINIUM SP.	1000 693 4	0
165C	1	0.0 CHAETOCEROS GRACILE	300 693 4	0
165C	1	0.0 TINTINNIDA	100 693 4	0
165C	1	0.0 NITZSCHIA PUNGENS V. ATLANTICA	100 693 4	0
165C	1	0.0 SILIATE	100 693 4	0
165C	1	0.0 SILICA FLAGELLATE	100 693 4	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 72
PERCENT DINOFLAGELLATE/TOTAL 3
PERCENT OTHER/TOTAL 25

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
165C	1	30.0 NANNOPLANKTON	4100 694 4	71
165C	1	30.0 THALASSIOSIRA SP.	700 694 4	12
165C	1	30.0 GYMNOIDINIUM SP.	600 694 4	10
165C	1	30.0 GUINARDIA FLACCIDA	200 694 4	3
165C	1	30.0 COSCINODISCUS CENTRALIS	100 694 4	2
165C	1	30.0 SILIATE	100 694 4	2

TOTAL CELLS
PERCENT DIATOM/TOTAL 17
PERCENT DINOFLAGELLATE/TOTAL 10
PERCENT OTHER/TOTAL 72

LAT 40 13.0
SONIC DEPTH 65

LONG 071 59.0 DATE 77/05/25
ONE PERCENT LIGHT DEPTH

TIME 2228

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
1650	1	0.0	NANNOPLANKTON	38600	695 4 85
1650	1	0.0	RHIZOLENIA DELICATULA	2600	695 4 6
1650	1	0.0	GYMNODINIUM SP.	1500	695 4 3
1650	1	0.0	SILIATE	1000	695 4 2
1650	1	0.0	TINTINNIDA	900	695 4 2
1650	1	0.0	EXUVIELLA SP.	300	695 4 1
1650	1	0.0	THALASSIOSIRA SP.	200	695 4 0
1650	1	0.0	SILICA FLAGELLATE	200	695 4 0
1650	1	0.0	DINOPHYSIS ACUTA	100	695 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 6
PERCENT DINOFLAGELLATE/TOTAL 4
PERCENT OTHER/TOTAL 90

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
1650	1	25.0	NANNOPLANKTON	8500	696 4 91
1650	1	25.0	SILIATE	300	696 4 3
1650	1	25.0	EXUVIELLA SP.	200	696 4 2
1650	1	25.0	THALASSIOSIRA SP.	200	696 4 2
1650	1	25.0	GUINARDIA FLACCIDA	100	696 4 1

TOTAL CELLS
PERCENT DIATOM/TOTAL 3
PERCENT DINOFLAGELLATE/TOTAL 2
PERCENT OTHER/TOTAL 95

LAT 40 55.0
SONIC DEPTH 15

LONG 072 14.0 DATE 77/05/25
ONE PERCENT LIGHT DEPTH

TIME 0312

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
167	1	0.0 RHIZOSOLENIA DELICATULA	131300	699 4 92
167	1	0.0 MESODINIUM RUBRUM	7700	699 4 4
167	1	0.0 GYMNODINIUM SP.	1400	699 4 1
167	1	0.0 NITZSCHIA PUNGENS V. ATLANTICA	1200	699 4 1
167	1	0.0 GYMNODINIUM PYGMAEUM	1200	699 4 1
167	1	0.0 TINTINNIDA	1100	699 4 1
167	1	0.0 NANNOPLANKTON	870	699 4 0
167	1	0.0 THALASSIOSIRA SP.	700	699 4 0
167	1	0.0 LEPTOCYLINDRUS MINIMUS	600	699 4 0
167	1	0.0 EXUVIELLA SP.	500	699 4 0
167	1	0.0 THALASSIONEMA NITZSCHIOIDES	300	699 4 0
167	1	0.0 NAVICULA SP.	300	699 4 0
167	1	0.0 MELOSIRA NUMMULOIDES	200	699 4 0
167	1	0.0 CERATIUM FUSUS	100	699 4 0
167	1	0.0 THALASSIOSIRA GRAVIDA	100	699 4 0
167	1	0.0 CHAETOCEROS SP.	100	699 4 0
167	1	0.0 CERATIUM TRIPOS	100	699 4 0
167	1	0.0 PERIDINIUM SP.	100	699 4 0
167	1	0.0 SILICA FLAGELLATE	100	699 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 94
PERCENT DINOFLAGELLATE/TOTAL 2
PERCENT OTHER/TOTAL 5

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
167	1	15.0 RHIZOSOLENIA DELICATULA	432700	700 4 85
167	1	15.0 NANNOPLANKTON	32500	700 4 6
167	1	15.0 TINTINNIDA	15700	700 4 3
167	1	15.0 DACTYLIOSOLEN MEDITERRANEUS	7500	700 4 1
167	1	15.0 MESODINIUM RUBRUM	7000	700 4 1
167	1	15.0 GYMNODINIUM PYGMAEUM	4100	700 4 1
167	1	15.0 GYMNODINIUM SP.	2300	700 4 0
167	1	15.0 MELOSIRA NUMMULOIDES	1400	700 4 0
167	1	15.0 THALASSIOSIRA SP.	1200	700 4 0
167	1	15.0 NAVICULA SP.	1200	700 4 0
167	1	15.0 EXUVIELLA SP.	700	700 4 0
167	1	15.0 CHAETOCEROS GRACILE	500	700 4 0
167	1	15.0 COSCINODISCUS SP.	300	700 4 0
167	1	15.0 PLEUROSIGMA AESTUARII	200	700 4 0
167	1	15.0 GRAMMATOPHORA SP.	200	700 4 0
167	1	15.0 NITZSCHIA CLOSTERIUM	100	700 4 0
167	1	15.0 PERIDINIUM SP.	100	700 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 88
PERCENT DINOFLAGELLATE/TOTAL 1
PERCENT OTHER/TOTAL 11

LAT 40 14.0
SONIC DEPTH 91

LONG 071 81.2 DATE 77/05/25
ONE PERCENT LIGHT DEPTH

TIME 1219

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
171	1	0.0 NANNOPLANKTON	151200	705 4 76
171	1	0.0 GYMNODINIUM SP.	18400	705 4 9
171	1	0.0 GYMNODINIUM SIMPLEX	13100	705 4 7
171	1	0.0 GYMNODINIUM MINUTUM	7500	705 4 4
171	1	0.0 SILIATE	6500	705 4 3
171	1	0.0 THALASSIOSIRA SP.	600	705 4 0
171	1	0.0 PERIDINIUM SP.	200	705 4 0
171	1	0.0 EXUVIELLA SP.	200	705 4 0
171	1	0.0 TINTINNIDA	200	705 4 0
171	1	0.0 GUINARDIA FLACCIDA	100	705 4 0
171	1	0.0 NITZSCHIA CLOSTERIUM	100	705 4 0
171	1	0.0 NAVICULA SP.	100	705 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 0
PERCENT DINOFLAGELLATE/TOTAL 20
PERCENT OTHER/TOTAL 80

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
171	1	25.0 NANNOPLANKTON	173200	706 4 85
171	1	25.0 GYMNODINIUM SIMPLEX	15000	706 4 7
171	1	25.0 GYMNODINIUM SP.	10500	706 4 5
171	1	25.0 SILIATE	1900	706 4 1
171	1	25.0 THALASSIOSIRA SP.	700	706 4 0
171	1	25.0 EXUVIELLA SP.	400	706 4 0
171	1	25.0 GYMNODINIUM MINUTUM	400	706 4 0
171	1	25.0 MELOSIRA SP.	300	706 4 0
171	1	25.0 TINTINNIDA	200	706 4 0
171	1	25.0 GUINARDIA FLACCIDA	100	706 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 1
PERCENT DINOFLAGELLATE/TOTAL 13
PERCENT OTHER/TOTAL 86

LAT 39 52.3
SONIC DEPTH 200

LONG 071 45.6 DATE 77/05/26
ONE PERCENT LIGHT DEPTH

TIME 1708

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
180	1	0.0	TINTINNIDA	5900	712 4 74
180	1	0.0	SILIATE	1200	712 4 15
180	1	0.0	GYMNODINIUM SP.	800	712 4 10
180	1	0.0	THALASSIOSIRA GRAVIDA	100	712 4 1

TOTAL CELLS
PERCENT DIATOM/TOTAL 1
PERCENT DINOFLAGELLATE/TOTAL 10
PERCENT OTHER/TOTAL 89

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
180	1	25.0	TINTINNIDA	1800	713 4 51
180	1	25.0	GYMNODINIUM SP.	700	713 4 20
180	1	25.0	SILIATE	500	713 4 14
180	1	25.0	MELOSIRA NUMMULOIDES	400	713 4 11
180	1	25.0	CERATIUM TRIPOS	100	713 4 3

TOTAL CELLS
PERCENT DIATOM/TOTAL 11
PERCENT DINOFLAGELLATE/TOTAL 23
PERCENT OTHER/TOTAL 66

LAT 40 13.0
SONIC DEPTH 66

LONG 071 59.0 DATE 77/05/26
ONE PERCENT LIGHT DEPTH

TIME 1940

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
182	1	0.0	RHIZOSOLENIA DELICATULA	5400	714 4 81	
182	1	0.0	TINTINNIDA	400	714 4 6	
182	1	0.0	PERIDINIUM SP.	300	714 4 4	
182	1	0.0	EXUVIELLA SP.	200	714 4 3	
182	1	0.0	THALASSIONEMA NITZSCHIOIDES	200	714 4 3	
182	1	0.0	GYMNOINIUM SP.	100	714 4 1	
182	1	0.0	CERATIUM TRIPOS	100	714 4 1	
					TOTAL CELLS	
					PERCENT DIATOM/TOTAL	94
					PERCENT DINOFLAGELLATE/TOTAL	10
					PERCENT OTHER/TOTAL	6

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
182	1	25.0	NANNOPLANKTON	271400	715 4 99	
182	1	25.0	SILIATE	800	715 4 0	
182	1	25.0	MELOSIRA SP.	700	715 4 0	
182	1	25.0	TINTINNIDA	400	715 4 0	
182	1	25.0	CERATIUM TRIPOS	200	715 4 0	
					TOTAL CELLS	
					PERCENT DIATOM/TOTAL	0
					PERCENT DINOFLAGELLATE/TOTAL	0
					PERCENT OTHER/TOTAL	100

LAT 40 25.0
SONIC DEPTH 60

LONG 072 08.0 DATE 77/05/27
ONE PERCENT LIGHT DEPTH

TIME 2107

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
183	1	0.0	RHIZOSOLENIA DELICATULA	34300	716 4 71
183	1	0.0	NANNOPLANKTON	11600	716 4 24
183	1	0.0	GYMNODINIUM SP.	600	716 4 1
183	1	0.0	TINTINNIOA	500	716 4 1
183	1	0.0	PERIDINIUM SP.	400	716 4 1
183	1	0.0	SILIATE	300	716 4 1
183	1	0.0	THALASSIOSIRA GRAVIDA	300	716 4 1

TOTAL CELLS
PERCENT DIATOM/TOTAL 72
PERCENT DINOFAGELLATE/TOTAL 2
PERCENT OTHER/TOTAL 26

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
183	1	25.0	NANNOPLANKTON	254100	717 4 100
183	1	25.0	CERATIUM TRIPOS	100	717 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 0
PERCENT DINOFAGELLATE/TOTAL 0
PERCENT OTHER/TOTAL 100

LAT 40 35.7
SONIC DEPTH 48

LONG 072 14.9 DATE 77/05/27
ONE PERCENT LIGHT DEPTH

TIME 2227

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
184	1	0.0	RHIZOSOLENIA DELICATULA	131100	718 4	68
184	1	0.0	NANNOPLANKTON	56000	718 4	29
184	1	0.0	GYMNODINIUM SP.	2200	718 4	1
184	1	0.0	PERIDINIUM SP.	1300	718 4	1
184	1	0.0	EXUVIELLA SP.	600	718 4	0
184	1	0.0	THALASSIOSIRA SP.	400	718 4	0
184	1	0.0	MELOSIRA SP.	300	718 4	0
184	1	0.0	CHAETOCEROS GRACILE	300	718 4	0
184	1	0.0	TINTINNIDA	300	718 4	0
184	1	0.0	SILIATE	200	718 4	0
184	1	0.0	RHIZOSOLENIA SETIGERA	100	718 4	0
TOTAL CELLS						69
PERCENT DIATOM/TOTAL						2
PERCENT DINOFLAGELLATE/TOTAL						29
PERCENT OTHER/TOTAL						

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
184	1	25.0	RHIZOSOLENIA DELICATULA	254300	719 4	80
184	1	25.0	NANNOPLANKTON	55000	719 4	17
184	1	25.0	GYMNODINIUM SP.	2900	719 4	1
184	1	25.0	TINTINNIDA	1400	719 4	0
184	1	25.0	CHAETOCEROS SP.	700	719 4	0
184	1	25.0	PERIDINIUM SP.	500	719 4	0
184	1	25.0	THALASSIONEMA NITZSCHIOIDES	400	719 4	0
184	1	25.0	SILIATE	200	719 4	0
184	1	25.0	EXUVIELLA SP.	200	719 4	0
184	1	25.0	THALASSIOSIRA SP.	200	719 4	0
184	1	25.0	MELOSIRA SP.	100	719 4	0
184	1	25.0	NITZSCHIA CLOSTERIUM	100	719 4	0
TOTAL CELLS						81
PERCENT DIATOM/TOTAL						1
PERCENT DINOFLAGELLATE/TOTAL						18
PERCENT OTHER/TOTAL						

LAT 40 45.2
SONIC DEPTH 36

LONG 072 21.3 DATE 77/05/27
ONE PERCENT LIGHT DEPTH

TIME 0300

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
185	1	0.0	RHIZOSOLENIA DELICATULA	15800	720 4 79
185	1	0.0	NANNOPLANKTON	1300	720 4 6
185	1	0.0	GYMNODINIUM SP.	800	720 4 4
185	1	0.0	PERIDINIUM SP.	800	720 4 4
185	1	0.0	SILICATE	400	720 4 2
185	1	0.0	THALASSIOSIRA SP.	300	720 4 1
185	1	0.0	COSCIINODISCUS SP.	200	720 4 1
185	1	0.0	TINTINNIDA	200	720 4 1
185	1	0.0	THALASSIOSIRA HYALINA	100	720 4 0
185	1	0.0	DINOPHYSIS PUNCTATA	100	720 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 82
PERCENT DINOFLAGELLATE/TOTAL 8
PERCENT OTHER/TOTAL 9

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
105	1	25.0	RHIZOSOLENIA DELICATULA	318200	721 4 94
185	1	25.0	NANNOPLANKTON	8900	721 4 3
185	1	25.0	EXUVIELLA SP.	8100	721 4 2
185	1	25.0	GYMNODINIUM SP.	900	721 4 0
185	1	25.0	CHAETOCEROS SP.	800	721 4 0
185	1	25.0	SILICA FLAGELLATE	300	721 4 0
185	1	25.0	PERIDINIUM SP.	200	721 4 0
185	1	25.0	COSCIINODISCUS SP.	100	721 4 0
185	1	25.0	DINOPHYSIS ACUTA	100	721 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 95
PERCENT DINOFLAGELLATE/TOTAL 3
PERCENT OTHER/TOTAL 3

R/V ONRUST CRUISE
JUNE 1977

LAT 40 46.0
SONIC DEPTH 32

LONG 072 26.2 DATE 77/06/29
ONE PERCENT LIGHT DEPTH 18.2

TIME 0940

STA	C	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
1	1	14.0	NITZSCHIA PUNGENS V. ATLANTICA	5200	14
1	1	14.0	RHIZOSOLENIA DELICATULA	5100	14
1	1	14.0	NANNOPLANKTON	4900	13
1	1	14.0	GYMNODINIUM SP.	3800	10
1	1	14.0	THALASSIONEMA NITZSCHIOIDES	3400	9
1	1	14.0	THALASSIOSIRA SP.	3000	8
1	1	14.0	THALASSIOSIRA GRAVIDA	1800	5
1	1	14.0	CERATAULINA PELAGICA	1500	4
1	1	14.0	CERATIUM TRIPOS	1300	4
1	1	14.0	CHAETOCEROS SP.	1000	3
1	1	14.0	SILIATE	1000	3
1	1	14.0	SILICA FLAGELLATE	700	2
1	1	14.0	TINTINNIDA	600	2
1	1	14.0	GYMNODINIUM MINUTUM	600	2
1	1	14.0	SCENEDESMUS SP.	500	1
1	1	14.0	EXUVIELLA SP.	400	1
1	1	14.0	PERIDINIUM SP.	400	1
1	1	14.0	MELOSIRA SP.	300	1
1	1	14.0	DINOPHYSIS ACUTA	200	1
1	1	14.0	NAVICULA SP.	200	1
1	1	14.0	CERATIUM TRIPOS LONG • SHORT	100	0
1	1	14.0	PROROCENTRUM SP.	100	0
1	1	14.0	CHAETOCEROS GRACILE	100	0
1	1	14.0	COCHLODINIUM SP.	100	0
1	1	14.0	PLEUROSIGMA AESTUARII	100	0
1	1	14.0	SCHRODERELLA SP.	100	0
1	1	14.0	NITZSCHIA CLOSTERIUM	100	0
1	1	14.0	GUINARDIA FLACCIDA	100	0
1	1	14.0	COSCIINODISCUS SP.	100	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 60
PERCENT DINOFLAGELLATE/TOTAL 19
PERCENT OTHER/TOTAL 21

STA	C	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
1	1	15.0	RHIZOSOLENIA DELICATULA	32200	38
1	1	15.0	NANNOPLANKTON	10500	12
1	1	15.0	NITZSCHIA PUNGENS V. ATLANTICA	6700	8
1	1	15.0	LEPTOCYLINDRUS DANICUS	5300	6
1	1	15.0	GYMNODINIUM SP.	4700	6
1	1	15.0	CHAETOCEROS SP.	4700	6
1	1	15.0	GYMNODINIUM MINUTUM	3200	4
1	1	15.0	THALASSIOSIRA GRAVIDA	3200	4
1	1	15.0	GYMNODINIUM SIMPLEX	1900	2
1	1	15.0	CHAETOCEROS GRACILE	1700	2
1	1	15.0	THALASSIOSIRA SP.	1700	2
1	1	15.0	SKELETONEMA COSTATUM	1500	2
1	1	15.0	SILIATE	1400	2
1	1	15.0	TINTINNIDA	1300	2
1	1	15.0	CERATIUM TRIPOS	1200	1
1	1	15.0	THALASSIONEMA NITZSCHIOIDES	1000	1
1	1	15.0	SILICA FLAGELLATE	900	1
1	1	15.0	RHIZOSOLENIA SETIGERA	500	1
1	1	15.0	LEPTOCYLINDRUS MINIMUS	400	0
1	1	15.0	PROROCENTRUM SP.	200	0
1	1	15.0	NITZSCHIA CLOSTERIUM	200	0
1	1	15.0	PERIDINIUM SP.	200	0
1	1	15.0	PLEUROSIGMA AESTUARII	100	0
1	1	15.0	DINOPHYSIS ACUTA	100	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 70
PERCENT DINOFLAGELLATE/TOTAL 14
PERCENT OTHER/TOTAL 17

LAT 40 46.0
SONIC DEPTH 32

LONG 072 26.2 DATE 77/06/29
ONE PERCENT LIGHT DEPTH

TIME 1000

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
1	2	0.0	RHIZOSOLENIA DELICATULA	13800	9 4 25
1	2	0.0	NANNOPLANKTON	9700	9 4 17
1	2	0.0	GYMNODINIUM SP.	9400	9 4 17
1	2	0.0	LEPTOCYLINDRUS DANICUS	3900	9 4 7
1	2	0.0	TINTINNIDA	3100	9 4 6
1	2	0.0	THALASSIOSIRA SP.	2900	9 4 5
1	2	0.0	CHAETOCEROS SP.	2300	9 4 4
1	2	0.0	LEPTOCYLINDRUS MINIMUS	2300	9 4 4
1	2	0.0	SILIATE	2200	9 4 4
1	2	0.0	PROROCENTRUM MICANS	1700	9 4 3
1	2	0.0	PERIDINIUM SP.	1500	9 4 3
1	2	0.0	GYMNODINIUM MINUTUM	1100	9 4 2
1	2	0.0	NITZSCHIA PUNGENS V. ATLANTICA	600	9 4 1
1	2	0.0	CHAETOCEROS GRACILE	600	9 4 1
1	2	0.0	EXUVIELLA SP.	400	9 4 1
1	2	0.0	DINOPHYSIS ACUTA	300	9 4 1
1	2	0.0	NAVICULA SP.	100	9 4 0
1	2	0.0	THALASSIONEMA NITZSCHIOIDES	100	9 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 47
PERCENT DINOFLAGELLATE/TOTAL 26
PERCENT OTHER/TOTAL 27

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
1	2	15.0	RHIZOSOLENIA DELICATULA	18100	10 4 32
1	2	15.0	CHAETOCEROS SP.	6100	10 4 11
1	2	15.0	NANNOPLANKTON	4400	10 4 8
1	2	15.0	THALASSIOSIRA SP.	4300	10 4 8
1	2	15.0	LEPTOCYLINDRUS MINIMUS	3800	10 4 7
1	2	15.0	GYMNODINIUM SP.	3700	10 4 6
1	2	15.0	CERATIUM TRIPOS	2100	10 4 4
1	2	15.0	GYMNODINIUM MINUTUM	1900	10 4 3
1	2	15.0	CHAETOCEROS GRACILE	1900	10 4 3
1	2	15.0	LEPTOCYLINDRUS MINIMUS	1900	10 4 3
1	2	15.0	TINTINNIDA	1600	10 4 3
1	2	15.0	SKELETONEMA COSTATUM	1000	10 4 2
1	2	15.0	THALASSIOSIRA GRAVIDA	900	10 4 2
1	2	15.0	NITZSCHIA PUNGENS V. ATLANTICA	800	10 4 1
1	2	15.0	THALASSIONEMA NITZSCHIOIDES	700	10 4 1
1	2	15.0	PERIDINIUM SP.	600	10 4 1
1	2	15.0	NAVICULA SP.	600	10 4 1
1	2	15.0	EXUVIELLA SP.	600	10 4 1
1	2	15.0	SILIATE	500	10 4 1
1	2	15.0	DINOPHYSIS ACUTA	500	10 4 1
1	2	15.0	SILICA FLAGELLATE	400	10 4 1
1	2	15.0	COSCIINODISCUS SP.	200	10 4 0
1	2	15.0	CERATIUM TRIPOS LONG + SHORT	100	10 4 0
1	2	15.0	NITZSCHIA CLOSTERIUM	100	10 4 0
1	2	15.0	PROROCENTRUM MICANS	100	10 4 0
1	2	15.0	RHIZOSOLENIA SETIGERA	100	10 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 71
PERCENT DINOFLAGELLATE/TOTAL 17
PERCENT OTHER/TOTAL 12

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
1	2	32.0	GYMNODINIUM SP.	21400	11 4 42
1	2	32.0	NANNOPLANKTON	6600	11 4 13
1	2	32.0	GYMNODINIUM PYGMAEUM	4200	11 4 8
1	2	32.0	THALASSIONEMA NITZSCHIOIDES	4100	11 4 8
1	2	32.0	GYMNODINIUM SIMPLEX	4000	11 4 8
1	2	32.0	THALASSIOSIRA SP.	3200	11 4 6
1	2	32.0	SKELETONEMA COSTATUM	2200	11 4 4
1	2	32.0	RHIZOSOLENIA DELICATULA	1600	11 4 3
1	2	32.0	PERIDINIUM SP.	600	11 4 1
1	2	32.0	CHAETOCEROS SP.	600	11 4 1
1	2	32.0	TINTINNIDA	400	11 4 1
1	2	32.0	DINOPHYSIS ACUTA	400	11 4 1
1	2	32.0	EXUVIELLA SP.	300	11 4 1
1	2	32.0	NAVICULA SP.	200	11 4 0
1	2	32.0	SILIATE	200	11 4 0
1	2	32.0	SILICA FLAGELLATE	200	11 4 0
1	2	32.0	TRICERATIUM SP.	100	11 4 0
1	2	32.0	NITZSCHIA CLOSTERIUM	100	11 4 0
1	2	32.0	COSCIINODISCUS SP.	100	11 4 0
1	2	32.0	PROROCENTRUM MICANS	100	11 4 0
1	2	32.0	RHIZOSOLENIA SETIGERA	100	11 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 24
PERCENT DINOFLAGELLATE/TOTAL 61
PERCENT OTHER/TOTAL 15

LAT 40 41.7
SONIC DEPTH 35

LONG 072 23.2 DATE 77/06/28
ONE PERCENT LIGHT DEPTH 20.8

TIME 1058

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
2	1	15.0	GYMNODINIUM SP.	20400	34
2	1	15.0	NANNOPLANKTON	10200	34
2	1	15.0	SILIATE	3300	34
2	1	15.0	THALASSIOSIRA SP.	3200	34
2	1	15.0	GYMNODINIUM SIMPLEX	2900	34
2	1	15.0	RHIZOSOLENIA DELICATULA	1700	34
2	1	15.0	CERATIUM TRIPOS	1500	34
2	1	15.0	GYMNODINIUM MINUTUM	1400	34
2	1	15.0	CHAETOCEROS SP.	400	34
2	1	15.0	DINOPHYSIS ACUTA	400	34
2	1	15.0	TINTINNIDA	400	34
2	1	15.0	CERATIUM TRIPOS LONG + SHORT	300	34
2	1	15.0	THALASSIONEMA NITZSCHIOIDES	300	34
2	1	15.0	PROROCENTRUM SP.	200	34
2	1	15.0	THALASSIOSIRA GRAVIDA	200	34
2	1	15.0	PERIDINIUM SP.	100	34
2	1	15.0	SILICA FLAGELLATE	100	34

TOTAL CELLS
PERCENT DIATOM/TOTAL 12
PERCENT DINOFLAGELLATE/TOTAL 58
PERCENT OTHER/TOTAL 30

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
2	1	35.0	GYMNODINIUM SP.	9400	44
2	1	35.0	NANNOPLANKTON	7400	44
2	1	35.0	GYMNODINIUM SIMPLEX	2800	44
2	1	35.0	RHIZOSOLENIA DELICATULA	2200	44
2	1	35.0	THALASSIOSIRA SP.	1600	44
2	1	35.0	SCENEDESMUS SP.	1100	44
2	1	35.0	THALASSIONEMA NITZSCHIOIDES	500	44
2	1	35.0	SCHELETONEMA COSTATUM	300	44
2	1	35.0	EXUVIELLA SP.	200	44
2	1	35.0	TINTINNIDA	200	44
2	1	35.0	NITZSCHIA CLOSTERIUM	200	44
2	1	35.0	PLEUROSIGMA AESTUARII	100	44
2	1	35.0	DITYLUM BRIGHTWELLII	100	44

TOTAL CELLS
PERCENT DIATOM/TOTAL 19
PERCENT DINOFLAGELLATE/TOTAL 48
PERCENT OTHER/TOTAL 33

LAT 40 37.0
SONIC DEPTH 40

LONG 072 21.3 DATE 77/06/28
ONE PERCENT LIGHT DEPTH 20.8

TIME 1211

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
3	1	19.0	NANNOPLANKTON	14000	54 31
3	1	19.0	GYMNODINIUM SP.	13200	54 29
3	1	19.0	THALASSIOSIRA SP.	5500	54 12
3	1	19.0	GYMNODINIUM SIMPLEX	3000	54 7
3	1	19.0	SILIATE	2700	54 6
3	1	19.0	CERATIUM TRIPOS	2500	54 6
3	1	19.0	NITZSCHIA PUNGENS V. ATLANTICA	1600	54 4
3	1	19.0	SILICA FLAGELLATE	700	54 2
3	1	19.0	SCENEDESMUS SP.	600	54 1
3	1	19.0	RHIZOSOLENIA DELICATULA	500	54 1
3	1	19.0	CERATIUM TRIPOS LONG + SHORT	100	54 0
3	1	19.0	TINTINNIDA	100	54 0
3	1	19.0	PERIDINIUM SP.	100	54 0
3	1	19.0	EXUVIELLA SP.	100	54 0
3	1	19.0	THALASSIONEMA NITZSCHIOIDES	100	54 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 17
PERCENT DINOFLAGELLATE/TOTAL 42
PERCENT OTHER/TOTAL 40

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
3	1	20.0	GYMNODINIUM SP.	15000	64	37
3	1	20.0	NANNOPLANKTON	11600	64	29
3	1	20.0	CERATIUM TRIPOS	5300	64	13
3	1	20.0	GYMNODINIUM SIMPLEX	4900	64	12
3	1	20.0	SILIATE	600	64	1
3	1	20.0	TINTINNIDA	600	64	1
3	1	20.0	THALASSIOSIRA SP.	540	64	1
3	1	20.0	RHIZOSOLENIA DELICATULA	400	64	1
3	1	20.0	SILICA FLAGELLATE	400	64	1
3	1	20.0	CERATIUM TRIPOS LONG + SHORT	200	64	0
3	1	20.0	EXUVIELLA SP.	200	64	0
3	1	20.0	EXUVIELLA PERFORATA	200	64	0
3	1	20.0	GYMNODINIUM MINUTUM	100	64	0
3	1	20.0	NAVICULA SP.	100	64	0
3	1	20.0	DINOPHYSIS ACUTA	100	64	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 3
PERCENT DINOFLAGELLATE/TOTAL 65
PERCENT OTHER/TOTAL 33

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
3	1	21.0	NANNOPLANKTON	40400	74 36
3	1	21.0	GYMNODINIUM SP.	29100	74 25
3	1	21.0	THALASSIOSIRA SP.	22500	74 20
3	1	21.0	GYMNODINIUM SIMPLEX	7100	74 6
3	1	21.0	CERATIUM TRIPOS	5800	74 5
3	1	21.0	EXUVIELLA SP.	2400	74 2
3	1	21.0	SCENEDESMUS SP.	1500	74 1
3	1	21.0	NITZSCHIA PUNGENS V. ATLANTICA	800	74 1
3	1	21.0	SILIATE	800	74 1
3	1	21.0	CERATIUM TRIPOS LONG + SHORT	300	74 0
3	1	21.0	SILICA FLAGELLATE	300	74 0
3	1	21.0	RHIZOSOLENIA DELICATULA	300	74 0
3	1	21.0	TINTINNIDA	300	74 0
3	1	21.0	GYMNODINIUM MINUTUM	200	74 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 21
PERCENT DINOFLAGELLATE/TOTAL 40
PERCENT OTHER/TOTAL 39

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
3	1	40.0	NANNOPLANKTON	4100	8432
3	1	40.0	GYMNODINIUM SP.	2500	8420
3	1	40.0	GYMNODINIUM SIMPLEX	1600	8413
3	1	40.0	RHIZOSOLENIA SP.	1500	8412
3	1	40.0	THALASSIOSIRA SP.	1400	8411
3	1	40.0	TINTINNIDA	500	844
3	1	40.0	THALASSIONEMA NITZSCHIOIDES	400	843
3	1	40.0	SKELETONEMA COSTATUM	300	842
3	1	40.0	PERIDINIUM SP.	200	842
3	1	40.0	NAVICULA SP.	100	841
3	1	40.0	PROROCENTRUM SP.	100	841
3	1	40.0	COSCIINODISCUS SP.	100	841

TOTAL CELLS
PERCENT DIATOM/TOTAL 30
PERCENT DINOFLAGELLATE/TOTAL 34
PERCENT OTHER/TOTAL 36

LAT 40 37.0
SONIC DEPTH 40

LONG 072 21.3 DATE 77/06/29
ONE PERCENT LIGHT DEPTH

TIME 1300

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
3	2	0.0 NANNOPANKTON	18000	12 4 37
3	2	0.0 GYMNODINIUM SIMPLEX	8500	12 4 17
3	2	0.0 GYMNODINIUM PYGMAEUM	4200	12 4 9
3	2	0.0 GYMNODINIUM SP.	4000	12 4 8
3	2	0.0 GYMNODINIUM MINUTUM	4000	12 4 8
3	2	0.0 THALASSIOSIRA SP.	3900	12 4 8
3	2	0.0 CERATIUM TRIPOS	3500	12 4 7
3	2	0.0 THALASSIONEMA NITZSCHIOIDES	800	12 4 2
3	2	0.0 EXUVIELLA SP.	700	12 4 1
3	2	0.0 RHIZOSOLENIA DELICATULA	400	12 4 1
3	2	0.0 SILIATE	400	12 4 1
3	2	0.0 RHIZOSOLENIA SP.	300	12 4 1
3	2	0.0 TINTINNIDA	200	12 4 0
3	2	0.0 PROROCENTRUM MICANS	100	12 4 0
3	2	0.0 SILICA FLAGELLATE	100	12 4 0
3	2	0.0 PERIDINIUM SP.	100	12 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 11
PERCENT DINOFLAGELLATE/TOTAL 51
PERCENT OTHER/TOTAL 38

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
3	2	17.0 NANNOPANKTON	14400	13 4 36
3	2	17.0 THALASSIOSIRA SP.	5500	13 4 14
3	2	17.0 GYMNODINIUM SP.	5500	13 4 14
3	2	17.0 GYMNODINIUM SIMPLEX	4600	13 4 11
3	2	17.0 GYMNODINIUM PYGMAEUM	3200	13 4 8
3	2	17.0 CERATIUM TRIPOS	2600	13 4 6
3	2	17.0 EXUVIELLA SP.	1300	13 4 3
3	2	17.0 SILIATE	1100	13 4 3
3	2	17.0 TINTINNIDA	700	13 4 2
3	2	17.0 RHIZOSOLENIA DELICATULA	300	13 4 1
3	2	17.0 NAVICULA SP.	300	13 4 1
3	2	17.0 SILICA FLAGELLATE	200	13 4 0
3	2	17.0 PERIDINIUM SP.	100	13 4 0
3	2	17.0 PROROCENTRUM MICANS	100	13 4 0
3	2	17.0 THALASSIONEMA NITZSCHIOIDES	100	13 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 15
PERCENT DINOFLAGELLATE/TOTAL 43
PERCENT OTHER/TOTAL 41

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
3	2	18.0 NANNOPANKTON	15000	14 4 32
3	2	18.0 GYMNODINIUM SP.	7000	14 4 15
3	2	18.0 GYMNODINIUM PYGMAEUM	5000	14 4 11
3	2	18.0 CERATIUM TRIPOS	4200	14 4 9
3	2	18.0 GYMNODINIUM SIMPLEX	3600	14 4 8
3	2	18.0 THALASSIOSIRA SP.	3300	14 4 7
3	2	18.0 EXUVIELLA SP.	3300	14 4 7
3	2	18.0 PROROCENTRUM MICANS	2000	14 4 4
3	2	18.0 AMPHIDINIUM SP.	1200	14 4 3
3	2	18.0 TINTINNIDA	1100	14 4 2
3	2	18.0 GYMNODINIUM MINUTUM	600	14 4 1
3	2	18.0 SILIATE	400	14 4 1
3	2	18.0 CERATIUM TRIPOS LONG • SHORT	100	14 4 0
3	2	18.0 DINOPHYSIS ACUTA	100	14 4 0
3	2	18.0 GUINARDIA FLACCIDA	100	14 4 0
3	2	18.0 PERIDINIUM SP.	100	14 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 7
PERCENT DINOFLAGELLATE/TOTAL 58
PERCENT OTHER/TOTAL 35

STA CAST DEPTH(M)		SPECIES	(NO./L)	PERCENTAGES	
3	2	19.0 NANNOPHANKTON	1900	15 4	20
3	2	19.0 GYMNOIDINIUM SP.	1700	15 4	18
3	2	19.0 THALASSIOSIRA SP.	1500	15 4	16
3	2	19.0 PERIDINIUM SP.	900	15 4	9
3	2	19.0 AMPHIDINIUM SP.	900	15 4	9
3	2	19.0 SILIATE	500	15 4	5
3	2	19.0 GYMNOIDINIUM SIMPLEX	400	15 4	4
3	2	19.0 EXUVIELLA SP.	400	15 4	4
3	2	19.0 GYMNOIDINIUM PYGMAEUM	300	15 4	3
3	2	19.0 DINOPHYSIS ACUMINATA	200	15 4	2
3	2	19.0 TINTINNIDA	200	15 4	2
3	2	19.0 RHIZOSOLENIA DELICATULA	200	15 4	2
3	2	19.0 CERATIUM FURCA	100	15 4	1
3	2	19.0 GYMNOIDINIUM MINUTUM	100	15 4	1
3	2	19.0 SILICA FLAGELLATE	100	15 4	1
3	2	19.0 DINOPHYSIS SP.	100	15 4	1
3	2	19.0 NITZSCHIA PUNGENS V. ATLANTICA	100	15 4	1
TOTAL CELLS					
PERCENT DIATOM/TOTAL					19
PERCENT DINOFLAGELLATE/TOTAL					53
PERCENT OTHER/TOTAL					28

STA CAST DEPTH(M)		SPECIES	(NO./L)	PERCENTAGES	
3	2	40.0 NANNOPHANKTON	15700	16 4	36
3	2	40.0 RHIZOSOLENIA DELICATULA	7500	16 4	17
3	2	40.0 GYMNOIDINIUM SIMPLEX	3700	16 4	9
3	2	40.0 GYMNOIDINIUM PYGMAEUM	3600	16 4	8
3	2	40.0 GYMNOIDINIUM SP.	2900	16 4	7
3	2	40.0 THALASSIOSIRA SP.	1800	16 4	4
3	2	40.0 LEPTOCYLINDRUS DANICUS	1300	16 4	3
3	2	40.0 THALASSIOSIRA GRAVIDA	800	16 4	2
3	2	40.0 CHAETOCEROS SP.	800	16 4	2
3	2	40.0 GYMNOIDINIUM MINUTUM	700	16 4	2
3	2	40.0 TINTINNIDA	700	16 4	2
3	2	40.0 NITZSCHIA PUNGENS V. ATLANTICA	500	16 4	1
3	2	40.0 EXUVIELLA SP.	500	16 4	1
3	2	40.0 AMPHIDINIUM SP.	400	16 4	1
3	2	40.0 SILIATE	400	16 4	1
3	2	40.0 SKELETONEMA COSTATUM	400	16 4	1
3	2	40.0 PERIDINIUM SP.	400	16 4	1
3	2	40.0 PROROCENTRUM MICANS	400	16 4	1
3	2	40.0 SILICA FLAGELLATE	300	16 4	1
3	2	40.0 RHIZOSOLENIA SETIGERA	300	16 4	1
3	2	40.0 THALASSIONEMA NITZSCHIOIDES	100	16 4	0
3	2	40.0 CHAETOCEROS GRACILE	100	16 4	0
3	2	40.0 CERATIUM TRIPOS	100	16 4	0
TOTAL CELLS					
PERCENT DIATOM/TOTAL					31
PERCENT DINOFLAGELLATE/TOTAL					29
PERCENT OTHER/TOTAL					39

R/V KNORR CRUISE
AUGUST 1977

ACE-III R/V KNORR
STATION LOCATIONS

Station Plan

LAT 40 58.3
SONIC DEPTH 43

LONG 71 42.1 DATE 77/08/04
ONE PERCENT LIGHT DEPTH

TIME 2133

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
1	1	0.0	SKELETONEMA COSTATUM	987900	284 4 96
1	1	0.0	THALASSIONEMA NITZSCHIOIDES	13450	284 4 1
1	1	0.0	NITZSCHIA SERTIATA	8233	284 4 1
1	1	0.0	CHAETOCEROS DIDYMUS	4016	284 4 0
1	1	0.0	RHIZOSOLENIA HEBETATA F. SEMISPINA	3815	284 4 0
1	1	0.0	ASTERIONELLA JAPONICA	3614	284 4 0
1	1	0.0	THALASSIOSIRA DECIPiens	2008	284 4 0
1	1	0.0	EXUVIELLA MARINA	2008	284 4 0
1	1	0.0	PROROCENTRUM MICANS	1807	284 4 0
1	1	0.0	COSCINODISCUS EXCENTRICUS	1406	284 4 0
1	1	0.0	MELOSIRA MONILIFORMIS	1205	284 4 0
1	1	0.0	COSINOSIRA OESTRUPII	803	284 4 0
1	1	0.0	NITZSCHIA CLOSTERIUM	602	284 4 0
1	1	0.0	CHAETOCEROS GRACILE	602	284 4 0
1	1	0.0	CHAETOCEROS SP.	602	284 4 0
1	1	0.0	DISTEPHANUS SPECULUM	602	284 4 0
1	1	0.0	DINOPHYSIS ACUMINATA	602	284 4 0
1	1	0.0	DITYLUM BRIGHTWELLII	401	284 4 0
1	1	0.0	NAVICULA SP.	200	284 4 0
1	1	0.0	RHIZOSOLENIA SETIGERA	200	284 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 100
PERCENT DINOFLAGELLATE/TOTAL 0
PERCENT OTHER/TOTAL 0

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
1	1	15.0	THALASSIONEMA NITZSCHIOIDES	26170	283 4 81
1	1	15.0	EXUVIELLA MARINA	5000	283 4 15
1	1	15.0	COSINOSIRA OESTRUPII	1167	283 4 4
1	1	15.0	PERIDINIUM SP.	167	283 4 1

TOTAL CELLS
PERCENT DIATOM/TOTAL 84
PERCENT DINOFLAGELLATE/TOTAL 16
PERCENT OTHER/TOTAL 0

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
1	1	27.0	ASTERIONELLA JAPONICA	4712	282 4 44
1	1	27.0	THALASSIONEMA NITZSCHIOIDES	4363	282 4 40
1	1	27.0	COSCINODISCUS EXCENTRICUS	698	282 4 6
1	1	27.0	COSINOSIRA OESTRUPII	523	282 4 5
1	1	27.0	EXUVIELLA MARINA	174	282 4 2
1	1	27.0	DISTEPHANUS SPECULUM	174	282 4 2
1	1	27.0	NITZSCHIA LONGISSIMA	174	282 4 2

TOTAL CELLS
PERCENT DIATOM/TOTAL 97
PERCENT DINOFLAGELLATE/TOTAL 2
PERCENT OTHER/TOTAL 2

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
1	1	39.0	SKELETONEMA COSTATUM	1808	281 4 35
1	1	39.0	MONADI	904	281 4 17
1	1	39.0	THALASSIONEMA NITZSCHIOIDES	542	281 4 10
1	1	39.0	NITZSCHIA CLOSTERIUM	542	281 4 10
1	1	39.0	COSINOSIRA OESTRUPII	542	281 4 10
1	1	39.0	CHAETOCEROS DIDYMUS	361	281 4 7
1	1	39.0	NAVICULA SP.	180	281 4 3
1	1	39.0	COSCINODISCUS EXCENTRICUS	180	281 4 3
1	1	39.0	DINOPHYSIS ACUMINATA	180	281 4 3

TOTAL CELLS
PERCENT DIATOM/TOTAL 79
PERCENT DINOFLAGELLATE/TOTAL 3
PERCENT OTHER/TOTAL 17

LAT 40 46.0
SONIC DEPTH 29

LONG 72 30.4 DATE 77/08/05
ONE PERCENT LIGHT DEPTH

TIME 0811

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
2	1	0.0	SKELETONEMA COSTATUM	188300	285 4 79
2	1	0.0	THALASSIONEMA NITZSCHIOIDES	12560	285 4 5
2	1	0.0	PROROCENTRUM MICANS	7709	285 4 3
2	1	0.0	COSINOSIRA OESTRUPII	4405	285 4 2
2	1	0.0	ASTERIONELLA JAPONICA	4185	285 4 2
2	1	0.0	CHAETOCEROS DEBILE	3965	285 4 2
2	1	0.0	NITZSCHIA SERTIATA	3524	285 4 1
2	1	0.0	CHAETOCEROS AFFINIS	2863	285 4 1
2	1	0.0	RHIZOSOLENIA FRAGILISSIMA	2643	285 4 1
2	1	0.0	GYMNODINIUM SP.	2203	285 4 1
2	1	0.0	CHAETOCEROS DIDYMUS	2203	285 4 1
2	1	0.0	CYCLOTELLA NANA	1101	285 4 0
2	1	0.0	NITZSCHIA CLOSTERIUM	881	285 4 0
2	1	0.0	EXUVIELLA MARINA	440	285 4 0
2	1	0.0	GYRODINIUM SP.	440	285 4 0
2	1	0.0	CHAETOCEROS SIMPLEX	220	285 4 0
2	1	0.0	GYMNODINIUM SPLENDENS	220	285 4 0
2	1	0.0	CERATIUM FUSUS	220	285 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

95
5
0

LAT 40 46.0
SONIC DEPTH 29

LONG 72 30.4 DATE 77/08/05
ONE PERCENT LIGHT DEPTH 22.0

TIME 0935

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
2PR	1	3.0	DINOFLAGELLATES	17960 194 4	48
2PR	1	3.0	PROROCENTRUM MICANS	13660 194 4	37
2PR	1	3.0	LITHODESMIUM UNOLATUM	2643 194 4	7
2PR	1	3.0	EXUVIELLA MARINA	1101 194 4	3
2PR	1	3.0	NITZSCHIA CLOSTERIUM	440 194 4	1
2PR	1	3.0	MELOSIRA MONILIFORMIS	440 194 4	1
2PR	1	3.0	GYMNODINIUM SP.	440 194 4	1
2PR	1	3.0	THALASSIOTHRIX FRAUENFELDII	220 194 4	1
2PR	1	3.0	PERIDINIUM FAEROENSE	220 194 4	1
					TOTAL CELLS
					PERCENT DIATOM/TOTAL
					PERCENT DINOFLAGELLATE/TOTAL
					PERCENT OTHER/TOTAL

10
90
0

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
2PR	1	22.0	SKELETONEMA COSTATUM	1927000 195 4	96
2PR	1	22.0	DINOFLAGELLATES	19340 195 4	1
2PR	1	22.0	MONADII	14510 195 4	1
2PR	1	22.0	NITZSCHIA SERTIATA	13650 195 4	1
2PR	1	22.0	LEPTOCYLINDRUS DANICUS	10400 195 4	1
2PR	1	22.0	CERATIUM LINEATUM	4875 195 4	0
2PR	1	22.0	PROROCENTRUM MICANS	4875 195 4	0
2PR	1	22.0	ASTERIONELLA JAPONICA	3250 195 4	0
2PR	1	22.0	CYCLOTELLA NANA	2600 195 4	0
2PR	1	22.0	NITZSCHIA CLOSTERIUM	1300 195 4	0
2PR	1	22.0	THALASSIONEMA NITZSCHIOIDES	975 195 4	0
2PR	1	22.0	EXUVIELLA MARINA	650 195 4	0
2PR	1	22.0	THALASSIOTHRIX FRAUENFELDII	325 195 4	0
2PR	1	22.0	RHIZOSOLENIA HEBETATA F. SEMISPINA	325 195 4	0
2PR	1	22.0	CHAETOCEROS SIMPLEX	325 195 4	0
2PR	1	22.0	DINOPHYSIS ACUMINATA	325 195 4	0
2PR	1	22.0	PERIDINIUM CLAUDICANS	325 195 4	0
2PR	1	22.0	DISTEPHANUS SPECULUM	325 195 4	0
2PR	1	22.0	PERIDINIUM FAEROENSE	325 195 4	0
					TOTAL CELLS
					PERCENT DIATOM/TOTAL
					PERCENT DINOFLAGELLATE/TOTAL
					PERCENT OTHER/TOTAL

98
2
1

LAT 40 45.7
SONIC DEPTH 29

LONG 72 29.5 DATE 77/08/05
ONE PERCENT LIGHT DEPTH

TIME 1510

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
3	1	27.0	SKELETONEMA COSTATUM	2370000	29% 4 92
3	1	27.0	MONADI	94200	29% 4 4
3	1	27.0	ASTERIONELLA JAPONICA	30400	29% 4 1
3	1	27.0	NITZSCHIA DELICATISSIMA	20270	29% 4 1
3	1	27.0	THALASSIONEMA NITZSCHIOIDES	15200	29% 4 1
3	1	27.0	DINOFAGELLATES	14490	29% 4 1
3	1	27.0	CYCLOTELLA NANA	4800	29% 4 0
3	1	27.0	PROROCENTRUM MICANS	4000	29% 4 0
3	1	27.0	THALASSIOSIRA DECIPIENS	3733	29% 4 0
3	1	27.0	RHIZOSOLENIA SHRUBSOLEI	2667	29% 4 0
3	1	27.0	LEPTOCYLINDRUS DANICUS	2667	29% 4 0
3	1	27.0	CHAETOCEROS DIDYMUS	2400	29% 4 0
3	1	27.0	CHAETOCEROS SP.	1867	29% 4 0
3	1	27.0	RHIZOSOLENIA SETIGERA	1600	29% 4 0
3	1	27.0	RHIZOSOLENIA HEBETATA F. SEMISPINA	1333	29% 4 0
3	1	27.0	NITZSCHIA CLOSTERIUM	1333	29% 4 0
3	1	27.0	PLEUROSIGMA SP.	800	29% 4 0
3	1	27.0	EXUVIELLA MARINA	533	29% 4 0
3	1	27.0	DITYLUM BRIGHTWELLII	266	29% 4 0
3	1	27.0	DISTEPHANUS SPECULUM	266	29% 4 0
3	1	27.0	EBRIA TRIPARTITA	266	29% 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFAGELLATE/TOTAL
PERCENT OTHER/TOTAL

96
1
4

LAT 40 45.1
SONIC DEPTH 31

LONG 72 30.4 DATE 77/08/05
ONE PERCENT LIGHT DEPTH

TIME 2106

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
4	1	18.0	SKELETONEMA COSTATUM	2503000 295 +	95
4	1	18.0	MONADI	39380 295 +	2
4	1	18.0	NITZSCHIA DELICATISSIMA	21260 295 +	1
4	1	18.0	THALASSIONEMA NITZSCHIOIDES	13290 295 +	1
4	1	18.0	DINOFAGELLATES	13130 295 +	1
4	1	18.0	ASTERIONELLA JAPONICA	7246 295 +	0
4	1	18.0	LEPTOCYLINDRUS DANICUS	5314 295 +	0
4	1	18.0	CERATIUM LINEATUM	3623 295 +	0
4	1	18.0	DISTEPHANUS SPECULUM	2174 295 +	0
4	1	18.0	CHAETOCEROS DIDYMUS	1932 295 +	0
4	1	18.0	CHAETOCEROS DIFFICILE	1449 295 +	0
4	1	18.0	CHAETOCEROS DEBILE	1449 295 +	0
4	1	18.0	RHIZOSOLENIA SETIGERA	1208 295 +	0
4	1	18.0	NITZSCHIA CLOSTERIUM	1208 295 +	0
4	1	18.0	CHAETOCEROS COMPRESSUS	1208 295 +	0
4	1	18.0	EBRIA TRIPARTITA	966 295 +	0
4	1	18.0	THALASSIOSIRA DECIPiens	966 295 +	0
4	1	18.0	COSINODISURS MARGINATUS	483 295 +	0
4	1	18.0	CYCLOTILLA NANA	483 295 +	0
4	1	18.0	EXUVIELLA MARINA	483 295 +	0
4	1	18.0	COSINODISCUS RADIATUS	241 295 +	0
4	1	18.0	CHAETOCEROS SIMPLEX	241 295 +	0
4	1	18.0	RHIZOSOLENIA SHRUBSOLEI	241 295 +	0
4	1	18.0	NAVICULA SP.	241 295 +	0
4	1	18.0	PLEUROSIGMA SP.	241 295 +	0

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFAGELLATE/TOTAL
PERCENT OTHER/TOTAL

98
1
2

LAT 40 44.3
SONIC DEPTH 30

LONG 72 28.4 DATE 77/08/06
ONE PERCENT LIGHT DEPTH

TIME 0055

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

5	1	26.0	SKELTONEMA COSTATUM	53090	296	4	62
5	1	26.0	FLAGELLATA	17380	296	4	20
5	1	26.0	THALASSIONEMA NITZSCHIOIDES	6823	296	4	8
5	1	26.0	MONADI	5794	296	4	7
5	1	26.0	DINOPHYSIS ACUMINATA	1279	296	4	2
5	1	26.0	NITZSCHIA CLOSTERIUM	426	296	4	1
5	1	26.0	COSCIINODISCUS SP.	213	296	4	0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	71
PERCENT DINOFLAGELLATE/TOTAL	2
PERCENT OTHER/TOTAL	27

LAT 40 46.7
SONIC DEPTH 27

LONG 72 29.2 DATE 77/08/06
ONE PERCENT LIGHT DEPTH

TIME 0502

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
6	1	22.0	SKELETONEMA COSTATUM	2427000 297 4	91
6	1	22.0	DINOFLAGELLATES	90580 297 4	3
6	1	22.0	ASTERIONELLA JAPONICA	32620 297 4	1
6	1	22.0	MONADI	32350 297 4	1
6	1	22.0	FLAGELLATA	25880 297 4	1
6	1	22.0	THALASSIONEMA NITZSCHIOIDES	13330 297 4	1
6	1	22.0	NITZSCHIA DELICATISSIMA	12620 297 4	0
6	1	22.0	CHAETOCEROS DIFFICILE	3810 297 4	0
6	1	22.0	LEPTOCYLINDRUS DANICUS	3571 297 4	0
6	1	22.0	LEPTOCYLINDRUS MINIMUS	3333 297 4	0
6	1	22.0	MELOSIRA MONILIFORMIS	1905 297 4	0
6	1	22.0	RHIZOSOLENIA HEBETATA F. SEMISPINA	1429 297 4	0
6	1	22.0	NITZSCHIA CLOSTERIUM	952 297 4	0
6	1	22.0	CHAETOCEROS DEBILE	952 297 4	0
6	1	22.0	CHAETOCEROS AFFINIS	952 297 4	0
6	1	22.0	CERATIUM LINEATUM	952 297 4	0
6	1	22.0	PLEUROSIGMA SP.	476 297 4	0
6	1	22.0	EXUVIELLA MARINA	476 297 4	0
6	1	22.0	DITYLUM BRIGHTWELLII	476 297 4	0
6	1	22.0	DISTEPHANUS SPECULUM	476 297 4	0
6	1	22.0	NAVICULA SP.	238 297 4	0
6	1	22.0	CERATIUM FUSUS	238 297 4	0
6	1	22.0	PROROCENTRUM HICANS	238 297 4	0
6	1	22.0	GYMNODINIUM SP.	238 297 4	0
6	1	22.0	PERIDINIUM SP.	238 297 4	0

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

94
4
2

LAT 40 46.2
SONIC DEPTH 28

LONG 72 28.9 DATE 77/08/06
ONE PERCENT LIGHT DEPTH

TIME 0859

STA	CAST DEPTH(M)	SPECIES	(NO./L.)	PERCENTAGES
7	1	20.0 SKELETONEMA COSTATUM	3244000	298 4 96
7	1	20.0 ASTERIONELLA JAPONICA	29500	298 4 1
7	1	20.0 DINOFLAGELLATES	20380	298 4 1
7	1	20.0 MONADI	20380	298 4 1
7	1	20.0 NITZSCHIA DELICATISSIMA	20250	298 4 1
7	1	20.0 NITZSCHIA SERTIATA	12500	298 4 0
7	1	20.0 FLAGELLATA	6793	298 4 0
7	1	20.0 PERIDINIUM FAEROENSE	6793	298 4 0
7	1	20.0 CERATIUM LINEATUM	6250	298 4 0
7	1	20.0 CHAETOCEROS AFFINIS	4250	298 4 0
7	1	20.0 THALASSIONEMA NITZSCHIOIDES	4000	298 4 0
7	1	20.0 CHAETOCEROS DIFFICILE	4000	298 4 0
7	1	20.0 PROROCENTRUM MICANS	1750	298 4 0
7	1	20.0 THALASSIOSIRA DECIPiens	1500	298 4 0
7	1	20.0 EXUVIELLA MARINA	1250	298 4 0
7	1	20.0 MELOSIRA MONILIFORMIS	1250	298 4 0
7	1	20.0 NITZSCHIA CLOSTERIUM	1000	298 4 0
7	1	20.0 PLEUROSIGMA SP.	1000	298 4 0
7	1	20.0 CHAETOCEROS SIMPLEX	1000	298 4 0
7	1	20.0 GYMNODINIUM SP.	750	298 4 0
7	1	20.0 RHIZOSOLENIA HEBETATA F. SEMISPINA	750	298 4 0
7	1	20.0 CERATIUM FUSUS	750	298 4 0
7	1	20.0 CHAETOCEROS CONSTRICTUS	500	298 4 0
7	1	20.0 RHIZOSOLENIA SHRUBSOLEI	500	298 4 0
7	1	20.0 COSCINODISCUS EXCENTRICUS	250	298 4 0
7	1	20.0 DISTEPHANUS SPECULUM	250	298 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

98
1
1

LAT 40 45.2
SONIC DEPTH 28

LONG 72 29.4 DATE 77/08/06
ONE PERCENT LIGHT DEPTH 21.0

TIME 1048

STA	CST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
7PR	1	0.0 D'NOFLAGELLATES	63490	299 4 47
7PR	1	0.0 PERIDINIUM TROCHOIDEUM	19050	299 4 14
7PR	1	0.0 SKELETONEMA COSTATUM	14020	299 4 10
7PR	1	0.0 THALASSIONEMA NITZSCHIOIDES	9346	299 4 7
7PR	1	0.0 PERIDINIUM FAEROENSE	6349	299 4 5
7PR	1	0.0 PROROCENTRUM MICANS	4673	299 4 3
7PR	1	0.0 LEPTOCYLINDRUS DANICUS	3738	299 4 3
7PR	1	0.0 NITZSCHIA DELICATISSIMA	3505	299 4 3
7PR	1	0.0 ASTERIONELLA JAPONICA	2336	299 4 2
7PR	1	0.0 CERATAULINA PELAGICA	2103	299 4 2
7PR	1	0.0 EXUVIELLA MARINA	1636	299 4 1
7PR	1	0.0 NITZSCHIA SERTIATA	934	299 4 1
7PR	1	0.0 LITHODESMIUM UNDULATUM	934	299 4 1
7PR	1	0.0 GYRODINIUM SP.	700	299 4 1
7PR	1	0.0 NITZSCHIA CLOSTERIUM	467	299 4 0
7PR	1	0.0 RHIZOSOLENIA HEBETATA F. SEMISPINA	233	299 4 0
7PR	1	0.0 CORETHRON CRIOPHILUM	233	299 4 0
7PR	1	0.0 CERATIUM FUSUS	233	299 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 28
PERCENT D'NOFLAGELLATE/TOTAL 72
PERCENT OTHER/TOTAL 0

STA	CST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
7PR	1	21.0 SKELETONEMA COSTATUM	2338000	300 4 95
7PR	1	21.0 ASTERIONELLA JAPONICA	20000	300 4 1
7PR	1	21.0 D'NOFLAGELLATES	17530	300 4 1
7PR	1	21.0 MONADI	17530	300 4 1
7PR	1	21.0 FLAGELLATA	17530	300 4 1
7PR	1	21.0 THALASSIONEMA NITZSCHIOIDES	10540	300 4 0
7PR	1	21.0 NITZSCHIA DELICATISSIMA	9892	300 4 0
7PR	1	21.0 CHAETOCEROS AFFINIS VAR WILLEY	3656	300 4 0
7PR	1	21.0 CERATIUM LINEATUM	3441	300 4 0
7PR	1	21.0 NITZSCHIA SERTIATA	2366	300 4 0
7PR	1	21.0 NITZSCHIA CLOSTERIUM	2151	300 4 0
7PR	1	21.0 GYMNODINIUM SP.	1935	300 4 0
7PR	1	21.0 LEPTOCYLINDRUS DANICUS	1505	300 4 0
7PR	1	21.0 DISTEPHANUS SPECULUM	1505	300 4 0
7PR	1	21.0 THALASSIOSIRA DECIPiens	1290	300 4 0
7PR	1	21.0 MELOSIRA MONILIFORMIS	1290	300 4 0
7PR	1	21.0 CHAETOCEROS DEBILE	1075	300 4 0
7PR	1	21.0 RHIZOSOLENIA HEBETATA F. SEMISPINA	860	300 4 0
7PR	1	21.0 EXUVIELLA MARINA	860	300 4 0
7PR	1	21.0 CHAETOCEROS SP.	860	300 4 0
7PR	1	21.0 PLEUROSIGMA SP.	645	300 4 0
7PR	1	21.0 GONIAULAX SP.	645	300 4 0
7PR	1	21.0 CHAETOCEROS GRACILE	430	300 4 0
7PR	1	21.0 COSCINODISCUS RADIATUS	430	300 4 0
7PR	1	21.0 CHAETOCEROS SIMPLEX	215	300 4 0
7PR	1	21.0 DITYLUM BRIGHTWELLII	215	300 4 0
7PR	1	21.0 NAVICULA SP.	215	300 4 0
7PR	1	21.0 CERATIUM FUSUS	215	300 4 0
7PR	1	21.0 PROROCENTRUM MICANS	215	300 4 0
7PR	1	21.0 DINOPHYSIS ACUMINATA	215	300 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 97
PERCENT D'NOFLAGELLATE/TOTAL 1
PERCENT OTHER/TOTAL 1

LAT 40 46.2
SONIC DEPTH 28

LONG 72 29.8 DATE 77/08/06
ONE PERCENT LIGHT DEPTH

TIME 1632

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
9	1	20.0	SKELETONEMA COSTATUM	12440000	301 4 97
9	1	20.0	ASTERIONELLA JAPONICA	60360	301 4 0
9	1	20.0	MONADI	50860	301 4 0
9	1	20.0	NITZSCHIA DELICATISSIMA	46880	301 4 0
9	1	20.0	FLAGELLATA	43590	301 4 0
9	1	20.0	CHAETOCEROS DIFFICILE	43370	301 4 0
9	1	20.0	DINOFAGELLATES	21800	301 4 0
9	1	20.0	THALASSIONEMA NITZSCHIOIDES	18170	301 4 0
9	1	20.0	NITZSCHIA SERTIATA	18410	301 4 0
9	1	20.0	CYCLOTELLA NANA	14530	301 4 0
9	1	20.0	THALASSIOSIRA DECEPIENS	5274	301 4 0
9	1	20.0	LEPTOCYLINDRUS DANICUS	4688	301 4 0
9	1	20.0	DISTEPHANUS SPECULUM	4102	301 4 0
9	1	20.0	CERATIUM LINEATUM	3516	301 4 0
9	1	20.0	COSCIINODISCUS SP.	2344	301 4 0
9	1	20.0	PLEUROSIGMA SP.	2344	301 4 0
9	1	20.0	DITYLUM BRIGHTWELLII	1758	301 4 0
9	1	20.0	CHAETOCEROS GRACILE	1758	301 4 0
9	1	20.0	NAVICULA SP.	1758	301 4 0
9	1	20.0	EXUVIELLA MARINA	1172	301 4 0
9	1	20.0	CHAETOCEROS AFFINIS V. WILLEI	1172	301 4 0
9	1	20.0	CHAETOCEROS DIDYMUS	1172	301 4 0
9	1	20.0	NITZSCHIA CLOSTERIUM	586	301 4 0
9	1	20.0	CHAETOCEROS SIMPLEX	586	301 4 0
9	1	20.0	RHIZOSOLENIA SETIGERA	586	301 4 0
9	1	20.0	PROROCENTRUM MICANS	586	301 4 0

TOTAL CELLS	99
PERCENT DIATOM/TOTAL	0
PERCENT DINOFAGELLATE/TOTAL	1
PERCENT OTHER/TOTAL	

LAT 40 46.0
SONIC DEPTH 27

LONG 72 29.9 DATE 77/08/06
ONE PERCENT LIGHT DEPTH

TIME 2045

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
10	1	18.0	SKELETONEMA COSTATUM	4709000	302 4 98
10	1	18.0	FLAGELLATA	21620	302 4 0
10	1	18.0	DINOFLAGELLATES	21620	302 4 0
10	1	18.0	CHAETOCEROS DIFFICILE	17510	302 4 0
10	1	18.0	CERATIUM LINEATUM	10340	302 4 0
10	1	18.0	THALASSIONEMA NITZSCHIOIDES	8488	302 4 0
10	1	18.0	NITZSCHIA DELICATISSIMA	5305	302 4 0
10	1	18.0	LEPTOCYLINDRUS DANICUS	3448	302 4 0
10	1	18.0	CHAETOCEROS DIDYMUS	3183	302 4 0
10	1	18.0	ASTERIONELLA JAPONICA	3183	302 4 0
10	1	18.0	NITZSCHIA SERTIATA	2653	302 4 0
10	1	18.0	RHIZOSOLENIA ALATA V. GRACILLIMA	2653	302 4 0
10	1	18.0	THALASSIOSIRA DECIPIENS	2122	302 4 0
10	1	18.0	CHAETOCEROS SIMPLEX	1857	302 4 0
10	1	18.0	COSCIINODISCUS SP.	1857	302 4 0
10	1	18.0	CHAETOCEROS AFFINIS VAR WILLEY	1592	302 4 0
10	1	18.0	CHAETOCEROS COMPRESSUS	1061	302 4 0
10	1	18.0	MELOSIRA MONILIFORMIS	1061	302 4 0
10	1	18.0	NITZSCHIA CLOSTERIUM	1061	302 4 0
10	1	18.0	GYMNODINIUM SP.	1061	302 4 0
10	1	18.0	CERATIUM FUSUS	530	302 4 0
10	1	18.0	RHIZOSOLENIA HEBETATA F. SEMISPINA	530	302 4 0
10	1	18.0	GUINARDIA FLACCIDA	530	302 4 0
10	1	18.0	EXUVIELLA MARINA	530	302 4 0
10	1	18.0	CHAETOCEROS GRACILE	265	302 4 0
10	1	18.0	OITYLUM BRIGHTWELLII	265	302 4 0
10	1	18.0	PROROCENTRUM MICANS	265	302 4 0
10	1	18.0	PERIDINIUM SP.	265	302 4 0
10	1	18.0	DISTEPHANUS SPECULUM	265	302 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

99
1
0

LAT 40 46.2
SONIC DEPTH 28

LONG 72 29.9 DATE 77/08/07
ONE PERCENT LIGHT DEPTH

TIME 0034

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
11	1	24.0	SKELETONEMA COSTATUM	2360000 303 4	93
11	1	24.0	DINOFLAGELLATES	40460 303 4	2
11	1	24.0	MONADI	40460 303 4	2
11	1	24.0	FLAGELLATA	33720 303 4	1
11	1	24.0	ASTERIONELLA JAPONICA	21840 303 4	1
11	1	24.0	NITZSCHIA DELICATISSIMA	8685 303 4	0
11	1	24.0	THALASSIONEMA NITZSCHIOIDES	5707 303 4	0
11	1	24.0	CHAETOCEROS DIFFICILE	4963 303 4	0
11	1	24.0	LEPTOCYLINDRUS DANICUS	3226 303 4	0
11	1	24.0	NITZSCHIA SERTIATA	2481 303 4	0
11	1	24.0	CERATIUM LINEATUM	2233 303 4	0
11	1	24.0	CYCLOTELLA NANA	1985 303 4	0
11	1	24.0	GYMNODINIUM SP.	1985 303 4	0
11	1	24.0	NITZSCHIA CLOSTERIUM	992 303 4	0
11	1	24.0	CHAETOCEROS AFFINIS VAR WILLEY	992 303 4	0
11	1	24.0	CHAETOCEROS DIDYMUS	744 303 4	0
11	1	24.0	PROROCENTRUM MICANS	496 303 4	0
11	1	24.0	CHAETOCEROS GRACILE	248 303 4	0
11	1	24.0	RHIZOSOLENIA HEBETATA F. SEMISPINA	248 303 4	0
11	1	24.0	DITYLUM BRIGHTWELLII	248 303 4	0
11	1	24.0	COSINODISURS MARGINATUS	248 303 4	0
11	1	24.0	CERATIUM FUSUS	248 303 4	0
11	1	24.0	GYRODINIUM SP.	248 303 4	0

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

95
2
3

LAT 40 46.5
SONIC DEPTH 28

LONG 72 30.1 DATE 77/08/07
ONE PERCENT LIGHT DEPTH

TIME 0450

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
12	1	16.0	SKELETONEMA COSTATUM	2413000 304 4	94
12	1	16.0	ASTERIONELLA JAPONICA	47000 304 4	2
12	1	16.0	MONAD	27800 304 4	1
12	1	16.0	FLAGELLATA	13900 304 4	1
12	1	16.0	DINOFLAGELLATES	13900 304 4	1
12	1	16.0	NITZSCHIA DELICATISSIMA	9207 304 4	0
12	1	16.0	CHAETOCEROS DIFFICILE	8184 304 4	0
12	1	16.0	THALASSIONEMA NITZSCHIOIDES	3836 304 4	0
12	1	16.0	CERATIUM LINEATUM	3581 304 4	0
12	1	16.0	LEPTOCYLINDRUS DANICUS	3325 304 4	0
12	1	16.0	NITZSCHIA SERTIATA	2813 304 4	0
12	1	16.0	GYMNODINIUM SP.	2046 304 4	0
12	1	16.0	CHAETOCEROS DEBILE	1279 304 4	0
12	1	16.0	COSINOSIRA OESTRUPII	1023 304 4	0
12	1	16.0	RHIZOSOLENIA ALATA V. GRACILLIMA	1023 304 4	0
12	1	16.0	COSCINODISCUS EXCENTRICUS	1023 304 4	0
12	1	16.0	CHAETOCEROS DIDYMUS	767 304 4	0
12	1	16.0	CHAETOCEROS SIMPLEX	767 304 4	0
12	1	16.0	CERATIUM FUSUS	767 304 4	0
12	1	16.0	CHAETOCEROS AFFINIS	511 304 4	0
12	1	16.0	CHAETOCEROS GRACILE	511 304 4	0
12	1	16.0	EXUVIELLA MARINA	511 304 4	0
12	1	16.0	PROROCENTRUM MICANS	511 304 4	0
12	1	16.0	RHIZOSOLENIA HEBETATA F. SEMISPINA	255 304 4	0
12	1	16.0	PLEUROSIGMA SP.	255 304 4	0
12	1	16.0	DINOPHYSIS ACUMINATA	255 304 4	0
12	1	16.0	DISTEPHANUS SPECULUM	255 304 4	0

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

98
1
2

LAT 40 46.5
SONIC DEPTH 26

LONG 72 29.9 DATE 77/08/07
ONE PERCENT LIGHT DEPTH 19.0

TIME 0843

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
13	1	23.0	SKELETONEMA COSTATUM	899200	305 4 98
13	1	23.0	MONADI	6548	305 4 1
13	1	23.0	PROROCENTRUM MICANS	3373	305 4 0
13	1	23.0	THALASSIONEMA NITZSCHIOIDES	2651	305 4 0
13	1	23.0	DISTEPHANUS SPECULUM	2651	305 4 0
13	1	23.0	COSCIINODISCUS SP.	1446	305 4 0
13	1	23.0	PLEUROSIGMA SP.	963	305 4 0
13	1	23.0	RHIZOSOLENIA HEBETATA F. SEMISPINA	963	305 4 0
13	1	23.0	GERATIUM LINEATUM	722	305 4 0
13	1	23.0	NITZSCHIA CLOSTERIUM	481	305 4 0
13	1	23.0	EXUVIELLA MARINA	481	305 4 0
13	1	23.0	DINOPHYSIS ACUMINATA	241	305 4 0
TOTAL CELLS					
PERCENT DIATOM/TOTAL					98
PERCENT DINOFLAGELLATE/TOTAL					1
PERCENT OTHER/TOTAL					1

LAT 40 46.7
SONIC DEPTH 26

LONG 72 29.9 DATE 77/09/07
ONE PERCENT LIGHT DEPTH

TIME 1218

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
14	1	22.0	SKELETONEMA COSTATUM	7903000	306 4 97
14	1	22.0	MONAD	96130	306 4 1
14	1	22.0	DINOFAGELLATES	44860	306 4 1
14	1	22.0	ASTERIONELLA JAPONICA	19340	306 4 0
14	1	22.0	FLAGELLATA	19230	306 4 0
14	1	22.0	LEPTOCYLINDRUS DANICUS	13920	306 4 0
14	1	22.0	CHAETOCEROS DEBILE	9918	306 4 0
14	1	22.0	THALASSIONEMA NITZSCHIOIDES	8726	306 4 0
14	1	22.0	NITZSCHIA SERTIATA	9019	306 4 0
14	1	22.0	CHAETOCEROS MESSANENSE	7311	306 4 0
14	1	22.0	CERATIUM LINEATUM	5425	306 4 0
14	1	22.0	CHAETOCEROS DIFFICILE	5189	306 4 0
14	1	22.0	NITZSCHIA CLOSTERIUM	4245	306 4 0
14	1	22.0	PROROCENTRUM MICANS	3538	306 4 0
14	1	22.0	CHAETOCEROS GRACILE	3066	306 4 0
14	1	22.0	DISTEPHANUS SPECULUM	1415	306 4 0
14	1	22.0	COSCIINODISCUS SP.	1179	306 4 0
14	1	22.0	RHIZOSOLENIA SP.	1179	306 4 0
14	1	22.0	RHIZOSOLENIA HEBETATA F. SEMISPINA	471	306 4 0
14	1	22.0	CORETHRON CRIOPHILUM	471	306 4 0
14	1	22.0	EXUVIELLA MARINA	471	306 4 0
14	1	22.0	BIDDULPHIA MOBILIENSIS	235	306 4 0
14	1	22.0	NAVICULA SP.	235	306 4 0
14	1	22.0	CERATIUM FUSUS	235	306 4 0
14	1	22.0	PERIDINIUM SP.	235	306 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 98
PERCENT DINOFAGELLATE/TOTAL 1
PERCENT OTHER/TOTAL 1

LAT 40 41.2
SONIC DEPTH 36

LONG 72 26.3 DATE 77/08/07
ONE PERCENT LIGHT DEPTH

TIME 1617

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
15	1	20.0	MONADI	27280	307 4 39
15	1	20.0	DINOFAGELLATES	16370	307 4 23
15	1	20.0	SKELETONEMA COSTATUM	14660	307 4 21
15	1	20.0	FLAGELLATA	5457	307 4 8
15	1	20.0	THALASSIONEMA NITZSCHIOIDES	4217	307 4 6
15	1	20.0	PROROCENTRUM MICANS	803	307 4 1
15	1	20.0	OISTERPHANUS SPECULUM	602	307 4 1
15	1	20.0	ASTERIONELLA JAPONICA	401	307 4 1
15	1	20.0	EXUVIELLA MARINA	200	307 4 0
15	1	20.0	CERATIUM LINEATUM	200	307 4 0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	27
PERCENT DINOFAGELLATE/TOTAL	25
PERCENT OTHER/TOTAL	47

LAT 40 31.0
SONIC DEPTH 25

LONG 72 17.2 DATE 77/08/07
ONE PERCENT LIGHT DEPTH

TIME 2030

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
17	1	25.0	FLAGELLATA	29640	309 4 47
17	1	25.0	MONADI	13470	309 4 21
17	1	25.0	OPHIASTER FORMOSUS	6737	309 4 11
17	1	25.0	GYMNODINIUM SP.	6737	309 4 11
17	1	25.0	CYCLOTELLA NANA	4042	309 4 6
17	1	25.0	PROROCENTRUM MICANS	1347	309 4 2
17	1	25.0	RHIZOSOLENIA HEBETATA F. SEMISPINA	1347	309 4 2

TOTAL CELLS	
PERCENT DIATOM/TOTAL	9
PERCENT DINOFLLAGELLATE/TOTAL	13
PERCENT OTHER/TOTAL	79

LAT 40 25.4
SONIC DEPTH 57

LONG 72 12.6 DATE 77/08/07
ONE PERCENT LIGHT DEPTH

TIME 2237

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

18	1	19.0	FLAGELLATA	69360	310 4	43
18	1	19.0	MONADI	43160	310 4	27
18	1	19.0	GYMNODINIUM SP.	23120	310 4	14
18	1	19.0	COCCOLITHOPHORES	18500	310 4	11
18	1	19.0	OPHIASTER FORMOSUS	6165	310 4	4
18	1	19.0	PROROCENTRUM MICANS	1541	310 4	1

TOTAL CELLS	
PERCENT DIATOM/TOTAL	0
PERCENT DINOFLAGELLATE/TOTAL	15
PERCENT OTHER/TOTAL	85

LAT 40 19.6
SONIC DEPTH 62

LONG 72 8.8 DATE 77/08/08
ONE PERCENT LIGHT DEPTH

TIME 0431

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

19	1	20.0	FLAGELLATA
19	1	20.0	OPHIASTER FORMOSUS
19	1	20.0	MONADI
19	1	20.0	GYMNODINIUM SP.
19	1	20.0	NAVICULA SP.

54930	343	4
14080	343	4
14080	343	4
4225	343	4
1408	343	4

62

16

16

5

2

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

2
5
94

LAT 40 14.6
SONIC DEPTH 62

LONG 72 4.3 DATE 77/08/08
ONE PERCENT LIGHT DEPTH

TIME 0558

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
20	1	20.0	FLAGELLATA	57590	344 4 53
20	1	20.0	OPHIASTER FORMOSUS	16940	344 4 15
20	1	20.0	MONAD	15810	344 4 14
20	1	20.0	GYMNODINIUM SP.	11290	344 4 10
20	1	20.0	COSCIINODISCUS SP.	6776	344 4 6
20	1	20.0	NITZSCHIA CLOSTERIUM	1129	344 4 1

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

7
10
82

LAT 40 9.4
SONIC DEPTH 65

LONG 71 59.8 DATE 77/08/08
ONE PERCENT LIGHT DEPTH

TIME 0740

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

21	1	20.0	FLAGELLATA
21	1	20.0	MONAD
21	1	20.0	GYMNODINIUM SP.
21	1	20.0	PERIDINIUM TROCHOIDEUM
21	1	20.0	OPHIASTER FORMOSUS

79600	345 4
16820	345 4
13450	345 4
12330	345 4
8969	345 4

61
13
10
9
7

TOTAL CELLS	
PERCENT DIATOM/TOTAL	0
PERCENT DINOFLAGELLATE/TOTAL	20
PERCENT OTHER/TOTAL	80

LAT 40 7.3
SONIC DEPTH 74

LONG 71 58.4 DATE 77/08/08
ONE PERCENT LIGHT DEPTH 37.0

TIME 1:01

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
22PR	1	0.0	FLAGELLATA	54660	346 4 56
22PR	1	0.0	GYMNODINIUM SP.	14910	346 4 15
22PR	1	0.0	MONADI	9938	346 4 10
22PR	1	0.0	PERIDINIUM FAEROENSE	7453	346 4 8
22PR	1	0.0	COCCOLITHOPHORES	7453	346 4 8
22PR	1	0.0	NAVICULA SP.	1242	346 4 1
22PR	1	0.0	PERIDINIUM TROCHOIDEUM	1242	346 4 1
					TOTAL CELLS
					PERCENT DIATOM/TOTAL
					PERCENT DINOFLAGELLATE/TOTAL
					PERCENT OTHER/TOTAL
					1 24 74

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
22PR	1	32.0	FLAGELLATA	13040	347 4 77
22PR	1	32.0	OPHIASTER FORMOSUS	1000	347 4 6
22PR	1	32.0	COSCONODISCUS CONCINNUS	800	347 4 5
22PR	1	32.0	COCCOLITHOPHORES	600	347 4 4
22PR	1	32.0	GYMNODINIUM SP.	400	347 4 2
22PR	1	32.0	MONADI	400	347 4 2
22PR	1	32.0	COSCONODISCUS LINEATUS	200	347 4 1
22PR	1	32.0	NITZSCHIA CLOSTERIUM	200	347 4 1
22PR	1	32.0	PROROCENTRUM MICANS	200	347 4 1
22PR	1	32.0	CERATIUM TRIPOS	200	347 4 1
					TOTAL CELLS
					PERCENT DIATOM/TOTAL
					PERCENT DINOFLAGELLATE/TOTAL
					PERCENT OTHER/TOTAL
					7 5 88

LAT 40 5.0
SONIC DEPTH 77

LONG 71 55.5 DATE 77/08/08
ONE PERCENT LIGHT DEPTH

TIME 1330

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
23	1	31.0	FLAGELLATA	29910	348 4 63
23	1	31.0	OPHIASTER FORMOSUS	8571	348 4 18
23	1	31.0	DACTYLIOSOLEN MEDITERRANEUS	4286	348 4 9
23	1	31.0	HALOPAPUS ADRIATICUS	1607	348 4 3
23	1	31.0	GYMNODINIUM SP.	892	348 4 2
23	1	31.0	COCCOLITHOPHORES	892	348 4 2
23	1	31.0	COSCIINODISCUS LINEATUS	714	348 4 1
23	1	31.0	COSCIINODISCUS SP.	535	348 4 1
23	1	31.0	RHABDOSPHAERA STYLIFER	357	348 4 1

TOTAL CELLS	
PERCENT DIATOM/TOTAL	12
PERCENT DINOFLLAGELLATE/TOTAL	2
PERCENT OTHER/TOTAL	87

LAT 40 2.5
SONIC DEPTH 83

LONG 71 53.3 DATE 77/08/08
ONE PERCENT LIGHT DEPTH

TIME 1524

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
20	1	20.0	FIAGELLATA	55840	349 4 72
20	1	20.0	DINOFLAGELLATES	18610	349 4 24
20	1	20.0	CERATIUM EXTENSUM	913	349 4 1
20	1	20.0	GYMNODINIUM SP.	685	349 4 1
20	1	20.0	NAVICULA SP.	456	349 4 1
20	1	20.0	CERATIUM LINEATUM	228	349 4 0
20	1	20.0	GYRODINIUM SP.	228	349 4 0
20	1	20.0	RHIZOSOLENIA ALATA V. GRACILLIMA	228	349 4 0
20	1	20.0	COCCOLITHOPHORES	228	349 4 0
20	1	20.0	PERIDINIUM FAEROENSE	228	349 4 0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	1
PERCENT DINOFLAGELLATE/TOTAL	27
PERCENT OTHER/TOTAL	72

LAT 39 59.5
SONIC DEPTH 95

LONG 71 52.0 DATE 77/08/08
ONE PERCENT LIGHT DEPTH

TIME 1656

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
25	1	40.0	FLAGELLATA	12190 350 4	65
25	1	40.0	COCCOLITHOPHORES	4063 350 4	22
25	1	40.0	OPHIASTER FORMOSUS	1308 350 4	7
25	1	40.0	COCCOLITHUS HUXLEYI	373 350 4	2
25	1	40.0	BACTERIASTRUM DELICATUM	373 350 4	2
25	1	40.0	PERIDINIUM TROCHOIDEUM	373 350 4	2

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

22
96

LAT 39 56.5
SONIC DEPTH 113

LONG 71 49.6 DATE 77/08/08
ONE PERCENT LIGHT DEPTH

TIME 1831

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
26	1	36.0	FLAGELLATA	4776	351 4 45
26	1	36.0	OPHIASTER FORMOSUS	3163	351 4 30
26	1	36.0	NITZSCHIA DELICATISSIMA	1582	351 4 15
26	1	36.0	MONAD1	351	351 4 3
26	1	36.0	LEPTOCYLINDERUS DANICUS	351	351 4 3
26	1	36.0	NITZSCHIA CLOSTERIUM	175	351 4 2
26	1	36.0	COCCOLITHUS HUXLEYI	175	351 4 2

TOTAL CELLS	
PERCENT DIATOM/TOTAL	20
PERCENT DINOFLAGELLATE/TOTAL	0
PERCENT OTHER/TOTAL	80

LAT 39 54.4
SONIC DEPTH 137

LONG 71 48.0 DATE 77/08/08
ONE PERCENT LIGHT DEPTH

TIME 2003

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
27	1	42.0	DINOFAGELLATES	78770	352 4 59
27	1	42.0	FLAGELLATA	39380	352 4 30
27	1	42.0	GYMNODINIUM SP.	3261	352 4 2
27	1	42.0	OPHIASTER FORMOSUS	2826	352 4 2
27	1	42.0	MONADI	2391	352 4 1
27	1	42.0	COCCOLITHUS HUXLEYI	1957	352 4 1
27	1	42.0	HALOPAPUS ADRIATICUS	1304	352 4 0
27	1	42.0	SYRACOSPHAERA SP.	869	352 4 0
27	1	42.0	NITZSCHIA CLOSTERIUM	652	352 4 0
27	1	42.0	NAVICULA SP.	434	352 4 0
27	1	42.0	RHABDOSPHAERA STYLIFER	434	352 4 0
27	1	42.0	PERIDINIUM SP.	217	352 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFAGELLATE/TOTAL
PERCENT OTHER/TOTAL

1
62
37

LAT 39 51.4
SONIC DEPTH 250

LONG 71 45.1 DATE 77/08/08
ONE PERCENT LIGHT DEPTH

TIME 2221

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
28	1	45.0	OPHIASTER FORMOSUS	5283 353 4	24
28	1	45.0	FLAGELLATA	5125 353 4	23
28	1	45.0	DINOFLAGELLATES	5125 353 4	23
28	1	45.0	DACTYLIOSOLEN MEDITERRANEUS	3774 353 4	17
28	1	45.0	GYMNODINIUM SP.	754 353 4	3
28	1	45.0	GYRODINIUM SP.	754 353 4	3
28	1	45.0	RHABDOSPHAERA CLAVIGER	377 353 4	2
28	1	45.0	COCCOLITHOPHORES	377 353 4	2
28	1	45.0	MONADI	377 353 4	2
28	1	45.0	HALOPAPUS ADRIATICUS	188 353 4	1
28	1	45.0	COSCIINODISCUS SP.	188 353 4	1

TOTAL CELLS	
PERCENT DIATOM/TOTAL	18
PERCENT DINOFLAGELLATE/TOTAL	30
PERCENT OTHER/TOTAL	53

LAT 39 49.4
SONIC DEPTH 368

LONG 71 43.7 DATE 77/08/09
ONE PERCENT LIGHT DEPTH

TIME 0009

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
29	1	45.0	FLAGELLATA	18270	354 4
29	1	45.0	DINOFAGELLATES	13700	354 4
29	1	45.0	OPHIASTER FORMOSUS	1345	354 4
29	1	45.0	RHABDOSPHAERA CLAVIGER	1176	354 4
29	1	45.0	PERIDINIUM TROCHOIDEUM	1176	354 4
29	1	45.0	DACTYLIOSOLEN MEDITERRANEUS	869	354 4
29	1	45.0	SYRACOSPHAERA SP.	672	354 4
29	1	45.0	GYRODINIUM SP.	672	354 4
29	1	45.0	COCCOLITHOPHORES	504	354 4
29	1	45.0	GYMNODINIUM SP.	504	354 4
29	1	45.0	HALOPAPUS ADRIATICUS	168	354 4
29	1	45.0	CERATIUM EXTENSUM	168	354 4
29	1	45.0	CERATIUM TRIPOS	168	354 4
29	1	45.0	NITZSCHIA CLOSTERIUM	168	354 4
29	1	45.0	DISTEPHANUS CRUX	168	354 4

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFAGELLATE/TOTAL
PERCENT OTHER/TOTAL

3
41
56

LAT 39 44.0
SONIC DEPTH 847

LONG 71 39.5 DATE 77/08/09
ONE PERCENT LIGHT DEPTH

TIME 0444

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

31	1	45.0	FLAGELLATA
31	1	45.0	OPHIASTER FORMOSUS
31	1	45.0	COCCOLITHOPHORES
31	1	45.0	GYMNODINIUM SP.
31	1	45.0	DACTYLIOSOLEN MEDITERRANEUS

10680	356	4
7486	356	4
6321	356	4
1179	356	4
785	356	4

40
28
24
4
3

TOTAL CELLS	
PERCENT DIATOM/TOTAL	3
PERCENT DINOFLAGELLATE/TOTAL	4
PERCENT OTHER/TOTAL	93

LAT 39 39.0
SONIC DEPTH 1442

LONG 71 35.5 DATE 77/08/09
ONE PERCENT LIGHT DEPTH

TIME 0743

STA	CAST	DEPTH (M)	SPECIES	(NO./L)	PERCENTAGES
32	1	36.0	FLAGELLATA	41240	357 4 40
32	1	36.0	DINOFLAGELLATES	41240	357 4 40
32	1	36.0	HALOPAPUS ADRIATICUS	6704	357 4 7
32	1	36.0	OPHIASTER FORMOSUS	5490	357 4 5
32	1	36.0	COCCOLITHOPHORES	3187	357 4 3
32	1	36.0	COCCOLITHUS HUXLEYI	910	357 4 1
32	1	36.0	PERIDINIUM FAEROENSE	910	357 4 1
32	1	36.0	NITZSCHIA CLOSTERIUM	758	357 4 1
32	1	36.0	MONADI	455	357 4 0
32	1	36.0	GYMNODINIUM SP.	455	357 4 0
32	1	36.0	SYRACOSPHAERA SP.	303	357 4 0
32	1	36.0	RHABDOSPHAERA CLAVIGER	303	357 4 0
32	1	36.0	RHABDOSPHAERA STYLIFER	151	357 4 0
32	1	36.0	PROROCENTRUM MICANS	151	357 4 0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	1
PERCENT DINOFLAGELLATE/TOTAL	42
PERCENT OTHER/TOTAL	57

LAT 39 34.1
SONIC DEPTH 1870

LONG 71 30.0 DATE 77/08/09
ONE PERCENT LIGHT DEPTH 45.0

TIME 1055

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
33PR	1	30.0	OPHIASTER FORMOSUS	10000	359 4 32
33PR	1	30.0	GYMNOIDINIUM SP.	5770	359 4 19
33PR	1	30.0	FLAGELLATA	5030	359 4 16
33PR	1	30.0	DACTYLIOSOLEN MEDITERRANEUS	4074	359 4 13
33PR	1	30.0	NITZSCHIA DELICATISSIMA	2222	359 4 7
33PR	1	30.0	CHAETOCEROS MESSANENSE	1667	359 4 5
33PR	1	30.0	COCCOLITHUS HUXLEYI	370	359 4 1
33PR	1	30.0	SYRACOSPHAERA SP.	370	359 4 1
33PR	1	30.0	CERATIUM LINEATUM	370	359 4 1
33PR	1	30.0	COCCOLITHOPHORES	370	359 4 1
33PR	1	30.0	LEPTOCYLINDRUS DANICUS	370	359 4 1
33PR	1	30.0	RHABDOSPHAERA CLAVIGER	185	359 4 1
33PR	1	30.0	COSCIINOISCUS SP.	185	359 4 1
33PR	1	30.0	NITZSCHIA SP.	185	359 4 1

TOTAL CELLS	
PERCENT DIATOM/TOTAL	28
PERCENT DINOFLAGELLATE/TOTAL	20
PERCENT OTHER/TOTAL	52

LAT 40 9.6
SONIC DEPTH 66

LONG 72 1.2 DATE 77/08/10
ONE PERCENT LIGHT DEPTH 35.0

TIME 0821

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
34	1	26.0	COCCOLITHOPHORES	55850	361 4 53
34	1	26.0	FLAGELLATA	35910	361 4 34
34	1	26.0	MONADI	5985	361 4 6
34	1	26.0	COSCIINODISCUS SP.	2643	361 4 3
34	1	26.0	OPHIASTER FORMOSUS	2203	361 4 2
34	1	26.0	GYMNODINIUM SP.	1542	361 4 1
34	1	26.0	COSCIINODISCUS CONCINNUS	660	361 4 1
34	1	26.0	NITZSCHIA CLOSTERIUM	440	361 4 0
34	1	26.0	COCCOLITHUS HUXLEYI	220	361 4 0
34	1	26.0	DISTEPHANUS SPECULUM	220	361 4 0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	4
PERCENT DINOFLAGELLATE/TOTAL	1
PERCENT OTHER/TOTAL	95

LAT 40 9.5
SONIC DEPTH 66

LONG 72 0.7 DATE 77/08/10
ONE PERCENT LIGHT DEPTH

TIME 1307

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
35	1	30.0	MONADI	19180	362 4
35	1	30.0	FLAGELLATA	18940	362 4
35	1	30.0	COCCOLITHOPHORES	15300	362 4
35	1	30.0	COSCONODISCUS CONCINNUS	1101	362 4
35	1	30.0	DACYLIOSOLEN MEDITERRANEUS	881	362 4
35	1	30.0	OPHIASTER FORMOSUS	660	362 4
35	1	30.0	COSCONODISCUS EXCENTRICUS	174	362 4
35	1	30.0	GYMNODINIUM SP.	174	362 4

TOTAL CELLS	
PERCENT DIATOM/TOTAL	4
PERCENT DINOFLAGELLATE/TOTAL	0
PERCENT OTHER/TOTAL	96

LAT 40 9.3
SONIC DEPTH 66

LONG 72 0.1 DATE 77/08/11
ONE PERCENT LIGHT DEPTH

TIME 0452

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
39	1	19.0	FLAGELLATA	22180	364 4 48
39	1	19.0	MONADI	11090	364 4 24
39	1	19.0	COCCOLITHOPHORES	6975	364 4 15
39	1	19.0	OPHIASTER FORMOSUS	1633	364 4 4
39	1	19.0	RHIZOSOLENIA CALCAR AVIS	1020	364 4 2
39	1	19.0	SYRACOSPHAERA SP.	612	364 4 1
39	1	19.0	COCCOLITHUS HUXLEYI	612	364 4 1
39	1	19.0	GYMNODINIUM SP.	612	364 4 1
39	1	19.0	RHIZOSOLENIA HEBETATA F. SEMISPINA	612	364 4 1
39	1	19.0	COSCIINODISCUS SP.	408	364 4 1
39	1	19.0	PERIDINIUM SP.	204	364 4 0
39	1	19.0	NITZSCHIA CLOSTERIUM	204	364 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 5
PERCENT DINOFLAGELLATE/TOTAL 2
PERCENT OTHER/TOTAL 93

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
39	1	22.0	FLAGELLATA	5236	365 4 47
39	1	22.0	OPHIASTER FORMOSUS	3468	365 4 31
39	1	22.0	COSCIINODISCUS EXCENTRICUS	1349	365 4 12
39	1	22.0	HALOPAPUS ADRIATICUS	578	365 4 5
39	1	22.0	GYMNODINIUM SP.	578	365 4 5

TOTAL CELLS
PERCENT DIATOM/TOTAL 12
PERCENT DINOFLAGELLATE/TOTAL 5
PERCENT OTHER/TOTAL 83

LAT 40 9.0
SONIC DEPTH 65

LONG 72 0.0 DATE 77/08/11
ONE PERCENT LIGHT DEPTH

TIME 1225

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
41	1	30.0	FLAGELLATA	59410	371 4 61
41	1	30.0	COCCOLITHOPHORES	25020	371 4 26
41	1	30.0	COSCIINODISCUS EXCENTRICUS	4603	371 4 5
41	1	30.0	COSCIINODISCUS LINEATUS	3222	371 4 3
41	1	30.0	COSCIINODISCUS SP.	1611	371 4 2
41	1	30.0	MONADI	1151	371 4 1
41	1	30.0	COCCOLITHUS HUXLEYI	920	371 4 1
41	1	30.0	OPHIASTER FORMOSUS	805	371 4 1
41	1	30.0	DINOPHYSIS ACUMINATA	345	371 4 0
41	1	30.0	PERIDINIUM TROCHOIDEUM	345	371 4 0
41	1	30.0	PROROCENTRUM MICANS	115	371 4 0
41	1	30.0	GYMNODINIUM SP.	115	371 4 0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	10
PERCENT DINOFLAGELLATE/TOTAL	1
PERCENT OTHER/TOTAL	89

LAT 40 9.5
SONIC DEPTH 66

LONG 72 0.5 DATE 77/08/11
ONL PERCENT LIGHT DEPTH

TIME 1616

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
42	1	30.0	FLAGELLATA	43260 372 4	88
42	1	30.0	OPHIASTER FORMOSUS	1824 372 4	4
42	1	30.0	COSCIINODISCUS CONCINNUS	1161 372 4	2
42	1	30.0	GYMNODINIUM SP.	829 372 4	2
42	1	30.0	COCCOLITHOPHORES	663 372 4	1
42	1	30.0	MONADI	663 372 4	1
42	1	30.0	PERIDINIUM FAEROENSE	498 372 4	1
42	1	30.0	COSCIINODISCUS EXCENTRICUS	165 372 4	0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	3
PERCENT DINOFLAGELLATE/TOTAL	3
PERCENT OTHER/TOTAL	95

LAT 40 9.4
SONIC DEPTH 66

LONG 72 0.4 DATE 77/08/11
ONE PERCENT LIGHT DEPTH

TIME 2044

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
43	1	31.0	FLAGELLATA	4751	373 4 56
43	1	31.0	OPHIASTER FORMOSUS	1573	373 4 19
43	1	31.0	COSCIINODISCUS LINEATUS	699	373 4 8
43	1	31.0	COCCOLITHOPHORES	524	373 4 6
43	1	31.0	HALOPAPUS ADRIATICUS	349	373 4 4
43	1	31.0	MONADI	349	373 4 4
43	1	31.0	GYMNODINIUM SP.	174	373 4 2

TOTAL CELLS	
PERCENT DIATOM/TOTAL	8
PERCENT DINOFLAGELLATE/TOTAL	2
PERCENT OTHER/TOTAL	90

LAT 39 41.9
SONIC DEPTH 35

LONG 73 34.4 DATE 77/08/14
ONE PERCENT LIGHT DEPTH 23.0

TIME 1200

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
45	1	22.0	COSINOSIRA OESTRUPII	21930	382 4 28
45	1	22.0	FLAGELLATA	19380	382 4 24
45	1	22.0	MONADI	16930	382 4 21
45	1	22.0	GYMNODINIUM SP.	8820	382 4 11
45	1	22.0	COCCOLITHOPHORES	7750	382 4 10
45	1	22.0	THALASSIONEMA NITZSCHIOIDES	3030	382 4 4
45	1	22.0	THALASSIOSIRA SP.	891	382 4 1
45	1	22.0	DISTEPHANUS SPECULUM	534	382 4 1
45	1	22.0	COSCONODISCUS RADIATUS	178	382 4 0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	33
PERCENT DINOFAGELLATE/TOTAL	11
PERCENT OTHER/TOTAL	56

LAT 39 42.9
SONIC DEPTH 27

LONG 73 40.9 DATE 77/08/14
ONE PERCENT LIGHT DEPTH

TIME 1338

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
46	1	23.0	MONADI	31550	383 4 31
46	1	23.0	COSINOSIRA OESTRUPII	30850	383 4 31
46	1	23.0	FLAGELLATA	27040	383 4 27
46	1	23.0	THALASSIONEMA NITZSCHIOIDES	5638	383 4 6
46	1	23.0	GYMNODINIUM SP.	2322	383 4 2
46	1	23.0	THALASSIOSIRA SP.	1161	383 4 1
46	1	23.0	COSCINODISCUS SP.	663	383 4 1
46	1	23.0	MELOSIRA MONILIFORMIS	497	383 4 0
46	1	23.0	COCCOLITHOPHORES	331	383 4 0
46	1	23.0	PERIDINIUM SP.	165	383 4 0
46	1	23.0	EBRIA TRIPARTITA	165	383 4 0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	39
PERCENT DINOFLAGELLATE/TOTAL	2
PERCENT OTHER/TOTAL	59

LAT 39 45.2
SONIC DEPTH 24

LONG 73 50.9 DATE 77/08/14
ONE PERCENT LIGHT DEPTH

TIME 1458

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
47	1	13.0	FLAGELLATA	255500	384 4
47	1	13.0	CYCLOTELLA NANA	185800	384 4
47	1	13.0	DINOFALGELLATES	69680	384 4
47	1	13.0	MONADI	9290	384 4
47	1	13.0	COSINOSIRA OESTRUPII	8889	384 4
47	1	13.0	THALASSIONEMA NITZSCHIOIDES	2222	384 4
47	1	13.0	RHIZOLENIA ALATA V. GRACILLIMA	854	384 4
47	1	13.0	NITZSCHIA CLOSTERIUM	512	384 4
47	1	13.0	CERATIUM TRIPOS	512	384 4
47	1	13.0	EBRIA TRIPARTITA	512	384 4
47	1	13.0	SYRACOSPHAERA SP.	341	384 4
47	1	13.0	CERATIUM FUSUS	170	384 4
47	1	13.0	GYMNODINIUM SP.	170	384 4

TOTAL CELLS
PERCENT DIATOM/TOTAL 37
PERCENT DINOFALGELLATE/TOTAL 13
PERCENT OTHER/TOTAL 50

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
47	1	15.0	CYCLOTELLA NANA	308200	385 4
47	1	15.0	FLAGELLATA	226000	385 4
47	1	15.0	DINOFALGELLATES	143800	385 4
47	1	15.0	MONADI	102700	385 4
47	1	15.0	THALASSIONEMA NITZSCHIOIDES	43860	385 4
47	1	15.0	NITZSCHIA CLOSTERIUM	7561	385 4
47	1	15.0	COSINOSIRA OESTRUPII	6994	385 4
47	1	15.0	COSINODISCUS SP.	1701	385 4
47	1	15.0	CERATIUM TRIPOS	378	385 4
47	1	15.0	SYRACOSPHAERA SP.	378	385 4
47	1	15.0	DINOPHYSIS NORVEGICA	189	385 4

TOTAL CELLS
PERCENT DIATOM/TOTAL 44
PERCENT DINOFALGELLATE/TOTAL 17
PERCENT OTHER/TOTAL 39

LAT 39 46.2 LONG 73 58.9 DATE 77/08/14
 SONIC DEPTH 22 ONE PERCENT LIGHT DEPTH

TIME 1630

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
48	1	10.0	FLAGELLATA	28210	386 %
48	1	10.0	DINOFAGELLATES	9403	386 %
48	1	10.0	MONADI	9403	386 %
48	1	10.0	COSINOSIRA OESTRUPII	8304	386 %
48	1	10.0	THALASSIONEMA NITZSCHIOIDES	1038	386 %
48	1	10.0	COSCONODISCUS SP.	519	386 %
48	1	10.0	CERATIUM TRIPOS	173	386 %

TOTAL CELLS	
PERCENT DIATOM/TOTAL	17
PERCENT DINOFAGELLATE/TOTAL	17
PERCENT OTHER/TOTAL	66

LAT 39 46.3
SONIC DEPTH 25

LONG 73 46.1 DATE 77/08/14
ONE PERCENT LIGHT DEPTH

TIME 2028

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
48	1	18.0	COSINOSIRA OESTRUPII	51350	387 4 31
48	1	18.0	MONADI	40960	387 4 30
48	1	18.0	THALASSIONEMA NITZSCHIOIDES	21980	387 4 13
48	1	18.0	FLAGELLATA	19580	387 4 12
48	1	18.0	DINOFLAGELLATES	19580	387 4 12
48	1	18.0	CYCLOTELLA MANA	900	387 4 1
48	1	18.0	COSCINODISCUS SP.	900	387 4 1
48	1	18.0	THALASSIOSIRA DECIPIENS	720	387 4 0
48	1	18.0	GYMNODINIUM SP.	350	387 4 0
48	1	18.0	CHAETOCEROS GRACILE	180	387 4 0
48	1	18.0	NAVICULA SP.	180	387 4 0
48	1	18.0	DINOPHYSIS ACUTA	180	387 4 0

TOTAL CELLS 46
PERCENT DIATOM/TOTAL 31
PERCENT DINOFLAGELLATE/TOTAL 12
PERCENT OTHER/TOTAL 42

LAT 39 46.0
SONIC DEPTH 25

LONG 73 46.0 DATE 77/08/15
ONE PERCENT LIGHT DEPTH 20.0

TIME 0814

STA	CASE	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
52	1	16.5	DINOFLAGELLATES	64280	389 4 27
52	1	16.5	MONAD	56440	389 4 25
52	1	16.5	COSINOSIRA OESTRUPII	50970	389 4 22
52	1	16.5	THALASSIONEMA NITZSCHIOIDES	49460	389 4 21
52	1	16.5	FLAGELLATA	5844	389 4 2
52	1	16.5	EBRIA TRIPARTITA	3441	389 4 1
52	1	16.5	COSCINODISCUS SP.	1935	389 4 1
52	1	16.5	DISTEPHANUS SPECULUM	645	389 4 0
52	1	16.5	PLEUROSIGMA SP.	215	389 4 0
52	1	16.5	NITZSCHIA CLOSTERIUM	215	389 4 0
52	1	16.5	DINOPHYSIS ACUTA	215	389 4 0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	44
PERCENT DINOFLAGELLATE/TOTAL	27
PERCENT OTHER/TOTAL	29

LAT 39 46.6
SONIC DEPTH 24

LONG 73 46.8 DATE 77/08/15
ONE PERCENT LIGHT DEPTH

TIME 1208

STA	CASE	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
53	1	15.0	COSINOSIRA CESTRUP11	65130 390 4	55
53	1	15.0	THALASSIONEMA NITZSCHIOIDES	32330 390 4	27
53	1	15.0	DINOFLAGELLATES	12550 390 4	11
53	1	15.0	MONAD1	6276 390 4	5
53	1	15.0	COSCINODISCUS SP.	1617 390 4	1
53	1	15.0	DISTEPHANUS SPECULUM	923 390 4	1
53	1	15.0	DINOPHYSIS ACUTA	230 390 4	0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	83
PERCENT DINOFLAGELLATE/TOTAL	11
PERCENT OTHER/TOTAL	6

LAT 39 46.6
SONIC DEPTH 25

LONG 73 46.4 DATE 77/08/16
ONE PERCENT LIGHT DEPTH

TIME 0013

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

56	1	14.5	DINOFAGELLATES
56	1	14.5	COSINOSIRA OESTRUPII
56	1	14.5	THALASSIONEMA NITZSCHIOIDES
56	1	14.5	COSCONODISCUS SP.

106000	391	4
25370	391	4
2927	391	4
243	391	4

79
19
2
0

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFAGELLATE/TOTAL
PERCENT OTHER/TOTAL

21
79
0

LAT 39 46.6
SONIC DEPTH 25

LONG 73 46.8 DATE 77/08/16
ONE PERCENT LIGHT DEPTH 22.0

TIME 0837

STA	C	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
58	1	17.5	COSINOSIRA OESTRUPII	69970	392 4 68
58	1	17.5	THALASSIONEMA NITZSCHIOIDES	17120	392 4 17
58	1	17.5	MONADI	13480	392 4 13
58	1	17.5	NITZSCHIA CLOSTERIUM	744	392 4 1
58	1	17.5	GYMNODINIUM SP.	496	392 4 0
58	1	17.5	RHIZOSOLENIA SETIGERA	248	392 4 0
58	1	17.5	RHIZOSOLENIA HEBETATA F. SEMISPINA	248	392 4 0
58	1	17.5	COSCINODISCUS SP.	248	392 4 0
58	1	17.5	DISTEPHANUS SPECULUM	248	392 4 0
58	1	17.5	CERATIUM TRIPOS	248	392 4 0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	86
PERCENT DINOFLAGELLATE/TOTAL	1
PERCENT OTHER/TOTAL	13

LAT 39 46.6
SONIC DEPTH 24

LONG 73 46.6 DATE 77/08/16
ONE PERCENT LIGHT DEPTH

TIME 1115

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
59	1	17.0	COSINOSIRA OESTRUPII	41350	393 4 31
59	1	17.0	DINOFAGELLATES	40860	393 4 30
59	1	17.0	MONADI	25540	393 4 19
59	1	17.0	THALASSIONEMA NITZSCHIOIDES	15040	393 4 11
59	1	17.0	FLAGELLATA	10220	393 4 8
59	1	17.0	EBRIA TRIPARTITA	1128	393 4 1
59	1	17.0	COSCONODISCUS SP.	375	393 4 0
59	1	17.0	DISTEPHANUS SPECULUM	188	393 4 0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	42
PERCENT DINOFAGELLATE/TOTAL	30
PERCENT OTHER/TOTAL	28

LAT 39 46.4
SONIC DEPTH 25

LONG 73 45.2 DATE 77/08/16
ONE PERCENT LIGHT DEPTH

TIME 2042

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
61	1	17.5	DINOFLAGELLATES	75310	39% 4 51
61	1	17.5	MONADI	31380	39% 4 21
61	1	17.5	COSINOSIRA OESTRUPII	21250	39% 4 14
61	1	17.5	THALASSIONEMA NITZSCHIOIDES	10850	39% 4 7
61	1	17.5	FLAGELLATA	6276	39% 4 4
61	1	17.5	COSCINODISCUS SP.	2309	39% 4 2
61	1	17.5	CERATIUM FUSUS	230	39% 4 0
61	1	17.5	CERATIUM TRIPOS	230	39% 4 0
61	1	17.5	PROROCENTRUM MICANS	230	39% 4 0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	23
PERCENT DINOFLAGELLATE/TOTAL	51
PERCENT OTHER/TOTAL	25

LAT 40 00.0
SONIC DEPTH 21

LONG 73 57.8 DATE 77/08/21
ONE PERCENT LIGHT DEPTH

TIME 0415

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
79	1	13.0	MONADI	37060	331 4 51
79	1	13.0	COSINOSIRA OESTRUPII	16140	331 4 22
79	1	13.0	THALASSIONEMA NITZSCHIOIDES	11360	331 4 16
79	1	13.0	FLAGELLATA	6176	331 4 9
79	1	13.0	PROROCENTRUM MICANS	454	331 4 1
79	1	13.0	COSCINODISCUS SP.	227	331 4 0
79	1	13.0	CERATIUM TRIPOS	227	331 4 0
79	1	13.0	GYMNODINIUM SP.	227	331 4 0
79	1	13.0	DISTEPHANUS SPECULUM	227	331 4 0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	38
PERCENT DINOFLAGELLATE/TOTAL	1
PERCENT OTHER/TOTAL	60

LAT 39 44.0
SONIC DEPTH 27

LONG 73 43.4 DATE 77/08/21
ONE PERCENT LIGHT DEPTH

TIME 1845

STA	CASE	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
83	1	18.0	DINOFAGELLATES	43630	342 4 37
83	1	18.0	COSINOSIRA OESTRUPII	30730	342 4 26
83	1	18.0	MONAD	24930	342 4 21
83	1	18.0	THALASSIONEMA NITZSCHIOIDES	17200	342 4 15
83	1	18.0	COSCINODISCUS SP.	458	342 4 0
83	1	18.0	NITZSCHIA CLOSTERIUM	229	342 4 0
83	1	18.0	EBRIA TRIPARTITA	229	342 4 0
83	1	18.0	GYMNODINIUM SP.	229	342 4 0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	41
PERCENT DINOFAGELLATE/TOTAL	37
PERCENT OTHER/TOTAL	21

LAT 39 42.4
SONIC DEPTH 35

LONG 73 35.0 DATE 77/08/21
ONE PERCENT LIGHT DEPTH

TIME 2051

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
94	1	5.0	MONADI	63030	341 4 84
94	1	5.0	COSINOSIRA OESTRUPII	4639	341 4 6
94	1	5.0	EBRIA TRIPARTITA	1546	341 4 2
94	1	5.0	PERIDINIUM SP.	1289	341 4 2
94	1	5.0	RHIZOSOLENIA HEBETATA F. SEMISPINA	1031	341 4 1
94	1	5.0	PERIDINIUM FAEROENSE	773	341 4 1
94	1	5.0	THALASSIONEMA NITZSCHIOIDES	515	341 4 1
94	1	5.0	NITZSCHIA CLOSTERIUM	515	341 4 1
94	1	5.0	GYMNODINIUM SP.	515	341 4 1
94	1	5.0	GYRRODINIUM SP.	515	341 4 1
94	1	5.0	PROROCENTRUM MICANS	257	341 4 0
94	1	5.0	CALYPSOPHAERA SP.	257	341 4 0
94	1	5.0	RHABDOSPHAERA STYLIFER	257	341 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

9
4
87

LAT 39 40.8
SONIC DEPTH 37

LONG 73 25.5 DATE 77/08/21
ONE PERCENT LIGHT DEPTH

TIME 2250

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
85	1	4.0	DINOFLAGELLATES	57940	340 4 51
85	1	4.0	MONADI	46350	340 4 41
85	1	4.0	GYMNODINIUM SP.	2772	340 4 2
85	1	4.0	COSINOSIRA OESTRUPII	2132	340 4 2
85	1	4.0	PERIDINIUM SP.	1493	340 4 1
85	1	4.0	THALASSIONEMA NITZSCHIOIDES	1066	340 4 1
85	1	4.0	GYRODINIUM SP.	639	340 4 1
85	1	4.0	PROROCENTRUM DENTATUM	639	340 4 1
85	1	4.0	CERATIUM TRIPOS	213	340 4 0
85	1	4.0	EXUVIELLA MARINA	213	340 4 0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	3
PERCENT DINOFLAGELLATE/TOTAL	56
PERCENT OTHER/TOTAL	41

LAT 39 39.3
SONIC DEPTH 38

LONG 73 15.6 DATE 77/08/22
ONE PERCENT LIGHT DEPTH

TIME 0126

STA	CASE	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
86	1	5.0	MONAD1	68240	339 4
86	1	5.0	DINOFAGELLATES	62040	339 4
86	1	5.0	FLAGELLATA	12410	339 4
86	1	5.0	COSINOSIRA OESTRUP11	3653	339 4
86	1	5.0	GYMNODINIUM SP.	2968	339 4
86	1	5.0	GYRODINIUM SP.	1598	339 4
86	1	5.0	PROOCENTRUM MICANS	913	339 4
86	1	5.0	CERATIUM FUSUS	684	339 4
86	1	5.0	PERIDIUM FAEROENSE	684	339 4
86	1	5.0	COSCINODISCUS SP.	456	339 4
86	1	5.0	RHABDOSPHAERA STYLIFER	456	339 4
86	1	5.0	NITZSCHIA CLOSTERIUM	228	339 4
86	1	5.0	EXUVIELLA MARINA	228	339 4
86	1	5.0	DISTEPHANUS SPECULUM	228	339 4

TOTAL CELLS	
PERCENT DIATOM/TOTAL	3
PERCENT DINOFAGELLATE/TOTAL	45
PERCENT OTHER/TOTAL	53

LAT 39 37.9
SONIC DEPTH 38

LONG 73 8.1 DATE 77/08/22
ONE PERCENT LIGHT DEPTH

TIME 0300

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
87	1	5.0	DINOFLAGELLATES	146200 338 4	55
87	1	5.0	MONADI	97480 338 4	36
87	1	5.0	FLAGELLATA	18280 338 4	7
87	1	5.0	GYMNODINIUM SP.	3812 338 4	1
87	1	5.0	GYRODINIUM SP.	896 338 4	0
87	1	5.0	OXYTOXUM SP.	448 338 4	0
87	1	5.0	PROROCENTRUM MICANS	448 338 4	0
87	1	5.0	EXUVIELLA MARINA	224 338 4	0
87	1	5.0	NITZSCHIA CLOSTERIUM	224 338 4	0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	0
PERCENT DINOFLAGELLATE/TOTAL	57
PERCENT OTHER/TOTAL	43

LAT 39 36.5
SONIC DEPTH 84

LONG 73 0.0 DATE 77/08/22
ONE PERCENT LIGHT DEPTH

TIME 0517

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

88	1	25.0	MONADI	5946	337	4	38
88	1	25.0	FLAGELLATA	5946	337	4	38
88	1	25.0	THALASSIONEMA NITZSCHIOIDES	2845	337	4	18
88	1	25.0	COSCIINODISCUS EXCENTRICUS	437	337	4	3
88	1	25.0	GYMNODINIUM SP.	437	337	4	3
88	1	25.0	CHAETOCEROS BOREALIS	218	337	4	1

TOTAL CELLS	
PERCENT DIATOM/TOTAL	22
PERCENT DINOFLAGELLATE/TOTAL	3
PERCENT OTHER/TOTAL	75

LAT 39 33.9
SONIC DEPTH 61

LONG 72 50.4 DATE 77/08/22
ONE PERCENT LIGHT DEPTH 35.0

TIME 0753

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
89PR	1	0.0	DINOFAGELLATES	51760	396 4 65
89PR	1	0.0	MONADI	25880	396 4 33
89PR	1	0.0	NITZSCHIA CLOSTERIUM	476	396 4 1
89PR	1	0.0	NAVICULA SP.	238	396 4 0
89PR	1	0.0	PERIDINIUM FAEROENSE	238	396 4 0
89PR	1	0.0	GYMNODINIUM SP.	238	396 4 0
89PR	1	0.0	PERIDINIUM TROCHOIDEUM	238	396 4 0
					TOTAL CELLS
					PERCENT DIATOM/TOTAL 1
					PERCENT DINOFAGELLATE/TOTAL 65
					PERCENT OTHER/TOTAL 33

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
89PR	1	23.0	DINOFAGELLATES	30600	397 4 70
89PR	1	23.0	FLAGELLATA	6120	397 4 14
89PR	1	23.0	GYMNODINIUM SP.	4730	397 4 11
89PR	1	23.0	OXYTOXUM SP.	900	397 4 2
89PR	1	23.0	COSCIINODISCUS SP.	675	397 4 2
89PR	1	23.0	GYRODINIUM SP.	225	397 4 1
89PR	1	23.0	PERIDINIUM SP.	225	397 4 1
89PR	1	23.0	DISTEPHANUS CRUX	225	397 4 1
					TOTAL CELLS
					PERCENT DIATOM/TOTAL 2
					PERCENT DINOFAGELLATE/TOTAL 84
					PERCENT OTHER/TOTAL 15

LAT 39 33.9
SONIC DEPTH 61

LONG 72 50.4 DATE 77/09/22
ONE PERCENT LIGHT DEPTH

TIME 0816

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
89	1	18.0	DINOFAGELLATES	14150	336 4 44
89	1	18.0	FLAGELLATA	9435	336 4 29
89	1	18.0	MONADI	6424	336 4 20
89	1	18.0	RHIZOSOLENIA HEBETATA F. SEMISPINA	694	336 4 2
89	1	18.0	GYMNODINIUM SP.	520	336 4 1
89	1	18.0	COSINODISCUS EXCENTRICUS	347	336 4 1
89	1	18.0	NITZSCHIA CLOSTERIUM	347	336 4 1
89	1	18.0	CHAETOCEROS DENSUS	173	336 4 1
89	1	18.0	OXYTOXUM SP.	173	336 4 1

TOTAL CELLS
PERCENT DIATOM/TOTAL 5
PERCENT DINOFAGELLATE/TOTAL 46
PERCENT OTHER/TOTAL 49

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
89	1	28.0	DINOFAGELLATES	27170	335 4 58
89	1	28.0	FLAGELLATA	10870	335 4 23
89	1	28.0	DACTYLIOSOLEN MEDITERRANEUS	3600	335 4 8
89	1	28.0	CERATAULINA BERGONI	2000	335 4 4
89	1	28.0	GYMNODINIUM SP.	800	335 4 2
89	1	28.0	COSINODISCUS EXCENTRICUS	600	335 4 1
89	1	28.0	MONADI	600	335 4 1
89	1	28.0	OXYTOXUM SP.	400	335 4 1
89	1	28.0	COSINODISCUS SP.	400	335 4 1
89	1	28.0	COSINODISCUS MARGINATUS	200	335 4 0
89	1	28.0	PERIDINIUM SP.	200	335 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 15
PERCENT DINOFAGELLATE/TOTAL 61
PERCENT OTHER/TOTAL 24

LAT 39 33.4
SONIC DEPTH 62

LONG 72 42.9 DATE 77/09/22
ONE PERCENT LIGHT DEPTH

TIME 1036

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
90	1	25.0 DINOFLAGELLATES	26280	334 4 73
90	1	25.0 COSCINODISCUS EXCENTRICUS	3095	334 4 9
90	1	25.0 DACTYLIOSOLEN MEDITERRANEUS	2128	334 4 6
90	1	25.0 GYMNOIDINIUM SP.	1354	334 4 4
90	1	25.0 COSCINODISCUS SP.	967	334 4 3
90	1	25.0 COSCINODISCUS CONCINNUS	580	334 4 2
90	1	25.0 DINOPHYSIS ACUMINATA	580	334 4 2
90	1	25.0 EXUVIELLA MARINA	386	334 4 1
90	1	25.0 PERIDINIUM SP.	193	334 4 1
90	1	25.0 DISTEPHANUS SPECULUM	193	334 4 1

TOTAL CELLS
PERCENT DIATOM/TOTAL 19
PERCENT DINOFLAGELLATE/TOTAL 81
PERCENT OTHER/TOTAL 1

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
90	1	50.0 MONADI	17390	330 4 55
90	1	50.0 DINOFLAGELLATES	8696	330 4 27
90	1	50.0 DACTYLIOSOLEN MEDITERRANEUS	3360	330 4 11
90	1	50.0 COSCINODISCUS CONCINNUS	960	330 4 3
90	1	50.0 COSCINODISCUS EXCENTRICUS	640	330 4 2
90	1	50.0 THALASSIONEMA NITZSCHIOIDES	320	330 4 1
90	1	50.0 GYMNOIDINIUM SP.	320	330 4 1

TOTAL CELLS
PERCENT DIATOM/TOTAL 17
PERCENT DINOFLAGELLATE/TOTAL 28
PERCENT OTHER/TOTAL 55

LAT 39 32.3
SONIC DEPTH 84

LONG 72 34.5 DATE 77/08/22
ONE PERCENT LIGHT DEPTH

TIME 1238

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
91	1	29.0	D/CTYLIOSOLEN MEDITERRANEUS	22180 329 *	55
91	1	29.0	FLAGELLATA	16440 329 *	41
91	1	29.0	NITZSCHIA DELICATISSIMA	403 329 *	1
91	1	29.0	THALASSIONEMA NITZSCHIOIDES	403 329 *	1
91	1	29.0	COSCIINODISCUS CONCINNUS	201 329 *	0
91	1	29.0	COSCIINODISCUS EXCENTRICUS	201 329 *	0
91	1	29.0	DINOPHYSIS ACUMINATA	201 329 *	0
91	1	29.0	PROROCENTRUM MICANS	201 329 *	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 58
PERCENT DINOFLAGELLATE/TOTAL 1
PERCENT OTHER/TOTAL 41

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
91	1	41.0	DINOFLAGELLATES	19580 328 *	59
91	1	41.0	MONAD	9792 328 *	29
91	1	41.0	COSCIINODISCUS CONCINNUS	1081 328 *	3
91	1	41.0	NITZSCHIA SERTIATA	1081 328 *	3
91	1	41.0	THALASSIONEMA NITZSCHIOIDES	540 328 *	2
91	1	41.0	GYMNODINIUM SP.	540 328 *	2
91	1	41.0	NITZSCHIA DELICATISSIMA	360 328 *	1
91	1	41.0	COSCIINODISCUS EXCENTRICUS	180 328 *	1
91	1	41.0	OXYTOXUM SP.	180 328 *	1

TOTAL CELLS
PERCENT DIATOM/TOTAL 10
PERCENT DINOFLAGELLATE/TOTAL 61
PERCENT OTHER/TOTAL 29

LAT 39 31.0
SONIC DEPTH 119

LONG 72 26.5 DATE 77/08/22
ONE PERCENT LIGHT DEPTH

TIME 1528

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
92	1	37.0	FLAGELLATA	24480	327 4 59
92	1	37.0	GYMNOIDINIUM SP.	5045	327 4 12
92	1	37.0	MONADI	4896	327 4 12
92	1	37.0	DACYLIOSOLEN MEDITERRANEUS	3423	327 4 8
92	1	37.0	PERIDINIUM SP.	2703	327 4 7
92	1	37.0	COCCOLITHOPHORES	540	327 4 1
92	1	37.0	OXYTOXUM SP.	180	327 4 0
92	1	37.0	CERATIUM FUSUS	180	327 4 0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	8
PERCENT DINOFLAGELLATE/TOTAL	20
PERCENT OTHER/TOTAL	72

LAT 39 29.0
SONIC DEPTH 112

LONG 72 17.4 DATE 77/08/22
ONE PERCENT LIGHT DEPTH

TIME 1835

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENT -IS

93	1	25.0	FLAGELLATA
93	1	25.0	GYMNODINIUM SP.
93	1	25.0	DINOFLAGELLATES
93	1	25.0	LEPTOCYLINDRUS MINIMUS
93	1	25.0	PERIDINIUM SP.
93	1	25.0	RHIZOSOLENIA HEBETATA F. SEMISPINA
93	1	25.0	PYRAMIMONAS

10870	326	4
4000	326	4
800	326	4
800	326	4
200	326	4
200	326	4
200	326	4

64
23
5
5
1
1
1

TOTAL CELLS	
PERCENT DIATOM/TOTAL	6
PERCENT DINOFLAGELLATE/TOTAL	29
PERCENT OTHER/TOTAL	65

LAT 39 27.9
SONIC DEPTH

LONG 72 7.5 DATE 77/08/22
ONE PERCENT LIGHT DEPTH

TIME 2041

5" A CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

99	1	42.0	FLAGELLATA	15770	325	4	66
99	1	42.0	DINOFAGELLATES	5256	325	4	22
99	1	42.0	GYMNODINIUM SP.	1934	325	4	8
99	1	42.0	GYRRODINIUM SP.	386	325	4	2
99	1	42.0	OXYTOXUM SP.	386	325	4	2
99	1	42.0	COSCIINODISCUS EXCENTRICUS	193	325	4	1

TOTAL CELLS	
PERCENT DIATOM/TOTAL	1
PERCENT DINOFAGELLATE/TOTAL	33
PERCENT OTHER/TOTAL	66

LAT 39 25.7 LONG 71 59.4 DATE 77/08/22
 SONIC DEPTH 739 ONE PERCENT LIGHT DEPTH

TIME 2325

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
95	1	41.0	DINOFAGELLATES	16710 32+ 4	80
95	1	41.0	GYMNODINIUM SP.	1844 32+ 4	9
95	1	41.0	NITZSCHIA DELICATISSIMA	819 32+ 4	4
95	1	41.0	PERIDINIUM SP.	614 32+ 4	3
95	1	41.0	PERIDINIUM TROCHOIDEUM	204 32+ 4	1
95	1	41.0	PERIDINIUM DIVARICATUM	204 32+ 4	1
95	1	41.0	OXYTOXUM SCOLOPAX	204 32+ 4	1
95	1	41.0	OXYTOXUM SP.	204 32+ 4	1

TOTAL CELLS	
PERCENT DIATOM/TOTAL	4
PERCENT DINOFAGELLATE/TOTAL	96
PERCENT OTHER/TOTAL	0

LAT 39 28.3
SONIC DEPTH

LONG 71 49.1 DATE 77/08/23
ONE PERCENT LIGHT DEPTH

TIME 0113

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
96	1	40.0	DINOFLAGELLATES	74370	323 4 66
96	1	40.0	FLAGELLATA	22220	323 4 20
96	1	40.0	RHIZOLENIA STOLTERFOTHII	6947	323 4 6
96	1	40.0	GYMNODINIUM SP.	5684	323 4 5
96	1	40.0	OXYTOXUM SP.	842	323 4 1
96	1	40.0	THALASSIONEMA NITZSCHIOIDES	842	323 4 1
96	1	40.0	COSCIINODISCUS SP.	631	323 4 1
96	1	40.0	CORETHRON CRIOPHILUM	421	323 4 0
96	1	40.0	RHIZOLENIA HEBETATA F. SEMISPINA	210	323 4 0
96	1	40.0	LEPTOCYLINDRUS DANICUS	210	323 4 0
96	1	40.0	NITZSCHIA CLOSTERIUM	210	323 4 0
96	1	40.0	GYRODINIUM SP.	210	323 4 0

TOTAL CELLS	8
PERCENT DIATOM/TOTAL	72
PERCENT DINOFLAGELLATE/TOTAL	20
PERCENT OTHER/TOTAL	

LAT 39 35.5
SONIC DEPTH 83

LONG 72 37.1 DATE 77/08/23
ONE PERCENT LIGHT DEPTH 39.0

TIME 1007

STA CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
98PR 1 0.0	FLAGELLATA	12190 398 4	78
98PR 1 0.0	GYMNODINIUM SP.	2242 398 4	14
98PR 1 0.0	CHAETOCEROS DENSUS	448 398 4	3
98PR 1 0.0	PERIDINIUM TROCHOIDEUM	448 398 4	3
98PR 1 0.0	PERIDINIUM SP.	224 398 4	1

TOTAL CELLS	
PERCENT DIATOM/TOTAL	3
PERCENT DINOFLAGELLATE/TOTAL	19
PERCENT OTHER/TOTAL	78

STA CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
98PR 1 32.0	DACTYLOSOLEA MEDITERRANEUS	17710 399 4	39
98PR 1 32.0	FLAGELLATA	13050 399 4	29
98PR 1 32.0	MONADI	13050 399 4	29
98PR 1 32.0	COSCIINODISCUS EXCENTRICUS	571 399 4	1
98PR 1 32.0	THALASSIONEMA NITZSCHIOIDES	381 399 4	1
98PR 1 32.0	COSCIINODISCUS CONCINNUS	190 399 4	0
98PR 1 32.0	GYMNODINIUM SP.	190 399 4	0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	42
PERCENT DINOFLAGELLATE/TOTAL	0
PERCENT OTHER/TOTAL	58

LAT 39 40.0
SONIC DEPTH 78

LONG 72 44.0 DATE 77/08/23
ONE PERCENT LIGHT DEPTH

TIME 1538

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
99	1	30.0	DINOFLLAGELLATES	13590	322 4 46
99	1	30.0	FLAGELLATA	13590	322 4 46
99	1	30.0	GYMNODINIUM SP.	1750	322 4 6
99	1	30.0	PERIDINIUM CLAUDICANS	250	322 4 1
99	1	30.0	COSINODISURS MARGINATUS	250	322 4 1
99	1	30.0	DISTEPHANUS CRUX	250	322 4 1

TOTAL CELLS	
PERCENT DIATOM/TOTAL	1
PERCENT DINOFLLAGELLATE/TOTAL	53
PERCENT OTHER/TOTAL	47

LAT 39 56.8
SONIC DEPTH 68

LONG 73 8.5 DATE 77/08/23
ONE PERCENT LIGHT DEPTH

TIME 2100

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
101	1	20.0	MONADI	13940	321 4 69
101	1	20.0	COSINOSIRA DESTRUP11	2821	321 4 14
101	1	20.0	GYMNODINIUM SP.	1795	321 4 5
101	1	20.0	PERIDINIUM TROCHOIDEUM	769	321 4 4
101	1	20.0	COSCINODISCUS EXCENTRICUS	512	321 4 3
101	1	20.0	CHAETOCEROS DANICUS	256	321 4 1
101	1	20.0	PERIDINIUM MITE	256	321 4 1

TOTAL CELLS	
PERCENT DIATOM/TOTAL	18
PERCENT DINOFLAGELLATE/TOTAL	14
PERCENT OTHER/TOTAL	69

LAT 40 4.3
SONIC DEPTH 48

LONG 73 28.8 DATE 77/08/23
ONE PERCENT LIGHT DEPTH

TIME 2330

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
102	1	10.0	MONADI	182800	320 4 67
102	1	10.0	FLAGELLATA	30460	320 4 11
102	1	10.0	DINOFAGELLATES	30460	320 4 11
102	1	10.0	RHIZOLENIA HEBETATA F. SEMISPINA	9417	320 4 3
102	1	10.0	CERATIUM LINEATUM	3812	320 4 1
102	1	10.0	GYMNODINIUM SP.	3587	320 4 1
102	1	10.0	THALASSIONEMA NITZSCHIOIDES	2691	320 4 1
102	1	10.0	PROROCENTRUM MICANS	1794	320 4 1
102	1	10.0	PERIDINIUM BREVIPES	1794	320 4 1
102	1	10.0	COSCIINODISCUS EXCENTRICUS	896	320 4 0
102	1	10.0	PERIDINIUM FAEROENSE	672	320 4 0
102	1	10.0	EXUVIELLA MARINA	448	320 4 0
102	1	10.0	OXYTOXUM SPHAEROIDEUM	448	320 4 0
102	1	10.0	GYRODINIUM SP.	448	320 4 0
102	1	10.0	DINOPHYSIS ACUMINATA	448	320 4 0
102	1	10.0	RHIZOLENIA SETIGERA	224	320 4 0
102	1	10.0	NITZSCHIA CLOSTERIUM	224	320 4 0
102	1	10.0	CERATIUM FUSUS	224	320 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 5
PERCENT DINOFAGELLATE/TOTAL 16
PERCENT OTHER/TOTAL 79

LAT 40 2.5
SONIC DEPTH 42

LONG 72 39.2 DATE 77/08/24
ONE PERCENT LIGHT DEPTH

TIME 0050

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

103 1 10.0 FLAGELLATA

9058 319 4 100

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

0
0
100

LAT 40 00.0
SONIC DEPTH 21

LONG 73 58.0 DATE 77/08/24
ONE PERCENT LIGHT DEPTH 12.0

TIME 0441

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

106PR	1	0.0	MONADI
106PR	1	0.0	FLAGELLATA
106PR	1	0.0	DINOFLAGELLATES
106PR	1	0.0	COSINOSIRA OESTRUPII
106PR	1	0.0	THALASSIONEMA NITZSCHIOIDES
106PR	1	0.0	GYMNODINIUM SP.

372700	400	4
46580	400	4
23290	400	4
18570	400	4
1714	400	4
285	400	4

81
10
5
4
0
0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	4
PERCENT DINOFLAGELLATE/TOTAL	5
PERCENT OTHER/TOTAL	91

LAT 39 59.7 LONG 73 58.7 DATE 77/08/25
SONIC DEPTH 21 ONE PERCENT LIGHT DEPTH 13.0

TIME 0440

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
111PR	1	0.0	MONADI	255700	401 4 63
111PR	1	0.0	DINOFAGELLATES	101100	401 4 25
111PR	1	0.0	FLAGELLATA	23780	401 4 6
111PR	1	0.0	COSINOSIRA OESTRUPII	18600	401 4 5
111PR	1	0.0	THALASSIONEMA NITZSCHIOIDES	3720	401 4 1
111PR	1	0.0	NITZSCHIA CLOSTERIUM	875	401 4 0
					TOTAL CELLS
					PERCENT DIATOM/TOTAL
					PERCENT DINOFAGELLATE/TOTAL
					PERCENT OTHER/TOTAL
					6
					25
					69

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
111PR	1	12.5	MONADI	234000	402 4 72
111PR	1	12.5	FLAGELLATA	38910	402 4 12
111PR	1	12.5	COSINOSIRA OESTRUPII	27450	402 4 8
111PR	1	12.5	DINOFAGELLATES	19460	402 4 6
111PR	1	12.5	THALASSIONEMA NITZSCHIOIDES	4296	402 4 1
111PR	1	12.5	NITZSCHIA CLOSTERIUM	2625	402 4 1
111PR	1	12.5	OXYTOXUM SPHAEROIDEUM	238	402 4 0
					TOTAL CELLS
					PERCENT DIATOM/TOTAL
					PERCENT DINOFAGELLATE/TOTAL
					PERCENT OTHER/TOTAL
					11
					6
					83

LAT 40 0.1
SONIC DEPTH 20

LONG 73 57.9 DATE 77/08/25
ONE PERCENT LIGHT DEPTH

TIME 1230

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
112	1	10.0	MONAD	190200	318 4 71
112	1	10.0	FLAGELLATA	27170	318 4 10
112	1	10.0	COSINOSIRA OESTRUPII	22670	318 4 8
112	1	10.0	DINOFLAGELLATES	22640	318 4 8
112	1	10.0	THALASSIONEMA NITZSCHIOIDES	4000	318 4 1
112	1	10.0	COSCINODISCUS EXCENTRICUS	166	318 4 0
112	1	10.0	NITZSCHIA CLOSTERIUM	166	318 4 0
112	1	10.0	GYMNODINIUM SP.	166	318 4 0

TOTAL CELLS	10
PERCENT DIATOM/TOTAL	9
PERCENT DINOFLAGELLATE/TOTAL	81
PERCENT OTHER/TOTAL	

LAT 40 0.0 LONG 73 57.5 DATE 77/08/26
 SONIC DEPTH 21 ONE PERCENT LIGHT DEPTH 11.0

TIME 0715

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
119PR	1	0.0	MONADI	184100	403 4 55
119PR	1	0.0	FLAGELLATA	58910	403 4 18
119PR	1	0.0	DINOFLAGELLATES	51550	403 4 15
119PR	1	0.0	COSINOSIRA OESTRUPII	22490	403 4 7
119PR	1	0.0	THALASSIONEMA NITZSCHIOIDES	9756	403 4 3
119PR	1	0.0	RHIZOSOLENIA HEBETATA F. SEMISPINA	2981	403 4 1
119PR	1	0.0	GYMNODINIUM SP.	2168	403 4 1
119PR	1	0.0	NITZSCHIA CLOSTERIUM	813	403 4 0
119PR	1	0.0	COSINOSIRA POLYCHORDA	542	403 4 0
119PR	1	0.0	RHABDOSPHAERA STYLIFER	271	403 4 0
					TOTAL CELLS
					PERCENT DIATOM/TOTAL 11
					PERCENT DINOFLAGELLATE/TOTAL 16
					PERCENT OTHER/TOTAL 73

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
119PR	1	11.0	MONADI	60390	404 4 31
119PR	1	11.0	DINOFLAGELLATES	60390	404 4 31
119PR	1	11.0	FLAGELLATA	37740	404 4 19
119PR	1	11.0	COSINOSIRA OESTRUPII	23610	404 4 12
119PR	1	11.0	THALASSIONEMA NITZSCHIOIDES	13060	404 4 7
119PR	1	11.0	NITZSCHIA CLOSTERIUM	833	404 4 0
119PR	1	11.0	GYMNODINIUM SP.	555	404 4 0
119PR	1	11.0	CERATIUM TRIPOS	277	404 4 0
					TOTAL CELLS
					PERCENT DIATOM/TOTAL 19
					PERCENT DINOFLAGELLATE/TOTAL 31
					PERCENT OTHER/TOTAL 50

LAT 39 54.7
SONIC DEPTH 27

LONG 73 46.2 DATE 77/08/26
ONE PERCENT LIGHT DEPTH

TIME 2000

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
122	1	10.0 MONAD1	120500 317 4	49
122	1	10.0 D1NOFLAGELLATES	65740 317 4	27
122	1	10.0 CYCLOTELLA NANA	25910 317 4	10
122	1	10.0 FLAGELLATA	10960 317 4	4
122	1	10.0 COSINOSIRA OESTRUP11	8669 317 4	4
122	1	10.0 THALASSIONEMA NITZSCHIOIDES	7863 317 4	3
122	1	10.0 RHIZOSOLENIA HEBETATA F. SEMISPINA	5845 317 4	2
122	1	10.0 GYMNOIDINIUM SP.	806 317 4	0
122	1	10.0 NITZSCHIA CLOSTERIUM	604 317 4	0
122	1	10.0 COSINODISURS MARGINATUS	201 317 4	0
122	1	10.0 EBRIA TRIPARTITA	201 317 4	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 20
PERCENT D1NOFLAGELLATE/TOTAL 27
PERCENT OTHER/TOTAL 53

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
122	1	18.0 COSINOSIRA OESTRUP11	15830 316 4	35
122	1	18.0 FLAGELLATA	9452 316 4	21
122	1	18.0 D1NOFLAGELLATES	9452 316 4	21
122	1	18.0 THALASSIONEMA NITZSCHIOIDES	5565 316 4	12
122	1	18.0 CYCLOTELLA NANA	3652 316 4	8
122	1	18.0 RHIZOSOLENIA HEBETATA F. SEMISPINA	521 316 4	1
122	1	18.0 NITZSCHIA CLOSTERIUM	173 316 4	0
122	1	18.0 COSCIPODISCUS EXCENTRICUS	173 316 4	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 58
PERCENT D1NOFLAGELLATE/TOTAL 21
PERCENT OTHER/TOTAL 21

LAT 40 5.3
SONIC DEPTH 24

LONG 73 59.0 DATE 77/08/26
ONE PERCENT LIGHT DEPTH

TIME 2245

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
123	1	10.0	MONADI	105900	315 4 58
123	1	10.0	FLAGELLATA	37080	315 4 20
123	1	10.0	DINOFLAGELLATES	15890	315 4 9
123	1	10.0	CYCLOTELLA NANA	8772	315 4 5
123	1	10.0	COSINOSIRA OESTRUP11	6823	315 4 4
123	1	10.0	THALASSIONEMA NITZSCHIOIDES	5653	315 4 3
123	1	10.0	NITZSCHIA CLOSTERIUM	1364	315 4 1
123	1	10.0	COSCINOIDISCUS EXCENTRICUS	194	315 4 0
123	1	10.0	GYMNODINIUM SP.	194	315 4 0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	13
PERCENT DINOFLAGELLATE/TOTAL	9
PERCENT OTHER/TOTAL	79

LAT 40 5.2
SONIC DEPTH 29

LONG 73 46.7 DATE 77/08/27
ONE PERCENT LIGHT DEPTH

TIME 0028

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
124	1	10.0	MONADI	23300	314.4 36
124	1	10.0	DINOFLAGELLATES	20390	314.4 32
124	1	10.0	FLAGELLATA	5825	314.4 9
124	1	10.0	CYCLOTELLA NANA	4823	314.4 7
124	1	10.0	COSINOSIRA OESTRUPII	3751	314.4 6
124	1	10.0	RHIZOSOLENIA HEBETATA F. SEMISPINA	2572	314.4 4
124	1	10.0	THALASSIONEMA NITZSCHIOIDES	1501	314.4 2
124	1	10.0	GYMNODINIUM SP.	543	314.4 1
124	1	10.0	CHAETOCEROS AFFINIS V. WILLEI	321	314.4 0
124	1	10.0	NITZSCHIA CLOSTERIUM	321	314.4 0
124	1	10.0	PROROCENTRUM HICANS	321	314.4 0
124	1	10.0	CERATIUM TRIPOS	214	314.4 0
124	1	10.0	CERATIUM LINEATUM	214	314.4 0
124	1	10.0	RHIZOSOLENIA SETIGERA	107	314.4 0
124	1	10.0	COSINODISURS MARGINATUS	107	314.4 0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	21
PERCENT DINOFLAGELLATE/TOTAL	34
PERCENT OTHER/TOTAL	45

LAT 40 10.2 LONG 73 47.3 DATE 77/08/27
 SONIC DEPTH 30 ONE PERCENT LIGHT DEPTH

TIME 0157

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
128	1	10.0	CYCLOTELLA NANA	11340	311 %
128	1	10.0	FLAGELLATA	10270	311 %
128	1	10.0	MONADI	10270	311 %
128	1	10.0	THALASSIONEMA NITZSCHIOIDES	3592	311 %
128	1	10.0	COSINOSIRA OESTRUPII	3025	311 %
128	1	10.0	RHIZOSOLENIA HEBETATA F. SEMISPINA	2268	311 %
128	1	10.0	GYMNODINIUM SP.	1323	311 %
128	1	10.0	PROROCENTRUM MICANS	567	311 %
128	1	10.0	EXUVIELLA MARINA	567	311 %
128	1	10.0	COSINOSIRA POLYCHORDA	378	311 %
128	1	10.0	CHAETOCEROS DENSUS	378	311 %
128	1	10.0	CERATIUM LINEATUM	378	311 %
128	1	10.0	CERATIUM FUSUS	189	311 %
128	1	10.0	OXYTOXUM SPHAEROIDEUM	189	311 %

TOTAL CELLS	
PERCENT DIATOM/TOTAL	47
PERCENT DINOFLAGELLATE/TOTAL	7
PERCENT OTHER/TOTAL	46

LAT 40 15.3
SONIC DEPTH 53

LONG 73 47.5 DATE 77/08/27
ONE PERCENT LIGHT DEPTH

TIME 0257

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
126	1	10.0	MONADI	55120	126 4 53
126	1	10.0	DINOFLAGELLATES	22050	126 4 21
126	1	10.0	FLAGELLATA	16540	126 4 16
126	1	10.0	COSINOSIRA OESTRUPII	5071	126 4 5
126	1	10.0	CYCLOTELLA NANA	2434	126 4 2
126	1	10.0	EXUVIELLA MARINA	608	126 4 1
126	1	10.0	THALASSIONEMA NITZSCHIOIDES	405	126 4 0
126	1	10.0	RHIZOLENIA SHRUBSOLEI	405	126 4 0
126	1	10.0	GYMNODINIUM SP.	405	126 4 0
126	1	10.0	NITZSCHIA CLOSTERIUM	405	126 4 0
126	1	10.0	RHIZOLENIA HEBETATA F. SEMISPINA	202	126 4 0
126	1	10.0	CERATIUM FUSUS	202	126 4 0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	9
PERCENT DINOFLAGELLATE/TOTAL	22
PERCENT OTHER/TOTAL	69

LAT 40 15.0
SONIC DEPTH 31

LONG 73 32.2 DATE 77/09/27
ONE PERCENT LIGHT DEPTH

TIME 0530

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
127	1	10.0	DINOFLAGELLATES	33300	127 4 45
127	1	10.0	MONADI	19980	127 4 27
127	1	10.0	COSINOSIRA OESTRUP11	9314	127 4 13
127	1	10.0	FLAGELLATA	6660	127 4 9
127	1	10.0	THALASSIONEMA NITZSCHIOIDES	3186	127 4 4
127	1	10.0	NITZSCHIA CLOSTERIUM	490	127 4 1
127	1	10.0	COSCINOIDISCUS EXCENTRICUS	490	127 4 1
127	1	10.0	PERIDINIUM FAEROENSE	490	127 4 1
127	1	10.0	RHIZOSOLENIA HEBETATA F. SEMISPINA	245	127 4 0
127	1	10.0	CERATIUM TRIPOS	245	127 4 0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	18
PERCENT DINOFLAGELLATE/TOTAL	46
PERCENT OTHER/TOTAL	36

LAT 40 4.0
SONIC DEPTH 41

LONG 73 16.0 DATE 77/08/27
ONE PERCENT LIGHT DEPTH

TIME 0757

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
128	1	0.0 MONADI	137200 313 4	52
128	1	0.0 DINOFLAGELLATES	52760 313 4	20
128	1	0.0 FLAGELLATA	36940 313 4	14
128	1	0.0 COSINOSIRA OESTRUPII	9126 313 4	3
128	1	0.0 CYCLOTELLA NANA	6602 313 4	3
128	1	0.0 THALASSIONEMA NITZSCHIOIDES	4660 313 4	2
128	1	0.0 PROROCENTRUM MICANS	3301 313 4	1
128	1	0.0 EXUVIELLA MARINA	2913 313 4	1
128	1	0.0 CERATIUM LINEATUM	2524 313 4	1
128	1	0.0 GYMNODINIUM SP.	1942 313 4	1
128	1	0.0 LEPTOCYLINDRUS DANICUS	1748 313 4	1
128	1	0.0 CERATIUM FUSUS	776 313 4	0
128	1	0.0 RHIZOSOLENIA DELICATULA	582 313 4	0
128	1	0.0 COSCINODISCUS MARGINATUS	194 313 4	0
128	1	0.0 CERATIUM TRIPOS	194 313 4	0
128	1	0.0 DINOPHYSIS ACUMINATA	194 313 4	0
128	1	0.0 PERIDINIUM FAERENSE	194 313 4	0
128	1	0.0 SYRACOSPHAERA SP.	194 313 4	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 9
PERCENT DINOFLAGELLATE/TOTAL 25
PERCENT OTHER/TOTAL 67

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
128	1	15.0 MONADI	158900 312 4	38
128	1	15.0 DINOFLAGELLATES	95350 312 4	23
128	1	15.0 FLAGELLATA	68860 312 4	17
128	1	15.0 SKELETONEMA COSTATUM	28070 312 4	7
128	1	15.0 CERATIUM LINEATUM	18910 312 4	5
128	1	15.0 PROROCENTRUM MICANS	16570 312 4	4
128	1	15.0 THALASSIONEMA NITZSCHIOIDES	7602 312 4	2
128	1	15.0 COSINOSIRA OESTRUPII	4483 312 4	1
128	1	15.0 GYMNODINIUM SP.	2924 312 4	1
128	1	15.0 RHIZOSOLENIA DELICATULA	1949 312 4	0
128	1	15.0 COSCINODISCUS SP.	1754 312 4	0
128	1	15.0 DISTEPHANUS SPECULUM	1365 312 4	0
128	1	15.0 CORETHRON CRIOPHILUM	1365 312 4	0
128	1	15.0 NITZSCHIA DELICATISSIMA	1365 312 4	0
128	1	15.0 CERATIUM FUSUS	1170 312 4	0
128	1	15.0 EXUVIELLA MARINA	779 312 4	0
128	1	15.0 NITZSCHIA CLOSTERIUM	779 312 4	0
128	1	15.0 CHAETOCEROS DIDYMUS	779 312 4	0
128	1	15.0 CHAETOCEROS DENSUS	779 312 4	0
128	1	15.0 PERIDINIUM BREVIPES	584 312 4	0
128	1	15.0 CYCLOTELLA NANA	389 312 4	0
128	1	15.0 LEPTOCYLINDRUS DANICUS	194 312 4	0
128	1	15.0 DINOPHYSIS ACUMINATA	194 312 4	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 12
PERCENT DINOFLAGELLATE/TOTAL 33
PERCENT OTHER/TOTAL 55

LAT 40 3.8
SONIC DEPTH 41

LONG 73 15.0 DATE 77/08/27
ONE PERCENT LIGHT DEPTH 12.0

TIME 0833

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
128PR	1	0.0	MONADI	90120	405 4 47
128PR	1	0.0	DINOFAGELLATES	55460	405 4 29
128PR	1	0.0	FLAGELLATA	13860	405 4 7
128PR	1	0.0	COSINOSIRA OESTRUPII	8673	405 4 5
128PR	1	0.0	THALASSIONEMA NITZSCHIOIDES	7908	405 4 4
128PR	1	0.0	CYCLOTELLA NANA	4847	405 4 3
128PR	1	0.0	CERATIUM LINEATUM	3827	405 4 2
128PR	1	0.0	PROROCENTRUM MICANS	1786	405 4 1
128PR	1	0.0	GYMNODINIUM SP.	1020	405 4 1
128PR	1	0.0	EXUVIELLA MARINA	765	405 4 0
128PR	1	0.0	CERATIUM FUSUS	510	405 4 0
128PR	1	0.0	DINOPHYSIS ACUMINATA	510	405 4 0
128PR	1	0.0	DISTEPHANUS SPECULUM	510	405 4 0
128PR	1	0.0	COSINODISURS MARGINATUS	255	405 4 0
128PR	1	0.0	COSINODISCUS EXCENTRICUS	255	405 4 0
128PR	1	0.0	RHIZOLENIA SETIGERA	255	405 4 0
128PR	1	0.0	PERIDINIUM TROCHOIDEUM	255	405 4 0
128PR	1	0.0	GYRODINIUM SP.	255	405 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 12
PERCENT DINOFAGELLATE/TOTAL 34
PERCENT OTHER/TOTAL 55

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
128PR	1	12.0	MONADI	70670	406 4 41
128PR	1	12.0	DINOFAGELLATES	44970	406 4 26
128PR	1	12.0	FLAGELLATA	19270	406 4 11
128PR	1	12.0	SKELETONEMA COSTATUM	17020	406 4 10
128PR	1	12.0	PROROCENTRUM MICANS	6619	406 4 4
128PR	1	12.0	CERATIUM LINEATUM	3546	406 4 2
128PR	1	12.0	THALASSIONEMA NITZSCHIOIDES	2128	406 4 1
128PR	1	12.0	LEPTOCYLINDRUS DANICUS	1418	406 4 1
128PR	1	12.0	CYCLOTELLA NANA	1182	406 4 1
128PR	1	12.0	EXUVIELLA MARINA	1182	406 4 1
128PR	1	12.0	CERATAULINA PELAGICA	945	406 4 1
128PR	1	12.0	CERATIUM FUSUS	709	406 4 0
128PR	1	12.0	GYRODINIUM SP.	472	406 4 0
128PR	1	12.0	EBRIA TRIPARTITA	472	406 4 0
128PR	1	12.0	CORETHRON CRIOPHILUM	236	406 4 0
128PR	1	12.0	RHIZOLENIA HEBETATA F. SEMISPINA	236	406 4 0
128PR	1	12.0	DINOPHYSIS ACUMINATA	236	406 4 0
128PR	1	12.0	DISTEPHANUS SPECULUM	236	406 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 14
PERCENT DINOFAGELLATE/TOTAL 34
PERCENT OTHER/TOTAL 53

LAT 39 56.3
SONIC DEPTH 68

LONG 73 7.4 DATE 77/08/27
ONE PERCENT LIGHT DEPTH

TIME 1020

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
129	1	10.0	DINOFAGELLATES	30460	129 4 39
129	1	10.0	FLAGELLATA	24370	129 4 31
129	1	10.0	MONADI	18280	129 4 24
129	1	10.0	NITZSCHIA CLOSTERIUM	1345	129 4 2
129	1	10.0	COSINOSIRA OESTRUPII	896	129 4 1
129	1	10.0	GYMNODINIUM SP.	672	129 4 1
129	1	10.0	OXYTOXUM SPHAEROIDEUM	448	129 4 1
129	1	10.0	COSCINODISCUS EXCENTRICUS	224	129 4 0
129	1	10.0	CHAETOCEROS AFFINIS V. WILLEI	224	129 4 0
129	1	10.0	PERIDINIUM TROCHOIDEUM	224	129 4 0
129	1	10.0	OXYTOXUM SCOLOPAX	224	129 4 0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	3
PERCENT DINOFAGELLATE/TOTAL	41
PERCENT OTHER/TOTAL	55

LAT 39 52.9
SONIC DEPTH 70

LONG 73 2.5 DATE 77/08/27
ONE PERCENT LIGHT DEPTH

TIME 1133

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
130	1	10.0	FLAGELLATA	50430	130 4 71
130	1	10.0	DINOFLLAGELLATES	16810	130 4 24
130	1	10.0	RHIZOSOLENIA ALATA V. GRACILLIMA	1031	130 4 1
130	1	10.0	MONADI	1031	130 4 1
130	1	10.0	PERIDINIUM TROCHOIDEUM *	618	130 4 1
130	1	10.0	COSINOSIRA OESTRUPII	412	130 4 1
130	1	10.0	RHIZOSOLENIA HEBETATA F. SEMISPINA	206	130 4 0
130	1	10.0	NITZSCHIA CLOSTERIUM	206	130 4 0
130	1	10.0	PROROCENTRUM MICANS	206	130 4 0
130	1	10.0	CERATIUM TRIPOS	206	130 4 0
130	1	10.0	PERIDINIUM BREVIPIES	206	130 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

3
25
72

LAT 39 52.7
SONIC DEPTH 53

LONG 72 44.5 DATE 77/08/27
ONE PERCENT LIGHT DEPTH

TIME 1358

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
131	1	25.0	FLAGELLATA	21650	131 4 53
131	1	25.0	DINOFAGELLATES	18240	131 4 40
131	1	25.0	NAVICULA SP.	1195	131 4 3
131	1	25.0	CORETHRON CRIOPHILUM	398	131 4 1
131	1	25.0	CHAETOCEROS AFFINIS V. HILLEI	398	131 4 1
131	1	25.0	GUINARDIA FLACCIDA	398	131 4 1
131	1	25.0	COSCIINODISCUS SP.	199	131 4 0
131	1	25.0	GYRODINIUM SP.	199	131 4 0
131	1	25.0	GYMNODINIUM SP.	199	131 4 0
131	1	25.0	COCCOLITHOPHORES	199	131 4 0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	6
PERCENT DINOFAGELLATE/TOTAL	41
PERCENT OTHER/TOTAL	53

LAT 39 52.6
SONIC DEPTH 66

LONG 72 33.2 DATE 77/08/27
ONE PERCENT LIGHT DEPTH

TIME 1527

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

130	1	40.0	COSCIINODISCUS EXCENTRICUS	22600	132	4	51
130	1	40.0	DINOFAGELLATES	5435	132	4	12
130	1	40.0	FLAGELLATA	5435	132	4	12
130	1	40.0	NITZSCHIA DELICATISSIMA	5000	132	4	11
130	1	40.0	DACTYLIOSOLEN MEDITERRANEUS	4200	132	4	10
130	1	40.0	NITZSCHIA SERTIATA	900	132	4	2
130	1	40.0	PROROCENTRUM MICANS	200	132	4	0
130	1	40.0	PERIDINIUM TROCHOIDEUM	200	132	4	0
130	1	40.0	GYMNODINIUM SP.	200	132	4	0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	74
PERCENT DINOFAGELLATE/TOTAL	14
PERCENT OTHER/TOTAL	12

LAT 39 48.0
SONIC DEPTH 76

LONG 72 27.0 DATE 77/08/27
ONE PERCENT LIGHT DEPTH

TIME 1703

STA	CAS	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
133	1	9.0	D'NOFLAGELLATES	15180	133 4 87
133	1	9.0	RHIZOSOLENIA HEBETATA F. SEMISPINA	744	133 4 4
133	1	9.0	DACTYLIOSOLEN MEDITERRANEUS	558	133 4 3
133	1	9.0	RHIZOSOLENIA ALATA V. GRACILLIMA	186	133 4 1
133	1	9.0	DITYLUM BRIGHTWELLII	186	133 4 1
133	1	9.0	CERATIUM TRIPOS	186	133 4 1
133	1	9.0	PERIDINIUM SP.	186	133 4 1
133	1	9.0	PERIDINIUM TROCHOIDEUM	186	133 4 1

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

10
90
0

LAT 39 45.3
SONIC DEPTH 86

LONG 72 22.0 DATE 77/08/27
ONE PERCENT LIGHT DEPTH

TIME 1823

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
134	1	10.0	FLAGELLATA	9810	134 4 56
134	1	10.0	LEPTOCYLINDRUS MINIMUS	3430	134 4 20
134	1	10.0	NITZSCHIA SERTIATA	1264	134 4 7
134	1	10.0	RHIZOSOLENIA ALATA V. GRACILLIMA	1083	134 4 6
134	1	10.0	NAVICULA SP.	722	134 4 4
134	1	10.0	CHAETOCEROS SP.	722	134 4 4
134	1	10.0	RHIZOSOLENIA HEBETATA F. SEMISPINA	361	134 4 2
134	1	10.0	RHIZOSOLENIA CALCAR AVIS	180	134 4 1

TOTAL CELLS	
PERCENT DIATOM/TOTAL	44
PERCENT DINOFLAGELLATE/TOTAL	0
PERCENT OTHER/TOTAL	56

LAT 39 58.7
SONIC DEPTH 66

LONG 72 23.5 DATE 77/09/27
ONE PERCENT LIGHT DEPTH

TIME 2120

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
135	1	30.0	DACTYLIOSOLEN MEDITERRANEUS	3558 135 4	59
135	1	30.0	NITZSCHIA SERTIATA	1498 135 4	25
135	1	30.0	DISTEPHANUS SPECULUM	374 135 4	6
135	1	30.0	RHIZOSOLENIA SETIGERA	187 135 4	3
135	1	30.0	PERIDINIUM SP.	187 135 4	3
135	1	30.0	RHABDOSPHAERA CLAVIGER	187 135 4	3

TOTAL CELLS	
PERCENT DIATOM/TOTAL	88
PERCENT DINOFLAGELLATE/TOTAL	3
PERCENT OTHER/TOTAL	9

LAT 40 2.5
SONIC DEPTH 65

LONG 72 24.0 DATE 77/08/27
ONE PERCENT LIGHT DEPTH

TIME 2245

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

136	1	30.0	DACTYLIOSOLEN MEDITERRANEUS
136	1	30.0	GYMNODINIUM SP.
136	1	30.0	COSCINODISCUS EXCENTRICUS
136	1	30.0	COSCINODISCUS CONCINNUS
136	1	30.0	COSCINODISCUS SP.
136	1	30.0	DINOPHYSIS ACUMINATA
136	1	30.0	CERATIUM EXTENSUM
136	1	30.0	PERIDINIUM SP.

10470	136	4
209	136	4
209	136	4
104	136	4
104	136	4
104	136	4
104	136	4
104	136	4

92
2
2
1
1
1
1
1

TOTAL CELLS	
PERCENT DIATOM/TOTAL	95
PERCENT DINOFLAGELLATE/TOTAL	5
PERCENT OTHER/TOTAL	0

LAT 40 7.5
SONIC DEPTH 66

LONG 72 23.8 DATE 77/08/28
ONE PERCENT LIGHT DEPTH

TIME 0014

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

137	1	10.0	NITZSCHIA CLOSTERIUM
137	1	10.0	THALASSIONEMA NITZSCHIOIDES
137	1	10.0	RHIZOSOLENIA CALCAR AVIS
137	1	10.0	MONADI

585	137	4	40
585	137	4	40
146	137	4	10
146	137	4	10

TOTAL CELLS	
PERCENT DIATOM/TOTAL	90
PERCENT DINOFLAGELLATE/TOTAL	0
PERCENT OTHER/TOTAL	10

LAT 40 12.0
SONIC DEPTH 64

LONG 72 24.5 DATE 77/08/28
ONE PERCENT LIGHT DEPTH

TIME 0127

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
138	1	10.0	DINOFAGELLATES	4275 138 4	60
138	1	10.0	LEPTOCYLINDRUS DANICUS	1101 138 4	15
138	1	10.0	CHAETOCEROS AFFINIS V. WILLEI	629 138 4	9
138	1	10.0	THALASSIONEMA NITZSCHIOIDES	314 138 4	4
138	1	10.0	NITZSCHIA CLOSTERIUM	157 138 4	2
138	1	10.0	PERIDINIUM TROCHOIDEUM	157 138 4	2
138	1	10.0	PERIDINIUM SP.	157 138 4	2
138	1	10.0	GYMNODINIUM SP.	157 138 4	2
138	1	10.0	MONADI	157 138 4	2

TOTAL CELLS	
PERCENT DIATOM/TOTAL	31
PERCENT DINOFAGELLATE/TOTAL	67
PERCENT OTHER/TOTAL	2

LAT 40 21.0
SONIC DEPTH 53

LONG 72 24.6 DATE 77/08/28
ONE PERCENT LIGHT DEPTH

TIME 0312

STA CAST DEPTH(M)

SPECIES

(NO./L)

PERCENTAGES

139	1	10.0	RHIZOSOLENIA ALATA V. GRACILLIMA
139	1	10.0	NITZSCHIA CLOSTERIUM
139	1	10.0	THALASSIONEMA NITZSCHIOIDES
139	1	10.0	RHIZOSOLENIA SETIGERA
139	1	10.0	COSINODISURS MARGINATUS
139	1	10.0	COSINODISCUS SP.

542	139	4
407	139	4
407	139	4
271	139	4
271	139	4
135	139	4

27
20
20
13
13
7

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

100
0
0

LAT 40 32.9
SONIC DEPTH 41

LONG 72 26.1 DATE 77/08/28
ONE PERCENT LIGHT DEPTH

TIME 0447

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
140	1	20.0	MONADI	19350	140 4 50
140	1	20.0	FLAGELLATA	15480	140 4 40
140	1	20.0	THALASSIONEMA NITZSCHIODES	1567	140 4 4
140	1	20.0	COSINODISURS MARGINATUS	569	140 4 1
140	1	20.0	THALASSIOSIRA DECIPiens	427	140 4 1
140	1	20.0	DISTEPHANUS SPECULUM	284	140 4 1
140	1	20.0	GYMNODINIUM SP.	284	140 4 1
140	1	20.0	DISTEPHANUS CRUX	142	140 4 0
140	1	20.0	CERATIUM EXTENSUM	142	140 4 0
140	1	20.0	PERIDINIUM SP.	142	140 4 0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	7
PERCENT DINOFLAGELLATE/TOTAL	1
PERCENT OTHER/TOTAL	92

LAT 40 46.2
SONIC DEPTH 29

LONG 72 30.7 DATE 77/08/28
ONE PERCENT LIGHT DEPTH

TIME 0710

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
141PR	1	0.0	SKELETONEMA COSTATUM	1659000	407 4 88
141PR	1	0.0	NITZSCHIA DELICATISSIMA	114300	407 4 6
141PR	1	0.0	MONADI	24300	407 4 1
141PR	1	0.0	CERATIUM LINEATUM	15050	407 4 1
141PR	1	0.0	FLAGELLATA	12150	407 4 1
141PR	1	0.0	PROROCENTRUM MICANS	8048	407 4 0
141PR	1	0.0	THALASSIONEMA NITZSCHIOIDES	7452	407 4 0
141PR	1	0.0	LEPTOCYLINDRUS DANCUS	7303	407 4 0
141PR	1	0.0	EXUVIELLA MARINA	6557	407 4 0
141PR	1	0.0	NITZSCHIA SERTIATA	4173	407 4 0
141PR	1	0.0	DINOFLAGELLATES	4050	407 4 0
141PR	1	0.0	CHAETOCEROS DIFFICILE	2832	407 4 0
141PR	1	0.0	EBRIA TRIPARTITA	2384	407 4 0
141PR	1	0.0	CERATIUM FUSUS	2086	407 4 0
141PR	1	0.0	FRAGILARIA SP.	1490	407 4 0
141PR	1	0.0	CERATAULINA SP.	1192	407 4 0
141PR	1	0.0	LEPTOCYLINDRUS MINIMUS	1192	407 4 0
141PR	1	0.0	CHAETOCEROS DIDYMUS	1192	407 4 0
141PR	1	0.0	CHAETOCEROS DEBILE	894	407 4 0
141PR	1	0.0	COSCINODISCUS SP.	745	407 4 0
141PR	1	0.0	COSINOSIRA OESTRUPII	745	407 4 0
141PR	1	0.0	CHAETOCEROS SP.	596	407 4 0
141PR	1	0.0	CHAETOCEROS SIMPLEX	596	407 4 0
141PR	1	0.0	OTYLUM BRIGHTWELLII	596	407 4 0
141PR	1	0.0	LITHODESMIUM UNOLATUM	596	407 4 0
141PR	1	0.0	EUCAMPIA ZODIACUS	298	407 4 0
141PR	1	0.0	CHAETOCEROS AFFINIS V. WILLEI	298	407 4 0
141PR	1	0.0	DISTEPHANUS SPECULUM	298	407 4 0
141PR	1	0.0	NITZSCHIA CLOSTERIUM	149	407 4 0
141PR	1	0.0	CHAETOCEROS DENSUS	149	407 4 0
141PR	1	0.0	CORETHRON CRIOPHILUM	149	407 4 0
141PR	1	0.0	DINOPHYSIS ACUMINATA	149	407 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 96
PERCENT DINOFLAGELLATE/TOTAL 2
PERCENT OTHER/TOTAL 2

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
141PR	1	21.0	SKELETONEMA COSTATUM	38100	408 4 49
141PR	1	21.0	THALASSIONEMA NITZSCHIOIDES	9300	408 4 12
141PR	1	21.0	FLAGELLATA	8152	408 4 10
141PR	1	21.0	MONADI	8152	408 4 10
141PR	1	21.0	DISTEPHANUS SPECULUM	3400	408 4 4
141PR	1	21.0	NITZSCHIA DELICATISSIMA	2800	408 4 4
141PR	1	21.0	COSINOSIRA OESTRUPII	2000	408 4 3
141PR	1	21.0	CORETHRON CRIOPHILUM	1600	408 4 2
141PR	1	21.0	COSCINODISCUS EXCENTRICUS	800	408 4 1
141PR	1	21.0	EXUVIELLA MARINA	800	408 4 1
141PR	1	21.0	NITZSCHIA CLOSTERIUM	600	408 4 1
141PR	1	21.0	COSCINODISCUS LINEATUS	400	408 4 1
141PR	1	21.0	COSCINODISCUS SP.	400	408 4 1
141PR	1	21.0	EBRIA TRIPARTITA	400	408 4 1
141PR	1	21.0	THALASSIOSIRA DECIPIENS	400	408 4 1
141PR	1	21.0	CERATIUM LINEATUM	300	408 4 0
141PR	1	21.0	GYMNODINIUM SP.	300	408 4 0
141PR	1	21.0	DINOPHYSIS ACUMINATA	200	408 4 0
141PR	1	21.0	PERIDINIUM SP.	200	408 4 0
141PR	1	21.0	COSINODISCUS MARGINATUS	100	408 4 0
141PR	1	21.0	RHIZOSOLENIA SHRUBSOLEI	100	408 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 72
PERCENT DINOFLAGELLATE/TOTAL 2
PERCENT OTHER/TOTAL 26

LAT 40 46.5
SONIC DEPTH 28

LONG 72 31.5 DATE 77/08/29
ONE PERCENT LIGHT DEPTH

TIME 0908

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
147	1	0.0	SKELETONEMA COSTATUM	1199000	147 4 87
147	1	0.0	NITZSCHIA DELICATISSIMA	93860	147 4 7
147	1	0.0	FLAGELLATA	35810	147 4 3
147	1	0.0	CERATIUM LINEATUM	14790	147 4 1
147	1	0.0	MONADI	7957	147 4 1
147	1	0.0	DINOFAGELLATES	3979	147 4 0
147	1	0.0	EBRIA TRIPARTITA	3221	147 4 0
147	1	0.0	LEPTOCYLINDRUS DANICUS	2782	147 4 0
147	1	0.0	NITZSCHIA SERTIATA	2489	147 4 0
147	1	0.0	EXUVIELLA MARINA	2343	147 4 0
147	1	0.0	THALASSIONEMA NITZSCHIOIDES	2196	147 4 0
147	1	0.0	PROROCENTRUM MICANS	1903	147 4 0
147	1	0.0	THALASSIOSIRA DECIPiens	1464	147 4 0
147	1	0.0	CHAETOCEROS DIDYMUS	1171	147 4 0
147	1	0.0	CHAETOCEROS DIFFICILE	878	147 4 0
147	1	0.0	HEMIAULUS SP	732	147 4 0
147	1	0.0	LEPTOCYLINDRUS MINIMUS	585	147 4 0
147	1	0.0	NITZSCHIA CLOSTERIUM	292	147 4 0
147	1	0.0	CERATIUM FUSUS	292	147 4 0
147	1	0.0	CHAETOCEROS SIMPLEX	146	147 4 0
147	1	0.0	CHAETOCEROS GRACILE	146	147 4 0
147	1	0.0	DITYLUM BRIGHTWELLII	146	147 4 0
147	1	0.0	PERIDINIUM TROCHOIDEUM	146	147 4 0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	95
PERCENT DINOFAGELLATE/TOTAL	2
PERCENT OTHER/TOTAL	3

LAT 40 46.5
SONIC DEPTH 28

LONG 72 31.5 DATE 77/08/29
ONE PERCENT LIGHT DEPTH

TIME 0712

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
147PR	1	0.0	SKELETONEMA COSTATUM	1281000	409 4
147PR	1	0.0	NITZSCHIA DELICATISSIMA	146300	409 4
147PR	1	0.0	MONADI	27040	409 4
147PR	1	0.0	LEPTOCYLINDRUS DANICUS	10280	409 4
147PR	1	0.0	CERATIUM LINEATUM	9121	409 4
147PR	1	0.0	FLAGELLATA	9013	409 4
147PR	1	0.0	DINOFAGELLATES	9013	409 4
147PR	1	0.0	THALASSIONEMA NITZSCHIOIDES	4809	409 4
147PR	1	0.0	EBRIA TRIPARTITA	4312	409 4
147PR	1	0.0	LEPTOCYLINDRUS MINIMUS	3814	409 4
147PR	1	0.0	EXUVIELLA MARINA	3648	409 4
147PR	1	0.0	EUCAMPIA ZODIACUS	2985	409 4
147PR	1	0.0	CERATAULINA SP.	2322	409 4
147PR	1	0.0	NITZSCHIA SERTIATA	2156	409 4
147PR	1	0.0	PROROCENTRUM MICANS	1990	409 4
147PR	1	0.0	THALASSIOSIRA DECIPIENS	1990	409 4
147PR	1	0.0	CHAETOCEROS SP.	995	409 4
147PR	1	0.0	CYCLOTELLA NANA	663	409 4
147PR	1	0.0	CHAETOCEROS SIMPLEX	497	409 4
147PR	1	0.0	GYMNODINIUM SP.	497	409 4
147PR	1	0.0	CERATIUM FUSUS	497	409 4
147PR	1	0.0	NITZSCHIA CLOSTERIUM	331	409 4
147PR	1	0.0	LITHODESMIUM UNDULATUM	331	409 4
147PR	1	0.0	CORETHRON CRIOPHILUM	331	409 4
147PR	1	0.0	COSCIINODISCUS LINEATUS	331	409 4
147PR	1	0.0	RHIZOSOLENIA SETIGERA	165	409 4
147PR	1	0.0	RHIZOSOLENIA SHRUBSOLEI	165	409 4
147PR	1	0.0	DITYLUM BRIGHTWELLII	165	409 4
147PR	1	0.0	PERIDINIUM OBLONGUS	165	409 4
147PR	1	0.0	GYRODINIUM SP.	165	409 4

TOTAL CELLS
PERCENT DIATOM/TOTAL 96
PERCENT DINOFAGELLATE/TOTAL 2
PERCENT OTHER/TOTAL 3

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
147PR	1	14.0	SKELETONEMA COSTATUM	63090	410 4
147PR	1	14.0	MONADI	22120	410 4
147PR	1	14.0	CERATIUM LINEATUM	18180	410 4
147PR	1	14.0	EXUVIELLA MARINA	8141	410 4
147PR	1	14.0	FLAGELLATA	3687	410 4
147PR	1	14.0	DISTEPHANUS SPECULUM	3392	410 4
147PR	1	14.0	THALASSIONEMA NITZSCHIOIDES	3256	410 4
147PR	1	14.0	PROROCENTRUM MICANS	1357	410 4
147PR	1	14.0	NITZSCHIA DELICATISSIMA	1221	410 4
147PR	1	14.0	COSCIINODISCUS SP.	814	410 4
147PR	1	14.0	THALASSIOSIRA DECIPIENS	678	410 4
147PR	1	14.0	EBRIA TRIPARTITA	542	410 4
147PR	1	14.0	CHAETOCEROS DIFFICILE	542	410 4
147PR	1	14.0	LEPTOCYLINDRUS DANICUS	407	410 4
147PR	1	14.0	CERATIUM FUSUS	271	410 4
147PR	1	14.0	GYMNODINIUM SP.	271	410 4
147PR	1	14.0	DINOPHYSIS ACUMINATA	271	410 4
147PR	1	14.0	NITZSCHIA CLOSTERIUM	135	410 4
147PR	1	14.0	COSCIINODISCUS EXCENTRICUS	135	410 4
147PR	1	14.0	GYROSIGMA SP.	135	410 4
147PR	1	14.0	CERATIUM TRIPOS	135	410 4
147PR	1	14.0	GYRODINIUM SP.	135	410 4

TOTAL CELLS
PERCENT DIATOM/TOTAL 55
PERCENT DINOFAGELLATE/TOTAL 22
PERCENT OTHER/TOTAL 23

LAT 40 30.4
SONIC DEPTH 53

LONG 12 16.5 DATE 77/08/29
ONE PERCENT LIGHT DEPTH

TIME 1138

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
148	1	19.0	FLAGELLATA	4279	148 4 39
148	1	19.0	COSCINODISCUS SP.	2047	148 4 19
148	1	19.0	COSINODISURS MARGINATUS	1260	148 4 11
148	1	19.0	THALASSIOSIRA DECIPiens	629	148 4 6
148	1	19.0	CYCLOTELLA NANA	629	148 4 6
148	1	19.0	COSCINODISCUS EXCENTRICUS	629	148 4 6
148	1	19.0	THALASSIONEMA NITZSCHIOIDES	629	148 4 6
148	1	19.0	GYRODINIUM SP.	315	148 4 3
148	1	19.0	CERATIUM TRIPOS	157	148 4 1
148	1	19.0	CERATIUM LINEATUM	157	148 4 1
148	1	19.0	CERATIUM FUSUS	157	148 4 1
148	1	19.0	DISTEPHANUS SPECULUM	157	148 4 1

TOTAL CELLS	
PERCENT DIATOM/TOTAL	53
PERCENT DINOFLAGELLATE/TOTAL	7
PERCENT OTHER/TOTAL	40

LAT 40 20.0
SONIC DEPTH 61

LONG 72 8.5 DATE 77/08/29
ONE PERCENT LIGHT DEPTH

TIME 1411

STA	CASE	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
149	1	20.0	DINOFAGELLATES	21740	149 4 86
149	1	20.0	THALASSIONEMA NITZSCHIOIDES	800	149 4 3
149	1	20.0	DINOPHYSIS ACUMINATA	600	149 4 2
149	1	20.0	EXUVIELLA MARINA	600	149 4 2
149	1	20.0	COSINOSTRA OESTRUPII	400	149 4 2
149	1	20.0	CERATIUM FUSUS	400	149 4 2
149	1	20.0	PERIDINIUM SP.	400	149 4 2
149	1	20.0	NITZSCHIA CLOSTERIUM	200	149 4 1
149	1	20.0	COSCONODISCUS EXCENTRICUS	200	149 4 1

TOTAL CELLS	
PERCENT DIATOM/TOTAL	6
PERCENT DINOFAGELLATE/TOTAL	94
PERCENT OTHER/TOTAL	0

LAT 40 14.5
SONIC DEPTH 66

LONG 72 4.0 DATE 77/08/29
ONE PERCENT LIGHT DEPTH

TIME 1543

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
150	1	20.0	MONADI	9386	150 4 46
150	1	20.0	FLAGELLATA	9386	150 4 46
150	1	20.0	THALASSIONEMA NITZSCHIOIDES	690	150 4 3
150	1	20.0	DINOPHYSIS ACUMINATA	518	150 4 3
150	1	20.0	COSCINODISCUS SP.	172	150 4 1
150	1	20.0	GYMNODINIUM SP.	172	150 4 1

TOTAL CELLS	
PERCENT DIATOM/TOTAL	4
PERCENT DINOFLAGELLATE/TOTAL	3
PERCENT OTHER/TOTAL	92

LAT 40 8.0
SONIC DEPTH 72

LONG 71 58.0 DATE 77/08/29
ONE PERCENT LIGHT DEPTH

TIME 1707

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGE'S
151	1	35.0	FIAGELLATA	14130	151 4 88
151	1	35.0	COSCONODISCUS SP.	866	151 4 5
151	1	35.0	COSCONODISCUS EXCENTRICUS	519	151 4 3
151	1	35.0	EXUVIELLA MARINA	173	151 4 1
151	1	35.0	PERIDINIUM SP.	173	151 4 1
151	1	35.0	GYMNODINIUM SP.	173	151 4 1

TOTAL CELLS	
PERCENT DIATOM/TOTAL	9
PERCENT DINOFLAGELLATE/TOTAL	3
PERCENT OTHER/TOTAL	88

LAT 40 2.3
SONIC DEPTH 82

LONG 71 53.5 DATE 77/08/29
ONE PERCENT LIGHT DEPTH

TIME 1900

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
152	1	40.0	COSCIINODISCUS EXCENTRICUS	13600	152 4 42
152	1	40.0	DACTYLIOSOLEN MEDITERRANEUS	7704	152 4 24
152	1	40.0	DINOFLAGELLATES	4105	152 4 13
152	1	40.0	EXUVIELLA MARINA	2970	152 4 9
152	1	40.0	PERIDINIUM SP.	2266	152 4 7
152	1	40.0	NITZSCHIA DELICATISSIMA	755	152 4 2
152	1	40.0	GYMNODINIUM SP.	604	152 4 2
152	1	40.0	COSCIINODISCUS SP.	151	152 4 0
152	1	40.0	COSCIINODISCUS CONCIINUS	151	152 4 0
152	1	40.0	LITHODESMIUM UNDULATUM	151	152 4 0
152	1	40.0	DINOPHYSIS ACUMINATA	151	152 4 0
152	1	40.0	OXYTOXUM GLADIOLUS	151	152 4 0

TOTAL CELLS	69
PERCENT DIATOM/TOTAL	31
PERCENT DINOFLAGELLATE/TOTAL	0
PERCENT OTHER/TOTAL	

LAT 41 4.9
SONIC DEPTH 53

LONG 71 42.8 DATE 77/08/30
ONE PERCENT LIGHT DEPTH

TIME 0557

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
155	1	10.0	SKELETONEMA COSTATUM	340500	155 4 86
155	1	10.0	MONADI	21260	155 4 5
155	1	10.0	NITZSCHIA DELICATISSIMA	14340	155 4 4
155	1	10.0	THALASSIONEMA NITZSCHIOIDES	3520	155 4 1
155	1	10.0	THALASSIOSIRA DECIPIENS	2347	155 4 1
155	1	10.0	COSCIINODISCUS SP.	1304	155 4 0
155	1	10.0	MELOSIRA MONILIFORMIS	1043	155 4 0
155	1	10.0	NITZSCHIA CLOSTERIUM	912	155 4 0
155	1	10.0	LEPTOCYLINDRUS DANICUS	912	155 4 0
155	1	10.0	RHIZOLENIA DELICATULA	782	155 4 0
155	1	10.0	EXUVIELLA MARINA	782	155 4 0
155	1	10.0	CHAETOCEROS SP.	782	155 4 0
155	1	10.0	DISTEPHANUS SPECULUM	651	155 4 0
155	1	10.0	LEPTOCYLINDRUS MINIMUS	651	155 4 0
155	1	10.0	CERATIUM LINEATUM	651	155 4 0
155	1	10.0	CORETHRON CRIOPHILUM	521	155 4 0
155	1	10.0	EBRIA TRIPARTITA	521	155 4 0
155	1	10.0	COSCIINODISCUS EXCENTRICUS	521	155 4 0
155	1	10.0	ASTERIONELLA JAPONICA	521	155 4 0
155	1	10.0	CHAETOCEROS GRACILE	391	155 4 0
155	1	10.0	CHAETOCEROS DIDYMUS	391	155 4 0
155	1	10.0	CYCLOTELLA NANA	260	155 4 0
155	1	10.0	PLEUROSIGMA SP.	260	155 4 0
155	1	10.0	PROROCENTRUM MICANS	260	155 4 0
155	1	10.0	CERATIUM FUSUS	130	155 4 0
155	1	10.0	GYMNODINIUM SP.	130	155 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 94
PERCENT DINOFLAGELLATE/TOTAL 0
PERCENT OTHER/TOTAL 6

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
155	1	20.0	SKELETONEMA COSTATUM	210500	155 4 80
155	1	20.0	MONADI	17710	155 4 7
155	1	20.0	FLAGELLATA	10630	155 4 4
155	1	20.0	NITZSCHIA DELICATISSIMA	4563	155 4 2
155	1	20.0	RHIZOLENIA DELICATULA	4563	155 4 2
155	1	20.0	THALASSIONEMA NITZSCHIOIDES	2216	155 4 1
155	1	20.0	CERATIUM LINEATUM	1695	155 4 1
155	1	20.0	COSCIINODISCUS SP.	1565	155 4 1
155	1	20.0	THALASSIOSIRA DECIPIENS	1304	155 4 0
155	1	20.0	ASTERIONELLA JAPONICA	1043	155 4 0
155	1	20.0	DISTEPHANUS SPECULUM	1043	155 4 0
155	1	20.0	CHAETOCEROS DEBILE	912	155 4 0
155	1	20.0	EXUVIELLA MARINA	782	155 4 0
155	1	20.0	PROROCENTRUM MICANS	651	155 4 0
155	1	20.0	MELOSIRA MONILIFORMIS	521	155 4 0
155	1	20.0	CHAETOCEROS DIDYMUS	391	155 4 0
155	1	20.0	LEPTOCYLINDRUS MINIMUS	391	155 4 0
155	1	20.0	EBRIA TRIPARTITA	391	155 4 0
155	1	20.0	CORETHRON CRIOPHILUM	391	155 4 0
155	1	20.0	NITZSCHIA SERTIATA	260	155 4 0
155	1	20.0	COSCIINODISCUS EXCENTRICUS	260	155 4 0
155	1	20.0	NITZSCHIA CLOSTERIUM	130	155 4 0
155	1	20.0	CHAETOCEROS GRACILE	130	155 4 0
155	1	20.0	CHAETOCEROS SIMPLEX	130	155 4 0
155	1	20.0	PLEUROSIGMA SP.	130	155 4 0
155	1	20.0	PERIDINIUM SP.	130	155 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 87
PERCENT DINOFLAGELLATE/TOTAL 1
PERCENT OTHER/TOTAL 11

R/V CAPE HENLOPEN CRUISE
NOVEMBER 1977

R/V Cape Henlopen: Station Locations

LAT 40 20.4
SONIC DEPTH 0023

LONG 073 54.5 DATE 77/11/18
ONE PERCENT LIGHT DEPTH 12.3

TIME 1346

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
1	1	0.0	ASTERIONELLA JAPONICA	9100	HI 4 20
1	1	0.0	SKELETONEMA COSTATUM	8200	HI 4 18
1	1	0.0	RHIZOLENIA DELICATULA	8000	HI 4 18
1	1	0.0	CORETHRON CRIOPHILUM	2800	HI 4 6
1	1	0.0	MELOSIRA NUMMULOIDES	2400	HI 4 5
1	1	0.0	CERATIUM FURCA	2100	HI 4 5
1	1	0.0	THALASSIOSIRA GRAVIDA	1900	HI 4 4
1	1	0.0	THALASSIONEMA NITZSCHIOIDES	1600	HI 4 4
1	1	0.0	PROROCENTRUM SP.	1300	HI 4 3
1	1	0.0	COSCIINODISCUS SP.	1200	HI 4 3
1	1	0.0	SILICA FLAGELLATE	1100	HI 4 2
1	1	0.0	RHIZOLENIA ALATA	1000	HI 4 2
1	1	0.0	NAVICULA SP.	900	HI 4 2
1	1	0.0	CERATIUM TRIPOS	500	HI 4 1
1	1	0.0	GYMNODINIUM SP.	500	HI 4 1
1	1	0.0	STEPHANOPYXIS TURRIS	400	HI 4 1
1	1	0.0	LEPTOCYLINDRUS MINIMUS	300	HI 4 1
1	1	0.0	TRICERATIUM SP.	300	HI 4 1
1	1	0.0	NITZSCHIA PUNGENS V. ATLANTICA	300	HI 4 1
1	1	0.0	THALASSIOSIRA HYALINA	200	HI 4 0
1	1	0.0	RHIZOLENIA SETIGERA	200	HI 4 0
1	1	0.0	SILIATE	200	HI 4 0
1	1	0.0	DINOPHYSIS ACUTA	200	HI 4 0
1	1	0.0	NITZSCHIA CLOSTERIUM	100	HI 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 87
PERCENT DINOFLAGELLATE/TOTAL 10
PERCENT OTHER/TOTAL 3

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
1	1	3.0	SKELETONEMA COSTATUM	12100	HI 4 30
1	1	3.0	RHIZOLENIA DELICATULA	5000	HI 4 12
1	1	3.0	ASTERIONELLA JAPONICA	4800	HI 4 12
1	1	3.0	THALASSIONEMA NITZSCHIOIDES	2800	HI 4 7
1	1	3.0	CORETHRON CRIOPHILUM	2600	HI 4 6
1	1	3.0	LEPTOCYLINDRUS MINIMUS	2300	HI 4 6
1	1	3.0	CERATIUM FURCA	1700	HI 4 4
1	1	3.0	MELOSIRA NUMMULOIDES	1600	HI 4 4
1	1	3.0	COSCIINODISCUS SP.	1600	HI 4 4
1	1	3.0	STEPHANOPYXIS TURRIS	1000	HI 4 2
1	1	3.0	PROROCENTRUM SP.	800	HI 4 2
1	1	3.0	SILICA FLAGELLATE	700	HI 4 2
1	1	3.0	THALASSIOSIRA GRAVIDA	700	HI 4 2
1	1	3.0	NAVICULA SP.	700	HI 4 2
1	1	3.0	CERATIUM TRIPOS	400	HI 4 1
1	1	3.0	GYMNODINIUM SP.	400	HI 4 1
1	1	3.0	NITZSCHIA CLOSTERIUM	300	HI 4 1
1	1	3.0	RHIZOLENIA ALATA	300	HI 4 1
1	1	3.0	DINOPHYSIS ACUTA	200	HI 4 0
1	1	3.0	NITZSCHIA PUNGENS V. ATLANTICA	200	HI 4 0
1	1	3.0	THALASSIOSIRA HYALINA	100	HI 4 0
1	1	3.0	CHAETOCEROS GRACILE	100	HI 4 0
1	1	3.0	DITYLUM BRIGHTWELLII	100	HI 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 90
PERCENT DINOFLAGELLATE/TOTAL 9
PERCENT OTHER/TOTAL 2

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
1	1	5.0	SKELETONEMA COSTATUM	14300	H3 4 27
1	1	5.0	ASTERIONELLA JAPONICA	11200	H3 4 21
1	1	5.0	RHIZOLENIA DELICATULA	8500	H3 4 16
1	1	5.0	LEPTOCYLINDRUS MINIMUS	2600	H3 4 5
1	1	5.0	CERATIUM FURCA	2300	H3 4 4
1	1	5.0	CORETHRON CRIOPHILUM	2200	H3 4 4
1	1	5.0	THALASSIONEMA NITZSCHIOIDES	1600	H3 4 3
1	1	5.0	NITZSCHIA PUNGENS V. ATLANTICA	1300	H3 4 2
1	1	5.0	COSCIINODISCUS SP.	1100	H3 4 2
1	1	5.0	SILICA FLAGELLATE	1000	H3 4 2
1	1	5.0	PROROCENTRUM SP.	1000	H3 4 2
1	1	5.0	THALASSIOSIRA GRAVIDA	900	H3 4 2
1	1	5.0	NAVICULA SP.	600	H3 4 1
1	1	5.0	RHIZOLENIA ALATA	500	H3 4 1
1	1	5.0	CHAETOCEROS GRACILE	400	H3 4 1
1	1	5.0	NITZSCHIA CLOSTERIUM	400	H3 4 1
1	1	5.0	CERATIUM TRIPOS	300	H3 4 1
1	1	5.0	SILIATE	300	H3 4 1
1	1	5.0	STEPHANOPYXIS TURRIS	300	H3 4 1
1	1	5.0	PLEUROSIGMA AESTUARII	200	H3 4 0
1	1	5.0	DITYLUM BRIGHTWELLII	200	H3 4 0
1	1	5.0	DINOPHYSIS ACUTA	200	H3 4 0
1	1	5.0	GYMNODINIUM SP.	200	H3 4 0
1	1	5.0	BIDDULPHIA SP.	200	H3 4 0
1	1	5.0	PERIDINIUM SP.	100	H3 4 0
1	1	5.0	TRICERATIUM SP.	100	H3 4 0
1	1	5.0	PERIDINIUM SP.	100	H3 4 0
1	1	5.0	EXUVIELLA SP.	100	H3 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 89
PERCENT DINOFLAGELLATE/TOTAL 8
PERCENT OTHER/TOTAL 2

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
1	1	8.0	SKELETONEMA COSTATUM	16500	H4 4 27
1	1	8.0	ASTERIONELLA JAPONICA	12900	H4 4 21
1	1	8.0	RHIZOLENIA DELICATULA	9600	H4 4 14
1	1	8.0	COSCIINODISCUS SP.	3400	H4 4 6
1	1	8.0	CERATIUM FURCA	2900	H4 4 5
1	1	8.0	CORETHRON CRIOPHILUM	2900	H4 4 5
1	1	8.0	NANNOPLANKTON	2000	H4 4 3
1	1	8.0	THALASSIOSIRA GRAVIDA	1700	H4 4 3
1	1	8.0	MELOSIRA MONILIFORMIS	1400	H4 4 2
1	1	8.0	LEPTOCYLINDRUS MINIMUS	1300	H4 4 2
1	1	8.0	THALASSIONEMA NITZSCHIOIDES	1200	H4 4 2
1	1	8.0	SILICA FLAGELLATE	1100	H4 4 2
1	1	8.0	PROROCENTRUM SP.	900	H4 4 1
1	1	8.0	MELOSIRA WESTII	700	H4 4 1
1	1	8.0	PLEUROSIGMA AESTUARII	500	H4 4 1
1	1	8.0	RHIZOLENIA ALATA	500	H4 4 1
1	1	8.0	NAVICULA SP.	500	H4 4 1
1	1	8.0	GYMNODINIUM SP.	400	H4 4 1
1	1	8.0	NITZSCHIA CLOSTERIUM	300	H4 4 0
1	1	8.0	PHALACROMA ROTUNDATUM	200	H4 4 0
1	1	8.0	BACTERIOSIRA	200	H4 4 0
1	1	8.0	PERIDINIUM SP.	200	H4 4 0
1	1	8.0	TRICERATIUM SP.	100	H4 4 0
1	1	8.0	EXUVIELLA SP.	100	H4 4 0
1	1	8.0	CHAETOCEROS GRACILE	100	H4 4 0
1	1	8.0	SILIATE	100	H4 4 0
1	1	8.0	CERATIUM TRIPOS	100	H4 4 0
1	1	8.0	STEPHANOPYXIS TURRIS	100	H4 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 87
PERCENT DINOFLAGELLATE/TOTAL 8
PERCENT OTHER/TOTAL 5

LAT 40 28.8
SONIC DEPTH 0007

LONG 074 04.1 DATE 77/11/18
ONE PERCENT LIGHT DEPTH 5.2

TIME 1629

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
0	1	0.0	SKELETONEMA COSTATUM	20700	39
0	1	0.0	ASTERIONELLA JAPONICA	9800	19
0	1	0.0	MELOSIRA MONILIFORMIS	6800	13
0	1	0.0	COSCIINODISCUS SP.	3300	6
0	1	0.0	SCENEDESMUS QUADRICAUDA	1600	3
0	1	0.0	NAVICULA SP.	1300	2
0	1	0.0	LEPTOCYLINDRUS MINIMUS	1200	2
0	1	0.0	CORETHRON CRIOPHILUM	1200	2
0	1	0.0	MELOSIRA WESTII	1100	2
0	1	0.0	NANNOPLANKTON	800	1
0	1	0.0	GYMNODINIUM SP.	700	1
0	1	0.0	THALASSIOSIRA GRAVIDA	700	1
0	1	0.0	SCENEDESMUS SP.	400	1
0	1	0.0	TRICERATIUM SP.	300	1
0	1	0.0	BIDDULPHIA SP.	300	1
0	1	0.0	RHIZOSOLENIA DELICATULA	300	1
0	1	0.0	TINTINNIDA	200	0
0	1	0.0	NITZSCHIA CLOSTERIUM	200	0
0	1	0.0	THALASSIONEMA NITZSCHIOIDES	200	0
0	1	0.0	EXUVIELLA SP.	200	0
0	1	0.0	RHAPONEIS AMPHICEROS	200	0
0	1	0.0	PROROCENTRUM SP.	200	0
0	1	0.0	DITYLUM BRIGHTWELLII	200	0
0	1	0.0	BACTERIOSIRA	100	0
0	1	0.0	PLEUROSIGMA AESTUARII	100	0
0	1	0.0	RHIZOSOLENIA HEBETATA	100	0
0	1	0.0	DINOPHYSIS ACUTA	100	0
0	1	0.0	BACTERIOSIRA	100	0
0	1	0.0	SILICA FLAGELLATE	100	0
0	1	0.0	CHAETOCEROS GRACILE	100	0

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

92
2
6

LAT
SONIC DEPTH 0022

LONG DATE 77/11/18
ONE PERCENT LIGHT DEPTH

TIME 1755

STA	C	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
3	1	0.0	SKELETONEMA COSTATUM	4700	16
3	1	0.0	ASTERIONELLA JAPONICA	4600	16
3	1	0.0	LEPTOCYLINDRUS MINIMUS	3300	12
3	1	0.0	SCENEDESMUS QUADRICAUDA	3200	11
3	1	0.0	MELOSIRA MONILIFORMIS	1800	6
3	1	0.0	COSCIINODISCUS SP.	1600	6
3	1	0.0	NANNOPLANKTON	1400	5
3	1	0.0	CORETHRON CRIOPHILUM	1000	4
3	1	0.0	MELOSIRA WESTII	800	3
3	1	0.0	SCENEDESMUS SP.	800	3
3	1	0.0	NAVICULA SP.	700	3
3	1	0.0	RHIZOSOLENIA DELICATULA	700	3
3	1	0.0	THALASSIOSIRA GRAVIDA	500	2
3	1	0.0	THALASSIONEMA NITZSCHIOIDES	400	1
3	1	0.0	BACTERIOSIRA	400	1
3	1	0.0	EXUVIELLA SP.	300	1
3	1	0.0	NITZSCHIA CLOSTERIUM	300	1
3	1	0.0	PLEUROSIGMA AESTUARII	300	1
3	1	0.0	BLUE-GREEN FILAMENT	200	1
3	1	0.0	TRICERATIUM SP.	200	1
3	1	0.0	GYMNODINIUM SP.	200	1
3	1	0.0	SCENEDESMUS ACUMINATUS	200	1
3	1	0.0	SILIATE	100	0
3	1	0.0	TINTINNIDA	100	0
3	1	0.0	DITYLUM BRIGHTWELLII	100	0

TOTAL CELLS	77
PERCENT DIATOM/TOTAL	2
PERCENT DINOFLAGELLATE/TOTAL	22
PERCENT OTHER/TOTAL	

LAT 40 28.4
SONIC DEPTH 0014

LONG 073 52.3 DATE 77/11/19
ONE PERCENT LIGHT DEPTH

TIME 1915

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
4	1	0.0	SKELETONEMA COSTATUM	23800	H7 4 46
4	1	0.0	ASTERIONELLA JAPONICA	10800	H7 4 21
4	1	0.0	MELOSIRA MONILIFORMIS	4100	H7 4 8
4	1	0.0	COSCIINODISCUS SP.	1700	H7 4 3
4	1	0.0	RHIZOSOLENIA DELICATULA	1200	H7 4 2
4	1	0.0	LEPTOCYLINDRUS MINIMUS	1200	H7 4 2
4	1	0.0	PLEUROSIGMA AESTUARII	1200	H7 4 2
4	1	0.0	MELOSIRA WESTII	1100	H7 4 2
4	1	0.0	NAVICULA SP.	800	H7 4 1
4	1	0.0	THALASSIONEMA NITZSCHIOIDES	800	H7 4 2
4	1	0.0	SCENEDESMUS SP.	800	H7 4 2
4	1	0.0	EXUVIELLA SP.	500	H7 4 1
4	1	0.0	SCENEDESMUS QUADRICAUDA	500	H7 4 1
4	1	0.0	NANNOPLANKTON	400	H7 4 1
4	1	0.0	TINTINNIDA	400	H7 4 1
4	1	0.0	TRICERATIUM SP.	400	H7 4 1
4	1	0.0	STEPHANOPYXIS TURRIS	300	H7 4 1
4	1	0.0	SILICA FLAGELLATE	300	H7 4 1
4	1	0.0	DITYLUM BRIGHTWELLII	200	H7 4 0
4	1	0.0	RHIZOSOLENIA HEBETATA	200	H7 4 0
4	1	0.0	CHAETOCEROS GRACILE	200	H7 4 0
4	1	0.0	CHAETOCEROS SP.	200	H7 4 0
4	1	0.0	PROROCENTRUM SP.	200	H7 4 0
4	1	0.0	THALASSIOSIRA GRAVIDA	200	H7 4 0
4	1	0.0	BACTERIOSIRA	200	H7 4 0
4	1	0.0	GYMNODINIUM SP.	100	H7 4 0
4	1	0.0	PERIDINIUM SP.	100	H7 4 0
4	1	0.0	CORETHRON CRIOPHILUM	100	H7 4 0
4	1	0.0	NITZSCHIA CLOSTERIUM	100	H7 4 0
					TOTAL CELLS
					PERCENT DIATOM/TOTAL
					PERCENT DINOFAGELLATE/TOTAL
					PERCENT OTHER/TOTAL
					94
					2
					5

LAT 40 25.1
SONIC DEPTH 0038

LONG 073 47.5 DATE 77/11/20
ONE PERCENT LIGHT DEPTH

TIME 2218

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
5	1	0.0 SKELETONEMA COSTATUM	19700 HB 4	37
5	1	0.0 ASTERIONELLA JAPONICA	9200 HB 4	17
5	1	0.0 RHIZOSOLENIA DELICATULA	4500 HB 4	9
5	1	0.0 MELOSIRA MONILIFORMIS	2900 HB 4	5
5	1	0.0 LEPTOCYLINDRUS MINIMUS	2800 HB 4	5
5	1	0.0 COSCINODISCUS SP.	2000 HB 4	4
5	1	0.0 SCENEDESMUS SP.	1900 HB 4	4
5	1	0.0 CORETHRON CRIOPHILUM	1500 HB 4	3
5	1	0.0 STEPHANOPYXIS TURRIS	1400 HB 4	3
5	1	0.0 THALASSIOSIRA GRAVIDA	1200 HB 4	2
5	1	0.0 THALASSIONEMA NITZSCHIOIDES	1100 HB 4	2
5	1	0.0 MELOSIRA WESTII	1000 HB 4	2
5	1	0.0 NAVICULA SP.	600 HB 4	1
5	1	0.0 PLEUROSIGMA AESTUARII	600 HB 4	1
5	1	0.0 NANNOPHANKTON	500 HB 4	1
5	1	0.0 SCENEDESMUS QUADRICAUDA	400 HB 4	1
5	1	0.0 PROROCENTRUM SP.	300 HB 4	1
5	1	0.0 SILICA FLAGELLATE	200 HB 4	0
5	1	0.0 NITZSCHIA CLOSTERIUM	200 HB 4	0
5	1	0.0 CERATIUM FURCA	200 HB 4	0
5	1	0.0 DIMEREGRAMMA SP.	100 HB 4	0
5	1	0.0 DITYLUM BRIGHTWELLII	100 HB 4	0
5	1	0.0 GYMNODINIUM SP.	100 HB 4	0
5	1	0.0 EXUVIELLA SP.	100 HB 4	0
5	1	0.0 CERATIUM FUSUS	100 HB 4	0
5	1	0.0 RHIZOSOLENIA HEBETATA	100 HB 4	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 93
PERCENT DINOFLAGELLATE/TOTAL 2
PERCENT OTHER/TOTAL 6

LAT 40 22.0
SONIC DEPTH 0025

LONG 073 50.9 DATE 77/11/20
ONE PERCENT LIGHT DEPTH

TIME 2318

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
6	1	0.0	ASTERIONELLA JAPONICA	21800	H9 4 35
6	1	0.0	SKELETONEMA COSTATUM	16300	H9 4 27
6	1	0.0	MELOSIRA MONILIFORMIS	4100	H9 4 7
6	1	0.0	RHIZOSOLENIA DELICATULA	3300	H9 4 5
6	1	0.0	CORETHRON CRIOPHILUM	2600	H9 4 4
6	1	0.0	COSCINODISCUS SP.	2400	H9 4 4
6	1	0.0	THALASSIOSIRA GRAVIDA	1700	H9 4 3
6	1	0.0	NITZSCHIA PUNGENS V. ATLANTICA	1100	H9 4 2
6	1	0.0	NANNOPLANKTON	1100	H9 4 2
6	1	0.0	RHIZOSOLENIA HEBETATA	800	H9 4 1
6	1	0.0	LEPTOCYLINDRUS MINIMUS	800	H9 4 1
6	1	0.0	GYMNODINIUM SP.	600	H9 4 1
6	1	0.0	MELOSIRA WESTII	600	H9 4 1
6	1	0.0	BACTERIOSIRA	600	H9 4 1
6	1	0.0	THALASSIONEMA NITZSCHIOIDES	500	H9 4 1
6	1	0.0	NAVICULA SP.	400	H9 4 1
6	1	0.0	SILIATE	400	H9 4 1
6	1	0.0	CHAETOCEROS SP.	400	H9 4 1
6	1	0.0	PROROCENTRUM SP.	300	H9 4 0
6	1	0.0	TRICERATIUM SP.	300	H9 4 0
6	1	0.0	CERATIUM FURCA	300	H9 4 0
6	1	0.0	PLEUROSIGMA AESTUARII	300	H9 4 0
6	1	0.0	RHIZOSOLENIA ALATA	200	H9 4 0
6	1	0.0	TINTINNIDA	200	H9 4 0
6	1	0.0	STEPHANOPYXIS TURRIS	200	H9 4 0
6	1	0.0	DINOPHYSIS ACUTA	100	H9 4 0
6	1	0.0	NITZSCHIA CLOSTERIUM	100	H9 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

95
2
3

LAT 40 17.5
SONIC DEPTH 0029

LONG 073 36.3 DATE 77/11/20
ONE PERCENT LIGHT DEPTH

TIME 0053

STA	CASE	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
7	1	0.0	SKELETONEMA COSTATUM	5000 H10 4	19
7	1	0.0	ASTERIONELLA JAPONICA	4400 H10 4	16
7	1	0.0	CORETHRON CR. OPILUM	2500 H10 4	9
7	1	0.0	RHIZOSOLENIA DELICATULA	2400 H10 4	9
7	1	0.0	CERATIUM FURCA	1600 H10 4	6
7	1	0.0	MELOSIRA MONILIFORMIS	1500 H10 4	6
7	1	0.0	COSCIINODISCUS SP.	1400 H10 4	5
7	1	0.0	SILICA FLAGELLATE	900 H10 4	3
7	1	0.0	CERATIUM TRIPOS	800 H10 4	3
7	1	0.0	GYMNODINIUM SP.	800 H10 4	3
7	1	0.0	THALASSIOSIRA GRAVIDA	700 H10 4	3
7	1	0.0	TINTINNIDA	600 H10 4	2
7	1	0.0	MELOSIRA WESTII	600 H10 4	2
7	1	0.0	THALASSIONEMA NITZSCHIOIDES	500 H10 4	2
7	1	0.0	CERATAULINA SP	400 H10 4	1
7	1	0.0	SCENEDESMUS QUADRICAUDA	400 H10 4	1
7	1	0.0	NANNOPLANKTON	400 H10 4	1
7	1	0.0	CHAETOCEROS SP.	400 H10 4	1
7	1	0.0	RHIZOSOLENIA ALATA	300 H10 4	1
7	1	0.0	NAVICULA SP.	200 H10 4	1
7	1	0.0	NITZSCHIA CLOSTERIUM	200 H10 4	1
7	1	0.0	THALASSIOSIRA HYALINA	200 H10 4	1
7	1	0.0	SILIATE	200 H10 4	1
7	1	0.0	STEPHANOPYXIS TURRIS	200 H10 4	1
7	1	0.0	DINOPHYSIS ACUTA	100 H10 4	0
7	1	0.0	EXUVIELLA SP	100 H10 4	0
7	1	0.0	DITYLUM BRIGHTWELLII	100 H10 4	0
7	1	0.0	PLEUROSIGMA AESTUARII	100 H10 4	0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	78
PERCENT DINOFLAGELLATE/TOTAL	13
PERCENT OTHER/TOTAL	9

LAT 40 18.0
SONIC DEPTH 0051

LONG 073 47.8 DATE 77/11/20
ONE PERCENT LIGHT DEPTH

TIME 0220

STA	CST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
8	1	0.0	SKELETONEMA COSTATUM	4500 H11 4	16
8	1	0.0	ASTERIONELLA JAPONICA	4100 H11 4	14
8	1	0.0	RHIZOSOLENIA DELICATULA	4100 H11 4	14
8	1	0.0	THALASSIOSIRA GRAVIDA	3200 H11 4	11
8	1	0.0	CORETHRON CRIOPHILUM	2700 H11 4	9
8	1	0.0	MELOSIRA MONILIFORMIS	2200 H11 4	8
8	1	0.0	COSCIINODISCUS SP.	1900 H11 4	7
8	1	0.0	CERATIUM FURCA	1000 H11 4	3
8	1	0.0	MELOSIRA WESTII	700 H11 4	2
8	1	0.0	RHIZOSOLENIA HEBETATA	700 H11 4	2
8	1	0.0	NANNOPLANKTON	600 H11 4	2
8	1	0.0	SILICA FLAGELLATE	500 H11 4	2
8	1	0.0	GYMNODINIUM SP.	500 H11 4	2
8	1	0.0	CERATIUM TRIPOS	400 H11 4	1
8	1	0.0	TINTINNIDA	400 H11 4	1
8	1	0.0	STEPHANOPYXIS TURRIS	200 H11 4	1
8	1	0.0	THALASSIONEMA NITZSCHIOIDES	200 H11 4	1
8	1	0.0	RHIZOSOLENIA ALATA	200 H11 4	1
8	1	0.0	NITZSCHIA CLOSTERIUM	200 H11 4	1
8	1	0.0	NAVICULA SP.	100 H11 4	0
8	1	0.0	NITZSCHIA PUNGENS V. ATLANTICA	100 H11 4	0
8	1	0.0	BACTERIOSIRA	100 H11 4	0
8	1	0.0	PERIDINIUM SP.	100 H11 4	0
8	1	0.0	PROROCENTRUM SP.	100 H11 4	0
8	1	0.0	TRICERATIUM SP.	100 H11 4	0
8	1	0.0	EXUVIELLA SP	100 H11 4	0

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

87
8
5

LAT 39 32.6
SONIC DEPTH 0067

LONG 072 42.6 DATE 77/11/20
ONE PERCENT LIGHT DEPTH

TIME 0817

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
9	1	0.0	RHIZOLENIA DELICATULA	11900 H12 4	45
9	1	0.0	THALASSIOSIRA GRAVIDA	1800 H12 4	7
9	1	0.0	CERATIUM TRIPOS	1600 H12 4	6
9	1	0.0	THALASSIONEMA NITZSCHIOIDES	1500 H12 4	6
9	1	0.0	GYMNODINIUM SP.	1200 H12 4	5
9	1	0.0	SILICA FLAGELLATE	1200 H12 4	5
9	1	0.0	MELOSIRA MONILIFORMIS	1200 H12 4	5
9	1	0.0	PROROCENTRUM SP.	1100 H12 4	4
9	1	0.0	CORETHRON CRIOPHILUM	800 H12 4	3
9	1	0.0	RHIZOLENIA HEBETATA	700 H12 4	3
9	1	0.0	CERATIUM FURCA	600 H12 4	2
9	1	0.0	TINTINNIDA	500 H12 4	2
9	1	0.0	RHIZOLENIA STOLTERFOTHII	400 H12 4	2
9	1	0.0	PLEUROSIGMA AESTUARII	400 H12 4	2
9	1	0.0	CERATIUM TRIPOS LONG + SHORT	300 H12 4	1
9	1	0.0	EXUVIELLA SP	200 H12 4	1
9	1	0.0	SILIATE	200 H12 4	1
9	1	0.0	PERIDINIUM SP.	200 H12 4	1
9	1	0.0	NANNOPLANKTON	200 H12 4	1
9	1	0.0	COSCIINODISCUS SP.	100 H12 4	0
9	1	0.0	NITZSCHIA CLOSTERIUM	100 H12 4	0
9	1	0.0	CERATIUM FUSUS	100 H12 4	0
9	1	0.0	MELOSIRA WESTII	100 H12 4	0

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

72
20
8

LAT 39 36.0
SONIC DEPTH 0067

LONG 073 00.1 DATE 77/11/20
ONE PERCENT LIGHT DEPTH

TIME 1014

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
10	1	0.0	RHIZOSOLENIA DELICATULA	3900 H13 4	18
10	1	0.0	NITZSCHIA PUNGENS V. ATLANTICA	2000 H13 4	9
10	1	0.0	SILICA FLAGELLATE	1600 H13 4	8
10	1	0.0	THALASSIOSIRA GRAVIDA	1500 H13 4	7
10	1	0.0	TINTINNIDA	1300 H13 4	6
10	1	0.0	THALASSIONEMA NITZSCHIOIDES	1300 H13 4	6
10	1	0.0	RHIZOSOLENIA HEBETATA	1300 H13 4	6
10	1	0.0	RHIZOSOLENIA ALATA	1200 H13 4	6
10	1	0.0	GYMNODINIUM SP.	1100 H13 4	5
10	1	0.0	NANNOPLANKTON	900 H13 4	4
10	1	0.0	CERATIUM TRIPOS	700 H13 4	3
10	1	0.0	CHAETOCEROS SP.	700 H13 4	3
10	1	0.0	MELOSIRA MONILIFORMIS	600 H13 4	3
10	1	0.0	CERATIUM FURCA	400 H13 4	2
10	1	0.0	COSCINODISCUS SP.	400 H13 4	2
10	1	0.0	STEPHANOPYXIS TURRIS	400 H13 4	2
10	1	0.0	SILIATE	300 H13 4	1
10	1	0.0	DINOPHYSIS ACUTA	200 H13 4	1
10	1	0.0	PERIDINIUM SP.	200 H13 4	1
10	1	0.0	EXUVIELLA SP.	200 H13 4	1
10	1	0.0	PROROCENTRUM SP.	200 H13 4	1
10	1	0.0	PLEUROSIGMA AESTUARII	200 H13 4	1
10	1	0.0	CORETHRON CRIOPHILUM	200 H13 4	1
10	1	0.0	NITZSCHIA CLOSTERIUM	100 H13 4	0
10	1	0.0	CERATIUM FUSUS	100 H13 4	0
10	1	0.0	ASTERIONELLA JAPONICA	100 H13 4	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 66
PERCENT DINOFLAGELLATE/TOTAL 15
PERCENT OTHER/TOTAL 19

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
10	1	2.0	RHIZOSOLENIA DELICATULA	5500 H14 4	33
10	1	2.0	CERATIUM TRIPOS	1800 H14 4	11
10	1	2.0	NANNOPLANKTON	1600 H14 4	10
10	1	2.0	SILICA FLAGELLATE	1300 H14 4	8
10	1	2.0	MELOSIRA MONILIFORMIS	1000 H14 4	6
10	1	2.0	THALASSIOSIRA GRAVIDA	1000 H14 4	6
10	1	2.0	GYMNODINIUM SP.	1000 H14 4	6
10	1	2.0	RHIZOSOLENIA STOLTERFOTHII	500 H14 4	3
10	1	2.0	CORETHRON CRIOPHILUM	400 H14 4	2
10	1	2.0	RHIZOSOLENIA ALATA	400 H14 4	2
10	1	2.0	PLEUROSIGMA AESTUARII	400 H14 4	2
10	1	2.0	TINTINNIDA	400 H14 4	2
10	1	2.0	CERATIUM FURCA	300 H14 4	2
10	1	2.0	RHIZOSOLENIA HEBETATA	200 H14 4	1
10	1	2.0	CHAETOCEROS SP.	200 H14 4	1
10	1	2.0	COSCINODISCUS SP.	200 H14 4	1
10	1	2.0	PROROCENTRUM SP.	100 H14 4	1
10	1	2.0	SILIATE	100 H14 4	1
10	1	2.0	THALASSIONEMA NITZSCHIOIDES	100 H14 4	1
10	1	2.0	EXUVIELLA SP.	100 H14 4	1
10	1	2.0	NAVICULA SP.	100 H14 4	1

TOTAL CELLS
PERCENT DIATOM/TOTAL 60
PERCENT DINOFLAGELLATE/TOTAL 20
PERCENT OTHER/TOTAL 20

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
10	1	4.0	NANNOPLANKTON	1800 H15 4	12
10	1	4.0	SILICA FLAGELLATE	1800 H15 4	12
10	1	4.0	NITZSCHIA PUNGENS V. ATLANTICA	1300 H15 4	9
10	1	4.0	THALASSIOSIRA NITZSCHIOIDES	1200 H15 4	8
10	1	4.0	CERATIUM TRIPOS	1000 H15 4	7
10	1	4.0	GYMNODINIUM SP.	900 H15 4	6
10	1	4.0	RHIZOSOLENIA HEBETATA	800 H15 4	5
10	1	4.0	MELOSIRA MONILIFORMIS	800 H15 4	5
10	1	4.0	SILIATE	800 H15 4	5
10	1	4.0	THALASSIOSIRA GRAVIDA	700 H15 4	5
10	1	4.0	TINTINNIDA	700 H15 4	5
10	1	4.0	RHIZOSOLENIA DELICATULA	650 H15 4	4
10	1	4.0	RHIZOSOLENIA STOLTERFOTHII	500 H15 4	3
10	1	4.0	RHIZOSOLENIA ALATA	400 H15 4	3
10	1	4.0	CERATIUM FURCA	300 H15 4	2
10	1	4.0	STEPHANOPYXIS TURRIS	300 H15 4	2
10	1	4.0	CORETHRON CRIOPHILUM	200 H15 4	1
10	1	4.0	COSCIINODISCUS SP.	200 H15 4	1
10	1	4.0	SKELETONEMA COSTATUM	200 H15 4	1
10	1	4.0	ASTERIONELLA JAPONICA	200 H15 4	1
10	1	4.0	PLEUROSIGMA AESTUARII	100 H15 4	1
					TOTAL CELLS
					PERCENT DIATOM/TOTAL
					PERCENT DINOFLAGELLATE/TOTAL
					PERCENT OTHER/TOTAL
					51
					15
					34

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
10	1	7.0	RHIZOSOLENIA DELICATULA	3300 H16 4	15
10	1	7.0	SILICA FLAGELLATE	2300 H16 4	11
10	1	7.0	THALASSIOSIRA GRAVIDA	2000 H16 4	9
10	1	7.0	CERATIUM TRIPOS	2000 H16 4	9
10	1	7.0	RHIZOSOLENIA ALATA	1900 H16 4	9
10	1	7.0	GYMNODINIUM SP.	1800 H16 4	8
10	1	7.0	MELOSIRA MONILIFORMIS	1100 H16 4	5
10	1	7.0	RHIZOSOLENIA STOLTERFOTHII	1100 H16 4	5
10	1	7.0	TINTINNIDA	900 H16 4	4
10	1	7.0	RHIZOSOLENIA HEBETATA	700 H16 4	3
10	1	7.0	NITZSCHIA PUNGENS V. ATLANTICA	700 H16 4	3
10	1	7.0	CORETHRON CRIOPHILUM	500 H16 4	2
10	1	7.0	NANNOPLANKTON	500 H16 4	2
10	1	7.0	SILIATE	400 H16 4	2
10	1	7.0	COSCIINODISCUS SP.	400 H16 4	2
10	1	7.0	THALASSIOSIRA NITZSCHIOIDES	300 H16 4	1
10	1	7.0	SKELETONEMA COSTATUM	300 H16 4	1
10	1	7.0	CERATIUM FURCA	300 H16 4	1
10	1	7.0	RHIZOSOLENIA IMBRICATA	200 H16 4	1
10	1	7.0	STEPHANOPYXIS TURRIS	200 H16 4	1
10	1	7.0	MELOSIRA WESTII	100 H16 4	0
10	1	7.0	CERATIUM TRIPOS LONG + SHORT	100 H16 4	0
10	1	7.0	HEMIAULUS SP.	100 H16 4	0
10	1	7.0	CERATIUM FUSUS	100 H16 4	0
10	1	7.0	PLEUROSIGMA AESTUARII	100 H16 4	0
					TOTAL CELLS
					PERCENT DIATOM/TOTAL
					PERCENT DINOFLAGELLATE/TOTAL
					PERCENT OTHER/TOTAL
					61
					20
					19

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
10	1	11.0	RHIZOSOLENIA DELICATULA	7800 H17 4	31
10	1	11.0	NITZSCHIA PUNGENS V. ATLANTICA	2000 H17 4	8
10	1	11.0	GYMNODINIUM SP.	1800 H17 4	7
10	1	11.0	THALASSIOSIRA GRAVIDA	1700 H17 4	7
10	1	11.0	RHIZOSOLENIA HEBETATA	1500 H17 4	6
10	1	11.0	SILICA FLAGELLATE	1300 H17 4	5
10	1	11.0	TINTINNIDA	1100 H17 4	4
10	1	11.0	THALASSIOSIRA NITZSCHIOIDES	1000 H17 4	4
10	1	11.0	CERATIUM TRIPOS	800 H17 4	3
10	1	11.0	STEPHANOPYXIS TURRIS	800 H17 4	3
10	1	11.0	CORETHRON CRIOPHILUM	700 H17 4	3
10	1	11.0	NANNOPLANKTON	600 H17 4	2
10	1	11.0	MELOSIRA MONILIFORMIS	600 H17 4	2
10	1	11.0	SKELETONEMA COSTATUM	500 H17 4	2
10	1	11.0	SILIATE	500 H17 4	2
10	1	11.0	PLEUROSIGMA AESTUARII	400 H17 4	2
10	1	11.0	COSCIINODISCUS SP.	400 H17 4	2
10	1	11.0	ASTERIONELLA JAPONICA	300 H17 4	1
10	1	11.0	RHIZOSOLENIA ALATA	300 H17 4	1
10	1	11.0	RHIZOSOLENIA STOLTERFOTHII	200 H17 4	1
10	1	11.0	MELOSIRA WESTII	200 H17 4	1
10	1	11.0	CERATIUM FURCA	200 H17 4	1
10	1	11.0	NAVICULA SP.	200 H17 4	1
10	1	11.0	PROROCENTRUM SP.	100 H17 4	0
10	1	11.0	PERIDINIUM SP.	100 H17 4	0
					TOTAL CELLS
					PERCENT DIATOM/TOTAL
					PERCENT DINOFLAGELLATE/TOTAL
					PERCENT OTHER/TOTAL
					74
					12
					14

LAT 39 38.7
SONIC DEPTH 0042

LONG 073 15.5 DATE 77/11/20
ONE PERCENT LIGHT DEPTH

TIME 1204

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
11	1	0.0	SILICA FLAGELLATE	3700 H18 4	21
11	1	0.0	HELOSIRA MONILIFORMIS	3000 H18 4	17
11	1	0.0	THALASSIOSIRA GRAVIDA	1700 H18 4	9
11	1	0.0	SILIAE	1300 H18 4	7
11	1	0.0	THALASSIONEMA NITZSCHIOIDES	1300 H18 4	7
11	1	0.0	RHIZOSOLENIA DELICATULA	1100 H18 4	6
11	1	0.0	GYMNODINIUM SP.	900 H18 4	5
11	1	0.0	CERATIUM TRIPOS	700 H18 4	4
11	1	0.0	CORETHRON CRIOPHILUM	600 H18 4	3
11	1	0.0	RHIZOSOLENIA HEBETATA	500 H18 4	3
11	1	0.0	TINTINNIDA	500 H18 4	3
11	1	0.0	PLEUROSIGMA AESTUARII	500 H18 4	3
11	1	0.0	EXUVIELLA SP.	400 H18 4	2
11	1	0.0	COSCIINODISCUS SP.	400 H18 4	2
11	1	0.0	PROROCENTRUM SP.	300 H18 4	2
11	1	0.0	NANNOPLANKTON	200 H18 4	1
11	1	0.0	HELOSIRA WESTII	200 H18 4	1
11	1	0.0	RHIZOSOLENIA STOLTERFOTHII	200 H18 4	1
11	1	0.0	CERATIUM TRIPOS LONG & SHORT	100 H18 4	1
11	1	0.0	RHIZOSOLENIA ALATA	100 H18 4	1
11	1	0.0	NAVICULA SP.	100 H18 4	1
11	1	0.0	DINOPHYSIS ACUTA	100 H18 4	1

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

54
14
32

LAT 39 42.6
SONIC DEPTH 0039

LONG 073 35.1 DATE 77/11/20
ONE PERCENT LIGHT DEPTH 20.8

TIME 1358

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
12	1	0.0	RHIZOSOLENIA DELICATULA	8600 H19 4	29
12	1	0.0	THALASSIOSIRA GRAVIDA	3300 H19 4	14
12	1	0.0	GYMNODINIUM SP.	1500 H19 4	7
12	1	0.0	SILICA FLAGELLATE	1500 H19 4	7
12	1	0.0	MELOSIRA MONILIFORMIS	1100 H19 4	5
12	1	0.0	TINTINNIDA	1100 H19 4	5
12	1	0.0	PROOCENTRUM SP.	900 H19 4	4
12	1	0.0	CORETHRON CRIOPHILUM	900 H19 4	4
12	1	0.0	COSCINODISCUS SP.	900 H19 4	4
12	1	0.0	SILIATE	800 H19 4	4
12	1	0.0	CERATIUM TRIPOS	700 H19 4	3
12	1	0.0	CERATIUM FURCA	600 H19 4	3
12	1	0.0	NANNOPLANKTON	500 H19 4	2
12	1	0.0	STEPHANOPYXIS TURRIS	400 H19 4	2
12	1	0.0	RHIZOSOLENIA ALATA	400 H19 4	2
12	1	0.0	ASTERIONELLA JAPONICA	300 H19 4	1
12	1	0.0	EXUVIELLA SP.	200 H19 4	1
12	1	0.0	MELOSIRA WESTII	200 H19 4	1
12	1	0.0	CHAETOCEROS SP.	200 H19 4	1
12	1	0.0	RHIZOSOLENIA STOLTERFOTHII	200 H19 4	1
12	1	0.0	CERATIUM FUSUS	200 H19 4	1
12	1	0.0	NAVICULA SP.	100 H19 4	0
12	1	0.0	THALASSIONEMA NITZSCHOIDES	100 H19 4	0
12	1	0.0	PLEUROSIGMA AESTUARII	100 H19 4	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 65
PERCENT DINOFLAGELLATE/TOTAL 18
PERCENT OTHER/TOTAL 17

LAT 39 45.7
SONIC DEPTH 0026

LONG 073 50.8 DATE 77/11/20
ONE PERCENT LIGHT DEPTH

TIME 1536

STA	CASE	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
13	1	0.0	RHIZOSOLENIA DELICATULA	4300 H20	4
13	1	0.0	THALASSIOSIRA GRAVIDA	3600 H20	4
13	1	0.0	MELOSIRA MONILIFORMIS	3200 H20	4
13	1	0.0	TINTINNIDA	1100 H20	4
13	1	0.0	NANNOPLANKTON	800 H20	4
13	1	0.0	RHIZOSOLENIA HEBETATA	800 H20	4
13	1	0.0	PROROCENTRUM SP.	700 H20	4
13	1	0.0	GYMNODINIUM SP.	600 H20	4
13	1	0.0	SKELETONEMA COSTATUM	600 H20	4
13	1	0.0	SILIATE	600 H20	4
13	1	0.0	PLEUROSIGMA AESTUARII	400 H20	4
13	1	0.0	COSCIINODISCUS SP.	400 H20	4
13	1	0.0	RHIZOSOLENIA STOLTERFOTHII	400 H20	4
13	1	0.0	EXUVIELLA SP.	400 H20	4
13	1	0.0	RHIZOSOLENIA ALATA	400 H20	4
13	1	0.0	PERIDINIUM SP.	300 H20	4
13	1	0.0	NAVICULA SP.	300 H20	4
13	1	0.0	THALASSIONEMA NITZSCHIOIDES	200 H20	4
13	1	0.0	SILICA FLAGELLATE	200 H20	4
13	1	0.0	ASTERIONELLA JAPONICA	200 H20	4
13	1	0.0	NITZSCHIA PUNGENS V. ATLANTICA	200 H20	4
13	1	0.0	CERATIUM FURCA	100 H20	4
13	1	0.0	CORETHRON CRIOPHILUM	100 H20	4
13	1	0.0	CERATIUM FUSUS	100 H20	4
13	1	0.0	CERATIUM TRIPOS	100 H20	4

TOTAL CELLS
PERCENT DIATOM/TOTAL 75
PERCENT DINOFLAGELLATE/TOTAL 11
PERCENT OTHER/TOTAL 13

LAT 39 44.7
SONIC DEPTH 0013

LONG 074 03.6 DATE 77/11/20
ONE PERCENT LIGHT DEPTH 11.7

TIME 1707

STA	CASE	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
14	1	0.0	SKELETONEMA COSTATUM	97400 H21 4	91
14	1	0.0	ASTERIONELLA JAPONICA	5600 H21 4	5
14	1	0.0	THALASSIOSIRA GRAVIDA	4700 H21 4	4
14	1	0.0	RHIZOSOLENIA DELICATULA	2800 H21 4	2
14	1	0.0	THALASSIONEMA NITZSCHIOIDES	1600 H21 4	1
14	1	0.0	COSCIINODISCUS SP.	1400 H21 4	1
14	1	0.0	NAVICULA SP.	1200 H21 4	1
14	1	0.0	GYMNOINIUM SP.	1100 H21 4	1
14	1	0.0	EXUVIELLA SP.	1000 H21 4	1
14	1	0.0	TRICERATIUM SP.	700 H21 4	0
14	1	0.0	RHIZOSOLENIA HEBETATA	600 H21 4	0
14	1	0.0	PROROCENTRUM SP.	400 H21 4	0
14	1	0.0	BACTERIOSIRA	400 H21 4	0
14	1	0.0	PLEUROSIGMA AESTUARII	400 H21 4	0
14	1	0.0	TINTINNIDA	400 H21 4	0
14	1	0.0	NITZSCHIA CLOSTERIUM	400 H21 4	0
14	1	0.0	MELOSIRA MONILIFORMIS	290 H21 4	0
14	1	0.0	CERATIUM TRIPOS	200 H21 4	0
14	1	0.0	MELOSIRA WESTII	100 H21 4	0
14	1	0.0	SILICA FLAGELLATE	100 H21 4	0
14	1	0.0	SILIATE	100 H21 4	0
14	1	0.0	RHIZOSOLENIA STOLTERFOTHII	100 H21 4	0

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

97
2
0

LAT 39 50.6
SONIC DEPTH 0018

LONG 074 02.2 DATE 77/11/20
ONE PERCENT LIGHT DEPTH

TIME 1814

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
15	1	0.0	SKELETONEMA COSTATUM	91900 H22 4	73
15	1	0.0	ASTERIONELLA JAPONICA	11900 H22 4	9
15	1	0.0	THALASSIOSIRA GRAVIDA	6200 H22 4	5
15	1	0.0	RHIZOSOLENIA DELICATULA	5600 H22 4	4
15	1	0.0	MELOSIRA MONILIFORMIS	2600 H22 4	2
15	1	0.0	EXUVIELLA SP.	1200 H22 4	1
15	1	0.0	NAVICULA SP.	1100 H22 4	1
15	1	0.0	MELOSIRA WESTII	700 H22 4	1
15	1	0.0	TINTINNIDA	700 H22 4	1
15	1	0.0	GYMNODINIUM SP.	600 H22 4	0
15	1	0.0	COSCIINODISCUS SP.	600 H22 4	0
15	1	0.0	SILIATE	600 H22 4	0
15	1	0.0	NITZSCHIA CLOSTERIUM	500 H22 4	0
15	1	0.0	PLEUROSIGMA AESTUARII	400 H22 4	0
15	1	0.0	CORETHRON CRIOPHILUM	300 H22 4	0
15	1	0.0	TRICERATIUM SP.	300 H22 4	0
15	1	0.0	PHALACROMA ROTUNDATUM	200 H22 4	0
15	1	0.0	CHAETOCEROS GRACILE	200 H22 4	0
15	1	0.0	RHIZOSOLENIA HEBETATA	200 H22 4	0
15	1	0.0	SILICA FLAGELLATE	100 H22 4	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 97
PERCENT DINOFLAGELLATE/TOTAL 2
PERCENT OTHER/TOTAL 1

LAT 39 54.5
SONIC DEPTH 0027

LONG 073 46.6 DATE 77/11/20
ONE PERCENT LIGHT DEPTH

TIME 1945

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
16	1	0.0	RHIZOSOLENIA DELICATULA	8500 H23 4	24
16	1	0.0	CORETHRON CRIOPHILUM	4600 H23 4	13
16	1	0.0	THALASSIOSIRA GRAVIDA	3800 H23 4	11
16	1	0.0	SKELETONEMA COSTATUM	2800 H23 4	8
16	1	0.0	CERATIUM FURCA	2700 H23 4	7
16	1	0.0	GYMNODINIUM SP.	1600 H23 4	4
16	1	0.0	SILICA FLAGELLATE	1600 H23 4	4
16	1	0.0	CERATIUM TRIPOS	1500 H23 4	4
16	1	0.0	MELOSIRA MONILIFORMIS	1300 H23 4	4
16	1	0.0	THALASSIONEMA NITZSCHIOIDES	1000 H23 4	3
16	1	0.0	COSCIINODISCUS SP.	1000 H23 4	3
16	1	0.0	TINTINNIDA	800 H23 4	2
16	1	0.0	SILIATE	600 H23 4	2
16	1	0.0	PERIDINIUM SP.	600 H23 4	2
16	1	0.0	ASTERIONELLA JAPONICA	600 H23 4	2
16	1	0.0	RHIZOSOLENIA HEBETATA	500 H23 4	1
16	1	0.0	NITZSCHIA PUNGENS V. ATLANTICA	400 H23 4	1
16	1	0.0	PLEUROSIGMA AESTUARII	400 H23 4	1
16	1	0.0	DINOPHYSIS ACUTA	300 H23 4	1
16	1	0.0	STEPHANOPYXIS TURRIS	300 H23 4	1
16	1	0.0	EXUVIELLA SP.	200 H23 4	1
16	1	0.0	MELOSIRA WESTII	200 H23 4	1
16	1	0.0	NAVICULA SP.	200 H23 4	1
16	1	0.0	PROROCENTRUM SP.	200 H23 4	1
16	1	0.0	CERATIUM FUSUS	100 H23 4	0
16	1	0.0	CHAETOCEROS GRACILE	100 H23 4	0
16	1	0.0	NITZSCHIA CLOSTERIUM	100 H23 4	0
16	1	0.0	RHIZOSOLENIA STOLTERFOTHII	100 H23 4	0

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

72
20
8

R/V ARGUS CRUISE, PART I
MARCH-APRIL 1978

LAT 41 17.0
SONIC DEPTH 150

LONG 69 02.0 DATE 78/03/26
ONE PERCENT LIGHT DEPTH 39

TIME 0930

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
1PP	1	0.0	COCCOLITHUS HUXLEYI	2800	4 27
1PP	1	0.0	THALASSIOSIRA NORDENSKIODII	1400	4 14
1PP	1	0.0	FLAGELLATA	1400	4 14
1PP	1	0.0	THALASSIOSIRA DECIPIENS	800	4 8
1PP	1	0.0	GYMNODINIUM PUNCTATUM	800	4 8
1PP	1	0.0	GYMNODINIUM OCEANICUM	400	4 4
1PP	1	0.0	RHIZOLENIA HEBETATA	200	4 2
1PP	1	0.0	TROPIDONEIS ANTARCTICA VAR POLYPLASTA	200	4 2
1PP	1	0.0	SCHRODERELLA DELICATULA	200	4 2
1PP	1	0.0	NITZSCHIA LONGISSIMA	200	4 2
1PP	1	0.0	DACTYLIOSOLEN MEDITERRANEUS	200	4 2
1PP	1	0.0	GYMNODINIUM NANNUM	200	4 2
1PP	1	0.0	EXUVIELLA SP	200	4 2
1PP	1	0.0	GYMNODINIUM AGILE	200	4 2
1PP	1	0.0	AMPHIDINIUM SP.	200	4 2
1PP	1	0.0	COCCOLITHUS PELAGICUS	200	4 2
1PP	1	0.0	RHABDOSPHAERA STYLIFER	200	4 2
1PP	1	0.0	CHAETOCEROS DECIPIENS	200	4 2
1PP	1	0.0	DISTEPHANUS SPECULUM	200	4 2

TOTAL CELLS
PERCENT DIATOM/TOTAL 33
PERCENT DINOFLAGELLATE/TOTAL 20
PERCENT OTHER/TOTAL 47

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
1PP	1	4.0	FLAGELLATA	9600	4 42
1PP	1	4.0	COCCOLITHUS HUXLEYI	2800	4 12
1PP	1	4.0	FRAGILARIA CYLINDRUS	2000	4 9
1PP	1	4.0	NITZSCHIA DELICATISSIMA	1800	4 8
1PP	1	4.0	PERIDINIUM TROCHOTHEUM	1000	4 4
1PP	1	4.0	GYMNODINIUM AGILE	1000	4 4
1PP	1	4.0	GYMNODINIUM NANNUM	800	4 3
1PP	1	4.0	GYMNODINIUM PUNCTATUM	800	4 3
1PP	1	4.0	THALASSIOSIRA NORDENSKIODII	600	4 3
1PP	1	4.0	THALASSIOSIRA DECIPIENS	400	4 2
1PP	1	4.0	GYMNODINIUM OCEANICUM	400	4 2
1PP	1	4.0	TROPIDONEIS ANTARCTICA VAR POLYPLASTA	400	4 2
1PP	1	4.0	GONIAULAX MINIMA	400	4 2
1PP	1	4.0	RHIZOLENIA HEBETATA	200	4 1
1PP	1	4.0	RHIZOLENIA DELICATULA	200	4 1
1PP	1	4.0	NITZSCHIA LONGISSIMA	200	4 1
1PP	1	4.0	PERIDINIUM GLOBULUS	200	4 1
1PP	1	4.0	DISTEPHANUS SPECULUM	200	4 1

TOTAL CELLS
PERCENT DIATOM/TOTAL 25
PERCENT DINOFLAGELLATE/TOTAL 20
PERCENT OTHER/TOTAL 55

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
1PP	1	11.0	FLAGELLATA	6800	4	37
1PP	1	11.0	RHIZOSOLENIA DELICATULA	3600	4	20
1PP	1	11.0	GYMNODINIUM PUNCTATUM	1200	4	7
1PP	1	11.0	COCCOLITHUS HUXLEYI	1000	4	5
1PP	1	11.0	FRAGILARIA CYLINDRUS	1000	4	5
1PP	1	11.0	GYMNODINIUM OCEANICUM	600	4	3
1PP	1	11.0	EXUVIELLA SP	600	4	3
1PP	1	11.0	GYMNODINIUM AGILE	600	4	3
1PP	1	11.0	GYMNODINIUM NANNUM	400	4	2
1PP	1	11.0	THALASSIOSIRA DECIPENS	400	4	2
1PP	1	11.0	DISTEPHANUS SPECULUM	400	4	2
1PP	1	11.0	TROPIDONEIS ANTARCTICA VAR POLYPLASTA	400	4	2
1PP	1	11.0	NITZSCHIA DELICATISSIMA	400	4	2
1PP	1	11.0	SCHRODERELLA DELICATULA	400	4	2
1PP	1	11.0	THALASSIOSIRA NORDENSKIÖDII	200	4	1
1PP	1	11.0	RHIZOSOLENIA HEBETATA	200	4	1
TOTAL CELLS						
PERCENT DIATOM/TOTAL						36
PERCENT DINOFLAGELLATE/TOTAL						19
PERCENT OTHER/TOTAL						45

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
1PP	1	16.0	FRAGILARIA CYLINDRUS	2000	4	27
1PP	1	16.0	FLAGELLATA	1200	4	16
1PP	1	16.0	PERIDINIUM GLOBULUS	800	4	11
1PP	1	16.0	GYMNODINIUM NANNUM	800	4	11
1PP	1	16.0	THALASSIOSIRA NORDENSKIÖDII	600	4	8
1PP	1	16.0	GYMNODINIUM PUNCTATUM	400	4	5
1PP	1	16.0	THALASSIONEMA NITZSCHIOIDES	400	4	5
1PP	1	16.0	NITZSCHIA DELICATISSIMA	400	4	5
1PP	1	16.0	CHAETOCEROS CONCAVICORNE	200	4	3
1PP	1	16.0	EXUVIELLA SP	200	4	3
1PP	1	16.0	GYMNODINIUM AGILE	200	4	3
1PP	1	16.0	COCCOLITHUS PELAGICUS	200	4	3
TOTAL CELLS						
PERCENT DIATOM/TOTAL						49
PERCENT DINOFLAGELLATE/TOTAL						32
PERCENT OTHER/TOTAL						19

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
1PP	1	39.0	FLAGELLATA	6800	4	58
1PP	1	39.0	THALASSIOSIRA NORDENSKIÖDII	1800	4	15
1PP	1	39.0	FRAGILARIA CYLINDRUS	1400	4	12
1PP	1	39.0	RHIZOSOLENIA FAERDENSIS	400	4	3
1PP	1	39.0	COCCOLITHUS HUXLEYI	400	4	3
1PP	1	39.0	TROPIDONEIS ANTARCTICA VAR POLYPLASTA	400	4	3
1PP	1	39.0	THALASSIOSIRA DECIPENS	200	4	2
1PP	1	39.0	RHIZOSOLENIA HEBETATA	200	4	2
1PP	1	39.0	GYMNODINIUM PUNCTATUM	200	4	2
TOTAL CELLS						
PERCENT DIATOM/TOTAL						37
PERCENT DINOFLAGELLATE/TOTAL						2
PERCENT OTHER/TOTAL						61

LAT 41 59.0
SONIC DEPTH 63

LONG 67 47.0 DATE 78/03/27
ONE PERCENT LIGHT DEPTH 22

TIME 1200

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
6PP	1	0.0 NAVICULA SP.	166200	4	89
6PP	1	0.0 FLAGELLATA	8600	4	5
6PP	1	0.0 FRAGILARIA CYLINDRUS	5000	4	3
6PP	1	0.0 NITZSCHIA DELICATISSIMA	1600	4	1
6PP	1	0.0 NITZSCHIA LONGISSIMA	1200	4	1
6PP	1	0.0 SKELETONEMA COSTATUM	800	4	0
6PP	1	0.0 COSCINODISCUS CENTRALIS	400	4	0
6PP	1	0.0 THALASSIOSIRA DECIPiens	400	4	0
6PP	1	0.0 TROPIDONEIS ANTARCTICA VAR POLYPLASTA	400	4	0
6PP	1	0.0 RHIZOSOLENIA HEBETATA	200	4	0
6PP	1	0.0 PLEUROSIGMA ELONGATUM	200	4	0
6PP	1	0.0 PLEUROSIGMA SP.	200	4	0
6PP	1	0.0 GYMNO DINIUM PUNCTATUM	200	4	0
6PP	1	0.0 GYMNO DINIUM AGILE	200	4	0
6PP	1	0.0 COCCOLITHUS PELAGICUS	200	4	0
					TOTAL CELLS
					PERCENT DIATOM/TOTAL
					PERCENT DINOFLAGELLATE/TOTAL
					PERCENT OTHER/TOTAL
					95
					0
					5

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
6PP	1	3.0 NAVICULA SP.	174800	4	88
6PP	1	3.0 FRAGILARIA CYLINDRUS	6800	4	3
6PP	1	3.0 FLAGELLATA	6200	4	3
6PP	1	3.0 SKELETONEMA COSTATUM	2200	4	1
6PP	1	3.0 COCCOLITHUS HUXLEYI	1800	4	1
6PP	1	3.0 NITZSCHIA LONGISSIMA	1200	4	1
6PP	1	3.0 RHIZOSOLENIA HEBETATA	800	4	0
6PP	1	3.0 THALASSIOSIRA DECIPiens	800	4	0
6PP	1	3.0 PLEUROSIGMA ELONGATUM	600	4	0
6PP	1	3.0 PERIDINIUM TROCHOIDEUM	600	4	0
6PP	1	3.0 TROPIDONEIS ANTARCTICA VAR POLYPLASTA	400	4	0
6PP	1	3.0 NITZSCHIA DELICATISSIMA	400	4	0
6PP	1	3.0 GYMNO DINIUM OCEANICUM	400	4	0
6PP	1	3.0 GYMNO DINIUM PUNCTATUM	400	4	0
6PP	1	3.0 RHIZOSOLENIA DELICATULA	400	4	0
6PP	1	3.0 GYMNO DINIUM NANNUM	400	4	0
6PP	1	3.0 THALASSIOSIRA FALLAX	200	4	0
6PP	1	3.0 THALASSIONEMA NITZSCHIOIDES	200	4	0
6PP	1	3.0 CYCLOTELLA SP.	200	4	0
6PP	1	3.0 COCCOLITHUS PELAGICUS	200	4	0
6PP	1	3.0 RHABDOSPHAERA STYLIFER	200	4	0
					TOTAL CELLS
					PERCENT DIATOM/TOTAL
					PERCENT DINOFLAGELLATE/TOTAL
					PERCENT OTHER/TOTAL
					95
					1
					4

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
6PP	1	6.0 NAVICULA SP.	196000	4	78
6PP	1	6.0 FLAGELLATA	24100	4	10
6PP	1	6.0 SKELETONEMA COSTATUM	6960	4	3
6PP	1	6.0 FRAGILARIA CYLINDRUS	5940	4	2
6PP	1	6.0 CHAETOCEROS CONCAVICORNE	3300	4	1
6PP	1	6.0 COCCOLITHUS HUXLEYI	2310	4	1
6PP	1	6.0 THALASSIOSIRA DECIPiens	2310	4	1
6PP	1	6.0 THALASSIONEMA NITZSCHIOIDES	1650	4	1
6PP	1	6.0 NITZSCHIA LONGISSIMA	1320	4	1
6PP	1	6.0 RHIZOSOLENIA DELICATULA	1320	4	1
6PP	1	6.0 NITZSCHIA DELICATISSIMA	1300	4	1
6PP	1	6.0 TROPIDONEIS ANTARCTICA VAR POLYPLASTA	660	4	0
6PP	1	6.0 THALASSIOSIRA FALLAX	660	4	0
6PP	1	6.0 GYMNO DINIUM PUNCTATUM	660	4	0
6PP	1	6.0 CYCLOTELLA SP.	330	4	0
6PP	1	6.0 EXUVIELLA PUSILLA	330	4	0
6PP	1	6.0 GYMNO DINIUM OCEANICUM	330	4	0
6PP	1	6.0 GYMNO DINIUM AGILE	330	4	0
					TOTAL CELLS
					PERCENT DIATOM/TOTAL
					PERCENT DINOFLAGELLATE/TOTAL
					PERCENT OTHER/TOTAL
					89
					1
					11

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
999	9.0	NAVICULA SP.	783200	90
999	9.0	FRAGILARIA CYLINDRUS	35800	4
999	9.0	RHIZOSOLENIA HEBETATA	14400	2
999	9.0	CHAETOCEROS CONCAVICORNE	7600	1
999	9.0	FLAGELLATA	6600	1
999	9.0	THALASSIOSIRA ROTULA	6000	1
999	9.0	THALASSIONEMA NITZSCHIOIDES	5800	1
999	9.0	SKELETONEMA COSTATUM	2000	0
999	9.0	NITZSCHIA DELICATISSIMA	2000	0
999	9.0	THALASSIOSIRA NORDENSKIÖDII	1600	0
999	9.0	THALASSIOSIRA FALLAX	1200	0
999	9.0	TROPIDONEIS ANTARCTICA VAR POLYPLASTA	1200	0
999	9.0	RHIZOSOLENIA DELICATULA	1000	0
999	9.0	PLEUROSIGMA ELONGATUM	1000	0
999	9.0	THALASSIOSIRA DECIPIENS	800	0
999	9.0	CHAETOCEROS CURVISETUS	800	0
999	9.0	MELOSIRA GLACIALIS	800	0
999	9.0	NITZSCHIA LONGISSIMA	600	0
999	9.0	GYMNOINIUM OCEANICUM	400	0
999	9.0	CYCLOTELLA SP.	200	0
999	9.0	EXUVIELLA PUSILLA	200	0
999	9.0	CERATIUM TRIPOS	200	0
999	9.0	THALASSIOSIRA GRAVIDA	200	0
999	9.0	DISTEPHANUS SPECULUM	200	0

TOTAL CELLS
 PERCENT DIATOM/TOTAL 99
 PERCENT DINOFLAGELLATE/TOTAL 0
 PERCENT OTHER/TOTAL 1

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
999	22.0	NAVICULA SP.	143800	45
999	22.0	RHIZOSOLENIA HEBETATA	69600	22
999	22.0	FRAGILARIA CYLINDRUS	25600	8
999	22.0	THALASSIOSIRA DECIPIENS	18400	6
999	22.0	THALASSIOSIRA NORDENSKIÖDII	17800	6
999	22.0	THALASSIONEMA NITZSCHIOIDES	10800	3
999	22.0	FLAGELLATA	9000	3
999	22.0	THALASSIOSIRA ROTULA	3400	1
999	22.0	CHAETOCEROS DECIPIENS	3200	1
999	22.0	CHAETOCEROS CONCAVICORNE	2200	1
999	22.0	THALASSIOSIRA FALLAX	2200	1
999	22.0	PROROCENTRUM MICANS	2000	1
999	22.0	MELOSIRA GLACIALIS	1400	0
999	22.0	CHAETOCEROS PELAGICUS	1200	0
999	22.0	COSCIINODISCUS CENTRALIS	1200	0
999	22.0	NITZSCHIA LONGISSIMA	1000	0
999	22.0	NITZSCHIA DELICATISSIMA	1000	0
999	22.0	TROPIDONEIS ANTARCTICA VAR POLYPLASTA	800	0
999	22.0	RHIZOSOLENIA DELICATULA	800	0
999	22.0	PLEUROSIGMA ELONGATUM	800	0
999	22.0	COCCOLITHUS HUXLEYI	400	0
999	22.0	CORETHRON CRIOPHILUM	200	0
999	22.0	THALASSIOSIRA GRAVIDA	200	0
999	22.0	COSCIINODISCUS EXCENTRICUS	200	0

TOTAL CELLS
 PERCENT DIATOM/TOTAL 96
 PERCENT DINOFLAGELLATE/TOTAL 1
 PERCENT OTHER/TOTAL 3

LAT 40 28.0
SONIC DEPTH 217

LONG 67 19.0 DATE 78/03/28
ONE PERCENT LIGHT DEPTH 21

TIME 1000

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
10PP	1	0.0 THALASSIOSIRA NORDENSKIÖDII	247500	4 51
10PP	1	0.0 NAVICULA SP.	55130	4 11
10PP	1	0.0 FLAGELLATA	49600	4 10
10PP	1	0.0 THALASSIOSIRA FALLAX	20500	4 4
10PP	1	0.0 SKELETONEMA COSTATUM	17400	4 4
10PP	1	0.0 CHAETOCEROS SUBSECUNDUM	15500	4 3
10PP	1	0.0 THALASSIOSIRA DECIPIENS	11600	4 2
10PP	1	0.0 CHAETOCEROS CURVISETUS	11200	4 2
10PP	1	0.0 CHAETOCEROS AFFINIS VAR WILLEY	8230	4 2
10PP	1	0.0 CHAETOCEROS SOCIALIS	6640	4 1
10PP	1	0.0 THALASSIOSIRA GRAVIDA	5900	4 1
10PP	1	0.0 CHAETOCEROS SOCIALIS	5900	4 1
10PP	1	0.0 NITZSCHIA DELICATISSIMA	3300	4 1
10PP	1	0.0 MELOSIRA GLACIALIS	3200	4 1
10PP	1	0.0 NITZSCHIA LONGISSIMA	2600	4 1
10PP	1	0.0 RHIZOSOLENIA FAERØENSIS	2600	4 1
10PP	1	0.0 CHAETOCEROS PELAGICUS	2600	4 1
10PP	1	0.0 FRAGILARIA CYLINDRUS	2300	4 0
10PP	1	0.0 CHAETOCEROS DIDYMUS	2290	4 0
10PP	1	0.0 RHIZOSOLENIA HEBETATA	1630	4 0
10PP	1	0.0 PLEUROSIGMA SP.	1320	4 0
10PP	1	0.0 EUCAMPIA ZODIACUS	1300	4 0
10PP	1	0.0 THALASSIONEMA NITZSCHIOIDES	990	4 0
10PP	1	0.0 TROPIDONEIS ANTARCTICA VAR POLYPLASTA	990	4 0
10PP	1	0.0 GYROSIGMA SP.	660	4 0
10PP	1	0.0 LEPTOCYLINDRUS DANICUS	660	4 0
10PP	1	0.0 LEPTOCYLINDRUS MINIMUS	330	4 0
10PP	1	0.0 DINOPHYSIS NORVEGICA	330	4 0
10PP	1	0.0 GONIAULAX SP.	330	4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 90
PERCENT DINOFLAGELLATE/TOTAL 0
PERCENT OTHER/TOTAL 10

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
10PP	1	3.0 NAVICULA SP.	287300	4 41
10PP	1	3.0 THALASSIOSIRA NORDENSKIÖDII	208000	4 29
10PP	1	3.0 SKELETONEMA COSTATUM	39600	4 6
10PP	1	3.0 CHAETOCEROS SOCIALIS	35600	4 5
10PP	1	3.0 FLAGELLATA	23100	4 3
10PP	1	3.0 THALASSIONEMA NITZSCHIOIDES	17400	4 2
10PP	1	3.0 CHAETOCEROS SUBSECUNDUM	12300	4 2
10PP	1	3.0 THALASSIOSIRA ROTULA	11200	4 2
10PP	1	3.0 MELOSIRA GLACIALIS	10800	4 2
10PP	1	3.0 THALASSIOSIRA GRAVIDA	7800	4 1
10PP	1	3.0 FRAGILARIA CYLINDRUS	6300	4 1
10PP	1	3.0 THALASSIOSIRA DECIPIENS	5960	4 1
10PP	1	3.0 CHAETOCEROS SOCIALIS	5900	4 1
10PP	1	3.0 CHAETOCEROS CURVISETUS	5000	4 1
10PP	1	3.0 NITZSCHIA LONGISSIMA	4620	4 1
10PP	1	3.0 CHAETOCEROS CONCAVICORNE	4600	4 1
10PP	1	3.0 THALASSIOSIRA FALLAX	3000	4 0
10PP	1	3.0 CHAETOCEROS DECIPIENS	2630	4 0
10PP	1	3.0 MELOSIRA SULCATA	2600	4 0
10PP	1	3.0 PERIDINIUM TROCHOIDEUM	2000	4 0
10PP	1	3.0 EUCAMPIA ZODIACUS	2000	4 0
10PP	1	3.0 NITZSCHIA DELICATISSIMA	2000	4 0
10PP	1	3.0 THALASSIOSIRA FALLAX	2000	4 0
10PP	1	3.0 THALASSIOSIRA CONDENSATA	990	4 0
10PP	1	3.0 GYROSIGMA SP.	660	4 0
10PP	1	3.0 COCCOLITHUS HUXLEYI	660	4 0
10PP	1	3.0 RHIZOSOLENIA FAERØENSIS	660	4 0
10PP	1	3.0 RHIZOSOLENIA HEBETATA	330	4 0
10PP	1	3.0 PLEUROSIGMA SP.	330	4 0
10PP	1	3.0 LEPTOCYLINDRUS MINIMUS	330	4 0
10PP	1	3.0 GONIAULAX SP.	330	4 0
10PP	1	3.0 GONIAULAX MINIMA	330	4 0
10PP	1	3.0 EXUVIELLA PUSILLA	330	4 0
10PP	1	3.0 COCCOLITHUS PELAGICUS	330	4 0
10PP	1	3.0 DISTEPHANUS SPECULUM	330	4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 96
PERCENT DINOFLAGELLATE/TOTAL 0
PERCENT OTHER/TOTAL 3

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
1099	1	6.0	THALASSIOSIRA NORDENSKIODII	321700	43
1099	1	6.0	NAVICULA SP.	264000	35
1099	1	6.0	SKELETONEMA COSTATUM	38900	5
1099	1	6.0	CHAETOCEROS DEBILE	17500	2
1099	1	6.0	CHAETOCEROS AFFINIS VAR WILLEY	17200	2
1099	1	6.0	CHAETOCEROS SOCIALIS	16500	2
1099	1	6.0	FLAGELLATA	13500	2
1099	1	6.0	CHAETOCEROS CURVISETUS	13300	2
1099	1	6.0	THALASSIOSIRA FALLAX	11200	1
1099	1	6.0	THALASSIOSIRA ROTULA	5000	1
1099	1	6.0	THALASSIOSIRA GRAVIDA	4290	1
1099	1	6.0	FRAGILARIA CYLINDRUS	3300	0
1099	1	6.0	NITZSCHIA DELICATISSIMA	3300	0
1099	1	6.0	THALASSIOSIRA DECIPIENS	3300	0
1099	1	6.0	CHAETOCEROS SOCIALIS	3000	0
1099	1	6.0	MELOSIRA GLACIALIS	2200	0
1099	1	6.0	NITZSCHIA LONGISSIMA	2000	0
1099	1	6.0	THALASSIOSIRA CONDENSATA	1600	0
1099	1	6.0	CHAETOCEROS DECIPIENS	1600	0
1099	1	6.0	GYMNOINIUM KOVALEWSKII	1300	0
1099	1	6.0	EUCAMPIA ZODIACUS	990	0
1099	1	6.0	THALASSIONEMA NITZSCHIOIDES	990	0
1099	1	6.0	GYROSIGMA SP.	660	0
1099	1	6.0	PLEUROSIGMA SP.	660	0
1099	1	6.0	CHAETOCEROS SUBSECUNDUM	660	0
1099	1	6.0	CHAETOCEROS CONCAVICORNE	330	0
1099	1	6.0	RHIZOSOLENIA FAEROENSIS	330	0
1099	1	6.0	RHIZOSOLENIA ALATA FORMA INDICA	330	0
1099	1	6.0	CONIAULAX SP.	330	0
1099	1	6.0	PERIDINIUM TROCHOIDEUM	330	0
1099	1	6.0	GYRODINIUM WULFFII	330	0
1099	1	6.0	COCCOLITHUS HUXLEYI	330	0
1099	1	6.0	COCCOLITHUS PELAGICUS	330	0
1099	1	6.0	DISTEPHANUS SPECULUM	330	0
TOTAL CELLS					98
PERCENT DIATOM/TOTAL					0
PERCENT DINOFLAGELLATE/TOTAL					0
PERCENT OTHER/TOTAL					2

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
1099	1	9.0	NAVICULA SP.	217100	38
1099	1	9.0	THALASSIOSIRA NORDENSKIODII	175500	31
1099	1	9.0	FLAGELLATA	51500	9
1099	1	9.0	THALASSIOSIRA DECIPIENS	15160	3
1099	1	9.0	THALASSIOSIRA GRAVIDA	14100	2
1099	1	9.0	SKELETONEMA COSTATUM	12500	2
1099	1	9.0	THALASSIONEMA NITZSCHIOIDES	8600	2
1099	1	9.0	MELOSIRA GLACIALIS	8300	1
1099	1	9.0	CHAETOCEROS CONCAVICORNE	6600	1
1099	1	9.0	CHAETOCEROS SUBSECUNDUM	6600	1
1099	1	9.0	FRAGILARIA CYLINDRUS	6200	1
1099	1	9.0	COCCOLITHUS PELAGICUS	5300	1
1099	1	9.0	CHAETOCEROS SOCIALIS	5200	1
1099	1	9.0	THALASSIOSIRA ROTULA	5000	1
1099	1	9.0	CHAETOCEROS SOCIALIS	3600	1
1099	1	9.0	CHAETOCEROS DEBILE	3300	1
1099	1	9.0	RHIZOSOLENIA HEBETATA	3200	1
1099	1	9.0	BIDOLPHIA AURITA	2600	0
1099	1	9.0	NITZSCHIA DELICATISSIMA	2300	0
1099	1	9.0	NITZSCHIA LONGISSIMA	2260	0
1099	1	9.0	RHIZOSOLENIA FAEROENSIS	1320	0
1099	1	9.0	PLEUROSIGMA SP.	1320	0
1099	1	9.0	GYROSIGMA SP.	990	0
1099	1	9.0	THALASSIOSIRA CONDENSATA	990	0
1099	1	9.0	TROPIDONEIS ANTARCTICA VAR POLYPLASTA	660	0
1099	1	9.0	GYMNOINIUM OCEANICUM	660	0
1099	1	9.0	THALASSIOSIRA FALLAX	660	0
1099	1	9.0	THALASSIOTHRIX FRAUENFELDI	660	0
1099	1	9.0	BACTERIOSIRA FRAGILIS	330	0
1099	1	9.0	THALASSIOTHRIX LONGISSIMA	330	0
1099	1	9.0	EXUVIELLA PUSILLA	330	0
1099	1	9.0	GYMNOINIUM KOVALEWSKII	330	0
1099	1	9.0	COCCOLITHUS HUXLEYI	330	0
1099	1	9.0	DISTEPHANUS SPECULUM	330	0
TOTAL CELLS					90
PERCENT DIATOM/TOTAL					0
PERCENT DINOFLAGELLATE/TOTAL					0
PERCENT OTHER/TOTAL					10

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
10PP	1	21.0 NAVICULA SP.	147900	4 39
10PP	1	21.0 FLAGELLATA	99300	4 26
10PP	1	21.0 THALASSIOSIRA NORDENSKIÖLDII	66000	4 17
10PP	1	21.0 RHIZOSOLENIA HEBETATA	23800	4 6
10PP	1	21.0 SKELETONEMA COSTATUM	10500	4 3
10PP	1	21.0 THALASSIOSIRA FALLAX	5900	4 2
10PP	1	21.0 THALASSIONEMA NITZSCHIOIDES	4260	4 1
10PP	1	21.0 THALASSIOSIRA DECIPIENS	3330	4 1
10PP	1	21.0 THALASSIOSIRA GRAVIDA	2900	4 1
10PP	1	21.0 THALASSIOSIRA CONDENSATA	2600	4 1
10PP	1	21.0 MELOSIRA GLACIALIS	2500	4 1
10PP	1	21.0 THALASSIOSIRA ROTULA	2300	4 1
10PP	1	21.0 NITZSCHIA DELICATISSIMA	2000	4 1
10PP	1	21.0 CHAETOCEROS AFFINIS VAR WILLEY	2000	4 1
10PP	1	21.0 FRAGILARIA CYLINDRUS	1650	4 0
10PP	1	21.0 PLEUROSIGMA SP.	1320	4 0
10PP	1	21.0 NITZSCHIA LONGISSIMA	1320	4 0
10PP	1	21.0 TROPIDONEIS ANTARCTICA VAR POLYPLASTA	1320	4 0
10PP	1	21.0 GYMNOIDINIUM PUNCTATUM	660	4 0
10PP	1	21.0 GYMNOIDINIUM OCEANICUM	660	4 0
10PP	1	21.0 CHAETOCEROS OIDYMUS	660	4 0
10PP	1	21.0 LEPTOCYLINDRUS DANICUS	660	4 0
10PP	1	21.0 GYRODINIUM WULFFII	330	4 0
10PP	1	21.0 GYROSIGMA SP.	330	4 0
10PP	1	21.0 DISTEPHANUS SPECULUM	330	4 0
10PP	1	21.0 RHIZOSOLENIA FAEROENSIS	330	4 0
10PP	1	21.0 PERIDINIUM TROCHOIDEUM	330	4 0
10PP	1	21.0 COCCOLITHUS HUXLEYI	330	4 0
10PP	1	21.0 CHAETOCEROS SOCIALIS	230	4 0
			TOTAL CELLS	
			PERCENT DIATOM/TOTAL	74
			PERCENT DINOFLAGELLATE/TOTAL	1
			PERCENT OTHER/TOTAL	26

LAT 42 09.0
SONIC DEPTH 165

LONG 69 06.0 DATE 78/03/29
ONE PERCENT LIGHT DEPTH 34

TIME 1000

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
1699	0.0	THALASSIOSIRA NORDENSKIÖDII	658400	50
1699	0.0	THALASSIOSIRA GRAVIDA	123200	9
1699	0.0	NAVICULA SP.	122700	9
1699	0.0	RHIZOSOLENIA FAEROENSIS	56400	4
1699	0.0	FLAGELLATA	45000	3
1699	0.0	SKELETONEMA COSTATUM	44300	3
1699	0.0	MELOSIRA GLACIALIS	36500	3
1699	0.0	THALASSIOSIRA FALLAX	33100	3
1699	0.0	THALASSIONEMA NITZSCHIOIDES	31900	2
1699	0.0	RHIZOSOLENIA HEBETATA	27970	2
1699	0.0	THALASSIOSIRA ROTULA	24700	2
1699	0.0	MELOSIRA MONILIFORMIS	18200	1
1699	0.0	CHAETOCEROS SOCIALIS	15300	1
1699	0.0	THALASSIOSIRA GRAVIDA	13800	1
1699	0.0	TROPIDONEIS ANTARCTICA VAR POLYPLASTA	9700	1
1699	0.0	THALASSIOSIRA CONDENSATA	8570	1
1699	0.0	THALASSIOSIRA DECIPIENS	8000	1
1699	0.0	RHIZOSOLENIA FAEROENSIS	6800	1
1699	0.0	CHAETOCEROS COMPRESSUS	5100	0
1699	0.0	LEPTOCYLINDRUS DANICUS	4570	0
1699	0.0	CHAETOCEROS DECIPIENS	4000	0
1699	0.0	NITZSCHIA DELICATISSIMA	3990	0
1699	0.0	NITZSCHIA LONGISSIMA	3400	0
1699	0.0	GYMNODINIUM KOVALEWSKII	1700	0
1699	0.0	CHAETOCEROS CONCAVICORNE	1140	0
1699	0.0	COCCOLITHUS HUXLEYI	1100	0
1699	0.0	GONIAULAX MINIMA	1100	0
1699	0.0	BIDDULPHIA AURITA	1100	0
1699	0.0	PERIDINIUM PELLUCIDUM	1100	0
1699	0.0	COSCIINODISCUS EXCENTRICUS	570	0
1699	0.0	GYROSIGMA SP.	570	0
1699	0.0	GYRINIUM OVUM	570	0
1699	0.0	SYRACOSPHAERA SP.	570	0
1699	0.0	COCCOLITHUS PELAGICUS	570	0
TOTAL CELLS				96
PERCENT DIATOM/TOTAL				0
PERCENT DINOFLAGELLATE/TOTAL				0
PERCENT OTHER/TOTAL				4

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
1699	4.0	FLAGELLATA	57570	23
1699	4.0	THALASSIOSIRA NORDENSKIÖDII	46800	18
1699	4.0	NAVICULA SP.	41570	16
1699	4.0	CHAETOCEROS COMPRESSUS	30200	12
1699	4.0	THALASSIOSIRA GRAVIDA	22800	9
1699	4.0	RHIZOSOLENIA FAEROENSIS	9700	4
1699	4.0	RHIZOSOLENIA HEBETATA	8570	3
1699	4.0	CHAETOCEROS SOCIALIS	7470	3
1699	4.0	THALASSIOSIRA FALLAX	6870	3
1699	4.0	FRAGILARIA CYLINDRUS	4600	2
1699	4.0	MELOSIRA GLACIALIS	4000	2
1699	4.0	SKELETONEMA COSTATUM	3400	1
1699	4.0	CHAETOCEROS CONCAVICORNE	3400	1
1699	4.0	THALASSIOSIRA DECIPIENS	1700	1
1699	4.0	THALASSIOSIRA CONDENSATA	1670	1
1699	4.0	COCCOLITHUS HUXLEYI	1100	0
1699	4.0	TROPIDONEIS ANTARCTICA VAR POLYPLASTA	570	0
1699	4.0	NITZSCHIA LONGISSIMA	570	0
1699	4.0	CYCLOTELLA SP.	570	0
1699	4.0	BIDDULPHIA AURITA	570	0
1699	4.0	GYMNODINIUM OCEANICUM	570	0
1699	4.0	GONIAULAX SP.	570	0
TOTAL CELLS				77
PERCENT DIATOM/TOTAL				0
PERCENT DINOFLAGELLATE/TOTAL				0
PERCENT OTHER/TOTAL				23

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
1699	10.0	NAVICULA SP.	55270	31
1699	10.0	THALASSIOSIRA NORDENSKIÖDII	40500	23
1699	10.0	FLAGELLATA	28000	16
1699	10.0	THALASSIOSIRA DECIPIENS	9100	5
1699	10.0	CHAETOCEROS COMPRESSUS	9100	5
1699	10.0	THALASSIOSIRA CONDENSATA	7400	4
1699	10.0	SKELETONEMA COSTATUM	4600	3
1699	10.0	THALASSIOSIRA FALLAX	4500	3
1699	10.0	RHIZOSOLENIA HEBETATA	4000	2
1699	10.0	CHAETOCEROS DEBILE	3400	2
1699	10.0	CHAETOCEROS SOCIALIS	2870	2
1699	10.0	THALASSIOSIRA GRAVIDA	1670	1
1699	10.0	RHIZOSOLENIA FAEROENSIS	1140	1
1699	10.0	MELOSIRA MONILIFORMIS	1100	1
1699	10.0	MELOSIRA GLACIALIS	1100	1
1699	10.0	COSCIINOSIRA POLYCHORDA	1100	1
1699	10.0	TROPIDONEIS ANTARCTICA VAR POLYPLASTA	570	0
1699	10.0	FRAGILARIA CYLINDRUS	570	0
1699	10.0	NITZSCHIA DELICATISSIMA	570	0
1699	10.0	NITZSCHIA LONGISSIMA	570	0
1699	10.0	THALASSIONEMA NITZSCHIOIDES	570	0
1699	10.0	PERIDINIUM TROCHOIDEUM	570	0
1699	10.0	RHIZOSOLENIA FAEROENSIS	570	0
TOTAL CELLS				94
PERCENT DIATOM/TOTAL				0
PERCENT DINOFLAGELLATE/TOTAL				0
PERCENT OTHER/TOTAL				16

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
16PP	1	14.0	FLAGELLATA	177300	4 19
16PP	1	14.0	NAVICULA SP.	131100	4 14
16PP	1	14.0	THALASSIOSIRA GRAVIDA	122600	4 13
16PP	1	14.0	THALASSIOSIRA FALLAX	109400	4 12
16PP	1	14.0	SKELETONEMA COSTATUM	96900	4 10
16PP	1	14.0	RHIZOLENIA FAERDENSIS	66600	4 7
16PP	1	14.0	THALASSIOSIRA NORDENSKIODII	66100	4 7
16PP	1	14.0	MELOSIRA MONILIFORMIS	51300	4 5
16PP	1	14.0	NITZSCHIA DELICATISSIMA	39900	4 4
16PP	1	14.0	CHAETOCEROS SOCIALIS	21100	4 2
16PP	1	14.0	FRAGILARIA CYLINDRUS	12500	4 1
16PP	1	14.0	RHIZOLENIA HEBETATA	9700	4 1
16PP	1	14.0	CHAETOCEROS CONCAVICORNE	6800	4 1
16PP	1	14.0	MELOSIRA GLACIALIS	5800	4 1
16PP	1	14.0	CHAETOCEROS CURVISETUS	5700	4 1
16PP	1	14.0	CHAETOCEROS LACINIOSUM	4570	4 0
16PP	1	14.0	TROPIDONEIS ANTARCTICA VAR POLYPLASTA	3400	4 0
16PP	1	14.0	CHAETOCEROS AFFINIS VAR WILLEY	2900	4 0
16PP	1	14.0	CHAETOCEROS CONVOLUTUM	2800	4 0
16PP	1	14.0	CHAETOCEROS COMPRESSUS	2300	4 0
16PP	1	14.0	THALASSIOSIRA DECIPiens	2270	4 0
16PP	1	14.0	THALASSIOSIRA CONDENSATA	1700	4 0
16PP	1	14.0	COSCIINODISCUS EXCENTRICUS	570	4 0
16PP	1	14.0	NITZSCHIA LONGISSIMA	570	4 0
16PP	1	14.0	GYMNODINIUM KOVALEWSKII	570	4 0
16PP	1	14.0	GYMNODINIUM AGILE	570	4 0
16PP	1	14.0	GYMNODINIUM SPLENDENS	570	4 0
					TOTAL CELLS
					PERCENT DIATOM/TOTAL 81
					PERCENT DINOFLAGELLATE/TOTAL 0
					PERCENT OTHER/TOTAL 19

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
16PP	1	34.0	FLAGELLATA	130700	4 28
16PP	1	34.0	NAVICULA SP.	78970	4 17
16PP	1	34.0	THALASSIOSIRA NORDENSKIODII	74100	4 16
16PP	1	34.0	RHIZOLENIA HEBETATA	37000	4 8
16PP	1	34.0	FRAGILARIA CYLINDRUS	33100	4 7
16PP	1	34.0	THALASSIOSIRA GRAVIDA	21700	4 5
16PP	1	34.0	THALASSIOSIRA FALLAX	12400	4 3
16PP	1	34.0	SKELETONEMA COSTATUM	10900	4 2
16PP	1	34.0	CHAETOCEROS CONCAVICORNE	10400	4 2
16PP	1	34.0	NITZSCHIA DELICATISSIMA	7400	4 2
16PP	1	34.0	CHAETOCEROS SOCIALIS	6800	4 1
16PP	1	34.0	CHAETOCEROS CURVISETUS	5140	4 1
16PP	1	34.0	MELOSIRA MONILIFORMIS	4800	4 1
16PP	1	34.0	CHAETOCEROS LACINIOSUM	4000	4 1
16PP	1	34.0	THALASSIONEMA NITZSCHIOIDES	3800	4 1
16PP	1	34.0	THALASSIOSIRA CONDENSATA	3400	4 1
16PP	1	34.0	PLEUROSIGMA ELONGATUM	2800	4 1
16PP	1	34.0	MELOSIRA GLACIALIS	2800	4 1
16PP	1	34.0	TROPIDONEIS ANTARCTICA VAR POLYPLASTA	2800	4 1
16PP	1	34.0	GYMNODINIUM OCEANICUM	1700	4 0
16PP	1	34.0	COSCIINODISCUS EXCENTRICUS	1670	4 0
16PP	1	34.0	THALASSIOSIRA ROTULA	1600	4 0
16PP	1	34.0	MELOSIRA SULCATA	1600	4 0
16PP	1	34.0	RHIZOLENIA FAERDENSIS	1600	4 0
16PP	1	34.0	THALASSIOSIRA DECIPiens	1200	4 0
16PP	1	34.0	COSCIINODISCUS OCULUS-IRIDIS	800	4 0
16PP	1	34.0	THALASSIOTHRIX LONGISSIMA	570	4 0
16PP	1	34.0	GYMNODINIUM AGILE	570	4 0
16PP	1	34.0	GYROSIGMA SP.	570	4 0
16PP	1	34.0	DISTEPHANUS SPECULUM	570	4 0
16PP	1	34.0	GYMNODINIUM KOVALEWSKII	400	4 0
16PP	1	34.0	CHAETOCEROS SP.	370	4 0
					TOTAL CELLS
					PERCENT DIATOM/TOTAL 71
					PERCENT DINOFLAGELLATE/TOTAL 1
					PERCENT OTHER/TOTAL 28

LAT 41 27.0
SONIC DEPTH 50

LONG 68 17.0 DATE 78/03/30
ONE PERCENT LIGHT DEPTH 27

TIME 0900

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
20PP	1	0.0	NAVICULA SP.	96000	4 29
20PP	1	0.0	THALASSIOSIRA NORDENSKIÖDII	54000	4 16
20PP	1	0.0	CHAETOCEROS SOCIALIS	43000	4 13
20PP	1	0.0	THALASSIONEMA NITZSCHIOIDES	41000	4 12
20PP	1	0.0	FLAGELLATA	27600	4 8
20PP	1	0.0	SKELETONEMA COSTATUM	21000	4 6
20PP	1	0.0	THALASSIOSIRA GRAVIDA	11000	4 3
20PP	1	0.0	RHIZOSOLENIA HEBETATA	10000	4 3
20PP	1	0.0	FRAGILARIA CYLINDRUS	8000	4 2
20PP	1	0.0	NITZSCHIA LONGISSIMA	5000	4 1
20PP	1	0.0	GYMNODINIUM OCEANICUM	4000	4 1
20PP	1	0.0	PLEUROSIGMA ELONGATUM	3000	4 1
20PP	1	0.0	LAUDERIA BOREALIS	2000	4 1
20PP	1	0.0	COCCOLITHUS HUXLEYI	2000	4 1
20PP	1	0.0	LEPTOCYLINDRUS MINIMUS	2000	4 1
20PP	1	0.0	TROPIDONEIS ANTARCTICA VAR POLYPLASTA	1000	4 0
20PP	1	0.0	MELOSIRA GLACIALIS	1000	4 0
20PP	1	0.0	CHAETOCEROS GRACILE	1000	4 0
20PP	1	0.0	GYMNODINIUM PUNCTATUM	1000	4 0
20PP	1	0.0	GONIAULAX MINIMA	1000	4 0
20PP	1	0.0	DISTEPHANUS SPECULUM	1000	4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 89
PERCENT DINOFLAGELLATE/TOTAL 2
PERCENT OTHER/TOTAL 9

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
20PP	1	3.0	FLAGELLATA	132000	4 31
20PP	1	3.0	NAVICULA SP.	96000	4 22
20PP	1	3.0	THALASSIONEMA NITZSCHIOIDES	33000	4 8
20PP	1	3.0	SKELETONEMA COSTATUM	33000	4 8
20PP	1	3.0	THALASSIOSIRA NORDENSKIÖDII	24000	4 6
20PP	1	3.0	FRAGILARIA CYLINDRUS	14000	4 3
20PP	1	3.0	THALASSIOSIRA GRAVIDA	14000	4 3
20PP	1	3.0	CHAETOCEROS CONVOLUTUM	10000	4 2
20PP	1	3.0	CHAETOCEROS SOCIALIS	9000	4 2
20PP	1	3.0	RHIZOSOLENIA DELICATULA	8000	4 2
20PP	1	3.0	RHIZOSOLENIA HEBETATA	8000	4 2
20PP	1	3.0	LEPTOCYLINDRUS MINIMUS	8000	4 2
20PP	1	3.0	BIDDULPHIA AURITA	7000	4 2
20PP	1	3.0	COCCOLITHUS HUXLEYI	5000	4 1
20PP	1	3.0	PLEUROSIGMA ELONGATUM	5000	4 1
20PP	1	3.0	MELOSIRA GLACIALIS	3000	4 1
20PP	1	3.0	TROPIDONEIS ANTARCTICA VAR POLYPLASTA	3000	4 1
20PP	1	3.0	THALASSIOSIRA CONDENSATA	2000	4 0
20PP	1	3.0	GYMNODINIUM OCEANICUM	2000	4 0
20PP	1	3.0	NITZSCHIA LONGISSIMA	2000	4 0
20PP	1	3.0	BACTERIOSIRA FRAGILIS	2000	4 0
20PP	1	3.0	RHIZOSOLENIA FRAGILISSIMA	2000	4 0
20PP	1	3.0	COSCIINODISCUS ASTEROMPHALUS VAR SUBBULIENS	2000	4 0
20PP	1	3.0	GYRODINIUM PRUNUS	2000	4 0
20PP	1	3.0	COCCOLITHUS PELAGICUS	1000	4 0
20PP	1	3.0	COSCIINODISCUS CENTRALIS	1000	4 0
20PP	1	3.0	GYMNODINIUM PUNCTATUM	1000	4 0
20PP	1	3.0	PERIDINIUM TROCHOIDEUM	1000	4 0
20PP	1	3.0	GYROSIGMA SP	200	4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 67
PERCENT DINOFLAGELLATE/TOTAL 1
PERCENT OTHER/TOTAL 32

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
20PP	1	8.0 NAVICULA SP.	55000	30
20PP	1	8.0 FLAGELLATA	31000	17
20PP	1	8.0 THALASSIOSIRA NORDENSKIODII	17000	9
20PP	1	8.0 MELOSIRA GLACIALIS	11000	6
20PP	1	8.0 SKELETONEMA COSTATUM	10000	5
20PP	1	8.0 CHAETOCEROS SOCIALIS	8000	4
20PP	1	8.0 THALASSIONEMA NITZSCHIOIDES	6000	3
20PP	1	8.0 MELOSIRA SULCATA	6000	3
20PP	1	8.0 DITYLUM BRIGHTWELLII	4000	2
20PP	1	8.0 THALASSIOSIRA CONDENSATA	4000	2
20PP	1	8.0 RHIZOSOLENIA HEBETATA	4000	2
20PP	1	8.0 RHIZOSOLENIA FRAGILISSIMA	4000	2
20PP	1	8.0 FRAGILARIA CYLINDRUS	3000	2
20PP	1	8.0 THALASSIOSIRA GRAVIDA	3000	2
20PP	1	8.0 THALASSIOSIRA FALLAX	2000	1
20PP	1	8.0 PERIDINIUM PELLUCIDUM	2000	1
20PP	1	8.0 NITZSCHIA LONGISSIMA	2000	1
20PP	1	8.0 DISTEPHANUS SPECULUM	2000	1
20PP	1	8.0 COCCOLITHUS HUXLEYI	2000	1
20PP	1	8.0 COCCOLITHUS PELAGICUS	2000	1
20PP	1	8.0 COSCINODISCUS WAILESII	2000	1
20PP	1	8.0 PLEUROSIGMA ELONGATUM	1000	1
20PP	1	8.0 GYROSIGMA SP	1000	1
20PP	1	8.0 TROPIDONEIS ANTARCTICA VAR POLYPLASTA	1000	1
20PP	1	8.0 DIATOMA ELONGATA	1000	1
20PP	1	8.0 CYCLOTELLA SP.	1000	1
20PP	1	8.0 GYMNODINIUM OCEANICUM	1000	1

TOTAL CELLS
PERCENT DIATOM/TOTAL 78
PERCENT DINOFLAGELLATE/TOTAL 2
PERCENT OTHER/TOTAL 20

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
20PP	1	11.0 FLAGELLATA	50000	22
20PP	1	11.0 NAVICULA SP.	44000	19
20PP	1	11.0 CHAETOCEROS SOCIALIS	42000	19
20PP	1	11.0 SKELETONEMA COSTATUM	25000	11
20PP	1	11.0 RHIZOSOLENIA HEBETATA	10000	4
20PP	1	11.0 THALASSIOSIRA CONDENSATA	10000	4
20PP	1	11.0 FRAGILARIA CYLINDRUS	6000	3
20PP	1	11.0 MELOSIRA SULCATA	6000	3
20PP	1	11.0 THALASSIOSIRA NORDENSKIODII	6000	3
20PP	1	11.0 RHIZOSOLENIA FRAGILISSIMA	5000	2
20PP	1	11.0 PLEUROSIGMA ELONGATUM	3000	1
20PP	1	11.0 THALASSIOSIRA GRAVIDA	3000	1
20PP	1	11.0 PERIDINIUM GLOBULUS	3000	1
20PP	1	11.0 MELOSIRA GLACIALIS	2000	1
20PP	1	11.0 LEPTOCYLINDRUS MINIMUS	2000	1
20PP	1	11.0 DIATOMA ELONGATA	2000	1
20PP	1	11.0 MELOSIRA MONILIFORMIS	2000	1
20PP	1	11.0 GYMNODINIUM PUNCTATUM	2000	1
20PP	1	11.0 BIDDULPHIA AURITA	1000	0
20PP	1	11.0 COCCOLITHUS HUXLEYI	1000	0
20PP	1	11.0 COCCOLITHUS PELAGICUS	1000	0
20PP	1	11.0 RHABDOSPHAERA STYLIFER	1000	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 74
PERCENT DINOFLAGELLATE/TOTAL 2
PERCENT OTHER/TOTAL 23

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
20PP	1	27.0 CHAETOCEROS SOCIALIS	237000	44
20PP	1	27.0 FLAGELLATA	89000	16
20PP	1	27.0 NAVICULA SP.	54000	10
20PP	1	27.0 THALASSIOSIRA NORDENSKIODII	47000	9
20PP	1	27.0 FRAGILARIA CYLINDRUS	29000	5
20PP	1	27.0 RHIZOSOLENIA HEBETATA	17000	3
20PP	1	27.0 CHAETOCEROS AFFINIS VAR WILLEY	7000	1
20PP	1	27.0 THALASSIOSIRA GRAVIDA	7000	1
20PP	1	27.0 THALASSIOSIRA CONDENSATA	6000	1
20PP	1	27.0 PLEUROSIGMA ELONGATUM	6000	1
20PP	1	27.0 RHIZOSOLENIA DELICATULA	5000	1
20PP	1	27.0 NITZSCHIA LONGISSIMA	5000	1
20PP	1	27.0 COCCOLITHUS HUXLEYI	5000	1
20PP	1	27.0 MELOSIRA GLACIALIS	4000	1
20PP	1	27.0 SKELETONEMA COSTATUM	4000	1
20PP	1	27.0 BACTERIOSIRA FRAGILIS	3000	1
20PP	1	27.0 COCCOLITHUS PELAGICUS	2000	0
20PP	1	27.0 GYMNODINIUM OCEANICUM	2000	0
20PP	1	27.0 GYROSIGMA SP	1000	0
20PP	1	27.0 TROPIDONEIS ANTARCTICA VAR POLYPLASTA	1000	0
20PP	1	27.0 LEPTOCYLINDRUS MINIMUS	1000	0
20PP	1	27.0 RHIZOSOLENIA FRAGILISSIMA	1000	0
20PP	1	27.0 PERIDINIUM PELLUCIDUM	1000	0
20PP	1	27.0 PERIDINIUM GLOBULUS	1000	0
20PP	1	27.0 SYRACOSPHAERA SP.	1000	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 81
PERCENT DINOFLAGELLATE/TOTAL 1
PERCENT OTHER/TOTAL 18

LAT 41 13.0
SONIC DEPTH 35

LONG 68 01.0 DATE 78/03/30
ONE PERCENT LIGHT DEPTH 16

TIME 1200

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
21PP	1	0.0	CHAETOCEROS SOCIALIS	118000	4 33
21PP	1	0.0	FLAGELLATA	45000	4 13
21PP	1	0.0	NAVICULA SP.	36000	4 10
21PP	1	0.0	FRAGILARIA CYLINDRUS	27000	4 8
21PP	1	0.0	CHAETOCEROS SUBSECUNDUM	13000	4 4
21PP	1	0.0	THALASSIOSIRA GRAVIDA	12000	4 3
21PP	1	0.0	THALASSIOSIRA CONDENSATA	11000	4 3
21PP	1	0.0	SKELETONEMA COSTATUM	11000	4 3
21PP	1	0.0	THALASSIONEMA NITZSCHIOIDES	8000	4 2
21PP	1	0.0	MELOSIRA GLACIALIS	8000	4 2
21PP	1	0.0	RHIZOLENIA HEBETATA	7000	4 2
21PP	1	0.0	BACTERIOSIRA FRAGILIS	6000	4 2
21PP	1	0.0	DIATOMA ELONGATA	6000	4 2
21PP	1	0.0	THALASSIOSIRA FALLAX	5000	4 1
21PP	1	0.0	CHAETOCEROS CONVOLUTUM	4000	4 1
21PP	1	0.0	CHAETOCEROS DECIPiens	4000	4 1
21PP	1	0.0	THALASSIOSIRA NORDENSKIÖDII	4000	4 1
21PP	1	0.0	PLEUROSIGMA ELONGATUM	3000	4 1
21PP	1	0.0	MELOSIRA SULCATA	3000	4 1
21PP	1	0.0	COCCOLITHUS HUXLEYI	3000	4 1
21PP	1	0.0	RHIZOLENIA DELICATULA	3000	4 1
21PP	1	0.0	CHAETOCEROS LACINIOSUM	3000	4 1
21PP	1	0.0	NITZSCHIA LONGISSIMA	2000	4 1
21PP	1	0.0	CYCLOTELLA SP.	2000	4 1
21PP	1	0.0	GYMNODINIUM OCEANICUM	2000	4 1
21PP	1	0.0	GYMNODINIUM KOVALEWSKII	2000	4 1
21PP	1	0.0	NITZSCHIA DELICATISSIMA	1000	4 0
21PP	1	0.0	GYRODINIUM SP.	1000	4 0
21PP	1	0.0	GYRODINIUM PRUNUS	1000	4 0
21PP	1	0.0	PERIDINIUM MINUSCULUM	1000	4 0
21PP	1	0.0	GYMNODINIUM SPLENDENS	1000	4 0
21PP	1	0.0	GYMNODINIUM PUNCTATUM	1000	4 0
21PP	1	0.0	COCCOLITHUS PELAGICUS	1000	4 0
21PP	1	0.0	DISTEPHANUS SPECULUM	1000	4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 83
PERCENT DINOFLAGELLATE/TOTAL 3
PERCENT OTHER/TOTAL 14

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
21PP	1	2.0	CHAETOCEROS SOCIALIS	79000	4 30
21PP	1	2.0	FLAGELLATA	49000	4 19
21PP	1	2.0	THALASSIOSIRA GRAVIDA	32000	4 12
21PP	1	2.0	THALASSIOSIRA CONDENSATA	18000	4 7
21PP	1	2.0	CHAETOCEROS CURVISETUS	14000	4 5
21PP	1	2.0	FRAGILARIA CYLINDRUS	13000	4 5
21PP	1	2.0	NAVICULA SP.	11000	4 4
21PP	1	2.0	CHAETOCEROS LACINIOSUM	7000	4 3
21PP	1	2.0	BACTERIOSIRA FRAGILIS	7000	4 3
21PP	1	2.0	RHIZOLENIA HEBETATA	5000	4 2
21PP	1	2.0	SKELETONEMA COSTATUM	5000	4 2
21PP	1	2.0	MELOSIRA GLACIALIS	4000	4 2
21PP	1	2.0	CHAETOCEROS DECIPiens	4000	4 2
21PP	1	2.0	RHIZOLENIA SETIGERA	3000	4 1
21PP	1	2.0	PLEUROSIGMA ELONGATUM	2000	4 1
21PP	1	2.0	THALASSIOSIRA NORDENSKIÖDII	2000	4 1
21PP	1	2.0	NITZSCHIA LONGISSIMA	2000	4 1
21PP	1	2.0	THALASSIONEMA NITZSCHIOIDES	2000	4 1
21PP	1	2.0	THALASSIOSIRA FALLAX	1000	4 0
21PP	1	2.0	NITZSCHIA DELICATISSIMA	1000	4 0
21PP	1	2.0	DITYLUM BRIGHTWELLII	1000	4 0
21PP	1	2.0	GYMNODINIUM KOVALEWSKII	1000	4 0
21PP	1	2.0	GYMNODINIUM OCEANICUM	1000	4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 81
PERCENT DINOFLAGELLATE/TOTAL 1
PERCENT OTHER/TOTAL 19

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
21PP	5.0	CHAETOCEROS SOCIALIS	105000	39
21PP	5.0	FLAGELLATA	35000	13
21PP	5.0	NAVICULA SP.	18000	7
21PP	5.0	FRAGILARIA CYLINDRUS	16000	6
21PP	5.0	THALASSIOSIRA CONDENSATA	14000	5
21PP	5.0	SKELETONEMA COSTATUM	10000	4
21PP	5.0	BACTERIOSIRA FRAGILIS	10000	4
21PP	5.0	RHIZOSOLENIA HEBETATA	9000	3
21PP	5.0	CHAETOCEROS DECIPIENS	8000	3
21PP	5.0	THALASSIONEMA NITZSCHIOIDES	7000	3
21PP	5.0	MELOSIRA GLACIALIS	5000	2
21PP	5.0	PLEUROSIGMA ELONGATUM	4000	1
21PP	5.0	RHIZOSOLENIA FRAGILISSIMA	4000	1
21PP	5.0	THALASSIOSIRA GRAVIDA	3000	1
21PP	5.0	MELOSIRA SULCATA	2000	1
21PP	5.0	GYMNODINIUM KOVALEWSKII	2000	1
21PP	5.0	CHAETOCEROS CURVISETUS	2000	1
21PP	5.0	CHAETOCEROS TERES	2000	1
21PP	5.0	NITZSCHIA LONGISSIMA	1000	0
21PP	5.0	RHIZOSOLENIA DELICATULA	1000	0
21PP	5.0	CYCLOTELLA SP.	1000	0
21PP	5.0	RHIZOSOLENIA SETIGERA	1000	0
21PP	5.0	GYROSIGMA SP.	1000	0
21PP	5.0	CHAETOCEROS GRACILE	1000	0
21PP	5.0	GYMNODINIUM PUNCTATUM	1000	0
21PP	5.0	GYMNODINIUM NANNUM	1000	0
21PP	5.0	GONIAULAX MINIMA	1000	0
21PP	5.0	PERIDINIUM GLOBULUS	1000	0
21PP	5.0	SYRACOSPHAERA SP.	1000	0
21PP	5.0	COCCOLITHUS HUXLEYI	1000	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 84
PERCENT DINOFLAGELLATE/TOTAL 2
PERCENT OTHER/TOTAL 14

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
21PP	7.0	FRAGILARIA CYLINDRUS	51000	23
21PP	7.0	FLAGELLATA	47000	22
21PP	7.0	CHAETOCEROS SOCIALIS	32000	15
21PP	7.0	SKELETONEMA COSTATUM	21000	10
21PP	7.0	BACTERIOSIRA FRAGILIS	14000	6
21PP	7.0	NAVICULA SP.	11000	5
21PP	7.0	RHIZOSOLENIA HEBETATA	8000	4
21PP	7.0	THALASSIOSIRA CONDENSATA	7000	3
21PP	7.0	PLEUROSIGMA ELONGATUM	5000	2
21PP	7.0	THALASSIONEMA NITZSCHIOIDES	4000	2
21PP	7.0	RHIZOSOLENIA FRAGILISSIMA	4000	2
21PP	7.0	THALASSIOSIRA GRAVIDA	2000	1
21PP	7.0	MELOSIRA GLACIALIS	2000	1
21PP	7.0	GYROSIGMA SP.	2000	1
21PP	7.0	GYMNODINIUM KOVALEWSKII	2000	1
21PP	7.0	THALASSIOSIRA NORDENSKIÖDII	1000	0
21PP	7.0	DITYLUM BRIGHTWELLII	1000	0
21PP	7.0	GYRODINIUM PRUNUS	1000	0
21PP	7.0	GYRODINIUM FUSIFORME	1000	0
21PP	7.0	RHABDOSPHAERA STYLIFER	1000	0
21PP	7.0	COCCOLITHUS PELAGICUS	1000	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 76
PERCENT DINOFLAGELLATE/TOTAL 2
PERCENT OTHER/TOTAL 22

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
21PP	16.0	CHAETOCEROS SOCIALIS	114000	30
21PP	16.0	NAVICULA SP.	74000	19
21PP	16.0	FLAGELLATA	45000	12
21PP	16.0	SKELETONEMA COSTATUM	27000	7
21PP	16.0	FRAGILARIA CYLINDRUS	20000	5
21PP	16.0	THALASSIONEMA NITZSCHIOIDES	20000	5
21PP	16.0	THALASSIOSIRA CONDENSATA	17000	4
21PP	16.0	THALASSIOSIRA NORDENSKIÖDII	16000	4
21PP	16.0	CHAETOCEROS DECIPIENS	9000	2
21PP	16.0	RHIZOSOLENIA HEBETATA	8000	2
21PP	16.0	THALASSIOSIRA ROTULA	7000	2
21PP	16.0	THALASSIOSIRA GRAVIDA	4000	1
21PP	16.0	PLEUROSIGMA ELONGATUM	3000	1
21PP	16.0	CHAETOCEROS AFFINIS	3000	1
21PP	16.0	MELOSIRA GLACIALIS	2000	1
21PP	16.0	FRAGILARIA SP.	2000	1
21PP	16.0	LEPTOCYLINDRUS MINIMUS	2000	1
21PP	16.0	NITZSCHIA LONGISSIMA	1000	0
21PP	16.0	RHIZOSOLENIA DELICATULA	1000	0
21PP	16.0	COCCOLITHUS PELAGICUS	1000	0
21PP	16.0	CORETHRON CRIPIHILUM	1000	0
21PP	16.0	TROPIDONEIS ANTARCTICA VAR POLYPLASTA	1000	0
21PP	16.0	GYMNODINIUM KOVALEWSKII	1000	0
21PP	16.0	GYMNODINIUM NANNUM	1000	0
21PP	16.0	GONIAULAX MINIMA	1000	0
21PP	16.0	PERIDINIUM GLOBULUS	1000	0
21PP	16.0	RHIZOSOLENIA FRAGILISSIMA	800	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 87
PERCENT DINOFLAGELLATE/TOTAL 1
PERCENT OTHER/TOTAL 12

LAT 40 10.0
SONIC DEPTH 104

LONG 70 08.0 DATE 78/03/31
ONE PERCENT LIGHT DEPTH 37

TIME 1000

STA CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
26PP 1 0.0	FLAGELLATA	114000	4 80
26PP 1 0.0	NAVICULA SP.	11000	4 8
26PP 1 0.0	RHIZOSOLENIA HEBETATA	4000	4 3
26PP 1 0.0	THALASSIOSIRA NORDENSKIÖDII	4000	4 3
26PP 1 0.0	COCCOLITHUS HUXLEYI	3000	4 2
26PP 1 0.0	THALASSIOSIRA GRAVIDA	1000	4 1
26PP 1 0.0	HELOSIRA GLACIALIS	1000	4 1
26PP 1 0.0	THALASSIONEMA NITZSCHIOIDES	1000	4 1
26PP 1 0.0	GYRODINIUM NASUTUM	1000	4 1
26PP 1 0.0	GYMNODINIUM AGILE	1000	4 1
26PP 1 0.0	CERATIUM TRIPOS	1000	4 1
26PP 1 0.0	RHABDOSPHAERA STYLIFER	1000	4 1

TOTAL CELLS
PERCENT DIATOM/TOTAL 15
PERCENT DINOFLAGELLATE/TOTAL 2
PERCENT OTHER/TOTAL 83

STA CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
26PP 1 4.0	FLAGELLATA	294000	4 79
26PP 1 4.0	SKELETONEMA COSTATUM	20000	4 5
26PP 1 4.0	NAVICULA SP.	16000	4 4
26PP 1 4.0	THALASSIONEMA NITZSCHIOIDES	9000	4 2
26PP 1 4.0	COCCOLITHUS HUXLEYI	8000	4 2
26PP 1 4.0	RHIZOSOLENIA HEBETATA	5000	4 1
26PP 1 4.0	PLEUROSIGMA ELONGATUM	4000	4 1
26PP 1 4.0	COCCOLITHUS PELAGICUS	3000	4 1
26PP 1 4.0	THALASSIOSIRA NORDENSKIÖDII	2000	4 1
26PP 1 4.0	THALASSIOSIRA GRAVIDA	2000	4 1
26PP 1 4.0	GYRODINIUM NASUTUM	2000	4 1
26PP 1 4.0	FRAGILARIA CYLINDRUS	1000	4 0
26PP 1 4.0	BACTERIOSIRA FRAGILIS	1000	4 0
26PP 1 4.0	COSCIINODISCUS WAILESTII	1000	4 0
26PP 1 4.0	NITZSCHIA LONGISSIMA	1000	4 0
26PP 1 4.0	PERIDINIUM TROCHOIDEUM	1000	4 0
26PP 1 4.0	GYMNODINIUM PUNCTATUM	1000	4 0
26PP 1 4.0	DISTEPHANUS SPECULUM	1000	4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 17
PERCENT DINOFLAGELLATE/TOTAL 1
PERCENT OTHER/TOTAL 82

STA CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
26PP 1 11.0	FLAGELLATA	29800	4 34
26PP 1 11.0	NAVICULA SP.	11000	4 13
26PP 1 11.0	THALASSIONEMA NITZSCHIOIDES	9000	4 10
26PP 1 11.0	FRAGILARIA CYLINDRUS	8000	4 9
26PP 1 11.0	COCCOLITHUS PELAGICUS	6000	4 7
26PP 1 11.0	LEPTOCYLINDRUS MINIMUS	4000	4 5
26PP 1 11.0	PLEUROSIGMA ELONGATUM	3000	4 3
26PP 1 11.0	COCCOLITHUS HUXLEYI	2000	4 2
26PP 1 11.0	THALASSIOSIRA NORDENSKIÖDII	2000	4 2
26PP 1 11.0	GONIAULAX MINIMA	2000	4 2
26PP 1 11.0	DISTEPHANUS SPECULUM	2000	4 2
26PP 1 11.0	COSCIINODISCUS LINEATUS	1000	4 1
26PP 1 11.0	THALASSIOSIRA GRAVIDA	1000	4 1
26PP 1 11.0	BACTERIOSIRA FRAGILIS	1000	4 1
26PP 1 11.0	GYRODINIUM NASUTUM	1000	4 1
26PP 1 11.0	GYRODINIUM NASUTUM	1000	4 1
26PP 1 11.0	GYMNODINIUM OCEANICUM	1000	4 1
26PP 1 11.0	GYMNODINIUM AGILE	1000	4 1
26PP 1 11.0	SYRACOSPHAERA SP.	1000	4 1

TOTAL CELLS
PERCENT DIATOM/TOTAL 46
PERCENT DINOFLAGELLATE/TOTAL 7
PERCENT OTHER/TOTAL 47

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
26PP	1	15.0	FLAGELLATA	236000	4 90
26PP	1	15.0	FRAGILARIA CYLINDRUS	5000	4 2
26PP	1	15.0	COCCOLITHUS HUXLEYI	3000	4 1
26PP	1	15.0	PLEUROSIGMA ELONGATUM	3000	4 1
26PP	1	15.0	BACTERIOSIRA FRAGILIS	3000	4 1
26PP	1	15.0	RHIZOSOLENIA HEBETATA	2000	4 1
26PP	1	15.0	GYRODINIUM NASUTUM	2000	4 1
26PP	1	15.0	GYMNODINIUM AGILE	2000	4 1
26PP	1	15.0	GYMNODINIUM PUNCTATUM	2000	4 1
26PP	1	15.0	NAVICULA SP.	1000	4 0
26PP	1	15.0	GYROSIGMA SP.	1000	4 0
26PP	1	15.0	OXYTOXUM GLADIOLUS	1000	4 0
26PP	1	15.0	GYMNODINIUM OCEANICUM	1000	4 0
26PP	1	15.0	COCCOLITHUS PELAGICUS	1000	4 0

TOTAL CELLS
 PERCENT DIATOM/TOTAL 6
 PERCENT DINOFLAGELLATE/TOTAL 3
 PERCENT OTHER/TOTAL 91

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
26PP	1	37.0	FLAGELLATA	142000	4 73
26PP	1	37.0	NAVICULA SP.	17000	4 9
26PP	1	37.0	CHAETOCEROS DECIPIENS	8000	4 4
26PP	1	37.0	COCCOLITHUS HUXLEYI	8000	4 4
26PP	1	37.0	THALASSIOSIRA NORDENSKIÖDII	5000	4 3
26PP	1	37.0	RHIZOSOLENIA HEBETATA	3000	4 2
26PP	1	37.0	COCCOLITHUS PELAGICUS	3000	4 2
26PP	1	37.0	OISTEPHANUS SPECULUM	2000	4 1
26PP	1	37.0	THALASSIOSIRA GRAVIDA	2000	4 1
26PP	1	37.0	COSCIINODISCUS LINEATUS	1000	4 1
26PP	1	37.0	PLEUROSIGMA SP.	1000	4 1
26PP	1	37.0	TROPIDONEIS ANTARCTICA VAR POLYPLASTA	1000	4 1
26PP	1	37.0	CERATIUM TRIPOS	1000	4 1

TOTAL CELLS
 PERCENT DIATOM/TOTAL 20
 PERCENT DINOFLAGELLATE/TOTAL 1
 PERCENT OTHER/TOTAL 80

LAT 40 36.0
SONIC DEPTH 72

LONG 71 05.0 DATE 78/04/01
ONE PERCENT LIGHT DEPTH 33

TIME 1000

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
33PP	1	0.0	PHAEOCYSTIS POUCHETII	127000	4 56
33PP	1	0.0	CHAETOCEROS SOCIALIS	38800	4 17
33PP	1	0.0	FLAGELLATA	30200	4 13
33PP	1	0.0	CHAETOCEROS AFFINIS VAR WILLEY	7200	4 3
33PP	1	0.0	CHAETOCEROS DECIPENS	5400	4 2
33PP	1	0.0	PLEUROSIGMA ELONGATUM	4000	4 2
33PP	1	0.0	PERIDINIUM PELLUCIDUM	2800	4 1
33PP	1	0.0	THALASSIOSIRA GRAVIDA	2200	4 1
33PP	1	0.0	SKELETONEMA COSTATUM	2000	4 1
33PP	1	0.0	GONIAULAX MINIMA	1400	4 1
33PP	1	0.0	MELOSIRA GLACIALIS	1200	4 1
33PP	1	0.0	RHIZOSOLENIA HEBETATA	600	4 0
33PP	1	0.0	RHIZOSOLENIA FRAGILISSIMA	600	4 0
33PP	1	0.0	THALASSIONEMA NITZSCHIOIDES	600	4 0
33PP	1	0.0	CYCLOTELLA SP.	400	4 0
33PP	1	0.0	GYMNODINIUM KOVALEWSKII	400	4 0
33PP	1	0.0	CHAETOCEROS PERUVIANUM	400	4 0
33PP	1	0.0	NAVICULA SP.	400	4 0
33PP	1	0.0	CERATIUM TRIPOS	400	4 0
33PP	1	0.0	THALASSIOSIRA NORDENSKIODII	200	4 0
33PP	1	0.0	GYMNODINIUM OCEANICUM	200	4 0
33PP	1	0.0	DINOPHYSIS SP.	200	4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 28
PERCENT DINOFLAGELLATE/TOTAL 2
PERCENT OTHER/TOTAL 69

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
33PP	1	4.0	PHAEOCYSTIS POUCHETII	80200	4 44
33PP	1	4.0	CHAETOCEROS SOCIALIS	51200	4 28
33PP	1	4.0	FLAGELLATA	21000	4 11
33PP	1	4.0	NAVICULA SP.	7800	4 4
33PP	1	4.0	GYMNODINIUM PUNCTATUM	3900	4 2
33PP	1	4.0	CHAETOCEROS AFFINIS VAR WILLEY	2200	4 1
33PP	1	4.0	MELOSIRA GLACIALIS	2000	4 1
33PP	1	4.0	RHIZOSOLENIA FRAGILISSIMA	1800	4 1
33PP	1	4.0	GONIAULAX MINIMA	1600	4 1
33PP	1	4.0	PERIDINIUM PELLUCIDUM	1400	4 1
33PP	1	4.0	SKELETONEMA COSTATUM	1200	4 1
33PP	1	4.0	CYCLOTELLA SP.	1200	4 1
33PP	1	4.0	RHIZOSOLENIA HEBETATA	1000	4 1
33PP	1	4.0	THALASSIOSIRA NORDENSKIODII	800	4 0
33PP	1	4.0	GYMNODINIUM OCEANICUM	800	4 0
33PP	1	4.0	CHAETOCEROS DECIPENS	600	4 0
33PP	1	4.0	CERATIUM FURCA	600	4 0
33PP	1	4.0	GYRODINIUM SP.	600	4 0
33PP	1	4.0	CHAETOCEROS PERUVIANUM	600	4 0
33PP	1	4.0	TROPIDONEIS ANTARCTICA VAR POLYPLASTA	400	4 0
33PP	1	4.0	NITZSCHIA LONGISSIMA	400	4 0
33PP	1	4.0	RHABDOSPHAERA STYLIFER	400	4 0
33PP	1	4.0	DISTEPHANUS SPECULUM	400	4 0
33PP	1	4.0	PLEUROSIGMA ELONGATUM	200	4 0
33PP	1	4.0	GYMNODINIUM KOVALEWSKII	200	4 0
33PP	1	4.0	PERIDINIUM MINUSCULUM	200	4 0
33PP	1	4.0	GYMNODINIUM WULFFII	200	4 0
33PP	1	4.0	PERIDINIUM MONOCANTHUS	200	4 0
33PP	1	4.0	CERATIUM MINUTUM	200	4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 39
PERCENT DINOFLAGELLATE/TOTAL 5
PERCENT OTHER/TOTAL 56

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
33PP	1	10.0	PHAEOCYSTIS POUCHETII	78200	45
33PP	1	10.0	CHAEETOCEROS SOCIALIS	41600	24
33PP	1	10.0	FLAGELLATA	22600	13
33PP	1	10.0	THALASSIOSIRA NORDENSKIODII	9000	5
33PP	1	10.0	MELOSIRA GLACIALIS	4600	3
33PP	1	10.0	NAVICULA SP.	3800	2
33PP	1	10.0	GYMNODINIUM PUNCTATUM	3200	2
33PP	1	10.0	PERIDINIUM PELLUCIDUM	1600	1
33PP	1	10.0	CHAEETOCEROS AFFINIS VAR WILLEY	1200	1
33PP	1	10.0	ASTERIONELLA JAPONICA	1000	1
33PP	1	10.0	GYMNODINIUM AGILE	1000	1
33PP	1	10.0	RHIZOSOLENIA FRAGILISSIMA	1000	1
33PP	1	10.0	CERATIUM FURCA	800	0
33PP	1	10.0	THALASSIONEMA NITZSCHIOIDES	800	0
33PP	1	10.0	GYRODINIUM SP.	600	0
33PP	1	10.0	GYRODINIUM PRUNUS	600	0
33PP	1	10.0	RHIZOSOLENIA HEBETATA	400	0
33PP	1	10.0	GONIAULAX MINIMA	400	0
33PP	1	10.0	TROPIDONEIS ANTARCTICA VAR POLYPLASTA	400	0
33PP	1	10.0	RHABDOSPHAERA STYLIFER	400	0
33PP	1	10.0	PERIDINIUM MINUSCULUM	400	0
33PP	1	10.0	GYRODINIUM FUSIFORME	400	0
33PP	1	10.0	CYCLOTELLA SP.	200	0
33PP	1	10.0	BACTERIOSIRA FRAGILIS	200	0
33PP	1	10.0	DITYLUM BRIGHTWELLII	200	0
33PP	1	10.0	GYMNODINIUM OCEANICUM	200	0
33PP	1	10.0	AMPHIDINIUM EXTENSUM	200	0
33PP	1	10.0	PERIDINIUM TROCHOIDEUM	200	0
33PP	1	10.0	COCCOLITHUS HUXLEYI	200	0
33PP	1	10.0	DISTEPHANUS SPECULUM	200	0

TOTAL CELLS
 PERCENT DIATOM/TOTAL 37
 PERCENT DINOFLAGELLATE/TOTAL 5
 PERCENT OTHER/TOTAL 58

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
33PP	1	14.0	FLAGELLATA	26200	72
33PP	1	14.0	CHAEETOCEROS SOCIALIS	4800	13
33PP	1	14.0	THALASSIOSIRA NORDENSKIODII	1600	4
33PP	1	14.0	GYMNODINIUM PUNCTATUM	1000	3
33PP	1	14.0	PERIDINIUM PELLUCIDUM	1000	3
33PP	1	14.0	NAVICULA SP.	600	2
33PP	1	14.0	MELOSIRA GLACIALIS	400	1
33PP	1	14.0	GONIAULAX MINIMA	400	1
33PP	1	14.0	RHIZOSOLENIA FRAGILISSIMA	200	1
33PP	1	14.0	TROPIDONEIS ANTARCTICA VAR POLYPLASTA	200	1
33PP	1	14.0	COCCOLITHUS HUXLEYI	200	1

TOTAL CELLS
 PERCENT DIATOM/TOTAL 21
 PERCENT DINOFLAGELLATE/TOTAL 7
 PERCENT OTHER/TOTAL 72

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
33PP	1	33.0	FLAGELLATA	39000	74
33PP	1	33.0	GYMNODINIUM PUNCTATUM	8000	15
33PP	1	33.0	CHAEETOCEROS SOCIALIS	2000	4
33PP	1	33.0	NAVICULA SP.	1400	3
33PP	1	33.0	FRAGILARIA CYLINDRUS	1200	2
33PP	1	33.0	RHIZOSOLENIA FRAGILISSIMA	400	1
33PP	1	33.0	RHIZOSOLENIA HEBETATA	200	0
33PP	1	33.0	CYCLOTELLA SP.	200	0
33PP	1	33.0	PERIDINIUM PELLUCIDUM	200	0
33PP	1	33.0	CERATIUM FURCA	200	0
33PP	1	33.0	COCCOLITHUS HUXLEYI	200	0

TOTAL CELLS
 PERCENT DIATOM/TOTAL 10
 PERCENT DINOFLAGELLATE/TOTAL 16
 PERCENT OTHER/TOTAL 74

LAT 39 44.0
SONIC DEPTH 1150

LONG 71 34.0 DATE 78/04/02
ONE PERCENT LIGHT DEPTH 29

TIME 1000

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
39PP	1	0.0 FLAGELLATA	13020	4 51
39PP	1	0.0 GYMNOIDINIUM OCEANICUM	2900	4 11
39PP	1	0.0 GONIAULAX MINIMA	2140	4 8
39PP	1	0.0 THALASSIOSIRA GRAVIDA	1600	4 6
39PP	1	0.0 GONIAULAX DIGITALE	960	4 4
39PP	1	0.0 GYMNOIDINIUM AGILE	720	4 3
39PP	1	0.0 GYMNOIDINIUM PUNCTATUM	600	4 2
39PP	1	0.0 PROTOCERATIUM RETICULATUM	480	4 2
39PP	1	0.0 TROPIDONEIS ANTARCTICA VAR POLYPLASTA	480	4 2
39PP	1	0.0 SYRACOSPHAERA SP.	360	4 1
39PP	1	0.0 PERIDINIUM PELLUCIDUM	360	4 1
39PP	1	0.0 NAVICULA SP.	240	4 1
39PP	1	0.0 RHIZOSOLENIA HEBETATA	120	4 0
39PP	1	0.0 COSCINODISCUS WAILESII	120	4 0
39PP	1	0.0 OXYTOXUM GLADIOLUS	120	4 0
39PP	1	0.0 PERIDINIUM MINUSCULUM	120	4 0
39PP	1	0.0 GYRODINIUM FUSIFORME	120	4 0
39PP	1	0.0 PERIDINIUM TROCHOIDEUM	120	4 0
39PP	1	0.0 CERATIUM TRIPOS	120	4 0
39PP	1	0.0 CERATIUM TRIPOS	120	4 0
39PP	1	0.0 GYMNOIDINIUM SPLENDENS	120	4 0
39PP	1	0.0 CERATIUM MINUTUM	120	4 0
39PP	1	0.0 GYMNOIDINIUM PYGMAEUM	120	4 0
39PP	1	0.0 COCCOLITHUS PELAGICUS	120	4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 10
PERCENT DINOFLAGELLATE/TOTAL 37
PERCENT OTHER/TOTAL 53

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
39PP	1	3.0 FLAGELLATA	11160	4 46
39PP	1	3.0 GYMNOIDINIUM OCEANICUM	2600	4 11
39PP	1	3.0 PROTOCERATIUM RETICULATUM	1640	4 7
39PP	1	3.0 GONIAULAX MINIMA	960	4 4
39PP	1	3.0 GONIAULAX DIGITALE	960	4 4
39PP	1	3.0 PERIDINIUM PELLUCIDUM	720	4 3
39PP	1	3.0 SYRACOSPHAERA SP.	720	4 3
39PP	1	3.0 CHAETOCEROS SOCIALIS	720	4 3
39PP	1	3.0 GYMNOIDINIUM AGILE	480	4 2
39PP	1	3.0 GYMNOIDINIUM SPLENDENS	480	4 2
39PP	1	3.0 PERIDINIUM MONOCANTHUS	360	4 1
39PP	1	3.0 DINOPHYSIS SP.	360	4 1
39PP	1	3.0 GYMNOIDINIUM NANNUM	360	4 1
39PP	1	3.0 GYMNOIDINIUM PUNCTATUM	360	4 1
39PP	1	3.0 RHIZOSOLENIA HEBETATA	240	4 1
39PP	1	3.0 GYMNOIDINIUM KOVALEWSKII	240	4 1
39PP	1	3.0 NAVICULA SP.	240	4 1
39PP	1	3.0 COSCINODISCUS WAILESII	120	4 0
39PP	1	3.0 TROPIDONEIS ANTARCTICA VAR POLYPLASTA	120	4 0
39PP	1	3.0 THALASSIONEMA NITZSCHIOIDES	120	4 0
39PP	1	3.0 LICOMPHORA LYNGBYEI	120	4 0
39PP	1	3.0 OXYTOXUM GLADIOLUS	120	4 0
39PP	1	3.0 PERIDINIUM MINUSCULUM	120	4 0
39PP	1	3.0 EXUVIELLA SP.	120	4 0
39PP	1	3.0 PERIDINIUM TROCHOIDEUM	120	4 0
39PP	1	3.0 CERATIUM MINUTUM	120	4 0
39PP	1	3.0 PROROCENTRUM MICANS	120	4 0
39PP	1	3.0 COCCOLITHUS HUXLEYI	120	4 0
39PP	1	3.0 COCCOLITHUS PELAGICUS	120	4 0
39PP	1	3.0 DISTEPHANUS SPECULUM	120	4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 7
PERCENT DINOFLAGELLATE/TOTAL 42
PERCENT OTHER/TOTAL 51

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
39PP	1	9.0	FLAGELLATA	3240	4	28
39PP	1	9.0	SYRACOSPHAERA SP.	8960	4	27
39PP	1	9.0	GONIAULAX MINIMA	2200	4	7
39PP	1	9.0	PROTOCERATIUM RETICULATUM	1400	4	4
39PP	1	9.0	GYMNODINIUM OCEANICUM	1100	4	3
39PP	1	9.0	COCCOLITHUS HUXLEYI	1080	4	3
39PP	1	9.0	BACTERIOSIRA FRAGILIS	960	4	3
39PP	1	9.0	GONIAULAX DIGITALE	960	4	3
39PP	1	9.0	CHAETOCEROS SOCIALIS	840	4	3
39PP	1	9.0	RHIZOSOLENIA HEBETATA	720	4	2
39PP	1	9.0	PERIDINIUM MONOCANTHUS	600	4	2
39PP	1	9.0	LEPTOCYLINDRUS MINIMUS	600	4	2
39PP	1	9.0	GYMNODINIUM SPLENDENS	480	4	1
39PP	1	9.0	GYMNODINIUM PUNCTATUM	480	4	1
39PP	1	9.0	PERIDINIUM PELLUCIDUM	360	4	1
39PP	1	9.0	COSCINODISCUS WAILESII	360	4	1
39PP	1	9.0	THALASSIOSIRA GRAVIDA	240	4	1
39PP	1	9.0	NAVICULA SP.	240	4	1
39PP	1	9.0	THALASSIOSIRA NORDENSKIÖDII	240	4	1
39PP	1	9.0	TROPIDONEIS ANTARCTICA VAR POLYPLASTA	240	4	1
39PP	1	9.0	GYMNODINIUM AGILE	240	4	1
39PP	1	9.0	COCCOLITHUS PELAGICUS	240	4	1
39PP	1	9.0	AMPHIDINIUM EXTENSUM	240	4	1
39PP	1	9.0	OXYTOXUM GLADIOLUS	240	4	1
39PP	1	9.0	PERIDINIUM TROCHOIDEUM	240	4	1
39PP	1	9.0	MELOSIRA GLACIALIS	120	4	0
39PP	1	9.0	FRAGILARIA CYLINDRUS	120	4	0
39PP	1	9.0	PERIDINIUM MINUSCULUM	120	4	0
39PP	1	9.0	EXUVIELLA SP.	120	4	0
39PP	1	9.0	CERATIUM MINUTUM	120	4	0
39PP	1	9.0	PROROCENTRUM MICANS	120	4	0
39PP	1	9.0	GYMNODINIUM KOVALEWSKII	120	4	0
39PP	1	9.0	DISTEPHANUS SPECULUM	120	4	0
TOTAL CELLS						
PERCENT DIATOM/TOTAL						14
PERCENT DINOFLAGELLATE/TOTAL						27
PERCENT OTHER/TOTAL						59

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
39PP	1	12.0	FLAGELLATA	16740	4	55
39PP	1	12.0	GONIAULAX MINIMA	2840	4	9
39PP	1	12.0	SYRACOSPHAERA SP.	1700	4	6
39PP	1	12.0	GYMNODINIUM OCEANICUM	1600	4	5
39PP	1	12.0	PROTOCERATIUM RETICULATUM	1080	4	4
39PP	1	12.0	COCCOLITHUS HUXLEYI	960	4	3
39PP	1	12.0	GYMNODINIUM PUNCTATUM	960	4	3
39PP	1	12.0	GYMNODINIUM AGILE	840	4	3
39PP	1	12.0	COSCINODISCUS WAILESII	480	4	2
39PP	1	12.0	OXYTOXUM GLADIOLUS	360	4	1
39PP	1	12.0	GYMNODINIUM SPLENDENS	360	4	1
39PP	1	12.0	PERIDINIUM PELLUCIDUM	360	4	1
39PP	1	12.0	NAVICULA SP.	240	4	1
39PP	1	12.0	TROPIDONEIS ANTARCTICA VAR POLYPLASTA	240	4	1
39PP	1	12.0	DISTEPHANUS SPECULUM	240	4	1
39PP	1	12.0	FRAGILARIA CYLINDRUS	240	4	1
39PP	1	12.0	COCCOLITHUS PELAGICUS	240	4	1
39PP	1	12.0	MELOSIRA GLACIALIS	120	4	0
39PP	1	12.0	BACTERIOSIRA FRAGILIS	120	4	0
39PP	1	12.0	AMPHIDINIUM EXTENSUM	120	4	0
39PP	1	12.0	PERIDINIUM MINUSCULUM	120	4	0
39PP	1	12.0	PERIDINIUM TROCHOIDEUM	120	4	0
39PP	1	12.0	CERATIUM TRIPOS	120	4	0
39PP	1	12.0	PERIDINIUM MONOCANTHUS	120	4	0
39PP	1	12.0	GYMNODINIUM PYGMAEUM	120	4	0
39PP	1	12.0	GYMNODINIUM KOVALEWSKII	120	4	0
TOTAL CELLS						
PERCENT DIATOM/TOTAL						5
PERCENT DINOFLAGELLATE/TOTAL						30
PERCENT OTHER/TOTAL						65

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
39PP	1	29.0	FLAGELLATA	10400	4	29
39PP	1	29.0	GYMNODINIUM OCEANICUM	4000	4	11
39PP	1	29.0	THALASSIOSIRA GRAVIDA	2800	4	8
39PP	1	29.0	SYRACOSPHAERA SP.	2500	4	7
39PP	1	29.0	COCCOLITHUS HUXLEYI	2200	4	6
39PP	1	29.0	PROTOCERATIUM RETICULATUM	2200	4	6
39PP	1	29.0	GONIAULAX MINIMA	1640	4	5
39PP	1	29.0	GYMNODINIUM AGILE	1200	4	3
39PP	1	29.0	FRAGILARIA CYLINDRUS	1100	4	3
39PP	1	29.0	NAVICULA SP.	720	4	2
39PP	1	29.0	GYMNODINIUM PUNCTATUM	720	4	2
39PP	1	29.0	CHAETOCEROS SOCIALIS	720	4	2
39PP	1	29.0	GONIAULAX DIGITALE	600	4	2
39PP	1	29.0	COSCIINODISCUS WAILESII	600	4	2
39PP	1	29.0	TROPIDONEIS ANTARCTICA VAR POLYPLASTA	480	4	1
39PP	1	29.0	NITZSCHIA DELICATISSIMA	480	4	1
39PP	1	29.0	RHIZOLENIA HEBETATA	360	4	1
39PP	1	29.0	PERIDINIUM MONOCANTHUS	360	4	1
39PP	1	29.0	MELOSIRA GLACIALIS	360	4	1
39PP	1	29.0	COCCOLITHUS PELAGICUS	260	4	1
39PP	1	29.0	PERIDINIUM MINUSCULUM	240	4	1
39PP	1	29.0	GYMNODINIUM SP.	240	4	1
39PP	1	29.0	AMPHIDINIUM EXTENSUM	240	4	1
39PP	1	29.0	DISTEPHANUS SPECULUM	240	4	1
39PP	1	29.0	DINOPHYSIS SP.	180	4	0
39PP	1	29.0	THALASSIOSIRA NORDENSKIÖDII	120	4	0
39PP	1	29.0	NITZSCHIA LONGISSIMA	120	4	0
39PP	1	29.0	OXYTOXUM GLADIOLUS	120	4	0
39PP	1	29.0	GYRODINIUM FUSIFORME	120	4	0
39PP	1	29.0	EXUVIELLA SP.	120	4	0
39PP	1	29.0	PERIDINIUM TROCHOIDEUM	120	4	0
39PP	1	29.0	CERATIUM FUSUS	120	4	0
39PP	1	29.0	CERATIUM TRIPOS	120	4	0
39PP	1	29.0	CERATIUM BUCEPHALLUM	120	4	0
39PP	1	29.0	GYMNODINIUM SPLENDENS	120	4	0
39PP	1	29.0	CERATIUM MINUTUM	120	4	0
39PP	1	29.0	PRONOTILUCA PELAGICA	120	4	0
TOTAL CELLS						22
PERCENT DIATOM/TOTAL						35
PERCENT DINOFLAGELLATE/TOTAL						43
PERCENT OTHER/TOTAL						43

LAT 39 35.0
SONIC DEPTH 34

LONG 73 23.0 DATE 78/04/03
ONE PERCENT LIGHT DEPTH 32

TIME 1000

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
4399	1	0.0 FLAGELLATA	22540	76
4399	1	0.0 COSCINODISCUS WAILESII	2280	8
4399	1	0.0 NAVICULA SP.	1100	4
4399	1	0.0 GYMNOIDINIUM OCEANICUM	480	2
4399	1	0.0 GONIAULAX MINIMA	480	2
4399	1	0.0 GYMNOIDINIUM AGILE	360	1
4399	1	0.0 COCCOLITHUS HUXLEYI	360	1
4399	1	0.0 RHIZOSOLENIA HEBETATA	240	1
4399	1	0.0 TROPIDONEIS ANTARCTICA VAR POLYPLASTA	240	1
4399	1	0.0 PERIDINIUM TROCHOIDEUM	240	1
4399	1	0.0 GYMNOIDINIUM PUNCTATUM	240	1
4399	1	0.0 CERATIUM LONGIPES	240	1
4399	1	0.0 EXUVIELLA PUSILLA	120	0
4399	1	0.0 AMPHIDINIUM SPHENOIDES	120	0
4399	1	0.0 PROROCENTRUM MICANS	120	0
4399	1	0.0 GYMNOIDINIUM NANNUM	120	0
4399	1	0.0 GYRODINIUM FUSIFORME	120	0
4399	1	0.0 GYRODINIUM WULFFII	120	0
4399	1	0.0 SYRACOSPHAERA SP.	120	0
TOTAL CELLS				13
PERCENT DIATOM/TOTAL				9
PERCENT DINOFLAGELLATE/TOTAL				78

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
4399	1	4.0 FLAGELLATA	17200	62
4399	1	4.0 NAVICULA SP.	2160	8
4399	1	4.0 COSCINODISCUS WAILESII	1080	4
4399	1	4.0 THALASSIOSIRA NORDENSKIÖDII	720	3
4399	1	4.0 MELOSIRA SULCATA	720	3
4399	1	4.0 SYRACOSPHAERA SP.	480	2
4399	1	4.0 GYMNOIDINIUM OCEANICUM	480	2
4399	1	4.0 GYMNOIDINIUM AGILE	480	2
4399	1	4.0 TROPIDONEIS ANTARCTICA VAR POLYPLASTA	380	1
4399	1	4.0 EXUVIELLA PUSILLA	360	1
4399	1	4.0 PERIDINIUM PELLUCIDUM	360	1
4399	1	4.0 GYMNOIDINIUM NANNUM	360	1
4399	1	4.0 GYMNOIDINIUM PYGMAEUM	240	1
4399	1	4.0 CYCLOTELLA SP.	240	1
4399	1	4.0 THALASSIONEMA NITZSCHIOIDES	240	1
4399	1	4.0 GONIAULAX DIGITALE	240	1
4399	1	4.0 PERIDINIUM TROCHOIDEUM	240	1
4399	1	4.0 GYMNOIDINIUM PUNCTATUM	240	1
4399	1	4.0 GONIAULAX MINIMA	240	1
4399	1	4.0 CERATIUM MINUTUM	240	1
4399	1	4.0 MELOSIRA GLACIALIS	120	0
4399	1	4.0 PROTOCERATIUM RETICULATUM	120	0
4399	1	4.0 PERIDINIUM MINUSCULUM	120	0
4399	1	4.0 CERATIUM FUSUS	120	0
4399	1	4.0 PERIDINIUM ABEI	120	0
4399	1	4.0 GYMNOIDINIUM SPLENDENS	120	0
4399	1	4.0 COCCOLITHUS HUXLEYI	120	0
4399	1	4.0 COCCOLITHUS PELAGICUS	120	0
TOTAL CELLS				20
PERCENT DIATOM/TOTAL				15
PERCENT DINOFLAGELLATE/TOTAL				65

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
4399	1	10.0 FLAGELLATA	13920	63
4399	1	10.0 NAVICULA SP.	2330	10
4399	1	10.0 GYMNOIDINIUM AGILE	1080	5
4399	1	10.0 COSCINODISCUS WAILESII	840	4
4399	1	10.0 THALASSIONEMA NITZSCHIOIDES	720	3
4399	1	10.0 PROTOCERATIUM RETICULATUM	360	2
4399	1	10.0 COCCOLITHUS HUXLEYI	360	2
4399	1	10.0 PERIDINIUM PELLUCIDUM	240	1
4399	1	10.0 GONIAULAX MINIMA	240	1
4399	1	10.0 GYMNOIDINIUM NANNUM	240	1
4399	1	10.0 CERATIUM TRIPOS	240	1
4399	1	10.0 GONIAULAX DIGITALE	240	1
4399	1	10.0 RHIZOSOLENIA HEBETATA	120	1
4399	1	10.0 MELOSIRA GLACIALIS	120	1
4399	1	10.0 CYCLOTELLA SP.	120	1
4399	1	10.0 PLEUROSIGMA ELONGATUM	120	1
4399	1	10.0 PERIDINIUM TROCHOIDEUM	120	1
4399	1	10.0 GYMNOIDINIUM PUNCTATUM	120	1
4399	1	10.0 GYMNOIDINIUM OCEANICUM	120	1
4399	1	10.0 OXYTOXUM GLADIOLUS	120	1
4399	1	10.0 CERATIUM BUCEPHALLUM	120	1
4399	1	10.0 DINOPHYSIS NORVEGICA	120	1
4399	1	10.0 SYRACOSPHAERA SP.	120	1
4399	1	10.0 COCCOLITHUS PELAGICUS	120	1
TOTAL CELLS				20
PERCENT DIATOM/TOTAL				15
PERCENT DINOFLAGELLATE/TOTAL				65

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
43PP	1	14.0	FLAGELLATA	22540	4 70
43PP	1	14.0	GONIAULAX MINIMA	1800	4 6
43PP	1	14.0	COSCIINODISCUS WAILESII	1560	4 5
43PP	1	14.0	GYMNODINIUM AGILE	1080	4 3
43PP	1	14.0	THALASSIOSIRA NORDENSKIÖDII	600	4 2
43PP	1	14.0	PROROCENTRUM MICANS	480	4 1
43PP	1	14.0	COCCOLITHUS HUXLEYI	480	4 1
43PP	1	14.0	PROTOCERATIUM RETICULATUM	360	4 1
43PP	1	14.0	PERIDINIUM PELLUCIDUM	360	4 1
43PP	1	14.0	TROPIDONEIS ANTARCTICA VAR POLYPLASTA	360	4 1
43PP	1	14.0	AMPHIDINIUM SPHENOIDES	240	4 1
43PP	1	14.0	MELOSIRA GLACIALIS	240	4 1
43PP	1	14.0	THALASSIONEMA NITZSCHIOIDES	240	4 1
43PP	1	14.0	SYRACOSPHAERA SP.	240	4 1
43PP	1	14.0	COCCOLITHUS PELAGICUS	240	4 1
43PP	1	14.0	GYMNODINIUM OCEANICUM	240	4 1
43PP	1	14.0	DISTEPHANUS SPECULUM	240	4 1
43PP	1	14.0	RHIZOSOLENIA HEBETATA	120	4 0
43PP	1	14.0	GONIAULAX DIGITALE	120	4 0
43PP	1	14.0	PERIDINIUM TROCHOIDEUM	120	4 0
43PP	1	14.0	CERATIUM TRIPOS	120	4 0
43PP	1	14.0	PERIDINIUM MINUSCULUM	120	4 0
43PP	1	14.0	CERATIUM FUSUS	120	4 0
43PP	1	14.0	GYMNODINIUM NANNUM	120	4 0

TOTAL CELLS
 PERCENT DIATOM/TOTAL 10
 PERCENT DINOFLAGELLATE/TOTAL 16
 PERCENT OTHER/TOTAL 74

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
43PP	1	33.0	FLAGELLATA	37220	4 81
43PP	1	33.0	COSCIINODISCUS WAILESII	1200	4 3
43PP	1	33.0	COCCOLITHUS HUXLEYI	960	4 2
43PP	1	33.0	GYMNODINIUM OCEANICUM	840	4 2
43PP	1	33.0	GYMNODINIUM AGILE	720	4 2
43PP	1	33.0	SYRACOSPHAERA SP.	720	4 2
43PP	1	33.0	RHIZOSOLENIA HEBETATA	600	4 1
43PP	1	33.0	SKELETONEMA COSTATUM	480	4 1
43PP	1	33.0	GYMNODINIUM PUNCTATUM	360	4 1
43PP	1	33.0	GONIAULAX TRIACANTHA	360	4 1
43PP	1	33.0	THALASSIOSIRA NORDENSKIÖDII	240	4 1
43PP	1	33.0	MELOSIRA GLACIALIS	240	4 1
43PP	1	33.0	PERIDINIUM PELLUCIDUM	240	4 1
43PP	1	33.0	COCCOLITHUS PELAGICUS	240	4 1
43PP	1	33.0	GONIAULAX DIGITALE	240	4 1
43PP	1	33.0	PERIDINIUM TROCHOIDEUM	240	4 1
43PP	1	33.0	CERATIUM TRIPOS	240	4 1
43PP	1	33.0	TROPIDONEIS ANTARCTICA VAR POLYPLASTA	120	4 0
43PP	1	33.0	CYCLOTELLA SP.	120	4 0
43PP	1	33.0	DINOPHYSIS SP.	120	4 0
43PP	1	33.0	EXUVIELLA PUSTILLA	120	4 0
43PP	1	33.0	GONIAULAX MINIMA	120	4 0
43PP	1	33.0	OXYTOXUM GLADIOLUS	120	4 0

TOTAL CELLS
 PERCENT DIATOM/TOTAL 7
 PERCENT DINOFLAGELLATE/TOTAL 8
 PERCENT OTHER/TOTAL 85

LAT 40 43.0
SONIC DEPTH 32

LONG 72 28.0 DATE 78/04/04
ONE PERCENT LIGHT DEPTH 29

TIME 0900

STA CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
4999 1	0.0 FLAGELLATA	3900	4
4999 1	0.0 PHAEOCYSTIS POUCHETII	1040	13
4999 1	0.0 RHIZOSOLENIA FRAGILISSIMA	520	6
4999 1	0.0 GYMNOIDINIUM PUNCTATUM	520	6
4999 1	0.0 PERIDINIUM MONOCANTHUS	520	6
4999 1	0.0 GYMNOIDINIUM OCEANICUM	260	3
4999 1	0.0 PERIDINIUM PELLUCIDUM	130	2
4999 1	0.0 GYRODINIUM WULFFII	130	2
4999 1	0.0 GYMNOIDINIUM SP.	130	2
4999 1	0.0 DINOPHYSIS NORVEGICA	130	2
4999 1	0.0 CERATIUM LONGIPES	130	2
4999 1	0.0 GYMNOIDINIUM KOVALEWSKII	130	2
4999 1	0.0 PERIDINIUM MINUSCULUM	130	2
4999 1	0.0 AMPHIDINIUM EXTENSUM	130	2
4999 1	0.0 GYRODINIUM SP.	130	2
4999 1	0.0 COCCOLITHUS HUXLEYI	130	2

TOTAL CELLS
PERCENT DIATOM/TOTAL 6
PERCENT DINOFLAGELLATE/TOTAL 31
PERCENT OTHER/TOTAL 63

STA CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
4999 1	3.0 PHAEOCYSTIS POUCHETII	81120	4
4999 1	3.0 FLAGELLATA	4810	5
4999 1	3.0 RHIZOSOLENIA FRAGILISSIMA	720	1
4999 1	3.0 GYMNOIDINIUM PUNCTATUM	390	0
4999 1	3.0 PERIDINIUM DIVERGENS	390	0
4999 1	3.0 RHIZOSOLENIA HEBETATA	260	0
4999 1	3.0 THALASSIOSIRA NORDENSKIOLDII	260	0
4999 1	3.0 COSCINODISCUS WAILESII	130	0
4999 1	3.0 FRAGILARIA CYLINDRUS	130	0
4999 1	3.0 LICOMOPHORA LYNGBYEI	130	0
4999 1	3.0 CYCLOTELLA SP.	130	0
4999 1	3.0 PERIDINIUM PELLUCIDUM	130	0
4999 1	3.0 GYRODINIUM WULFFII	130	0
4999 1	3.0 DINOPHYSIS NORVEGICA	130	0
4999 1	3.0 CERATIUM LONGIPES	130	0
4999 1	3.0 PERIDINIUM ABEI	130	0
4999 1	3.0 PERIDINIUM MONOCANTHUS	130	0
4999 1	3.0 GYRODINIUM FUSIFORME	130	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 2
PERCENT DINOFLAGELLATE/TOTAL 2
PERCENT OTHER/TOTAL 96

STA CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
4999 1	9.0 PHAEOCYSTIS POUCHETII	26520	4
4999 1	9.0 FLAGELLATA	6290	17
4999 1	9.0 GYMNOIDINIUM PUNCTATUM	680	2
4999 1	9.0 PERIDINIUM MONOCANTHUS	340	1
4999 1	9.0 SYRACOSPHAERA SP.	340	1
4999 1	9.0 CERATIUM LONGIPES	340	1
4999 1	9.0 PERIDINIUM DIVERGENS	340	1
4999 1	9.0 RHIZOSOLENIA HEBETATA	170	0
4999 1	9.0 THALASSIOSIRA GRAVIDA	170	0
4999 1	9.0 COSCINODISCUS WAILESII	170	0
4999 1	9.0 CYCLOTELLA SP.	170	0
4999 1	9.0 GYMNOIDINIUM NANNUM	170	0
4999 1	9.0 GYMNOIDINIUM OCEANICUM	170	0
4999 1	9.0 PERIDINIUM PELLUCIDUM	170	0
4999 1	9.0 PROTOCERATIUM RETICULATUM	170	0
4999 1	9.0 DINOPHYSIS NORVEGICA	170	0
4999 1	9.0 GONIAULAX MINIMA	170	0
4999 1	9.0 PERIDINIUM ABEI	170	0
4999 1	9.0 GYMNOIDINIUM KOVALEWSKII	170	0
4999 1	9.0 COCCOLITHUS HUXLEYI	170	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 2
PERCENT DINOFLAGELLATE/TOTAL 8
PERCENT OTHER/TOTAL 90

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
49PP	1	12.0	PHAEOCYSTIS POUCHETII	22640	4 55
49PP	1	12.0	FLAGELLATA	12440	4 30
49PP	1	12.0	RHIZOSOLENIA FRAGILISSIMA	1280	4 3
49PP	1	12.0	GYMNODINIUM PUNCTATUM	960	4 2
49PP	1	12.0	THALASSIOSIRA NORDENSKIODII	800	4 2
49PP	1	12.0	COCCOLITHUS HUXLEYI	640	4 2
49PP	1	12.0	GYMNODINIUM WULFFII	480	4 1
49PP	1	12.0	GYRODINIUM WULFFII	320	4 1
49PP	1	12.0	SKELETONEMA COSTATUM	320	4 1
49PP	1	12.0	THALASSIONEMA NITZSCHIOIDES	320	4 1
49PP	1	12.0	GONIAULAX MINIMA	320	4 1
49PP	1	12.0	BACTERIOSIRA FRAGILIS	160	4 0
49PP	1	12.0	CYCLOTELLA SP.	160	4 0
49PP	1	12.0	PROTOCERATIUM RETICULATUM	160	4 0
49PP	1	12.0	DINOPHYSIS NORVEGICA	160	4 0
49PP	1	12.0	CERATIUM LONGIPES	160	4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 7
PERCENT DINOFLAGELLATE/TOTAL 6
PERCENT OTHER/TOTAL 86

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
49PP	1	29.0	PHAEOCYSTIS POUCHETII	325100	4 86
49PP	1	29.0	FLAGELLATA	43240	4 11
49PP	1	29.0	THALASSIOSIRA NORDENSKIODII	2640	4 1
49PP	1	29.0	SKELETONEMA COSTATUM	2640	4 1
49PP	1	29.0	RHIZOSOLENIA FRAGILISSIMA	1920	4 1
49PP	1	29.0	GYMNODINIUM PUNCTATUM	990	4 0
49PP	1	29.0	GYMNODINIUM OCEANICUM	660	4 0
49PP	1	29.0	BACTERIOSIRA FRAGILIS	330	4 0
49PP	1	29.0	RHIZOSOLENIA HEBETATA	330	4 0
49PP	1	29.0	CYCLOTELLA SP.	330	4 0
49PP	1	29.0	GYMNODINIUM NANNUM	330	4 0
49PP	1	29.0	PERIDINIUM PELLUCIDUM	330	4 0
49PP	1	29.0	GYRODINIUM WULFFII	330	4 0
49PP	1	29.0	COCCOLITHUS HUXLEYI	330	4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 2
PERCENT DINOFLAGELLATE/TOTAL 1
PERCENT OTHER/TOTAL 97

LAT 39 57.0
SONIC DEPTH 105

LONG 71 54.0 DATE 78/04/05
ONE PERCENT LIGHT DEPTH 36

TIME 1000

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
52PP	1	0.0 FLAGELLATA	15200	4 61
52PP	1	0.0 GYMNOIDINIUM PUNCTATUM	3200	4 13
52PP	1	0.0 GYMNOIDINIUM NANNUM	2200	4 9
52PP	1	0.0 COCCOLITHUS HUXLEYI	1600	4 6
52PP	1	0.0 DISTEPHANUS SPECULUM	500	4 2
52PP	1	0.0 GONIAULAX MINIMA	300	4 1
52PP	1	0.0 COCCOLITHUS PELAGICUS	300	4 1
52PP	1	0.0 GYMNOIDINIUM KOVALEWSKII	300	4 1
52PP	1	0.0 COSCINODISCUS WAILESII	200	4 1
52PP	1	0.0 GYMNOIDINIUM AGILE	200	4 1
52PP	1	0.0 SYRACOSPHAERA SP.	200	4 1
52PP	1	0.0 NAVICULA SP.	200	4 1
52PP	1	0.0 BACTERIOSIRA FRAGILIS	100	4 0
52PP	1	0.0 COSCINODISCUS EXCENTRICUS	100	4 0
52PP	1	0.0 GYMNOIDINIUM OCEANICUM	100	4 0
52PP	1	0.0 PERIDINIUM PELLUCIDUM	100	4 0
52PP	1	0.0 PHALACROMA ROTUNDATUM	100	4 0
52PP	1	0.0 CERATIUM TRIPOS	100	4 0
52PP	1	0.0 DINOPHYSIS NORVEGICA	100	4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 2
PERCENT DINOFLAGELLATE/TOTAL 27
PERCENT OTHER/TOTAL 71

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
52PP	1	4.0 FLAGELLATA	8500	4 50
52PP	1	4.0 GYMNOIDINIUM PUNCTATUM	4200	4 25
52PP	1	4.0 COCCOLITHUS HUXLEYI	1000	4 6
52PP	1	4.0 GONIAULAX MINIMA	1000	4 6
52PP	1	4.0 GYMNOIDINIUM KOVALEWSKII	300	4 2
52PP	1	4.0 DISTEPHANUS SPECULUM	300	4 2
52PP	1	4.0 COSCINODISCUS WAILESII	200	4 1
52PP	1	4.0 GYMNOIDINIUM OCEANICUM	200	4 1
52PP	1	4.0 SYRACOSPHAERA SP.	200	4 1
52PP	1	4.0 GYMNOIDINIUM NANNUM	200	4 1
52PP	1	4.0 TROPIDONEIS ANTARCTICA VAR. POLYPLASTA	100	4 1
52PP	1	4.0 RHIZOSOLENIA HEBETATA	100	4 1
52PP	1	4.0 FRAGILARIA CYLINDRUS	100	4 1
52PP	1	4.0 THALASSIOSIRA GRAVIDA	100	4 1
52PP	1	4.0 GYMNOIDINIUM AGILE	100	4 1
52PP	1	4.0 PHALACROMA ROTUNDATUM	100	4 1
52PP	1	4.0 GYMNOIDINIUM WULFFII	100	4 1
52PP	1	4.0 COCCOLITHUS PELAGICUS	100	4 1

TOTAL CELLS
PERCENT DIATOM/TOTAL 4
PERCENT DINOFLAGELLATE/TOTAL 37
PERCENT OTHER/TOTAL 60

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
52PP	1	11.0 FLAGELLATA	9400	4 39
52PP	1	11.0 GYMNOIDINIUM PUNCTATUM	6200	4 25
52PP	1	11.0 COCCOLITHUS HUXLEYI	1800	4 7
52PP	1	11.0 NAVICULA SP.	1400	4 6
52PP	1	11.0 MELOSIRA SULCATA	1200	4 5
52PP	1	11.0 SYRACOSPHAERA SP.	1000	4 4
52PP	1	11.0 GYMNOIDINIUM KOVALEWSKII	800	4 3
52PP	1	11.0 GYMNOIDINIUM OCEANICUM	500	4 2
52PP	1	11.0 GONIAULAX MINIMA	400	4 2
52PP	1	11.0 COSCINODISCUS WAILESII	300	4 1
52PP	1	11.0 DISTEPHANUS SPECULUM	200	4 1
52PP	1	11.0 GYMNOIDINIUM NANNUM	200	4 1
52PP	1	11.0 GYMNOIDINIUM PYGMAEUM	200	4 1
52PP	1	11.0 TROPIDONEIS ANTARCTICA VAR. POLYPLASTA	100	4 0
52PP	1	11.0 THALASSIOSIRA GRAVIDA	100	4 0
52PP	1	11.0 LICOMOPHORA LYNGBYEI	100	4 0
52PP	1	11.0 GYMNOIDINIUM AGILE	100	4 0
52PP	1	11.0 PERIDINIUM PELLUCIDUM	100	4 0
52PP	1	11.0 CERATIUM FURCA	100	4 0
52PP	1	11.0 CERATIUM LONGIPES	100	4 0
52PP	1	11.0 GYMNOIDINIUM WULFFII	100	4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 13
PERCENT DINOFLAGELLATE/TOTAL 36
PERCENT OTHER/TOTAL 51

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES		
52PP	1	15.0	FLAGELLATA	14400	4	55
52PP	1	15.0	COCCOLITHUS HUXLEYI	3400	4	13
52PP	1	15.0	GYMNODINIUM PUNCTATUM	1800	4	7
52PP	1	15.0	GONIAULAX MINIMA	1800	4	7
52PP	1	15.0	GYMNODINIUM OCEANICUM	1000	4	4
52PP	1	15.0	FRAGILARIA CYLINDRUS	700	4	3
52PP	1	15.0	GYMNODINIUM NANNUM	600	4	2
52PP	1	15.0	COSCINODISCUS WAILESII	300	4	1
52PP	1	15.0	COCCOLITHUS PELAGICUS	300	4	1
52PP	1	15.0	SYRACOSPHAERA SP.	200	4	1
52PP	1	15.0	BACTERIOSIRA FRAGILIS	200	4	1
52PP	1	15.0	PERIDINIUM PELLUCIDUM	200	4	1
52PP	1	15.0	THALASSIOSIRA GRAVIDA	200	4	1
52PP	1	15.0	GYMNODINIUM AGILE	200	4	1
52PP	1	15.0	DISTEPHANUS SPECULUM	200	4	1
52PP	1	15.0	RHIZOSOLENIA FRAGILISSIMA	100	4	0
52PP	1	15.0	COSCINODISCUS EXCENTRICUS	100	4	0
52PP	1	15.0	GYMNODINIUM KOVALEWSKII	100	4	0
52PP	1	15.0	GONIAULAX TRIACANTHA	100	4	0
52PP	1	15.0	CERATIUM FURCA	100	4	0
52PP	1	15.0	PHALACROMA ROTUNDATUM	100	4	0
52PP	1	15.0	CERATIUM LONGIPES	100	4	0
TOTAL CELLS						
PERCENT DIATOM/TOTAL						
PERCENT DINOFLAGELLATE/TOTAL						
PERCENT OTHER/TOTAL						

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
52PP	1	36.0	COCCOLITHUS HUXLEYI	4300	4 28
52PP	1	36.0	FLAGELLATA	3250	4 21
52PP	1	36.0	MELOSIRA SULCATA	2470	4 16
52PP	1	36.0	SYRACOSPHAERA SP.	1560	4 10
52PP	1	36.0	RHIZOSOLENIA HEBETATA	550	4 4
52PP	1	36.0	COSCONODISCUS HAILESII	520	4 3
52PP	1	36.0	DISTEPHANUS SPECULUM	390	4 3
52PP	1	36.0	COCCOLITHUS PELAGICUS	390	4 3
52PP	1	36.0	GYMNODINIUM AGILE	260	4 2
52PP	1	36.0	GONIAULAX MINIMA	260	4 2
52PP	1	36.0	TROPIDONEIS ANTARCTICA VAR POLYPLASTA	130	4 1
52PP	1	36.0	PLEUROSIGMA ELONGATUM	130	4 1
52PP	1	36.0	FRAGILARIA CYLINDRUS	130	4 1
52PP	1	36.0	CYCLOTELLA SP.	130	4 1
52PP	1	36.0	GYMNODINIUM KOVALEWSKII	130	4 1
52PP	1	36.0	GYMNODINIUM PUNCTATUM	130	4 1
52PP	1	36.0	GONIAULAX TRIACANTHA	130	4 1
52PP	1	36.0	CERATIUM FUSUS	130	4 1
52PP	1	36.0	CERATIUM MINUTUM	130	4 1
52PP	1	36.0	SYRACOSPHAERA GRUNDII	130	4 1
TOTAL CELLS					
PERCENT DIATOM/TOTAL 27					
PERCENT DINOFLAGELLATE/TOTAL 8					
PERCENT OTHER/TOTAL 66					

R/V ATLANTIS II CRUISE
APRIL 1978

LAT 40 42.5
SONIC DEPTH 37

LONG 72 29.0 DATE 78/04/04
ONE PERCENT LIGHT DEPTH 30

TIME 0732

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
3	1	0.0 GYMNODINIUM SIMPLEX	404500	5 4 92
3	1	0.0 SKELETONEMA COSTATUM	6300	0 4 1
3	1	0.0 NANNOPLANKTON	5100	0 4 1
3	1	0.0 THALASSIOSIRA SP.	4600	0 4 1
3	1	0.0 GYMNODINIUM SP.	4500	0 4 1
3	1	0.0 AMPHIDINIUM PHAEOCYSTICOLA	3300	0 4 1
3	1	0.0 GYMNODINIUM FILUM	2000	0 4 0
3	1	0.0 OXYTOXUM GLADIOLUS	1500	0 4 0
3	1	0.0 LAUDERIA BOREALIS	1000	0 4 0
3	1	0.0 SCENEDESMUS SP.	800	0 4 0
3	1	0.0 CHAETOCEROS GRACILE	700	0 4 0
3	1	0.0 EXUVIELLA COMPRESSA	600	0 4 0
3	1	0.0 GYRODINIUM SP.	500	0 4 0
3	1	0.0 NAVICULA SP.	500	0 4 0
3	1	0.0 EXUVIELLA SP.	400	0 4 0
3	1	0.0 PERIDINIUM SP.	300	0 4 0
3	1	0.0 ASTERIONELLA JAPONICA	300	0 4 0
3	1	0.0 DINOPHYSIS OVUM	300	0 4 0
3	1	0.0 DINOPHYSIS ACUTA	200	0 4 0
3	1	0.0 PROROCENTRUM MICANS	200	0 4 0
3	1	0.0 MELOSIRA MONILIFORMIS	200	0 4 0
3	1	0.0 RHIZOSOLENIA HEBETATA	100	0 4 0
3	1	0.0 SILIATE	100	0 4 0
3	1	0.0 MESODINIUM RUBRUM	100	0 4 0
3	1	0.0 CERATIUM FURCA	100	0 4 0
3	1	0.0 SILICA FLAGELLATE	100	0 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

3
95
1

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
3	1	20.0 GYMNODINIUM SIMPLEX	1374800	6 4 96
3	1	20.0 SKELETONEMA COSTATUM	11800	6 4 1
3	1	20.0 THALASSIOSIRA SP.	9000	6 4 1
3	1	20.0 AMPHIDINIUM SP.	7800	6 4 1
3	1	20.0 MELOSIRA MONILIFORMIS	4600	6 4 0
3	1	20.0 GYMNODINIUM SP.	3600	6 4 0
3	1	20.0 ASTERIONELLA JAPONICA	3400	6 4 0
3	1	20.0 NANNOPLANKTON	3400	6 4 0
3	1	20.0 GYMNODINIUM FILUM	3000	6 4 0
3	1	20.0 RHIZOSOLENIA DELICATULA	2800	6 4 0
3	1	20.0 GYMNODINIUM PYGMAEUM	1400	6 4 0
3	1	20.0 OXYTOXUM GLADIOLUS	1400	6 4 0
3	1	20.0 CHAETOCEROS SP.	800	6 4 0
3	1	20.0 NAVICULA SP.	600	6 4 0
3	1	20.0 COSCINODISCUS SP.	400	6 4 0
3	1	20.0 SILIATE	400	6 4 0
3	1	20.0 PERIDINIUM SP.	200	6 4 0
3	1	20.0 TINTINNIDA	200	6 4 0
3	1	20.0 CHAETOCEROS GRACILE	200	6 4 0
3	1	20.0 CERATIUM TRIPOS	200	6 4 0
3	1	20.0 NITZSCHIA CLOSTERIUM	200	6 4 0
3	1	20.0 PROROCENTRUM SP.	200	6 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL
PERCENT DINOFLAGELLATE/TOTAL
PERCENT OTHER/TOTAL

2
97
0

LAT 40 32.1
SONIC DEPTH 49

LONG 72 23.7 DATE 78/04/04
ONE PERCENT LIGHT DEPTH

TIME 1741

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
5	1	0.0 GYMNODINIUM SIMPLEX	12400	9 4 45
5	1	0.0 AMPHIDINIUM SP.	3600	9 4 13
5	1	0.0 GYMNODINIUM SP.	2700	9 4 10
5	1	0.0 GYMNODINIUM PYGMAEUM	2000	9 4 7
5	1	0.0 RHIZOSOLENIA DELICATULA	1400	9 4 5
5	1	0.0 GYMNODINIUM FILUM	1000	9 4 4
5	1	0.0 NANNOPHANKTON	1000	9 4 4
5	1	0.0 THALASSIOSIRA SP.	1000	9 4 4
5	1	0.0 OXYTOXUM GLADIOLUS	600	9 4 2
5	1	0.0 EXUVIELLA SP.	400	9 4 1
5	1	0.0 MESODINIUM RUBRUM	400	9 4 1
5	1	0.0 PERIDINIUM SP.	400	9 4 1
5	1	0.0 CERATIUM TRIPOS	300	9 4 1
5	1	0.0 DINOPHYSIS PUNCTATA	200	9 4 1
5	1	0.0 MELOSIRA SP.	100	9 4 0
5	1	0.0 NITZSCHIA PUNGENS V. ATLANTICA	100	9 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 9
PERCENT DINOFLAGELLATE/TOTAL 86
PERCENT OTHER/TOTAL 5

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
5	1	30.0 GYMNODINIUM PYGMAEUM	3400	10 4 31
5	1	30.0 GYMNODINIUM SIMPLEX	2500	10 4 23
5	1	30.0 GYMNODINIUM SP.	1100	10 4 10
5	1	30.0 GYMNODINIUM FILUM	1000	10 4 9
5	1	30.0 AMPHIDINIUM SP.	700	10 4 6
5	1	30.0 THALASSIOSIRA SP.	700	10 4 6
5	1	30.0 OXYTOXUM GLADIOLUS	400	10 4 4
5	1	30.0 PROROCENTRUM SP.	200	10 4 2
5	1	30.0 NANNOPHANKTON	200	10 4 2
5	1	30.0 PERIDINIUM SP.	200	10 4 2
5	1	30.0 MELOSIRA MONILIFORMIS	200	10 4 2
5	1	30.0 CERATIUM TRIPOS	100	10 4 1
5	1	30.0 RHIZOSOLENIA DELICATULA	100	10 4 1

TOTAL CELLS
PERCENT DIATOM/TOTAL 9
PERCENT DINOFLAGELLATE/TOTAL 89
PERCENT OTHER/TOTAL 2

LAT 40 26.6
SONIC DEPTH 55

LONG 72 20.0 DATE 78/04/05
ONE PERCENT LIGHT DEPTH

TIME 2015

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
6	1	0.0 MESODINIUM RUBRUM	8800	11 4 42
6	1	0.0 GYMNODINIUM PYGMAEUM	2500	11 4 12
6	1	0.0 GYMNODINIUM SIMPLEX	2000	11 4 10
6	1	0.0 NANNOPHANKTON	1900	11 4 9
6	1	0.0 AMPHIDINIUM SP.	1700	11 4 8
6	1	0.0 GYMNODINIUM FILUM	1000	11 4 5
6	1	0.0 GYMNODINIUM SP.	700	11 4 3
6	1	0.0 THALASSIOSIRA SP.	600	11 4 3
6	1	0.0 PERIDINIUM SP.	400	11 4 2
6	1	0.0 SKELETONEMA COSTATUM	300	11 4 1
6	1	0.0 OXYTOXUM GLADIOLUS	200	11 4 1
6	1	0.0 SILICA FLAGELLATE	200	11 4 1
6	1	0.0 TINTINNIDA	200	11 4 1
6	1	0.0 DINOPHYSIS SP.	100	11 4 0
6	1	0.0 CERATIUM TRIPOS	100	11 4 0
6	1	0.0 NITZSCHIA PUNGENS V. ATLANTICA	100	11 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 5
PERCENT DINOFLAGELLATE/TOTAL 42
PERCENT OTHER/TOTAL 53

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
6	1	30.0 AMPHIDINIUM SP.	5300	12 4 25
6	1	30.0 GYMNODINIUM SIMPLEX	4700	12 4 22
6	1	30.0 GYMNODINIUM PYGMAEUM	3600	12 4 17
6	1	30.0 NANNOPHANKTON	2300	12 4 11
6	1	30.0 GYMNODINIUM FILUM	1000	12 4 5
6	1	30.0 MESODINIUM RUBRUM	800	12 4 4
6	1	30.0 THALASSIOSIRA SP.	600	12 4 3
6	1	30.0 RHIZOSOLENIA DELICATULA	600	12 4 3
6	1	30.0 THALASSIOSIRA GRAVIDA	600	12 4 3
6	1	30.0 GYMNODINIUM SP.	500	12 4 2
6	1	30.0 EXUVIELLA SP.	300	12 4 1
6	1	30.0 OXYTOXUM GLADIOLUS	200	12 4 1
6	1	30.0 PERIDINIUM SP.	200	12 4 1
6	1	30.0 NAVICULA SP.	100	12 4 0
6	1	30.0 SILIATE	100	12 4 0
6	1	30.0 CERATIUM TRIPOS	100	12 4 0
6	1	30.0 PERIDINIUM MINUSCULUM	100	12 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 9
PERCENT DINOFLAGELLATE/TOTAL 76
PERCENT OTHER/TOTAL 15

LAT 40 21.5
SONIC DEPTH 58

LONG 72 17.5 DATE 78/04/05
ONE PERCENT LIGHT DEPTH

TIME 2331

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
7	1	0.0 MESODINIUM RUBRUM	1700	13.4 46
7	1	0.0 NANNOPLANKTON	4800	13.4 15
7	1	0.0 AMPHIDINIUM SP.	3900	13.4 12
7	1	0.0 GYMNOINIUM PYGMAEUM	3400	13.4 11
7	1	0.0 GYMNOINIUM SP.	1500	13.4 5
7	1	0.0 GYMNOINIUM FILUM	1000	13.4 3
7	1	0.0 TINTINNIDA	600	13.4 2
7	1	0.0 CERATIUM TRIPOS	500	13.4 2
7	1	0.0 PERIDINIUM SP.	400	13.4 1
7	1	0.0 THALASSIOSIRA SP.	300	13.4 1
7	1	0.0 PROROCENTRUM SP.	200	13.4 1
7	1	0.0 COSCINODISCUS WAILESII	200	13.4 1
7	1	0.0 OXYTOXUM GLADIOLUS	200	13.4 1
7	1	0.0 EXUVIELLA SP.	100	13.4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 2
PERCENT DINOFLAGELLATE/TOTAL 35
PERCENT OTHER/TOTAL 63

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
7	1	25.0 NANNOPLANKTON	5100	14.4 38
7	1	25.0 AMPHIDINIUM SP.	2700	14.4 20
7	1	25.0 GYMNOINIUM PYGMAEUM	2200	14.4 16
7	1	25.0 MESODINIUM RUBRUM	1900	14.4 14
7	1	25.0 GYMNOINIUM FILUM	500	14.4 4
7	1	25.0 COSCINODISCUS WAILESII	400	14.4 3
7	1	25.0 OXYTOXUM GLADIOLUS	200	14.4 1
7	1	25.0 PERIDINIUM SP.	100	14.4 1
7	1	25.0 SILICA FLAGELLATE	100	14.4 1
7	1	25.0 COSCINODISCUS CONCINNUS	100	14.4 1
7	1	25.0 CERATIUM TRIPOS	100	14.4 1
7	1	25.0 RHIZOSOLENIA DELICATULA	100	14.4 1
7	1	25.0 GYMNOINIUM SP.	100	14.4 1

TOTAL CELLS
PERCENT DIATOM/TOTAL 4
PERCENT DINOFLAGELLATE/TOTAL 43
PERCENT OTHER/TOTAL 52

LAT 40 09.9
SONIC DEPTH 71

LONG 72 11.0 DATE 78/04/05
ONE PERCENT LIGHT DEPTH

TIME 0435

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
9	1	0.0	NANNOPLANKTON	12500	17.4	27
9	1	0.0	MESODINIUM RUBRUM	9200	17.4	20
9	1	0.0	AMPHIDINIUM SP.	6400	17.4	14
9	1	0.0	GYMNODINIUM SIMPLEX	5100	17.4	11
9	1	0.0	GYMNODINIUM PYGMAEUM	3700	17.4	8
9	1	0.0	GYMNODINIUM FILUM	2500	17.4	5
9	1	0.0	OXYTOXUM GLADIOLUS	2000	17.4	4
9	1	0.0	GYMNODINIUM SP.	1700	17.4	4
9	1	0.0	THALASSIOSIRA SP.	1300	17.4	3
9	1	0.0	PERIDINIUM SP.	700	17.4	1
9	1	0.0	SILICA FLAGELLATE	600	17.4	1
9	1	0.0	CHAETOCEROS SP.	400	17.4	1
9	1	0.0	TINTINNIDA	300	17.4	1
9	1	0.0	MELOSIRA MONILIFORMIS	100	17.4	0
9	1	0.0	EXUVIELLA SP.	100	17.4	0
9	1	0.0	CERATIUM TRIPOS	100	17.4	0
9	1	0.0	NITZSCHIA PUNGENS V. ATLANTICA	100	17.4	0
						TOTAL CELLS
						PERCENT DIATOM/TOTAL
						PERCENT DINOFLAGELLATE/TOTAL
						PERCENT OTHER/TOTAL

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
9	1	30.0	NANNOPLANKTON	23300	18.4	36
9	1	30.0	MESODINIUM RUBRUM	12300	18.4	19
9	1	30.0	AMPHIDINIUM SP.	12200	18.4	19
9	1	30.0	GYMNODINIUM PYGMAEUM	4500	18.4	7
9	1	30.0	GYMNODINIUM SIMPLEX	3600	18.4	6
9	1	30.0	RHIZOLENIA DELICATULA	1400	18.4	2
9	1	30.0	CHAETOCEROS SP.	1200	18.4	2
9	1	30.0	GYMNODINIUM FILUM	1000	18.4	2
9	1	30.0	GYMNODINIUM SP.	900	18.4	1
9	1	30.0	PERIDINIUM SP.	700	18.4	1
9	1	30.0	CHAETOCEROS GRACILE	700	18.4	1
9	1	30.0	EXUVIELLA SP.	600	18.4	1
9	1	30.0	SILICA FLAGELLATE	500	18.4	1
9	1	30.0	OXYTOXUM GLADIOLUS	400	18.4	1
9	1	30.0	CERATIUM TRIPOS	300	18.4	0
9	1	30.0	TINTINNIDA	300	18.4	0
9	1	30.0	THALASSIOSIRA SP.	270	18.4	0
9	1	30.0	COSCIINOISCUS WAILESII	100	18.4	0
9	1	30.0	SILIATE	100	18.4	0
9	1	30.0	DINOPHYSIS ACUTA	100	18.4	0
						TOTAL CELLS
						PERCENT DIATOM/TOTAL
						PERCENT DINOFLAGELLATE/TOTAL
						PERCENT OTHER/TOTAL

LAT 39 32.4
SONIC DEPTH 1426

LONG 71 43.4 DATE 78/04/05
ONE PERCENT LIGHT DEPTH

TIME 1852

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
10	1	0.0	NANNOPLANKTON	16100	19.4
10	1	0.0	GYMNODINIUM PYGMAEUM	6200	19.4
10	1	0.0	AMPHIDINIUM SP.	5700	19.4
10	1	0.0	GYMNODINIUM SP.	4800	19.4
10	1	0.0	MESODINIUM RUBRUM	4200	19.4
10	1	0.0	GYMNODINIUM FILUM	3900	19.4
10	1	0.0	PYRAMIMONAS	3800	19.4
10	1	0.0	OXYTOXUM GLADIOLUS	3000	19.4
10	1	0.0	PERIDINIUM FAEROENSE	2900	19.4
10	1	0.0	GYMNODINIUM MINUTUM	2500	19.4
10	1	0.0	CHAETOCEROS SP.	1800	19.4
10	1	0.0	EXUVIELLA SP.	600	19.4
10	1	0.0	LAUDERIA BOREALIS	500	19.4
10	1	0.0	THALASSIOSIRA GRAVIDA	500	19.4
10	1	0.0	NITZSCHIA CLOSTERIUM	400	19.4
10	1	0.0	TINTINNIDA	400	19.4
10	1	0.0	CERATIUM FUSUS	200	19.4
10	1	0.0	COSCIINODISCUS CONCINNUS	200	19.4
10	1	0.0	DINOPHYSIS PUNCTATA	100	19.4
10	1	0.0	CERATIUM TRIPOS	100	19.4
10	1	0.0	COSCIINODISCUS SP.	100	19.4
10	1	0.0	CERATIUM FURCA	100	19.4
10	1	0.0	PERIDINIUM MINUSCULUM	100	19.4
10	1	0.0	SILICA FLAGELLATE	100	19.4
10	1	0.0	PERIDINIUM SP.	100	19.4

TOTAL CELLS
PERCENT DIATOM/TOTAL 6
PERCENT DINOFLAGELLATE/TOTAL 52
PERCENT OTHER/TOTAL 42

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
10	1	30.0	NANNOPLANKTON	16100	20.4
10	1	30.0	GYMNODINIUM MINUTUM	6300	20.4
10	1	30.0	GYMNODINIUM PYGMAEUM	6200	20.4
10	1	30.0	PYRAMIMONAS	4800	20.4
10	1	30.0	AMPHIDINIUM SP.	4800	20.4
10	1	30.0	GYMNODINIUM FILUM	3800	20.4
10	1	30.0	GYMNODINIUM SP.	3600	20.4
10	1	30.0	MESODINIUM RUBRUM	3500	20.4
10	1	30.0	PERIDINIUM FAEROENSE	2900	20.4
10	1	30.0	OXYTOXUM GLADIOLUS	2100	20.4
10	1	30.0	CHAETOCEROS SP.	1600	20.4
10	1	30.0	LEPTOCYLINDRUS DANICUS	1000	20.4
10	1	30.0	COSCIINODISCUS CONCINNUS	900	20.4
10	1	30.0	LAUDERIA BOREALIS	800	20.4
10	1	30.0	THALASSIOSIRA SP.	700	20.4
10	1	30.0	CYCLOTELLA NANA	500	20.4
10	1	30.0	EXUVIELLA SP.	400	20.4
10	1	30.0	PROROCENTRUM MICANS	400	20.4
10	1	30.0	TINTINNIDA	400	20.4
10	1	30.0	THALASSIOSIRA GRAVIDA	400	20.4
10	1	30.0	PROROCENTRUM SP.	400	20.4
10	1	30.0	CERATIUM TRIPOS	300	20.4
10	1	30.0	NITZSCHIA CLOSTERIUM	300	20.4
10	1	30.0	CERATIUM FURCA	300	20.4
10	1	30.0	NITZSCHIA PUNGENS V. ATLANTICA	300	20.4
10	1	30.0	DINOPHYSIS PUNCTATA	200	20.4
10	1	30.0	CERATIUM FUSUS	200	20.4
10	1	30.0	PERIDINIUM SP.	200	20.4
10	1	30.0	COSCIINOSIRA POLYCHORDA	100	20.4
10	1	30.0	COSCIINODISCUS RADIATUS	100	20.4

TOTAL CELLS
PERCENT DIATOM/TOTAL 11
PERCENT DINOFLAGELLATE/TOTAL 50
PERCENT OTHER/TOTAL 39

LAT 39 42.4
SONIC DEPTH 292

LONG 71 52.0 DATE 78/04/05
ONE PERCENT LIGHT DEPTH

TIME 2300

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
11	1	0.0	NANNOPLANKTON	15800	21 4 25
11	1	0.0	AMPHIDINIUM SP.	9600	21 4 15
11	1	0.0	MESODINIUM RUBRUM	9300	21 4 15
11	1	0.0	GYMNODINIUM PYGMAEUM	5100	21 4 8
11	1	0.0	PERIDINIUM SP.	4800	21 4 8
11	1	0.0	GYMNODINIUM SP.	3100	21 4 5
11	1	0.0	EXUVIELLA SP.	3000	21 4 5
11	1	0.0	THALASSIOSIRA SP.	2700	21 4 4
11	1	0.0	GYMNODINIUM FILUM	2500	21 4 4
11	1	0.0	GYMNODINIUM SIMPLEX	1800	21 4 3
11	1	0.0	OXYTOXUM GLADIOLUS	1700	21 4 3
11	1	0.0	ASTERIONELLA JAPONICA	700	21 4 1
11	1	0.0	TINTINNIDA	400	21 4 1
11	1	0.0	SILICA FLAGELLATE	400	21 4 1
11	1	0.0	RHIZOSOLENIA DELICATULA	400	21 4 1
11	1	0.0	CERATIUM TRIPOS	300	21 4 0
11	1	0.0	GYMNODINIUM MINUTUM	300	21 4 0
11	1	0.0	DINOPHYSIS PUNCTATA	300	21 4 0
11	1	0.0	PERIDINIUM MINUSCULUM	200	21 4 0
11	1	0.0	PROROCENTRUM MICANS	200	21 4 0
11	1	0.0	CERATIUM FURCA	200	21 4 0
11	1	0.0	COSCINODISCUS SP.	200	21 4 0
11	1	0.0	MELOSIRA SP.	200	21 4 0
11	1	0.0	CERATIUM FUSUS	100	21 4 0
11	1	0.0	GUINARDIA FLACCIDA	100	21 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 7
PERCENT DINOFLAGELLATE/TOTAL 52
PERCENT OTHER/TOTAL 41

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
11	1	30.0	NANNOPLANKTON	14500	22 4 29
11	1	30.0	AMPHIDINIUM SP.	9300	22 4 19
11	1	30.0	GYMNODINIUM PYGMAEUM	5200	22 4 10
11	1	30.0	MESODINIUM RUBRUM	3800	22 4 8
11	1	30.0	GYMNODINIUM FILUM	2500	22 4 5
11	1	30.0	GYMNODINIUM SP.	2000	22 4 4
11	1	30.0	PERIDINIUM FAEROENSE	1900	22 4 4
11	1	30.0	OXYTOXUM GLADIOLUS	1800	22 4 4
11	1	30.0	THALASSIOSIRA SP.	1600	22 4 3
11	1	30.0	CHAETOCEROS SIMPLEX	1300	22 4 3
11	1	30.0	GRAMMATOPHORA SP.	1200	22 4 2
11	1	30.0	GYMNODINIUM SIMPLEX	1200	22 4 2
11	1	30.0	COSCINODISCUS WAILESII	800	22 4 2
11	1	30.0	EXUVIELLA SP.	600	22 4 1
11	1	30.0	CERATIUM TRIPOS	600	22 4 1
11	1	30.0	SILICA FLAGELLATE	300	22 4 1
11	1	30.0	GYMNODINIUM MINUTUM	300	22 4 1
11	1	30.0	CHAETOCEROS SP.	200	22 4 0
11	1	30.0	CERATIUM FURCA	200	22 4 0
11	1	30.0	NITZSCHIA CLOSTERIUM	200	22 4 0
11	1	30.0	PROROCENTRUM MICANS	100	22 4 0
11	1	30.0	PERIDINIUM MINUSCULUM	100	22 4 0
11	1	30.0	PERIDINIUM SP.	100	22 4 0
11	1	30.0	COCHLODINIUM SP.	100	22 4 0
11	1	30.0	COSCINODISCUS CONCINNUS	100	22 4 0
11	1	30.0	CERATIUM FUSUS	100	22 4 0
11	1	30.0	RHIZOSOLENIA DELICATULA	100	22 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 11
PERCENT DINOFLAGELLATE/TOTAL 52
PERCENT OTHER/TOTAL 37

LAT 39 54.5
SONIC DEPTH 97

LONG 71 59.4 DATE 78/04/06
ONE PERCENT LIGHT DEPTH

TIME 0355

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
13	1	0.0	NANNOPLANKTON	31900	25 4 51
13	1	0.0	MESODINIUM RUBRUM	8500	25 4 14
13	1	0.0	AMPHIDINIUM SP.	4800	25 4 8
13	1	0.0	GYMNODINIUM PYGMAEUM	4100	25 4 7
13	1	0.0	PYRAMIMONAS	2900	25 4 5
13	1	0.0	GYMNODINIUM SIMPLEX	2500	25 4 4
13	1	0.0	GYMNODINIUM SP.	1900	25 4 3
13	1	0.0	THALASSIOSIRA SP.	1200	25 4 2
13	1	0.0	GYMNODINIUM FILUM	1000	25 4 2
13	1	0.0	PERIDINIUM FAEROENSE	1000	25 4 2
13	1	0.0	TINTINNIDA	600	25 4 1
13	1	0.0	DINOPHYSIS PUNCTATA	400	25 4 1
13	1	0.0	EXUVIELLA SP.	400	25 4 1
13	1	0.0	SILICA FLAGELLATE	400	25 4 1
13	1	0.0	OXYTOXUM GLADIOLUS	200	25 4 0
13	1	0.0	RHIZOSOLENIA DELICATULA	200	25 4 0
13	1	0.0	CERATIUM TRIPOS	200	25 4 0
13	1	0.0	CHAETOCEROS SP.	100	25 4 0
13	1	0.0	COSCINODISCUS SP.	100	25 4 0
13	1	0.0	NITZSCHIA CLOSTERIUM	100	25 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 3
PERCENT DINOFLAGELLATE/TOTAL 26
PERCENT OTHER/TOTAL 71

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
13	1	30.0	NANNOPLANKTON	37600	26 4 50
13	1	30.0	AMPHIDINIUM SP.	7700	26 4 10
13	1	30.0	GYMNODINIUM PYGMAEUM	6200	26 4 8
13	1	30.0	MESODINIUM RUBRUM	5900	26 4 8
13	1	30.0	GYMNODINIUM SIMPLEX	5300	26 4 7
13	1	30.0	PYRAMIMONAS	3600	26 4 5
13	1	30.0	GYMNODINIUM FILUM	2500	26 4 3
13	1	30.0	THALASSIOSIRA SP.	1900	26 4 3
13	1	30.0	OXYTOXUM GLADIOLUS	1500	26 4 2
13	1	30.0	PERIDINIUM FAEROENSE	1000	26 4 1
13	1	30.0	SILICA FLAGELLATE	400	26 4 1
13	1	30.0	COSCINODISCUS WAILESII	200	26 4 0
13	1	30.0	GYMNODINIUM SP.	130	26 4 0
13	1	30.0	CERATIUM TRIPOS	100	26 4 0
13	1	30.0	DINOPHYSIS PUNCTATA	100	26 4 0
13	1	30.0	COSCINODISCUS SP.	100	26 4 0
13	1	30.0	CHAETOCEROS SIMPLEX	100	26 4 0
13	1	30.0	CERATIUM FURCA	100	26 4 0
13	1	30.0	PERIDINIUM SP.	100	26 4 0
13	1	30.0	NITZSCHIA PUNGENS V. ATLANTICA	100	26 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 3
PERCENT DINOFLAGELLATE/TOTAL 33
PERCENT OTHER/TOTAL 64

LAT 40 04.5
SONIC DEPTH 76

LONG 72 05.5 DATE 78/04/06
ONE PERCENT LIGHT DEPTH 26

TIME 0952

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
15	1	0.0	NANNOPLANKTON	13500	00 4 27
15	1	0.0	GYMNODINIUM SIMPLEX	10600	00 4 21
15	1	0.0	MESODINIUM RUBRUM	10000	00 4 20
15	1	0.0	AMPHIDINIUM SP.	4900	00 4 10
15	1	0.0	GYMNODINIUM PYGMAEUM	2300	00 4 5
15	1	0.0	GYMNODINIUM SP.	2300	00 4 5
15	1	0.0	GYMNODINIUM FILUM	1500	00 4 3
15	1	0.0	PYRAMIMONAS	1200	00 4 2
15	1	0.0	THALASSIOSIRA SP.	950	00 4 2
15	1	0.0	OXYTOXUM GLADIOLUS	850	00 4 2
15	1	0.0	PERIDINIUM FAEROENSE	750	00 4 1
15	1	0.0	CERATIUM TRIPOS	550	00 4 1
15	1	0.0	TINTINNIDA	450	00 4 1
15	1	0.0	SILICA FLAGELLATE	300	00 4 1
15	1	0.0	EXUVIELLA SP.	200	00 4 0
15	1	0.0	CHAETOCEROS SIMPLEX	200	00 4 0
15	1	0.0	CHAETOCEROS SP.	100	00 4 0
15	1	0.0	PERIDINIUM SP.	100	00 4 0
15	1	0.0	PROROCENTRUM MICANS	100	00 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 2
PERCENT DINOFLAGELLATE/TOTAL 47
PERCENT OTHER/TOTAL 50

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
15	1	30.0	GYMNODINIUM SIMPLEX	54100	00 4 56
15	1	30.0	AMPHIDINIUM SP.	9200	00 4 9
15	1	30.0	MESODINIUM RUBRUM	8300	00 4 9
15	1	30.0	AMPHIDINIUM SP.	6700	00 4 7
15	1	30.0	NANNOPLANKTON	5100	00 4 5
15	1	30.0	GYMNODINIUM PYGMAEUM	3700	00 4 4
15	1	30.0	GYMNODINIUM FILUM	2500	00 4 3
15	1	30.0	PYRAMIMONAS	2100	00 4 2
15	1	30.0	OXYTOXUM GLADIOLUS	1800	00 4 2
15	1	30.0	GYMNODINIUM SP.	1200	00 4 1
15	1	30.0	PERIDINIUM FAEROENSE	850	00 4 1
15	1	30.0	THALASSIOSIRA SP.	600	00 4 1
15	1	30.0	CHAETOCEROS SP.	400	00 4 0
15	1	30.0	EXUVIELLA SP.	300	00 4 0
15	1	30.0	NITZSCHIA PUNGENS V. ATLANTICA	200	00 4 0
15	1	30.0	TINTINNIDA	150	00 4 0
15	1	30.0	PERIDINIUM SP.	150	00 4 0
15	1	30.0	SILICA FLAGELLATE	100	00 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 1
PERCENT DINOFLAGELLATE/TOTAL 83
PERCENT OTHER/TOTAL 16

LAT 41 15.9
SONIC DEPTH 1829

LONG 67 20.8
ONE PERCENT LIGHT DEPTH

DATE 78/04/09
TIME 1139

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
33	1	0.0 CHAETOCEROS SP.	87600	79 %
33	1	0.0 UNIDENTIFIED DIATOMS	58800	79 %
33	1	0.0 NANNOPHANKTON	28800	79 %
33	1	0.0 THALASSIOSIRA SP.	27800	79 %
33	1	0.0 THALASSIOSIRA GRAVIDA	17800	79 %
33	1	0.0 ASTERIONELLA JAPONICA	16600	79 %
33	1	0.0 CYCLOTELLA NANA	15600	79 %
33	1	0.0 AMPHIDINIUM SP.	14200	79 %
33	1	0.0 NITZSCHIA CLOSTERIUM	9000	79 %
33	1	0.0 THALASSIOSIRA HYALINA	5000	79 %
33	1	0.0 GYMNODINIUM SIMPLEX	4600	79 %
33	1	0.0 MESODINIUM RUBRUM	3800	79 %
33	1	0.0 NITZSCHIA PUNGENS V. ATLANTICA	3400	79 %
33	1	0.0 GYMNODINIUM SP.	3200	79 %
33	1	0.0 GYMNODINIUM PYGMAEUM	3200	79 %
33	1	0.0 THALASSIONEMA NITZSCHIOIDES	3000	79 %
33	1	0.0 LAUDERIA BOREALIS	2000	79 %
33	1	0.0 GYMNODINIUM FILUM	2000	79 %
33	1	0.0 PERIDINIUM SP.	1800	79 %
33	1	0.0 COSCINOSIRA F. LYCHORDA	1600	79 %
33	1	0.0 OXYTOXUM GLADIOLUS	1600	79 %
33	1	0.0 CHAETOCEROS DIADEMA	1400	79 %
33	1	0.0 NAVICULA SP.	1000	79 %
33	1	0.0 MELOSIRA MONILIFORMIS	1000	79 %
33	1	0.0 RHIZOSOLENIA HEBETATA	1000	79 %
33	1	0.0 EXUVIELLA SP.	600	79 %
33	1	0.0 RHIZOSOLENIA SP.	600	79 %
33	1	0.0 PERIDINIUM MINUSCULUM	400	79 %
33	1	0.0 LEPTOCYLINDRUS MINIMUS	400	79 %
33	1	0.0 PHALACROMA ROTUNDATUM	200	79 %
33	1	0.0 DINOPHYSIS PUNCTATA	200	79 %
33	1	0.0 CHAETOCEROS GRACILE	200	79 %
33	1	0.0 CERATIUM TRIPOS	200	79 %

TOTAL CELLS
PERCENT DIATOM/TOTAL 80
PERCENT DINOFLAGELLATE/TOTAL 10
PERCENT OTHER/TOTAL 10

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
33	1	30.0 THALASSIOSIRA SP.	71400	80 %
33	1	30.0 CYCLOTELLA NANA	64000	80 %
33	1	30.0 NANNOPHANKTON	25800	80 %
33	1	30.0 CHAETOCEROS SP.	18200	80 %
33	1	30.0 THALASSIOSIRA GRAVIDA	15600	80 %
33	1	30.0 THALASSIOSIRA HYALINA	14600	80 %
33	1	30.0 ASTERIONELLA JAPONICA	12600	80 %
33	1	30.0 NAVICULA SP.	8600	80 %
33	1	30.0 CHAETOCEROS DIADEMA	6400	80 %
33	1	30.0 NITZSCHIA CLOSTERIUM	5600	80 %
33	1	30.0 AMPHIDINIUM SP.	5600	80 %
33	1	30.0 GYMNODINIUM SP.	4800	80 %
33	1	30.0 NITZSCHIA PUNGENS V. ATLANTICA	4800	80 %
33	1	30.0 GYMNODINIUM PYGMAEUM	3400	80 %
33	1	30.0 MELOSIRA SP.	3200	80 %
33	1	30.0 COSCINOSIRA POLYCHORDA	3000	80 %
33	1	30.0 RHIZOSOLENIA HEBETATA	3000	80 %
33	1	30.0 THALASSIONEMA NITZSCHIOIDES	2800	80 %
33	1	30.0 LEPTOCYLINDRUS MINIMUS	2800	80 %
33	1	30.0 THALASSIOSIRA CONDENSATA	2400	80 %
33	1	30.0 THALASSIOSIRA BALTICA	2200	80 %
33	1	30.0 GYMNODINIUM FILUM	2000	80 %
33	1	30.0 GYMNODINIUM SIMPLEX	1800	80 %
33	1	30.0 RHIZOSOLENIA DELICATULA	1800	80 %
33	1	30.0 MESODINIUM RUBRUM	1400	80 %
33	1	30.0 OXYTOXUM GLADIOLUS	800	80 %
33	1	30.0 CHAETOCEROS GRACILE	800	80 %
33	1	30.0 EXUVIELLA SP.	400	80 %
33	1	30.0 NITZSCHIA LONGISSIMA	400	80 %
33	1	30.0 SKELETONEMA COSTATUM	400	80 %
33	1	30.0 PERIDINIUM SP.	400	80 %
33	1	30.0 CERATIUM TRIPOS	200	80 %

TOTAL CELLS
PERCENT DIATOM/TOTAL 84
PERCENT DINOFLAGELLATE/TOTAL 7
PERCENT OTHER/TOTAL 9

STA CAST DEPTH(M)			SPECIES	(NO./L)	PERCENTAGES	
33	1	100.0	THALASSIOSIRA SP.	8900	81.4	21
33	1	100.0	CYCLOTELLA NANA	7600	81.4	18
33	1	100.0	NANNOPLANKTON	5800	81.4	14
33	1	100.0	THALASSIOSIRA GRAVIDA	3300	81.4	8
33	1	100.0	UNIDENTIFIED DIATOMS	3100	81.4	7
33	1	100.0	THALASSIOSIRA HYALINA	2400	81.4	6
33	1	100.0	GYMNODINIUM SP.	1800	81.4	4
33	1	100.0	GYMNODINIUM PYGMAEUM	1800	81.4	4
33	1	100.0	GYMNODINIUM FILUM	1500	81.4	4
33	1	100.0	OXYTOXUM GLADIOLUS	1300	81.4	3
33	1	100.0	NITZSCHIA CLOSTERIUM	1000	81.4	2
33	1	100.0	CHAETOCEROS DECIPIENS	900	81.4	2
33	1	100.0	NITZSCHIA PUNGENS V. ATLANTICA	700	81.4	2
33	1	100.0	AMPHIDINIUM SP.	600	81.4	1
33	1	100.0	NAVICULA SP.	400	81.4	1
33	1	100.0	THALASSIONEMA NITZSCHIOIDES	400	81.4	1
33	1	100.0	MESODINIUM RUBRUM	300	81.4	1
33	1	100.0	ASTERIONELLA JAPONICA	300	81.4	1
33	1	100.0	PERIDINIUM SP.	300	81.4	1
33	1	100.0	EXUVIELLA SP.	100	81.4	0
33	1	100.0	GYMNODINIUM MINUTUM	100	81.4	0
33	1	100.0	NITZSCHIA LONGISSIMA	100	81.4	0
TOTAL CELLS						68
PERCENT DIATOM/TOTAL						18
PERCENT DINOFAGELLATE/TOTAL						14
PERCENT OTHER/TOTAL						

LAT 42 27.7
SONIC DEPTH 232

LONG 67 27.1 DATE 78/04/09
ONE PERCENT LIGHT DEPTH

TIME 1505

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
34	1	0.0 CHAETOCEROS SP.	130000	82 %
34	1	0.0 UNIDENTIFIED DIATOMS	38400	82 %
34	1	0.0 CYCLOTELLA NANA	22400	82 %
34	1	0.0 NANNOPANKTON	20800	82 %
34	1	0.0 THALASSIOSIRA GRAVIDA	17600	82 %
34	1	0.0 THALASSIOSIRA SP.	16200	82 %
34	1	0.0 GYMNOINIUM SP.	6800	82 %
34	1	0.0 ASTERIONELLA JAPONICA	6400	82 %
34	1	0.0 AMPHIDIINIUM SP.	6200	82 %
34	1	0.0 THALASSIOSIRA HYALINA	5000	82 %
34	1	0.0 NITZSCHIA CLOSTERIUM	4600	82 %
34	1	0.0 MESODINIUM RUBRUM	4200	82 %
34	1	0.0 NITZSCHIA DELICATISSIMA	3400	82 %
34	1	0.0 THALASSIOSIRA SP.	2800	82 %
34	1	0.0 RHIZOLENIA HEBETATA	2600	82 %
34	1	0.0 THALASSIONEMA NITZSCHIOIDES	2600	82 %
34	1	0.0 THALASSIOSIRA NORDENSKIODII	2600	82 %
34	1	0.0 PERIDIINIUM SP.	2200	82 %
34	1	0.0 LAUDERIA BOREALIS	1800	82 %
34	1	0.0 GYMNOINIUM PYGMAEUM	1600	82 %
34	1	0.0 EXUVIELLA SP.	1400	82 %
34	1	0.0 GYMNOINIUM FILUM	1000	82 %
34	1	0.0 PERIDIINIUM MINUSCULUM	800	82 %
34	1	0.0 RHIZOLENIA DELICATULA	800	82 %
34	1	0.0 OXYTOXUM GLADIOLUS	400	82 %
34	1	0.0 CHAETOCEROS DIADEMA	200	82 %
34	1	0.0 COSCINOSIRA POLYCHORDA	200	82 %

TOTAL CELLS
PERCENT DIATOM/TOTAL 85
PERCENT DINOFLAGELLATE/TOTAL 7
PERCENT OTHER/TOTAL 8

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
34	1	30.0 CHAETOCEROS SP.	81100	83 %
34	1	30.0 CYCLOTELLA NANA	18200	83 %
34	1	30.0 THALASSIOSIRA SP.	14000	83 %
34	1	30.0 THALASSIOSIRA GRAVIDA	12400	83 %
34	1	30.0 UNIDENTIFIED DIATOMS	11300	83 %
34	1	30.0 NANNOPANKTON	8800	83 %
34	1	30.0 ASTERIONELLA JAPONICA	8500	83 %
34	1	30.0 THALASSIOSIRA HYALINA	3700	83 %
34	1	30.0 AMPHIDIINIUM SP.	3500	83 %
34	1	30.0 NITZSCHIA DELICATISSIMA	3000	83 %
34	1	30.0 LAUDERIA BOREALIS	2600	83 %
34	1	30.0 RHIZOLENIA HEBETATA	2600	83 %
34	1	30.0 GYMNOINIUM SP.	2400	83 %
34	1	30.0 NITZSCHIA CLOSTERIUM	2100	83 %
34	1	30.0 CHAETOCEROS DIADEMA	1500	83 %
34	1	30.0 GYMNOINIUM PYGMAEUM	1500	83 %
34	1	30.0 EXUVIELLA SP.	900	83 %
34	1	30.0 THALASSIOSIRA BALTICA	900	83 %
34	1	30.0 PERIDIINIUM SP.	600	83 %
34	1	30.0 MESODINIUM RUBRUM	600	83 %
34	1	30.0 COSCINOSIRA POLYCHORDA	600	83 %
34	1	30.0 GYMNOINIUM FILUM	500	83 %
34	1	30.0 CERATIUM TRIPOS	500	83 %
34	1	30.0 CHAETOCEROS GRACILE	500	83 %
34	1	30.0 OXYTOXUM GLADIOLUS	400	83 %
34	1	30.0 NAVICULA SP.	300	83 %
34	1	30.0 NITZSCHIA PUNGENS V. ATLANTICA	300	83 %
34	1	30.0 PERIDIINIUM MINUSCULUM	300	83 %
34	1	30.0 THALASSIONEMA NITZSCHIOIDES	200	83 %
34	1	30.0 DINOPHYSIS PUNCTATA	100	83 %
34	1	30.0 COSCINODISCUS SP.	100	83 %
34	1	30.0 GYMNOINIUM MINUTUM	100	83 %

TOTAL CELLS
PERCENT DIATOM/TOTAL 89
PERCENT DINOFLAGELLATE/TOTAL 6
PERCENT OTHER/TOTAL 5

STA CAST DEPTH(M)			SPECIES	(NO./L)	PERCENTAGES	
34	1	100.0	CHAETOCEROS SP.	16000	84 %	19
34	1	100.0	THALASSIOSIRA SP.	13200	84 %	15
34	1	100.0	CYCLOTELLA NANA	12700	84 %	15
34	1	100.0	THALASSIOSIRA GRAVIDA	8400	84 %	10
34	1	100.0	THALASSIOSIRA HYALINA	6700	84 %	8
34	1	100.0	CHAETOCEROS DIADEMA	5700	84 %	7
34	1	100.0	NANNIPLANKTON	4600	84 %	5
34	1	100.0	NITZSCHIA DELICATISSIMA	3000	84 %	3
34	1	100.0	NITZSCHIA CLOSTERIUM	2500	84 %	3
34	1	100.0	AMPHIDINIUM SP.	2200	84 %	3
34	1	100.0	GYMNODINIUM FILUM	1500	84 %	2
34	1	100.0	GYMNODINIUM SP.	1500	84 %	2
34	1	100.0	THALASSIOSIRA SP.	1500	84 %	2
34	1	100.0	SKELETONEMA COSTATUM	1300	84 %	2
34	1	100.0	LAUDERIA BOREALIS	1000	84 %	1
34	1	100.0	GYMNODINIUM PYGMAEUM	800	84 %	1
34	1	100.0	UNIDENTIFIED DIATOMS	800	84 %	1
34	1	100.0	THALASSIONEMA NITZSCHIOIDES	700	84 %	1
34	1	100.0	OXYTOXUM GLADIOLUS	500	84 %	1
34	1	100.0	COSCIINOSIRA POLYCHORDA	400	84 %	0
34	1	100.0	MESODINIUM RUBRUM	400	84 %	0
34	1	100.0	RHIZOLENIA HEBETATA	300	84 %	0
34	1	100.0	PERIDINIUM SP.	200	84 %	0
34	1	100.0	NITZSCHIA PUNGENS V. ATLANTICA	200	84 %	0
TOTAL CELLS						86
PERCENT DIATOM/TOTAL						8
PERCENT DINOFLAGELLATE/TOTAL						8
PERCENT OTHER/TOTAL						6

LAT 40 29.0
SONIC DEPTH 137

LONG 67 34.6 DATE 78/04/09
ONE PERCENT LIGHT DEPTH

TIME 1737

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
35	1	0.0	CHAETOCEROS SP.	149100	85 %
35	1	0.0	THALASSIOSIRA SP.	46600	85 %
35	1	0.0	THALASSIOSIRA GRAVIDA	36700	85 %
35	1	0.0	THALASSIOSIRA HYALINA	30400	85 %
35	1	0.0	NANNOPLANKTON	22200	85 %
35	1	0.0	CYCLOTELLA NANA	21200	85 %
35	1	0.0	UNIDENTIFIED DIATOMS	17300	85 %
35	1	0.0	ASTERIONELLA JAPONICA	10600	85 %
35	1	0.0	NITZSCHIA DELICATISSIMA	9500	85 %
35	1	0.0	GYMNODINIUM SIMPLEX	7200	85 %
35	1	0.0	NITZSCHIA CLOSTERIUM	6600	85 %
35	1	0.0	RHIZOSOLENIA STOLTERFOTHII	5000	85 %
35	1	0.0	THALASSIONEMA NITZSCHIOIDES	4600	85 %
35	1	0.0	CHAETOCEROS DIADEMA	4200	85 %
35	1	0.0	AMPHIDINIUM SP.	3600	85 %
35	1	0.0	MESODINIUM RUBRUM	2900	85 %
35	1	0.0	CHAETOCEROS GRACILE	2200	85 %
35	1	0.0	PYRAMIMONAS	2000	85 %
35	1	0.0	COSCIINOSIRA POLYCHORDA	2000	85 %
35	1	0.0	LAUDERIA BOREALIS	1700	85 %
35	1	0.0	EXUVIELLA SP.	1500	85 %
35	1	0.0	RHIZOSOLENIA HEBETATA	1300	85 %
35	1	0.0	GYMNODINIUM SP.	1100	85 %
35	1	0.0	OXYTOXUM GLADIOLUS	1100	85 %
35	1	0.0	GYMNODINIUM PYGMAEUM	1000	85 %
35	1	0.0	GYMNODINIUM FILUM	1000	85 %
35	1	0.0	THALASSIOSIRA BALTICA	800	85 %
35	1	0.0	PERIDINIUM MINUSCULUM	700	85 %
35	1	0.0	PERIDINIUM SP.	600	85 %
35	1	0.0	SILICA FLAGELLATE	200	85 %
35	1	0.0	CERATIUM TRIPOS	200	85 %
35	1	0.0	RHIZOSOLENIA SETIGERA	100	85 %
35	1	0.0	TINTINNIDA	100	85 %

TOTAL CELLS
PERCENT DIATOM/TOTAL 89
PERCENT DINOFLAGELLATE/TOTAL 5
PERCENT OTHER/TOTAL 7

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
35	1	30.0	CHAETOCEROS SP.	67000	86 %
35	1	30.0	THALASSIOSIRA SP.	40400	86 %
35	1	30.0	THALASSIOSIRA GRAVIDA	22500	86 %
35	1	30.0	THALASSIOSIRA HYALINA	19900	86 %
35	1	30.0	NANNOPLANKTON	17700	86 %
35	1	30.0	CYCLOTELLA NANA	13000	86 %
35	1	30.0	OXYTOXUM GLADIOLUS	5400	86 %
35	1	30.0	UNIDENTIFIED DIATOMS	4800	86 %
35	1	30.0	LAUDERIA BOREALIS	4600	86 %
35	1	30.0	NITZSCHIA DELICATISSIMA	4200	86 %
35	1	30.0	ASTERIONELLA JAPONICA	3300	86 %
35	1	30.0	AMPHIDINIUM SP.	2800	86 %
35	1	30.0	CHAETOCEROS DIADEMA	2100	86 %
35	1	30.0	NITZSCHIA CLOSTERIUM	2000	86 %
35	1	30.0	RHIZOSOLENIA HEBETATA	1800	86 %
35	1	30.0	MESODINIUM RUBRUM	1500	86 %
35	1	30.0	COSCIINOSIRA POLYCHORDA	1100	86 %
35	1	30.0	THALASSIONEMA NITZSCHIOIDES	1000	86 %
35	1	30.0	EXUVIELLA SP.	900	86 %
35	1	30.0	PERIDINIUM SP.	900	86 %
35	1	30.0	RHIZOSOLENIA SP.	700	86 %
35	1	30.0	GYMNODINIUM FILUM	500	86 %
35	1	30.0	CHAETOCEROS GRACILE	500	86 %
35	1	30.0	GYMNODINIUM SP.	500	86 %
35	1	30.0	CHAETOCEROS GRACILE	400	86 %
35	1	30.0	OXYTOXUM GLADIOLUS	400	86 %
35	1	30.0	TINTINNIDA	200	86 %
35	1	30.0	NITZSCHIA PUNGENS V. ATLANTICA	100	86 %
35	1	30.0	PERIDINIUM MINUSCULUM	100	86 %
35	1	30.0	CERATIUM TRIPOS	100	86 %
35	1	30.0	DINOPHYSIS PUNCTATA	100	86 %

TOTAL CELLS
PERCENT DIATOM/TOTAL 86
PERCENT DINOFLAGELLATE/TOTAL 5
PERCENT OTHER/TOTAL 9

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES	
35	1	125.0	THALASSIOSIRA SP.	21300	87 %	30
35	1	125.0	THALASSIOSIRA HYALINA	15100	87 %	22
35	1	125.0	CYCLOTELLA NANA	6600	87 %	9
35	1	125.0	NANNOPLANKTON	6400	87 %	9
35	1	125.0	THALASSIOSIRA GRAVIDA	3700	87 %	5
35	1	125.0	CHAETOCEROS DIADEMA	2300	87 %	3
35	1	125.0	NITZSCHIA DELICATISSIMA	2100	87 %	3
35	1	125.0	GYMNODINIUM FILUM	2000	87 %	3
35	1	125.0	CHAETOCEROS SP.	2000	87 %	3
35	1	125.0	NITZSCHIA CLOSTERIUM	1300	87 %	2
35	1	125.0	OXYTOXUM GLADIOLUS	1000	87 %	1
35	1	125.0	GYMNODINIUM PYGMAEUM	900	87 %	1
35	1	125.0	UNIDENTIFIED DIATOMS	800	87 %	1
35	1	125.0	THALASSIONEMA NITZSCHIOIDES	700	87 %	1
35	1	125.0	GYMNODINIUM SP.	700	87 %	1
35	1	125.0	AMPHIDINIUM SP.	600	87 %	1
35	1	125.0	NAVICULA SP.	300	87 %	0
35	1	125.0	MESODINIUM RUBRUM	300	87 %	0
35	1	125.0	THALASSIOSIRA BALTICA	300	87 %	0
35	1	125.0	LAUDERIA BOREALIS	300	87 %	0
35	1	125.0	LEPTOCYLINDRUS DANICUS	200	87 %	0
35	1	125.0	COSCIINOSIRA POLYCHORDA	200	87 %	0
35	1	125.0	EXUVIELLA SP.	200	87 %	0
35	1	125.0	PLEUROSIGMA AESTUARII	100	87 %	0
35	1	125.0	PERIDINIUM SP.	100	87 %	0
35	1	125.0	NITZSCHIA PUNGENS V. ATLANTICA	100	87 %	0
35	1	125.0	COSCIINODISCUS SP.	100	87 %	0
35	1	125.0	RHIZOSOLENIA STOLTERFOTHII	100	87 %	0
35	1	125.0	PROROCENTRUM SP.	100	87 %	0
35	1	125.0	TINTINNIDA	100	87 %	0
					TOTAL CELLS	
					PERCENT DIATOM/TOTAL	
					PERCENT DINOFAGELLATE/TOTAL	
					PERCENT OTHER/TOTAL	
					82	
					8	
					10	

LAT 40 35.0
SONIC DEPTH 97

LONG 67 39.5 DATE 78/04/09
ONE PERCENT LIGHT DEPTH

TIME 2004

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
36	1	0.0	NANNOPLANKTON	14600	88 4 46
36	1	0.0	GYMNODINIUM PYGMAEUM	3500	88 4 11
36	1	0.0	MESODINIUM RUBRUM	3500	88 4 11
36	1	0.0	AMPHIDINIUM SP.	2500	88 4 8
36	1	0.0	THALASSIOSIRA SP.	1800	88 4 6
36	1	0.0	PYRAMIMONAS	1400	88 4 4
36	1	0.0	GYMNODINIUM FILUM	700	88 4 2
36	1	0.0	EXUVIELLA SP.	600	88 4 2
36	1	0.0	OXYTOXUM GLADIOLUS	500	88 4 2
36	1	0.0	PERIDINIUM FAEROENSE	400	88 4 1
36	1	0.0	GYMNODINIUM SP.	400	88 4 1
36	1	0.0	TINTINNIDA	400	88 4 1
36	1	0.0	GYMNODINIUM MINUTUM	300	88 4 1
36	1	0.0	CERATIUM TRIPOS	300	88 4 1
36	1	0.0	NITZSCHIA CLOSTERIUM	200	88 4 1
36	1	0.0	THALASSIOSIRA GRAVIDA	100	88 4 0
36	1	0.0	RHIZOSOLENIA SP.	100	88 4 0
36	1	0.0	CHAETOCEROS SP.	100	88 4 0
36	1	0.0	CERATIUM FUSUS	100	88 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 7
PERCENT DINOFLAGELLATE/TOTAL 30
PERCENT OTHER/TOTAL 63

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
36	1	30.0	NANNOPLANKTON	5800	89 4 24
36	1	30.0	GYMNODINIUM PYGMAEUM	3400	89 4 14
36	1	30.0	MESODINIUM RUBRUM	3300	89 4 14
36	1	30.0	AMPHIDINIUM SP.	2700	89 4 11
36	1	30.0	GYMNODINIUM SP.	2000	89 4 8
36	1	30.0	THALASSIOSIRA SP.	1800	89 4 7
36	1	30.0	GYMNODINIUM FILUM	1300	89 4 5
36	1	30.0	CHAETOCEROS SP.	900	89 4 4
36	1	30.0	GYMNODINIUM MINUTUM	600	89 4 2
36	1	30.0	CHAETOCEROS DIADEMA	500	89 4 2
36	1	30.0	LAUDERIA BOREALIS	400	89 4 2
36	1	30.0	ASTERIONELLA JAPONICA	300	89 4 1
36	1	30.0	EXUVIELLA SP.	300	89 4 1
36	1	30.0	THALASSIONEMA NITZSCHIOIDES	200	89 4 1
36	1	30.0	TINTINNIDA	200	89 4 1
36	1	30.0	NITZSCHIA DELICATISSIMA	100	89 4 0
36	1	30.0	NITZSCHIA CLOSTERIUM	100	89 4 0
36	1	30.0	THALASSIOSIRA GRAVIDA	100	89 4 0
36	1	30.0	NITZSCHIA PUNGENS V. ATLANTICA	100	89 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 19
PERCENT DINOFLAGELLATE/TOTAL 43
PERCENT OTHER/TOTAL 39

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
36	1	90.0	THALASSIOSIRA HYALINA	26500	90 4 22
36	1	90.0	CHAETOCEROS DIADEMA	19100	90 4 16
36	1	90.0	CHAETOCEROS SP.	14600	90 4 12
36	1	90.0	NANNOPLANKTON	10400	90 4 9
36	1	90.0	NITZSCHIA DELICATISSIMA	10000	90 4 8
36	1	90.0	THALASSIOSIRA GRAVIDA	9900	90 4 8
36	1	90.0	THALASSIOSIRA SP.	7200	90 4 6
36	1	90.0	THALASSIONEMA NITZSCHIOIDES	4800	90 4 4
36	1	90.0	CYCLOTELLA NANA	3500	90 4 3
36	1	90.0	GYMNODINIUM PYGMAEUM	2500	90 4 2
36	1	90.0	RHODULPHIA SP.	1700	90 4 1
36	1	90.0	NITZSCHIA CLOSTERIUM	1600	90 4 1
36	1	90.0	GYMNODINIUM FILUM	1300	90 4 1
36	1	90.0	COSCINODISCUS SP.	1000	90 4 1
36	1	90.0	MESODINIUM RUBRUM	1000	90 4 1
36	1	90.0	NITZSCHIA PUNGENS V. ATLANTICA	1000	90 4 1
36	1	90.0	ASTERIONELLA JAPONICA	1000	90 4 1
36	1	90.0	LAUDERIA BOEALIS	1000	90 4 1
36	1	90.0	RHIZOLENIA ALATA	700	90 4 1
36	1	90.0	COSCINODISCUS CENTRALIS	600	90 4 0
36	1	90.0	EXUVIELLA SP.	600	90 4 0
36	1	90.0	PERIDINIUM FAEROENSE	500	90 4 0
36	1	90.0	MELOSIRA MONILIFORMIS	400	90 4 0
36	1	90.0	COSCINOSIRA POLYCHORDA	300	90 4 0
36	1	90.0	SILICA FLAGELLATE	200	90 4 0
36	1	90.0	OXYTOXUM GLADIOLUS	200	90 4 0
36	1	90.0	AMPHIDINIUM SP.	200	90 4 0
36	1	90.0	GYMNODINIUM MINUTUM	100	90 4 0
36	1	90.0	RHIZOLENIA HEBETATA	100	90 4 0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	86
PERCENT DINOFLAGELLATE/TOTAL	4
PERCENT OTHER/TOTAL	10

LAT 40 42.5
SONIC DEPTH 67

LONG 67 50.5 DATE 78/04/10
ONE PERCENT LIGHT DEPTH

TIME 0129

STA	CASE	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
38	1	0.0	NANNOPLANKTON	11500	94 + 38
38	1	0.0	GYMNODINIUM PYGMAEUM	5600	94 + 19
38	1	0.0	MESODINIUM RUBRUM	4800	94 + 16
38	1	0.0	AMPHIDINIUM SP.	1900	94 + 6
38	1	0.0	THALASSIOSIRA SP.	1700	94 + 6
38	1	0.0	CYCLOTELLA NANA	900	94 + 3
38	1	0.0	EXUVIELLA SP.	900	94 + 3
38	1	0.0	OXYTOXUM GLADIOLUS	500	94 + 2
38	1	0.0	CHAETOCEROS SP.	500	94 + 2
38	1	0.0	THALASSIOSIRA GRAVIDA	500	94 + 2
38	1	0.0	LAUDERIA BOREALIS	300	94 + 1
38	1	0.0	PERIDINIUM FAEROENSE	300	94 + 1
38	1	0.0	PERIDINIUM FAEROENSE	300	94 + 1
38	1	0.0	THALASSIONEMA NITZSCHIOIDES	200	94 + 1
38	1	0.0	CERATIUM FUSUS	100	94 + 0
38	1	0.0	CERATIUM TRIPOS	100	94 + 0
					TOTAL CELLS
					PERCENT DIATOM/TOTAL
					PERCENT DINOFLAGELLATE/TOTAL
					PERCENT OTHER/TOTAL

14
32
54

STA	CASE	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
38	1	30.0	NANNOPLANKTON	7100	95 + 15
38	1	30.0	CHAETOCEROS SP.	6400	95 + 13
38	1	30.0	THALASSIOSIRA SP.	6000	95 + 13
38	1	30.0	MESODINIUM RUBRUM	5100	95 + 11
38	1	30.0	GYMNODINIUM PYGMAEUM	3700	95 + 8
38	1	30.0	CHAETOCEROS DIADEMA	3500	95 + 7
38	1	30.0	THALASSIOSIRA GRAVIDA	2700	95 + 6
38	1	30.0	AMPHIDINIUM SP.	2600	95 + 5
38	1	30.0	THALASSIOSIRA HYALINA	2200	95 + 5
38	1	30.0	HELOSIRA MONILIFORMIS	2000	95 + 4
38	1	30.0	GYMNODINIUM FILUM	1100	95 + 2
38	1	30.0	THALASSIONEMA NITZSCHIOIDES	1000	95 + 2
38	1	30.0	LAUDERIA BOREALIS	900	95 + 2
38	1	30.0	NITZSCHIA DELICATISSIMA	700	95 + 1
38	1	30.0	COSCIINOSIRA POLYCHORDA	700	95 + 1
38	1	30.0	PERIDINIUM FAEROENSE	400	95 + 1
38	1	30.0	TINTINNIDA	400	95 + 1
38	1	30.0	EXUVIELLA SP.	400	95 + 1
38	1	30.0	COSCIINODISCUS WAILESII	200	95 + 0
38	1	30.0	RHIZOLENIA SP.	100	95 + 0
38	1	30.0	RHIZOLENIA ALATA	100	95 + 0
38	1	30.0	COSCIINODISCUS CENTRALIS	100	95 + 0
38	1	30.0	PROROCENTRUM SP.	100	95 + 0
38	1	30.0	RHIZOLENIA HEBETATA	100	95 + 0
38	1	30.0	CERATIUM TRIPOS	100	95 + 0
38	1	30.0	COSCIINODISCUS SP.	100	95 + 0
38	1	30.0	PERIDINIUM SP.	100	95 + 0
38	1	30.0	OXYTOXUM GLADIOLUS	100	95 + 0
					TOTAL CELLS
					PERCENT DIATOM/TOTAL
					PERCENT DINOFLAGELLATE/TOTAL
					PERCENT OTHER/TOTAL

56
18
26

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
38	1	65.0 THALASSIOSIRA SP.	51100	96 + 30
38	1	65.0 CHAETOCEROS DIADEMA	22500	96 + 13
38	1	65.0 NANNOPLANKTON	18900	96 + 11
38	1	65.0 CHAETOCEROS SP.	15500	96 + 9
38	1	65.0 THALASSIOSIRA GRAVIDA	12900	96 + 8
38	1	65.0 THALASSIOSIRA HYALINA	12100	96 + 7
38	1	65.0 NITZSCHIA DELICATISSIMA	8400	96 + 5
38	1	65.0 MESODINIUM RUBRUM	5500	96 + 3
38	1	65.0 CYCLOTELLA NANA	2500	96 + 1
38	1	65.0 MELOSIRA MONILIFORMIS	2500	96 + 1
38	1	65.0 COSCINODISCUS SP.	2400	96 + 1
38	1	65.0 GYMNODINIUM PYGMAEUM	2100	96 + 1
38	1	65.0 LAUDERIA BOREALIS	1800	96 + 1
38	1	65.0 GYMNODINIUM FILUM	1700	96 + 1
38	1	65.0 ASTERIONELLA JAPONICA	1600	96 + 1
38	1	65.0 NAVICULA SP.	1200	96 + 1
38	1	65.0 COSCINOSIRA POLYCHORDA	800	96 + 0
38	1	65.0 AMPHIDINIUM SP.	800	96 + 0
38	1	65.0 THALASSIONEMA NITZSCHIOIDES	800	96 + 0
38	1	65.0 NITZSCHIA PUNGENS V. ATLANTICA	630	96 + 0
38	1	65.0 EXUVIELLA SP.	500	96 + 0
38	1	65.0 SILICA FLAGELLATE	500	96 + 0
38	1	65.0 RHIZOSOLENIA HEBETATA	500	96 + 0
38	1	65.0 NITZSCHIA CLOSTERIUM	400	96 + 0
38	1	65.0 COSCINODISCUS CENTRALIS	300	96 + 0
38	1	65.0 RHIZOSOLENIA ALATA	300	96 + 0
38	1	65.0 TINTINNIDA	200	96 + 0
38	1	65.0 OXYTOXUM GLADIOLUS	100	96 + 0
38	1	65.0 PROROCENTRUM SP.	100	96 + 0
38	1	65.0 BIDDULPHIA SP.	100	96 + 0
38	1	65.0 PLEUROSIGMA AESTUARII	100	96 + 0
38	1	65.0 CERATIUM TRIPOS	100	96 + 0
38	1	65.0 COSCINODISCUS HAILESII	100	96 + 0
38	1	65.0 PERIDINIUM FAEROENSE	100	96 + 0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	82
PERCENT DINOFLAGELLATE/TOTAL	3
PERCENT OTHER/TOTAL	15

LAT 40 53.3
SONIC DEPTH 56

LONG 68 57.5 DATE 78/04/10
ONE PERCENT LIGHT DEPTH

TIME 0354

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
39	1	0.0	THALASSIOSIRA GRAVIDA	10900	97 4 20
39	1	0.0	CHAETOCEROS SP.	8000	97 4 14
39	1	0.0	CHAETOCEROS DEBILE	6800	97 4 12
39	1	0.0	THALASSIOSIRA SP.	5600	97 4 10
39	1	0.0	MESODINIUM RUBRUM	3800	97 4 7
39	1	0.0	NITZSCHIA DELICATISSIMA	3100	97 4 6
39	1	0.0	GYMNODINIUM SIMPLEX	2900	97 4 5
39	1	0.0	THALASSIONEMA NITZSCHIOIDES	2800	97 4 5
39	1	0.0	NANNOPLANKTON	2600	97 4 5
39	1	0.0	GYMNODINIUM FILUM	1800	97 4 3
39	1	0.0	MELOSIRA MONILIFORMIS	1600	97 4 3
39	1	0.0	LAUDERIA BOREALIS	800	97 4 1
39	1	0.0	TINTINNIDA	700	97 4 1
39	1	0.0	RHIZOLENIA HEBETATA	600	97 4 1
39	1	0.0	COSCIINODISCUS CENTRALIS	500	97 4 1
39	1	0.0	GYMNODINIUM PYGMAEUM	400	97 4 1
39	1	0.0	NITZSCHIA CLOSTERIUM	400	97 4 1
39	1	0.0	CHAETOCEROS DIADEMA	400	97 4 1
39	1	0.0	AMPHIDINIUM SP.	300	97 4 1
39	1	0.0	PERIDINIUM SP.	300	97 4 1
39	1	0.0	NAVICULA SP.	200	97 4 0
39	1	0.0	ASTERIONELLA JAPONICA	200	97 4 0
39	1	0.0	PROOCENTRUM SP.	200	97 4 0
39	1	0.0	PLEUROSIGMA AESTUARII	200	97 4 0
39	1	0.0	NITZSCHIA PUNGENS V. ATLANTICA	200	97 4 0
39	1	0.0	OXYTOXUM GLADIOLUS	200	97 4 0
39	1	0.0	PERIDINIUM FAEROENSE	100	97 4 0
39	1	0.0	PERIDINIUM MINUSCULUM	100	97 4 0
39	1	0.0	CERATIUM TRIPOS	100	97 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 76
PERCENT DINOFLAGELLATE/TOTAL 11
PERCENT OTHER/TOTAL 13

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
39	1	30.0	CHAETOCEROS SP.	26400	98 4 33
39	1	30.0	THALASSIOSIRA GRAVIDA	21800	98 4 27
39	1	30.0	GYMNODINIUM SIMPLEX	5700	98 4 7
39	1	30.0	THALASSIOSIRA SP.	3300	98 4 4
39	1	30.0	NANNOPLANKTON	2700	98 4 3
39	1	30.0	MESODINIUM RUBRUM	2600	98 4 3
39	1	30.0	THALASSIONEMA NITZSCHIOIDES	2600	98 4 3
39	1	30.0	CHAETOCEROS DEBILE	2500	98 4 3
39	1	30.0	RHIZOLENIA HEBETATA	2400	98 4 3
39	1	30.0	NITZSCHIA DELICATISSIMA	2100	98 4 3
39	1	30.0	NITZSCHIA CLOSTERIUM	1200	98 4 2
39	1	30.0	LAUDERIA BOREALIS	1100	98 4 1
39	1	30.0	TINTINNIDA	700	98 4 1
39	1	30.0	GYMNODINIUM SP.	600	98 4 1
39	1	30.0	GYMNODINIUM FILUM	600	98 4 1
39	1	30.0	GYMNODINIUM PYGMAEUM	500	98 4 1
39	1	30.0	COSCIINODISCUS SP.	500	98 4 1
39	1	30.0	PERIDINIUM FAEROENSE	400	98 4 1
39	1	30.0	MELOSIRA MONILIFORMIS	400	98 4 1
39	1	30.0	OXYTOXUM GLADIOLUS	300	98 4 0
39	1	30.0	NAVICULA SP.	300	98 4 0
39	1	30.0	COSCIINODISCUS WAILESII	200	98 4 0
39	1	30.0	SKELETONEMA COSTATUM	200	98 4 0
39	1	30.0	CHAETOCEROS DIADEMA	100	98 4 0
39	1	30.0	AMPHIDINIUM SP.	100	98 4 0
39	1	30.0	COSCIINODISCUS CENTRALIS	100	98 4 0
39	1	30.0	DITYLUM BRIGHTWELLII	100	98 4 0
39	1	30.0	PERIDINIUM SP.	100	98 4 0
39	1	30.0	PROOCENTRUM SP.	100	98 4 0
39	1	30.0	EXUVIELLA SP.	100	98 4 0
39	1	30.0	CERATIUM TRIPOS	100	98 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 82
PERCENT DINOFLAGELLATE/TOTAL 11
PERCENT OTHER/TOTAL 8

LAT 40 59.3
SONIC DEPTH 49

LONG 68 03.7 DATE 78/04/10
ONE PERCENT LIGHT DEPTH 11

TIME 0626

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
40	1	45.0	CHAETOCEROS SP.	340800	102 % 54
40	1	45.0	THALASSIOSIRA GRAVIDA	81000	102 % 15
40	1	45.0	NANNOPLANKTON	23000	102 % 4
40	1	45.0	NITZSCHIA DELICATISSIMA	17000	102 % 3
40	1	45.0	THALASSIONEMA NITZSCHIOIDES	13200	102 % 2
40	1	45.0	GYMNODINIUM SIMPLEX	8600	102 % 2
40	1	45.0	THALASSIOSIRA SP.	6600	102 % 1
40	1	45.0	CHAETOCEROS WIGHAMI	5400	102 % 1
40	1	45.0	LAUDERIA BOREALIS	5000	102 % 1
40	1	45.0	MELOSIRA MONILIFORMIS	4800	102 % 1
40	1	45.0	CHAETOCEROS DIADEMA	3400	102 % 1
40	1	45.0	AMPHIDINIUM SP.	2800	102 % 1
40	1	45.0	LEPTOCYLINDRUS DANICUS	2600	102 % 0
40	1	45.0	MESODINIUM RUBRUM	2400	102 % 0
40	1	45.0	NITZSCHIA CLOSTERIUM	2400	102 % 0
40	1	45.0	CHAETOCEROS GRACILE	2000	102 % 0
40	1	45.0	ASTERIONELLA JAPONICA	1800	102 % 0
40	1	45.0	NITZSCHIA PUNGENS V. ATLANTICA	1200	102 % 0
40	1	45.0	SKELETONEMA COSTATUM	1200	102 % 0
40	1	45.0	PLEUROSIGMA AESTUARII	1000	102 % 0
40	1	45.0	GYMNODINIUM FILUM	800	102 % 0
40	1	45.0	OXYTOXUM GLADIOLUS	600	102 % 0
40	1	45.0	PERIDINIUM MINUSCULUM	600	102 % 0
40	1	45.0	GYMNODINIUM PYGMAEUM	600	102 % 0
40	1	45.0	COSCIINODISCUS SP.	600	102 % 0
40	1	45.0	RHIZOSOLENIA SETIGERA	400	102 % 0
40	1	45.0	RHIZOSOLENIA HEBETATA	400	102 % 0
40	1	45.0	NAVICULA SP.	400	102 % 0
40	1	45.0	TINTINNIDA	400	102 % 0
40	1	45.0	DITYLUM BRIGHTWELLII	400	102 % 0
40	1	45.0	SILICA FLAGELLATE	200	102 % 0
40	1	45.0	PERIDINIUM SP.	200	102 % 0
40	1	45.0	GYMNODINIUM SP.	200	102 % 0
40	1	45.0	PROROCENTRUM SP.	200	102 % 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 92
PERCENT DINOFLAGELLATE/TOTAL 3
PERCENT OTHER/TOTAL 5

LAT 41 07.0
SONIC DEPTH 42

LONG 68 10.0 DATE 78/04/10
ONE PERCENT LIGHT DEPTH

TIME 1012

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
41	1	0.0	THALASSIOSIRA GRAVIDA	44500 110 4	28
41	1	0.0	CHAETOCEROS SP.	34300 110 4	22
41	1	0.0	NITZSCHIA DELICATISSIMA	15400 110 4	10
41	1	0.0	THALASSIOSIRA SP.	12800 110 4	8
41	1	0.0	THALASSIONEMA NITZSCHIOIDES	9400 110 4	6
41	1	0.0	GYMNODINIUM SIMPLEX	9100 110 4	6
41	1	0.0	CHAETOCEROS DEBILE	6800 110 4	4
41	1	0.0	MELOSIRA MONILIFORMIS	3300 110 4	2
41	1	0.0	LAUDERIA BOREALIS	2800 110 4	2
41	1	0.0	PLEUROSIGMA AESTUARII	2100 110 4	1
41	1	0.0	NITZSCHIA PUNGENS V. ATLANTICA	2000 110 4	1
41	1	0.0	NANNOPLANKTON	1610 110 4	1
41	1	0.0	RHIZOSOLENIA HEBETATA	1300 110 4	1
41	1	0.0	AMPHIDINIUM SP.	1200 110 4	1
41	1	0.0	NITZSCHIA CLOSTERIUM	1100 110 4	1
41	1	0.0	NAVICULA SP.	1000 110 4	1
41	1	0.0	GYMNODINIUM FILUM	900 110 4	1
41	1	0.0	MESODINIUM RUBRUM	900 110 4	1
41	1	0.0	COSCIINODISCUS CENTRALIS	800 110 4	1
41	1	0.0	OXYTOXUM GLADIOLUS	700 110 4	0
41	1	0.0	ASTERIONELLA JAPONICA	700 110 4	0
41	1	0.0	GYMNODINIUM SP.	700 110 4	0
41	1	0.0	COSCIINODISCUS SP.	600 110 4	0
41	1	0.0	GYMNODINIUM PYGMAEUM	500 110 4	0
41	1	0.0	TINTINNIDA	500 110 4	0
41	1	0.0	PERIDINIUM FAEROENSE	400 110 4	0
41	1	0.0	PERIDINIUM MINUSCULUM	300 110 4	0
41	1	0.0	PERIDINIUM SP.	300 110 4	0
41	1	0.0	COSCIINODISCUS WAILESII	200 110 4	0
41	1	0.0	COSCIINOSIRA POLYCHORDA	200 110 4	0
41	1	0.0	EXUVIELLA SP.	200 110 4	0
41	1	0.0	DITYLUM BRIGHTWELLII	100 110 4	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 89
PERCENT DINOFLAGELLATE/TOTAL 9
PERCENT OTHER/TOTAL 2

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
41	1	40.0	CHAETOCEROS SP.	52600 111 4	27
41	1	40.0	THALASSIOSIRA GRAVIDA	43300 111 4	22
41	1	40.0	NITZSCHIA DELICATISSIMA	21300 111 4	11
41	1	40.0	THALASSIOSIRA SP.	17900 111 4	9
41	1	40.0	CHAETOCEROS DEBILE	11800 111 4	6
41	1	40.0	THALASSIONEMA NITZSCHIOIDES	8500 111 4	4
41	1	40.0	GYMNODINIUM SIMPLEX	8300 111 4	4
41	1	40.0	NANNOPLANKTON	7900 111 4	4
41	1	40.0	NITZSCHIA PUNGENS V. ATLANTICA	2800 111 4	1
41	1	40.0	MELOSIRA MONILIFORMIS	2400 111 4	1
41	1	40.0	PLEUROSIGMA AESTUARII	2100 111 4	1
41	1	40.0	LAUDERIA BOREALIS	1500 111 4	1
41	1	40.0	ASTERIONELLA JAPONICA	1500 111 4	1
41	1	40.0	RHIZOSOLENIA HEBETATA	1500 111 4	1
41	1	40.0	OXYTOXUM GLADIOLUS	1400 111 4	1
41	1	40.0	NITZSCHIA CLOSTERIUM	1400 111 4	1
41	1	40.0	NAVICULA SP.	1300 111 4	1
41	1	40.0	GYMNODINIUM FILUM	1200 111 4	1
41	1	40.0	COSCIINODISCUS SP.	800 111 4	0
41	1	40.0	COSCIINODISCUS CENTRALIS	700 111 4	0
41	1	40.0	AMPHIDINIUM SP.	700 111 4	0
41	1	40.0	GYMNODINIUM SP.	500 111 4	0
41	1	40.0	GYMNODINIUM PYGMAEUM	400 111 4	0
41	1	40.0	MESODINIUM RUBRUM	300 111 4	0
41	1	40.0	GONIAULAX SP.	200 111 4	0
41	1	40.0	EXUVIELLA SP.	200 111 4	0
41	1	40.0	COSCIINOSIRA POLYCHORDA	200 111 4	0
41	1	40.0	PERIDINIUM MINUSCULUM	100 111 4	0
41	1	40.0	COSCIINODISCUS WAILESII	100 111 4	0

TOTAL CELLS
PERCENT DIATOM/TOTAL 89
PERCENT DINOFLAGELLATE/TOTAL 7
PERCENT OTHER/TOTAL 4

LAT 41 18.5
SONIC DEPTH 53

LONG 68 20.5 DATE 78/04/10
ONE PERCENT LIGHT DEPTH

TIME 1553

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
43	1	0.0	NANNOPLANKTON	66100	115 4 45
43	1	0.0	CHAETOCEROS SP.	15200	115 4 10
43	1	0.0	THALASSIOSIRA GRAVIDA	14100	115 4 10
43	1	0.0	THALASSIOSIRA SP.	8000	115 4 5
43	1	0.0	NITZSCHIA DELICATISSIMA	7800	115 4 5
43	1	0.0	THALASSIONEMA NITZSCHIOIDES	7700	115 4 5
43	1	0.0	GYMNODINIUM SIMPLEX	7500	115 4 5
43	1	0.0	CHAETOCEROS DEBILE	5200	115 4 4
43	1	0.0	NITZSCHIA CLOSTERIUM	2700	115 4 2
43	1	0.0	NITZSCHIA PUNGENS V. ATLANTICA	2600	115 4 2
43	1	0.0	MELOSIRA MONILIFORMIS	2100	115 4 1
43	1	0.0	AMPHIDINIUM SP.	1100	115 4 1
43	1	0.0	MESODINIUM RUBRUM	1100	115 4 1
43	1	0.0	NAVICULA SP.	800	115 4 1
43	1	0.0	RHIZOSOLENIA HEBETATA	800	115 4 1
43	1	0.0	LAUDERIA BOREALIS	800	115 4 1
43	1	0.0	COSCIINOSIRA POLYCHORDA	700	115 4 0
43	1	0.0	GYMNODINIUM FILUM	600	115 4 0
43	1	0.0	GYMNODINIUM SP.	500	115 4 0
43	1	0.0	COSCIINODISCUS CENTRALIS	500	115 4 0
43	1	0.0	CHAETOCEROS GRACILE	500	115 4 0
43	1	0.0	COSCIINODISCUS LINEATUS	300	115 4 0
43	1	0.0	COSCIINODISCUS HAILESII	200	115 4 0
43	1	0.0	DITYLUM BRIGHTWELLII	200	115 4 0
43	1	0.0	OXYTOXUM GLADIOLUS	200	115 4 0
43	1	0.0	TINTINNIDA	200	115 4 0
43	1	0.0	GYMNODINIUM PYGMAEUM	100	115 4 0
43	1	0.0	GONIAULAX SP.	100	115 4 0
43	1	0.0	PLEUROSIGMA AESTUARII	100	115 4 0
43	1	0.0	EXUVIELLA SP.	100	115 4 0
43	1	0.0	PERIDINIUM SP.	100	115 4 0
43	1	0.0	ASTERIONELLA JAPONICA	100	115 4 0
43	1	0.0	COSCIINODISCUS SP.	100	115 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 48
PERCENT DINOFLAGELLATE/TOTAL 7
PERCENT OTHER/TOTAL 45

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
43	1	30.0	CHAETOCEROS SP.	24200	116 4 17
43	1	30.0	GYMNODINIUM SIMPLEX	20500	116 4 14
43	1	30.0	THALASSIOSIRA GRAVIDA	19500	116 4 13
43	1	30.0	THALASSIOSIRA SP.	14400	116 4 10
43	1	30.0	FLAGELLATA	14100	116 4 10
43	1	30.0	NITZSCHIA DELICATISSIMA	11800	116 4 8
43	1	30.0	THALASSIONEMA NITZSCHIOIDES	10200	116 4 7
43	1	30.0	CHAETOCEROS DEBILE	7400	116 4 5
43	1	30.0	NITZSCHIA PUNGENS V. ATLANTICA	5500	116 4 4
43	1	30.0	LAUDERIA BOREALIS	3500	116 4 2
43	1	30.0	NAVICULA SP.	1800	116 4 1
43	1	30.0	AMPHIDINIUM SP.	1500	116 4 1
43	1	30.0	NITZSCHIA CLOSTERIUM	1500	116 4 1
43	1	30.0	MESODINIUM RUBRUM	1100	116 4 1
43	1	30.0	RHIZOSOLENIA HEBETATA	1000	116 4 1
43	1	30.0	COSCIINODISCUS LINEATUS	1000	116 4 1
43	1	30.0	MELOSIRA MONILIFORMIS	1000	116 4 1
43	1	30.0	OXYTOXUM GLADIOLUS	900	116 4 1
43	1	30.0	CHAETOCEROS DIADEMA	600	116 4 0
43	1	30.0	GONIAULAX SP.	600	116 4 0
43	1	30.0	COSCIINOSIRA POLYCHORDA	500	116 4 0
43	1	30.0	GYMNODINIUM SP.	500	116 4 0
43	1	30.0	PERIDINIUM SP.	400	116 4 0
43	1	30.0	GYMNODINIUM FILUM	400	116 4 0
43	1	30.0	RHIZOSOLENIA SETIGERA	400	116 4 0
43	1	30.0	TINTINNIDA	400	116 4 0
43	1	30.0	EXUVIELLA SP.	300	116 4 0
43	1	30.0	CHAETOCEROS GRACILE	200	116 4 0
43	1	30.0	COSCIINODISCUS SP.	200	116 4 0
43	1	30.0	COSCIINODISCUS CENTRALIS	200	116 4 0
43	1	30.0	PLEUROSIGMA AESTUARII	200	116 4 0
43	1	30.0	DITYLUM BRIGHTWELLII	200	116 4 0
43	1	30.0	COSCIINODISCUS CURVATULUS	100	116 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 72
PERCENT DINOFLAGELLATE/TOTAL 17
PERCENT OTHER/TOTAL 11

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
43	1	45.0	NITZSCHIA DELICATISSIMA	18800	117 4
43	1	45.0	THALASSIOSIRA SP.	18200	117 4
43	1	45.0	CHAETOCEROS SP.	16900	117 4
43	1	45.0	COSCINODISCUS LINEATUS	8000	117 4
43	1	45.0	THALASSIOSIRA GRAVIDA	7600	117 4
43	1	45.0	LAUDERIA BOREALIS	7000	117 4
43	1	45.0	THALASSIOSIRA ROTULA	4800	117 4
43	1	45.0	GYMNODINIUM SIMPLEX	4000	117 4
43	1	45.0	NITZSCHIA FUNGUS V. ATLANTICA	3100	117 4
43	1	45.0	CHAETOCEROS DIDYMUS	2600	117 4
43	1	45.0	AMPHIDINIUM SP.	2100	117 4
43	1	45.0	THALASSIONEMA NITZSCHIOIDES	1700	117 4
43	1	45.0	NAVICULA SP.	1400	117 4
43	1	45.0	NITZSCHIA CLOSTERIUM	1100	117 4
43	1	45.0	PLEUROSIGMA AESTUARII	1100	117 4
43	1	45.0	CHAETOCEPOS DEBILE	1100	117 4
43	1	45.0	ASTERIONELLA JAPONICA	700	117 4
43	1	45.0	NANNOPLANKTON	660	117 4
43	1	45.0	PERIDINIUM SP.	500	117 4
43	1	45.0	COSCINOSIRA POLYCHORDA	500	117 4
43	1	45.0	OXYTOXUM GLADIOLUS	500	117 4
43	1	45.0	COSCINODISCUS CENTRALIS	500	117 4
43	1	45.0	RHIZOLENIA HEBETATA	400	117 4
43	1	45.0	RHIZOLENIA SETIGERA	400	117 4
43	1	45.0	MESODINIUM RUBRUM	400	117 4
43	1	45.0	COSCINODISCUS SP.	400	117 4
43	1	45.0	TINTINNIDA	400	117 4
43	1	45.0	CHAETOCEROS DIADEMA	300	117 4
43	1	45.0	PERIDINIUM MINUSCULUM	200	117 4
43	1	45.0	NITZSCHIA SP.	100	117 4
43	1	45.0	GYMNODINIUM PYGMAEUM	100	117 4
43	1	45.0	GYMNODINIUM FILUM	100	117 4
43	1	45.0	RHIZOLENIA DELICATULA	100	117 4
43	1	45.0	SILICA FLAGELLATE	100	117 4
43	1	45.0	GYMNODINIUM SP.	100	117 4

TOTAL CELLS
 PERCENT DIATOM/TOTAL
 PERCENT DINOFLAGELLATE/TOTAL
 PERCENT OTHER/TOTAL

91
 7
 1

LAT 41 33.0
SONIC DEPTH 102

LONG 68 31.1 DATE 78/04/10
ONE PERCENT LIGHT DEPTH

TIME 2140

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
555	0.0	THALASSIOSIRA GRAVIDA	133800	121 4 40
555	0.0	THALASSIOSIRA SP.	63400	121 4 19
555	0.0	CHAETOCEROS SP.	30600	121 4 9
555	0.0	THALASSIOSIRA ROTULA	26200	121 4 8
555	0.0	NANNOPLANKTON	25000	121 4 7
555	0.0	LAUDERIA BOREALIS	21200	121 4 6
555	0.0	NITZSCHIA DELICATISSIMA	9400	121 4 3
555	0.0	RHIZOLENIA HEBETATA	9400	121 4 3
555	0.0	MESODINIUM RUBRUM	3400	121 4 1
555	0.0	GYMNODINIUM SIMPLEX	2400	121 4 1
555	0.0	TINTINNIDA	2400	121 4 1
555	0.0	NITZSCHIA CLOSTERIUM	1800	121 4 1
555	0.0	RHIZOLENIA SP.	1400	121 4 0
555	0.0	OXYTOXUM GLADIOLUS	1000	121 4 0
555	0.0	COSCIINOSIRA POLYCHORDA	400	121 4 0
555	0.0	GYMNODINIUM FILUM	400	121 4 0
555	0.0	ASTERIONELLA JAPONICA	400	121 4 0
555	0.0	CHAETOCEROS DIADEMA	400	121 4 0
555	0.0	RHIZOLENIA DELICATULA	200	121 4 0
555	0.0	THALASSIONEMA NITZSCHIOIDES	200	121 4 0
555	0.0	GYMNODINIUM PYGMAEUM	200	121 4 0
555	0.0	PERIDINIUM SP.	200	121 4 0
555	0.0	RHIZOLENIA SETIGERA	200	121 4 0
555	0.0	AMPHIDINIUM SP.	160	121 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 89
PERCENT DINOFLAGELLATE/TOTAL 1
PERCENT OTHER/TOTAL 9

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
555	30.0	THALASSIOSIRA GRAVIDA	71600	122 4 42
555	30.0	CHAETOCEROS SP.	29000	122 4 17
555	30.0	THALASSIOSIRA ROTULA	22000	122 4 13
555	30.0	LAUDERIA BOREALIS	18800	122 4 11
555	30.0	NANNOPLANKTON	12800	122 4 8
555	30.0	NITZSCHIA DELICATISSIMA	6000	122 4 4
555	30.0	GYMNODINIUM SIMPLEX	4200	122 4 2
555	30.0	AMPHIDINIUM SP.	2200	122 4 1
555	30.0	OXYTOXUM GLADIOLUS	800	122 4 0
555	30.0	PERIDINIUM SP.	800	122 4 0
555	30.0	COSCIINOSIRA POLYCHORDA	400	122 4 0
555	30.0	CHAETOCEROS DIADEMA	400	122 4 0
555	30.0	COSCIINODISCUS LINEATUS	200	122 4 0
555	30.0	THALASSIONEMA NITZSCHIOIDES	200	122 4 0
555	30.0	BIDDULPHIA SP.	200	122 4 0
555	30.0	GYMNODINIUM PYGMAEUM	200	122 4 0
555	30.0	TINTINNIDA	200	122 4 0
555	30.0	GYMNODINIUM SP.	200	122 4 0
555	30.0	RHIZOLENIA HEBETATA	200	122 4 0
555	30.0	MESODINIUM RUBRUM	200	122 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 87
PERCENT DINOFLAGELLATE/TOTAL 5
PERCENT OTHER/TOTAL 8

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
555	90.0	THALASSIOSIRA GRAVIDA	27200	123 4 32
555	90.0	THALASSIOSIRA SP.	25600	123 4 30
555	90.0	CHAETOCEROS SP.	11400	123 4 13
555	90.0	LAUDERIA BOREALIS	8400	123 4 10
555	90.0	NITZSCHIA DELICATISSIMA	4800	123 4 6
555	90.0	RHIZOLENIA HEBETATA	1800	123 4 2
555	90.0	OXYTOXUM GLADIOLUS	1400	123 4 2
555	90.0	COSCIINOSIRA POLYCHORDA	1000	123 4 1
555	90.0	NANNOPLANKTON	860	123 4 1
555	90.0	CHAETOCEROS DIADEMA	800	123 4 1
555	90.0	GYMNODINIUM SIMPLEX	600	123 4 1
555	90.0	THALASSIONEMA NITZSCHIOIDES	600	123 4 1
555	90.0	NITZSCHIA CLOSTERIUM	600	123 4 1
555	90.0	AMPHIDINIUM SP.	400	123 4 0
555	90.0	SILICA FLAGELLATE	200	123 4 0

TOTAL CELLS
PERCENT DIATOM/TOTAL 96
PERCENT DINOFLAGELLATE/TOTAL 3
PERCENT OTHER/TOTAL 1

LAT 41 45.9
SONIC DEPTH 172

LONG 68 42.0 DATE 78/04/11
ONE PERCENT LIGHT DEPTH

TIME 0256

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
47	1	0.0 THALASSIOSIRA GRAVIDA	82500 127 4	30
47	1	0.0 LAUDERIA BOREALIS	44000 127 4	16
47	1	0.0 THALASSIOSIRA SP.	43700 127 4	16
47	1	0.0 GYMNODINIUM SIMPLEX	34000 127 4	12
47	1	0.0 COCCOLITHOPHORES	14600 127 4	5
47	1	0.0 AMPHIDINIUM SP.	14600 127 4	5
47	1	0.0 MELOSIRA SP.	9700 127 4	3
47	1	0.0 RHIZOSOLENIA HEBETATA	9000 127 4	3
47	1	0.0 CHAETOCEROS SP.	9000 127 4	3
47	1	0.0 OXYTOXUM GLADIOLUS	4800 127 4	2
47	1	0.0 NITZSCHIA CLOSTERIUM	4500 127 4	2
47	1	0.0 GONIAULAX SP.	4500 127 4	2
47	1	0.0 COSCINODISCUS SP.	4500 127 4	2

TOTAL CELLS
PERCENT DIATOM/TOTAL 74
PERCENT DINOFLAGELLATE/TOTAL 21
PERCENT OTHER/TOTAL 5

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
47	1	30.0 THALASSIOSIRA SP.	78000 128 4	24
47	1	30.0 THALASSIOSIRA GRAVIDA	75000 128 4	23
47	1	30.0 LAUDERIA BOREALIS	71000 128 4	22
47	1	30.0 SKELETONEMA COSTATUM	20000 128 4	6
47	1	30.0 RHIZOSOLENIA HEBETATA	19000 128 4	6
47	1	30.0 GYMNODINIUM SIMPLEX	19000 128 4	6
47	1	30.0 MELOSIRA SP.	13000 128 4	4
47	1	30.0 CHAETOCEROS DIDYMUS	12000 128 4	4
47	1	30.0 NITZSCHIA DELICATISSIMA	12000 128 4	4
47	1	30.0 AMPHIDINIUM SP.	6500 128 4	2

TOTAL CELLS
PERCENT DIATOM/TOTAL 92
PERCENT DINOFLAGELLATE/TOTAL 8
PERCENT OTHER/TOTAL 0

LAT 40 49.3
SONIC DEPTH 71

LONG 67 53.1 DATE 78/04/12
ONE PERCENT LIGHT DEPTH 11

TIME 0713

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
55	1	0.0	GYMNODINIUM SIMPLEX	132200 148 4	38
55	1	0.0	NANNOPLOANKTON	119800 148 4	34
55	1	0.0	CHAETOCEROS SP.	25800 148 4	7
55	1	0.0	LAUDERIA BOREALIS	11400 148 4	3
55	1	0.0	THALASSIOSIRA GRAVIDA	10600 148 4	3
55	1	0.0	THALASSIOSIRA SP.	8800 148 4	3
55	1	0.0	MESODINIUM RUBRUM	6600 148 4	2
55	1	0.0	NITZSCHIA DELICATISSIMA	6600 148 4	2
55	1	0.0	CHAETOCEROS DEBILE	5200 148 4	1
55	1	0.0	MELOSIRA MONILIFORMIS	4400 148 4	1
55	1	0.0	NITZSCHIA CLOSTERIUM	2600 148 4	1
55	1	0.0	RHIZOSOLENIA HEBETATA	2600 148 4	1
55	1	0.0	GYMNODINIUM FILUM	2400 148 4	1
55	1	0.0	GYMNODINIUM SP.	1800 148 4	1
55	1	0.0	OXYTOXUM GLADIOLUS	1600 148 4	0
55	1	0.0	TINTINNIDA	1000 148 4	0
55	1	0.0	COSCIINODISCUS LINEATUS	1000 148 4	0
55	1	0.0	AMPHIDINIUM SP.	1000 148 4	0
55	1	0.0	THALASSIONEMA NITZSCHIOIDES	800 148 4	0
55	1	0.0	RHIZOSOLENIA SP.	600 148 4	0
55	1	0.0	GONIAULAX SP.	600 148 4	0
55	1	0.0	NITZSCHIA PUNGENS V. ATLANTICA	400 148 4	0
55	1	0.0	ASTEROMPHALUS HEPTACTIS	400 148 4	0
55	1	0.0	CHAETOCEROS GRACILE	400 148 4	0
55	1	0.0	EXUVIELLA SP.	200 148 4	0
55	1	0.0	NAVICULA SP.	200 148 4	0
55	1	0.0	COSCIINOSIRA POLYCHORDA	200 148 4	0
55	1	0.0	COSCIINODISCUS SP.	200 148 4	0
55	1	0.0	COSCIINODISCUS CURVATULUS	200 148 4	0

TOTAL CELLS	
PERCENT DIATOM/TOTAL	24
PERCENT DINOFLAGELLATE/TOTAL	40
PERCENT OTHER/TOTAL	36

R/V ARGUS CRUISE, PART II
APRIL-MAY 1978

LAT 40 20.0
SONIC DEPTH 55

LONG 072 17.0 DATE 78/04/30
ONE PERCENT LIGHT DEPTH 55

TIME 1000

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
4	1	0.0	CYMBELLA SP.	11000	159 4 51
4	1	0.0	FLAGELLATA	8800	159 4 40
4	1	0.0	GYMNODINIUM OCEANICUM	440	159 4 2
4	1	0.0	NAVICULA SP.	220	159 4 1
4	1	0.0	GYMNODINIUM PUNCTATUM	220	159 4 1
4	1	0.0	GYMNODINIUM PYGMAEUM	220	159 4 1
4	1	0.0	GYMNODINIUM NANNUM	220	159 4 1
4	1	0.0	PERIDINIUM PELLUCIDUM	220	159 4 1
4	1	0.0	PERIDINIUM DIVERGENS	220	159 4 1
4	1	0.0	COCHLODINIUM SP.	220	159 4 1
					TOTAL CELLS
					PERCENT DIATOM/TOTAL
					PERCENT DINOFLAGELLATE/TOTAL
					PERCENT OTHER/TOTAL

52
8
40

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
4	1	6.0	FLAGELLATA	45600	160 4 93
4	1	6.0	GYMNODINIUM PUNCTATUM	800	160 4 2
4	1	6.0	COCHLODINIUM SP.	800	160 4 1
4	1	6.0	COCCOLITHUS PELAGICUS	400	160 4 1
4	1	6.0	GYRODINIUM SPIRALE	400	160 4 1
4	1	6.0	GYMNODINIUM NANNUM	400	160 4 1
4	1	6.0	AMPHIDINIUM EXTENSUM	200	160 4 0
4	1	6.0	PERIDINIUM PELLUCIDUM	100	160 4 0
4	1	6.0	GYMNODINIUM OCEANICUM	100	160 4 0
4	1	6.0	CERATIUM TRIPOS	100	160 4 0
4	1	6.0	EXUVIELLA APORA	100	160 4 0
					TOTAL CELLS
					PERCENT DIATOM/TOTAL
					PERCENT DINOFLAGELLATE/TOTAL
					PERCENT OTHER/TOTAL

0
6
94

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
4	1	14.0	FLAGELLATA	27600	161 4 93
4	1	14.0	PERIDINIUM PELLUCIDUM	500	161 4 2
4	1	14.0	COCCOLITHUS PELAGICUS	300	161 4 1
4	1	14.0	DINOPHYSIS OVUM	200	161 4 1
4	1	14.0	CERATIUM LONGIPES	200	161 4 1
4	1	14.0	GYMNODINIUM PUNCTATUM	100	161 4 0
4	1	14.0	DINOPHYSIS NORVEGICA	100	161 4 0
4	1	14.0	GYMNODINIUM PYGMAEUM	100	161 4 0
4	1	14.0	GYMNODINIUM NANNUM	100	161 4 0
4	1	14.0	PERIDINIUM BREVIPE	100	161 4 0
4	1	14.0	GYMNODINIUM OCEANICUM	100	161 4 0
4	1	14.0	PERIDINIUM DIVERGENS	100	161 4 0
4	1	14.0	COCHLODINIUM SP.	100	161 4 0
4	1	14.0	CHRYROCOCCUS SP.	100	161 4 0
					TOTAL CELLS
					PERCENT DIATOM/TOTAL
					PERCENT DINOFLAGELLATE/TOTAL
					PERCENT OTHER/TOTAL

0
6
94

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
4	1	22.0	FLAGELLATA	111200	162 4 98
4	1	22.0	AMPHIDINIUM EXTENSUM	800	162 4 1
4	1	22.0	DINOPHYSIS NORVEGICA	600	162 4 1
4	1	22.0	GYMNODINIUM PUNCTATUM	200	162 4 0
4	1	22.0	PROTOCERATIUM RETICULATUM	200	162 4 0
4	1	22.0	GYRODINIUM SPIRALE	200	162 4 0
4	1	22.0	GONIAULAX TRIACANTHA	200	162 4 0
4	1	22.0	GYMNODINIUM PYGMAEUM	100	162 4 0
					TOTAL CELLS
					PERCENT DIATOM/TOTAL
					PERCENT DINOFLAGELLATE/TOTAL
					PERCENT OTHER/TOTAL

0
2
98

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
4	1	55.0	MELOSIRA SULCATA	1500	163 4 37
4	1	55.0	FLAGELLATA	1100	163 4 27
4	1	55.0	CHAETOCEROS DEBILE	500	163 4 12
4	1	55.0	COSCIODISCUS WAILESII	200	163 4 5
4	1	55.0	NAVICULA SP.	200	163 4 5
4	1	55.0	RHIZOSOLENIA HEBETATA	100	163 4 2
4	1	55.0	COSCIODISCUS EXCENTRICUS	100	163 4 2
4	1	55.0	THALASSIOSIRA DECIPIENS	100	163 4 2
4	1	55.0	GYMNODINIUM PUNCTATUM	100	163 4 2
4	1	55.0	GYMNODINIUM PYGMAEUM	100	163 4 2
4	1	55.0	COCCOLITHUS PELAGICUS	100	163 4 2
					TOTAL CELLS
					PERCENT DIATOM/TOTAL
					PERCENT DINOFLAGELLATE/TOTAL
					PERCENT OTHER/TOTAL

66
5
29

LAT 40 12.0
SONIC DEPTH 114

LONG 070 24.0 DATE 78/05/01
ONE PERCENT LIGHT DEPTH 35

TIME 0930

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
10	1	0.0	40670	164 4
10	1	0.0	1650	164 4
10	1	0.0	1320	164 4
10	1	0.0	770	164 4
10	1	0.0	660	164 4
10	1	0.0	660	164 4
10	1	0.0	660	164 4
10	1	0.0	660	164 4
10	1	0.0	550	164 4
10	1	0.0	440	164 4
10	1	0.0	330	164 4
10	1	0.0	330	164 4
10	1	0.0	330	164 4
10	1	0.0	110	164 4
10	1	0.0	110	164 4
TOTAL CELLS				9
PERCENT DIATOM/TOTAL				3
PERCENT DINOFLAGELLATE/TOTAL				3
PERCENT OTHER/TOTAL				88

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
10	1	4.0	14640	165 4
10	1	4.0	640	165 4
10	1	4.0	400	165 4
10	1	4.0	320	165 4
10	1	4.0	320	165 4
10	1	4.0	160	165 4
10	1	4.0	160	165 4
10	1	4.0	80	165 4
10	1	4.0	80	165 4
10	1	4.0	80	165 4
TOTAL CELLS				3
PERCENT DIATOM/TOTAL				3
PERCENT DINOFLAGELLATE/TOTAL				3
PERCENT OTHER/TOTAL				94

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
10	1	10.0	19740	166 4
10	1	10.0	600	166 4
10	1	10.0	540	166 4
10	1	10.0	480	166 4
10	1	10.0	360	166 4
10	1	10.0	240	166 4
10	1	10.0	180	166 4
10	1	10.0	120	166 4
10	1	10.0	80	166 4
10	1	10.0	60	166 4
10	1	10.0	60	166 4
TOTAL CELLS				5
PERCENT DIATOM/TOTAL				5
PERCENT DINOFLAGELLATE/TOTAL				5
PERCENT OTHER/TOTAL				91

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
10	1	14.0	10680	167 4
10	1	14.0	640	167 4
10	1	14.0	320	167 4
10	1	14.0	320	167 4
10	1	14.0	160	167 4
10	1	14.0	80	167 4
10	1	14.0	80	167 4
TOTAL CELLS				7
PERCENT DIATOM/TOTAL				3
PERCENT DINOFLAGELLATE/TOTAL				3
PERCENT OTHER/TOTAL				90

STA	CAST DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
10	1	35.0	3600	168 4
10	1	35.0	600	168 4
10	1	35.0	350	168 4
10	1	35.0	300	168 4
10	1	35.0	300	168 4
10	1	35.0	200	168 4
10	1	35.0	150	168 4
10	1	35.0	150	168 4
10	1	35.0	50	168 4
10	1	35.0	50	168 4
10	1	35.0	50	168 4
TOTAL CELLS				7
PERCENT DIATOM/TOTAL				15
PERCENT DINOFLAGELLATE/TOTAL				15
PERCENT OTHER/TOTAL				77

LAT 46 28.0
SONIC DEPTH 127

LONG 068 05.0 DATE 78/05/02
ONE PERCENT LIGHT DEPTH 42

TIME 0945

STA	CASE	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
14	1	0.0	FLAGELLATA	2200	169 %
14	1	0.0	COCCINODISCUS SP.	50	169 %
14	1	0.0	COCCOLITHUS HUXLEYI	50	169 %
14	1	0.0	CHRYROCOCCUS SP.	50	169 %
					TOTAL CELLS
					PERCENT DIATOM/TOTAL
					PERCENT DINOFLAGELLATE/TOTAL
					PERCENT OTHER/TOTAL

STA	CASE	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
14	1	4.0	FLAGELLATA	4240	170 %
14	1	4.0	GYMNODINIUM NANNUM	120	170 %
14	1	4.0	COCCOLITHUS PELAGICUS	120	170 %
					TOTAL CELLS
					PERCENT DIATOM/TOTAL
					PERCENT DINOFLAGELLATE/TOTAL
					PERCENT OTHER/TOTAL

STA	CASE	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
14	1	11.0	FLAGELLATA	16000	171 %
14	1	11.0	COCCOLITHUS PELAGICUS	1280	171 %
14	1	11.0	THALASSIONEMA NITZSCHIOIDES	160	171 %
14	1	11.0	GYMNODINIUM KOVALEWSKII	80	171 %
14	1	11.0	GYMNODINIUM NANNUM	80	171 %
14	1	11.0	OLITHODISCUS LUTEUS	80	171 %
					TOTAL CELLS
					PERCENT DIATOM/TOTAL
					PERCENT DINOFLAGELLATE/TOTAL
					PERCENT OTHER/TOTAL

STA	CASE	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
14	1	17.0	FLAGELLATA	24300	172 %
14	1	17.0	GYMNODINIUM NANNUM	400	172 %
14	1	17.0	COCCOLITHUS PELAGICUS	400	172 %
14	1	17.0	GYMNODINIUM PUNCTATUM	100	172 %
14	1	17.0	SYRACOSPHAERA SP.	100	172 %
					TOTAL CELLS
					PERCENT DIATOM/TOTAL
					PERCENT DINOFLAGELLATE/TOTAL
					PERCENT OTHER/TOTAL

STA	CASE	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
14	1	42.0	FLAGELLATA	18180	173 %
14	1	42.0	GYMNODINIUM NANNUM	2880	173 %
14	1	42.0	GYMNODINIUM PUNCTATUM	2600	173 %
14	1	42.0	GYMNODINIUM KOVALEWSKII	180	173 %
14	1	42.0	NITZSCHIA DELICATISSIMA	90	173 %
14	1	42.0	NAVICULA SP.	90	173 %
14	1	42.0	NITZSCHIA LONGISSIMA	90	173 %
14	1	42.0	GYMNODINIUM SIMPLEX	90	173 %
14	1	42.0	EXUVIELLA PUSILLA	90	173 %
14	1	42.0	COCCOLITHUS HUXLEYI	90	173 %
					TOTAL CELLS
					PERCENT DIATOM/TOTAL
					PERCENT DINOFLAGELLATE/TOTAL
					PERCENT OTHER/TOTAL

LAT 41 33.0
SONIC DEPTH 45

LONG 068 12.0 DATE 78/05/03
ONE PERCENT LIGHT DEPTH 32

TIME 0925

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
22	1	0.0	FLAGELLATA	7300	174 4 39
22	1	0.0	LEPTOCYLINDRUS MINIMUS	2200	174 4 11
22	1	0.0	RHIZOSOLENIA FRAGILISSIMA	1760	174 4 9
22	1	0.0	COSCIINOSIRA POLYCHORDA	1100	174 4 6
22	1	0.0	CHAETOCEROS SIMPLEX	880	174 4 5
22	1	0.0	RHIZOSOLENIA HEBETATA	660	174 4 3
22	1	0.0	PERIDINIUM PELLUCIDUM	660	174 4 3
22	1	0.0	GYMNODINIUM AGILE	660	174 4 3
22	1	0.0	PERIDINIUM MINUSCULUM	660	174 4 3
22	1	0.0	GYRODINIUM SP.	660	174 4 3
22	1	0.0	GYMNODINIUM OCEANICUM	440	174 4 2
22	1	0.0	NITZSCHIA LONGISSIMA	220	174 4 1
22	1	0.0	NAVICULA SP.	220	174 4 1
22	1	0.0	CYMBELLA SP.	220	174 4 1
22	1	0.0	RHIZOSOLENIA SETIGERA	220	174 4 1
22	1	0.0	GYRODINIUM SPIRALE	220	174 4 1
22	1	0.0	GYRODINIUM WULFFII	220	174 4 1
22	1	0.0	GYRODINIUM FISSUM	220	174 4 1
22	1	0.0	COCCOLITHUS PELAGICUS	220	174 4 1
22	1	0.0	COCCOLITHUS HUXLEYI	220	174 4 1
22	1	0.0	CHRYROCOCCUS SP.	220	174 4 1
					TOTAL CELLS
					PERCENT DIATOM/TOTAL
					PERCENT DINOFLAGELLATE/TOTAL
					PERCENT OTHER/TOTAL
					39
					19
					42

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
22	1	4.0	RHIZOSOLENIA FRAGILISSIMA	4750	175 4 22
22	1	4.0	CHAETOCEROS SIMPLEX	3750	175 4 17
22	1	4.0	FLAGELLATA	3750	175 4 17
22	1	4.0	LEPTOCYLINDRUS MINIMUS	2500	175 4 12
22	1	4.0	MELOSIRA SULCATA	1250	175 4 6
22	1	4.0	GYRODINIUM WULFFII	1250	175 4 6
22	1	4.0	RHIZOSOLENIA HEBETATA	1000	175 4 5
22	1	4.0	GYMNODINIUM OCEANICUM	750	175 4 3
22	1	4.0	GYRODINIUM PINGUE	500	175 4 2
22	1	4.0	COCCOLITHUS PELAGICUS	500	175 4 2
22	1	4.0	PERIDINIUM MINUSCULUM	500	175 4 2
22	1	4.0	COSCIINODISCUS CENTRALIS	250	175 4 1
22	1	4.0	GYMNODINIUM AGILE	250	175 4 1
22	1	4.0	DINOPHYSIS NORVEGICA	250	175 4 1
22	1	4.0	COCCOLITHUS HUXLEYI	250	175 4 1
					TOTAL CELLS
					PERCENT DIATOM/TOTAL
					PERCENT DINOFLAGELLATE/TOTAL
					PERCENT OTHER/TOTAL
					63
					16
					21

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
22	1	8.0	LEPTOCYLINDRUS MINIMUS	3120	176 4 20
22	1	8.0	DETONULA CONFERVACEA	2760	176 4 18
22	1	8.0	RHIZOSOLENIA FRAGILISSIMA	2300	176 4 15
22	1	8.0	FLAGELLATA	1920	176 4 12
22	1	8.0	COCCOLITHUS PELAGICUS	1100	176 4 7
22	1	8.0	PERIDINIUM PELLUCIDUM	480	176 4 3
22	1	8.0	GYMNODINIUM AGILE	480	176 4 3
22	1	8.0	GYMNODINIUM OCEANICUM	480	176 4 3
22	1	8.0	CHAETOCEROS SIMPLEX	480	176 4 3
22	1	8.0	GYRODINIUM PINGUE	360	176 4 2
22	1	8.0	NAVICULA SP.	240	176 4 1
22	1	8.0	PERIDINIUM MINUSCULUM	240	176 4 1
22	1	8.0	NITZSCHIA LONGISSIMA	240	176 4 1
22	1	8.0	COSCIINODISCUS CENTRALIS	240	176 4 1
22	1	8.0	COSCIINODISCUS SP.	120	176 4 1
22	1	8.0	GYRODINIUM FISSUM	120	176 4 1
22	1	8.0	PERIDINIUM SP.	120	176 4 1
22	1	8.0	TORODINIUM SP.	120	176 4 1
22	1	8.0	PERIDINIUM MONOCANTHUS	120	176 4 1
22	1	8.0	GYMNODINIUM PUNCTATUM	120	176 4 1
22	1	8.0	COCCOLITHUS HUXLEYI	120	176 4 1
22	1	8.0	RHABDOSPHAERA STYLIFER	120	176 4 1
22	1	8.0	MESODINIUM RUBRUM	120	176 4 1
					TOTAL CELLS
					PERCENT DIATOM/TOTAL
					PERCENT DINOFLAGELLATE/TOTAL
					PERCENT OTHER/TOTAL
					67
					15
					18

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
22	1	13.0	LEPTOCYLINDRUS MINIMUS	4840	177 % 26
22	1	13.0	RHIZOSOLENIA FRAGILISSIMA	3960	177 % 21
22	1	13.0	FLAGELLATA	2200	177 % 12
22	1	13.0	CHAETOCEROS CURVISETUS	1540	177 % 8
22	1	13.0	LEPTOCYLINDRUS DANICUS	1100	177 % 6
22	1	13.0	GYMNODINIUM AGILE	660	177 % 4
22	1	13.0	COCCOLITHUS PELAGICUS	660	177 % 4
22	1	13.0	GYMNODINIUM NANNUM	440	177 % 2
22	1	13.0	PERIDINIUM BREVIPE	440	177 % 2
22	1	13.0	PERIDINIUM MINUSCULUM	440	177 % 2
22	1	13.0	GYMNODINIUM OCEANICUM	440	177 % 2
22	1	13.0	RHIZOSOLENIA HEBETATA	440	177 % 2
22	1	13.0	COSCIINOSIRA POLYCHORDA	220	177 % 1
22	1	13.0	GYRODINIUM FISSUM	220	177 % 1
22	1	13.0	PERIDINIUM MONOCANTHUS	220	177 % 1
22	1	13.0	GYMNODINIUM SP.	220	177 % 1
22	1	13.0	DINOPHYSIS OVUM	220	177 % 1
22	1	13.0	AMPHIDINIUM SPHENOIDES	220	177 % 1
22	1	13.0	COCCOLITHUS HUXLEYI	220	177 % 1

TOTAL CELLS
PERCENT DIATOM/TOTAL 64
PERCENT DINOFLAGELLATE/TOTAL 19
PERCENT OTHER/TOTAL 17

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
22	1	32.0	RHIZOSOLENIA FRAGILISSIMA	1050	178 % 21
22	1	32.0	CHAETOCEROS ATLANTICUS	900	178 % 18
22	1	32.0	FLAGELLATA	450	178 % 9
22	1	32.0	RHIZOSOLENIA HEBETATA	300	178 % 6
22	1	32.0	COCCOLITHUS HUXLEYI	300	178 % 6
22	1	32.0	PERIDINIUM DIVERGENS	300	178 % 6
22	1	32.0	PERIDINIUM PELLUCIDUM	300	178 % 6
22	1	32.0	COCCOLITHUS PELAGICUS	300	178 % 6
22	1	32.0	COSCIINODISCUS CENTRALIS	150	178 % 3
22	1	32.0	COSCIINODISCUS SP.	150	178 % 3
22	1	32.0	GYMNODINIUM OCEANICUM	150	178 % 3
22	1	32.0	DINOPHYSIS NORVEGICA	150	178 % 3
22	1	32.0	PERIDINIUM MONOCANTHUS	150	178 % 3
22	1	32.0	GYMNODINIUM PUNCTATUM	150	178 % 3
22	1	32.0	PERIDINIUM VENTRALIS	150	178 % 3
22	1	32.0	RHABDOSPHAERA STYLIFER	150	178 % 3

TOTAL CELLS
PERCENT DIATOM/TOTAL 50
PERCENT DINOFLAGELLATE/TOTAL 26
PERCENT OTHER/TOTAL 24

LAT 41 41.0
SONIC DEPTH 195

LONG 069 15.0 DATE 78/05/04
ONE PERCENT LIGHT DEPTH 36

TIME 0910

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
28	1	0.0	FLAGELLATA	18700	179 4 89
28	1	0.0	TROPIDONEIS ANTARCTICA VAR POLYPLASTA	340	179 4 2
28	1	0.0	RHIZOSOLENIA HEBETATA	340	179 4 2
28	1	0.0	NITZSCHIA SERTIATA	340	179 4 2
28	1	0.0	PROTOCERATIUM RETICULATUM	340	179 4 2
28	1	0.0	PERIDINIUM PELLUCIDUM	170	179 4 1
28	1	0.0	GYMNODINIUM NANNUM	170	179 4 1
28	1	0.0	COCCOLITHUS PELAGICUS	170	179 4 1
					TOTAL CELLS
					PERCENT DIATOM/TOTAL 5
					PERCENT DINOFLAGELLATE/TOTAL 5
					PERCENT OTHER/TOTAL 90

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
28	1	4.0	FLAGELLATA	21580	180 4 84
28	1	4.0	MELOSIRA SULCATA	1600	180 4 6
28	1	4.0	RHIZOSOLENIA HEBETATA	480	180 4 2
28	1	4.0	NITZSCHIA SERTIATA	480	180 4 2
28	1	4.0	CHAETOCEROS CONVOLUTUM	320	180 4 1
28	1	4.0	NITZSCHIA LONGISSIMA	160	180 4 1
28	1	4.0	CYMBELLA SP.	160	180 4 1
28	1	4.0	AMPHIDINIUM SPHENOIDES	160	180 4 1
28	1	4.0	GYMNODINIUM OCEANICUM	160	180 4 1
28	1	4.0	DINOPHYSIS OVUM	160	180 4 1
28	1	4.0	PERIDINIUM SP.	160	180 4 1
28	1	4.0	COCCOLITHUS PELAGICUS	160	180 4 1
28	1	4.0	COCCOLITHUS HUXLEYI	160	180 4 1
					TOTAL CELLS
					PERCENT DIATOM/TOTAL 12
					PERCENT DINOFLAGELLATE/TOTAL 2
					PERCENT OTHER/TOTAL 85

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
28	1	10.0	FLAGELLATA	11320	181 4 57
28	1	10.0	DETONULA CONFERVACEA	3520	181 4 18
28	1	10.0	COCCOLITHUS PELAGICUS	2600	181 4 13
28	1	10.0	RHIZOSOLENIA HEBETATA	640	181 4 3
28	1	10.0	NITZSCHIA SERTIATA	640	181 4 3
28	1	10.0	PERIDINIUM TROCHOIDEUM	320	181 4 2
28	1	10.0	NAVICULA SP.	160	181 4 1
28	1	10.0	PLEUROSIGMA SP.	160	181 4 1
28	1	10.0	PROTOCERATIUM RETICULATUM	160	181 4 1
28	1	10.0	PERIDINIUM DIVERGENS	160	181 4 1
28	1	10.0	CHRYROCOCCUS SP.	160	181 4 1
					TOTAL CELLS
					PERCENT DIATOM/TOTAL 26
					PERCENT DINOFLAGELLATE/TOTAL 3
					PERCENT OTHER/TOTAL 71

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
28	1	15.0	FLAGELLATA	13650	182 4 76
28	1	15.0	COCCOLITHUS PELAGICUS	900	182 4 5
28	1	15.0	CHAETOCEROS CONVOLUTUM	750	182 4 4
28	1	15.0	TROPIDONEIS ANTARCTICA VAR POLYPLASTA	450	182 4 3
28	1	15.0	MESODINIUM RUBRUM	450	182 4 3
28	1	15.0	GYMNODINIUM PUNCTATUM	300	182 4 2
28	1	15.0	RHIZOSOLENIA HEBETATA	150	182 4 1
28	1	15.0	NITZSCHIA SERTIATA	150	182 4 1
28	1	15.0	NITZSCHIA LONGISSIMA	150	182 4 1
28	1	15.0	NAVICULA SP.	150	182 4 1
28	1	15.0	GYMNODINIUM AGILE	150	182 4 1
28	1	15.0	CERATIUM LONGIPES	150	182 4 1
28	1	15.0	CERATIUM TRIPOS	150	182 4 1
28	1	15.0	DINOPHYSIS NORVEGICA	150	182 4 1
28	1	15.0	CHRYROCOCCUS SP.	150	182 4 1
					TOTAL CELLS
					PERCENT DIATOM/TOTAL 10
					PERCENT DINOFLAGELLATE/TOTAL 5
					PERCENT OTHER/TOTAL 85

STA	CAST	DEPTH(M)	SPECIES	(NO./L)	PERCENTAGES
28	1	36.0	FLAGELLATA	2200	183 4 41
28	1	36.0	RHIZOSOLENIA HEBETATA	1200	183 4 23
28	1	36.0	TROPIDONEIS ANTARCTICA VAR POLYPLASTA	600	183 4 11
28	1	36.0	GYMNODINIUM PUNCTATUM	240	183 4 5
28	1	36.0	COCCOLITHUS PELAGICUS	240	183 4 5
28	1	36.0	NITZSCHIA SERTIATA	120	183 4 2
28	1	36.0	NITZSCHIA LONGISSIMA	120	183 4 2
28	1	36.0	THALASSIOSIRA DECIPIENS	120	183 4 2
28	1	36.0	GYMNODINIUM NANNUM	120	183 4 2
28	1	36.0	PROTOCERATIUM RETICULATUM	120	183 4 2
28	1	36.0	PERIDINIUM SP.	120	183 4 2
28	1	36.0	GYRODINIUM FUSIFORME	120	183 4 2
					TOTAL CELLS
					PERCENT DIATOM/TOTAL 41
					PERCENT DINOFLAGELLATE/TOTAL 14
					PERCENT OTHER/TOTAL 46