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INORGANIC NUTRIENT AND CHLOROPHYLL CONCENTRATIONS ON
GEORGES BANK IN JULY AND AUGUST 1985

by

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Abstract

Irwin, B., C. Caverhill, M. Hodgson, W.G. Harrison, T. Platt, R. Palmer and M. Lewis.
1988. Inorganic nutrient and chlorophyll concentrations on Georges Bank in July
and August 1985. Can. Data Rep. Fish. Aquat. Sci. No. 689: iv + 70 p.

During the period July 23 to August 12, 1985, inorganic nutrients and chlorophyll
were measured on Georges Bank. In this report we make available the raw data.

Résumé

Irwin, B., C. Caverhill, M. Hodgson, W.G. Harrison, T. Platt, R. Palmer and M. Lewis.
1988. Inorganic nutrient and chlorophyll concentrations on Georges Bank in July
and August 1985. Can. Data Rep. Fish. Aquat. Sci. No. 689: iv + 70 p.

Pendant la période du 23 juillet au 12 août 1985, nous avons mesuré les sels
nutritifs et la chlorophylle du Georges Bank. Nous présentons dans ce rapport les données
brutes.

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Introduction

This is the second part of a two part data series which gives the results of a cruise on the northern edge of Georges Bank during July and August 1985. The cruise was designed to collect physical, chemical and biological data to verify the hypothesis of Loder and Platt (1986) with respect to the physical controls of phytoplankton production at tidal fronts.

In the first data report (Irwin et al. 1987) data was presented from stations where biological rate measurements were made. In this report we present inorganic nutrient and chlorophyll data collected at the remaining stations.

This was a joint cruise on CSS Hudson coordinated by the Biological Oceanography Division of the Biological Sciences Branch of the Department of Fisheries and Oceans.

Sampling

All water samples were collected with 1.2 L Niskin bottles mounted on a rosette sampler. Sampling depths were chosen from physical or biological features. In areas of extreme mixing, standard oceanographic depths were used.

Methods

Chlorophyll

Replicate 100 ml samples were filtered onto 2.5 cm Whatman GF/F filters. Chlorophyll was extracted for 24 hours with 85% acetone at 0°C in the dark. The fluorometric method of Yentsch and Menzel (1963) as modified by Holm-Hansen et al. (1965) was used to estimate chlorophyll concentrations.

Nutrients

Samples for nitrate, silicate and inorganic phosphate were analysed immediately after collection using a Technicon II autoanalyser. Nitrate was estimated using industrial method 158-71W, silicate with method 186-72W and phosphate with method 155-71W.

Ammonia concentrations were estimated using the phenol-hypochlorite method of Solorzano (1969).

Acknowledgements

We wish to thank Osvaldo Ulloa for his assistance in collating the nutrient data.

References

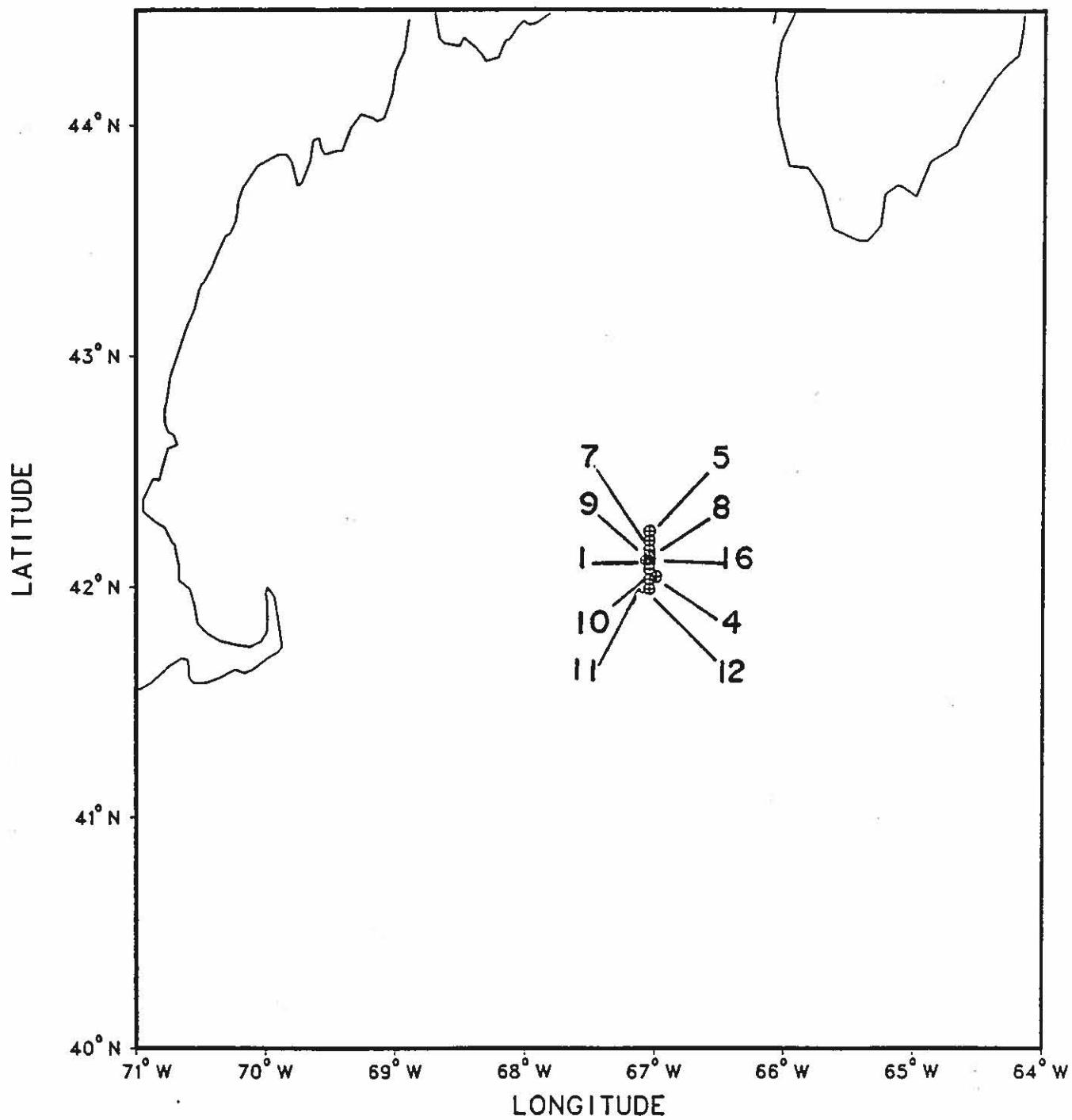
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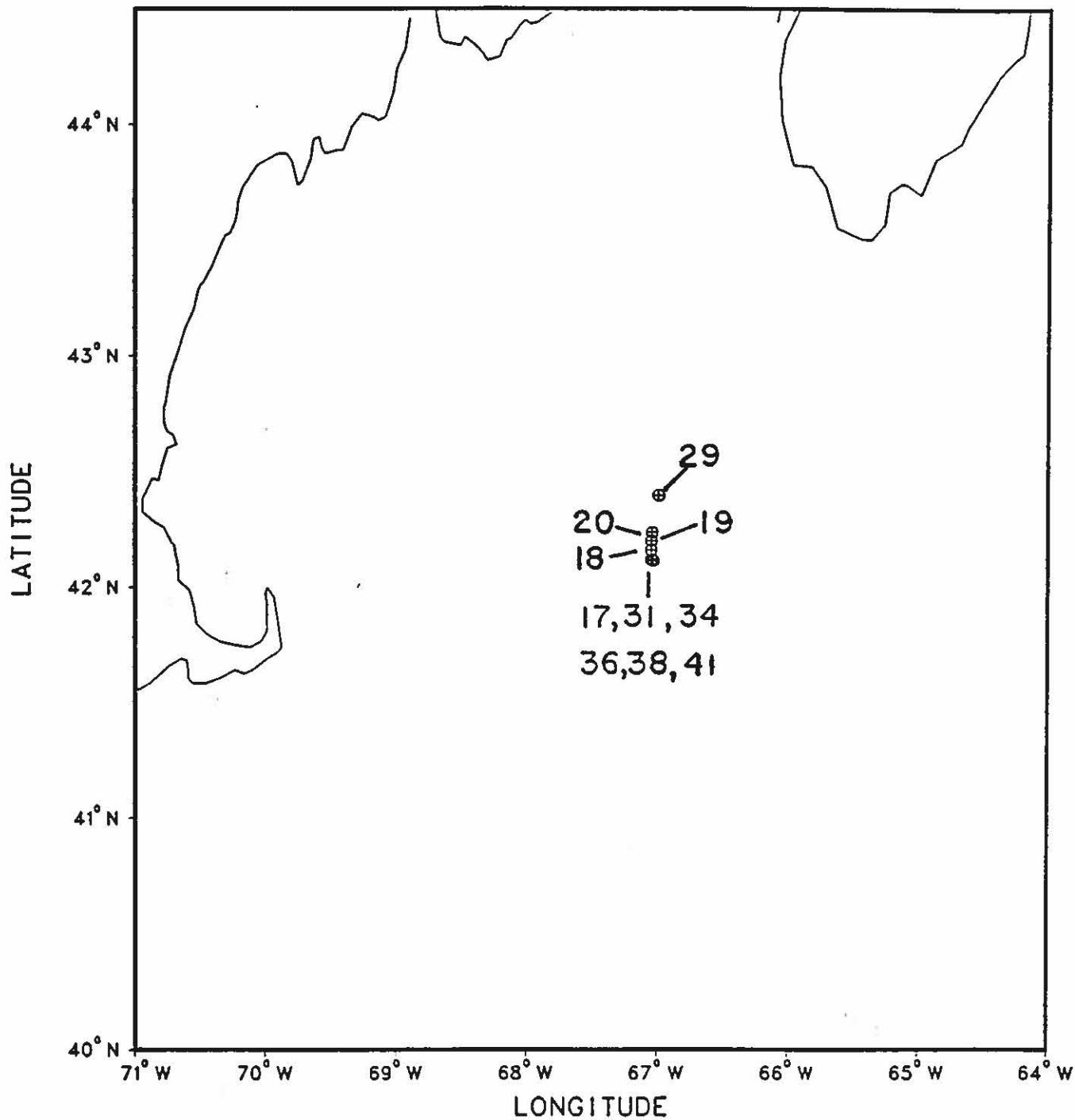
LOCATION OF SAMPLING STATIONS

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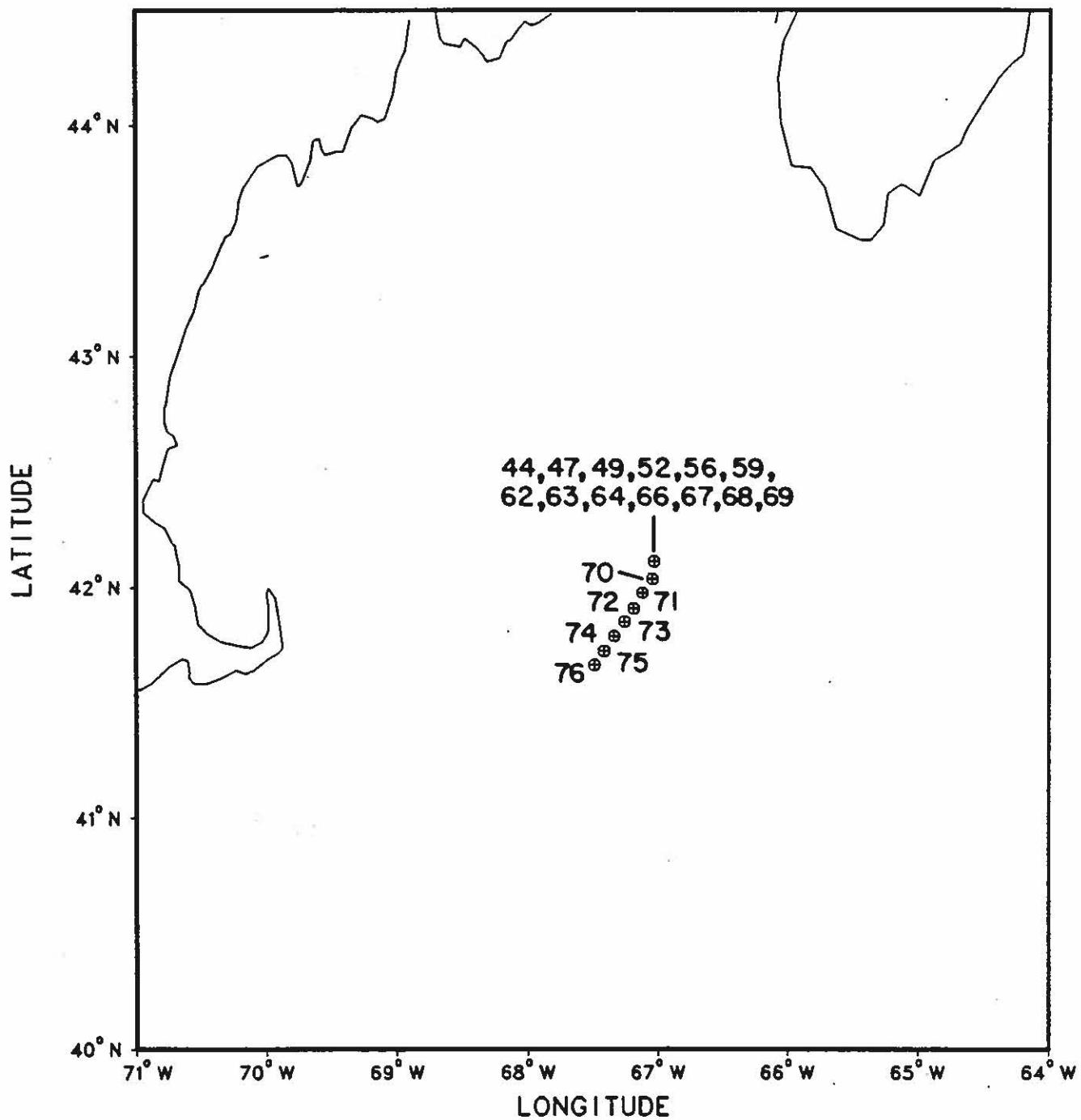
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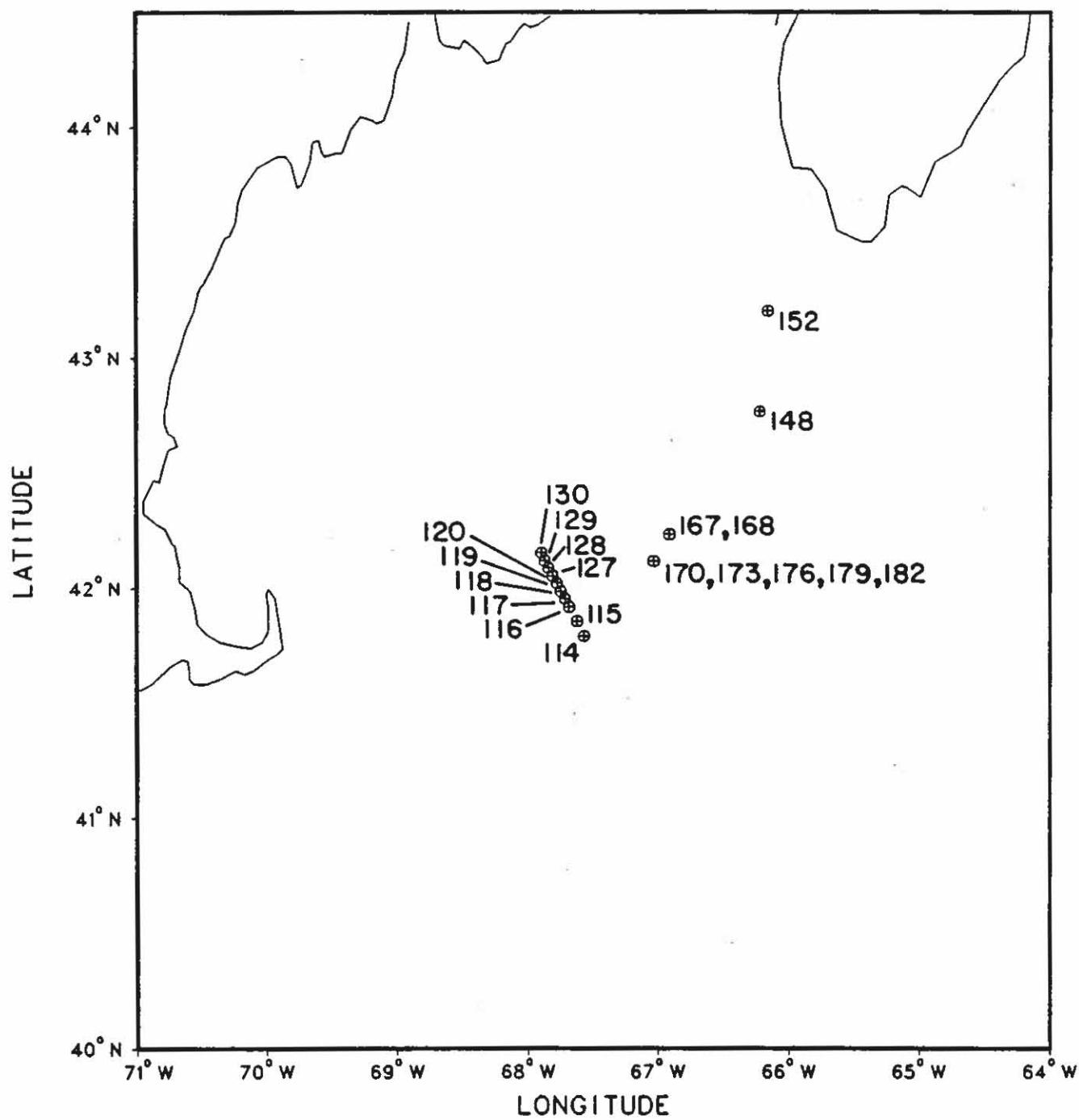
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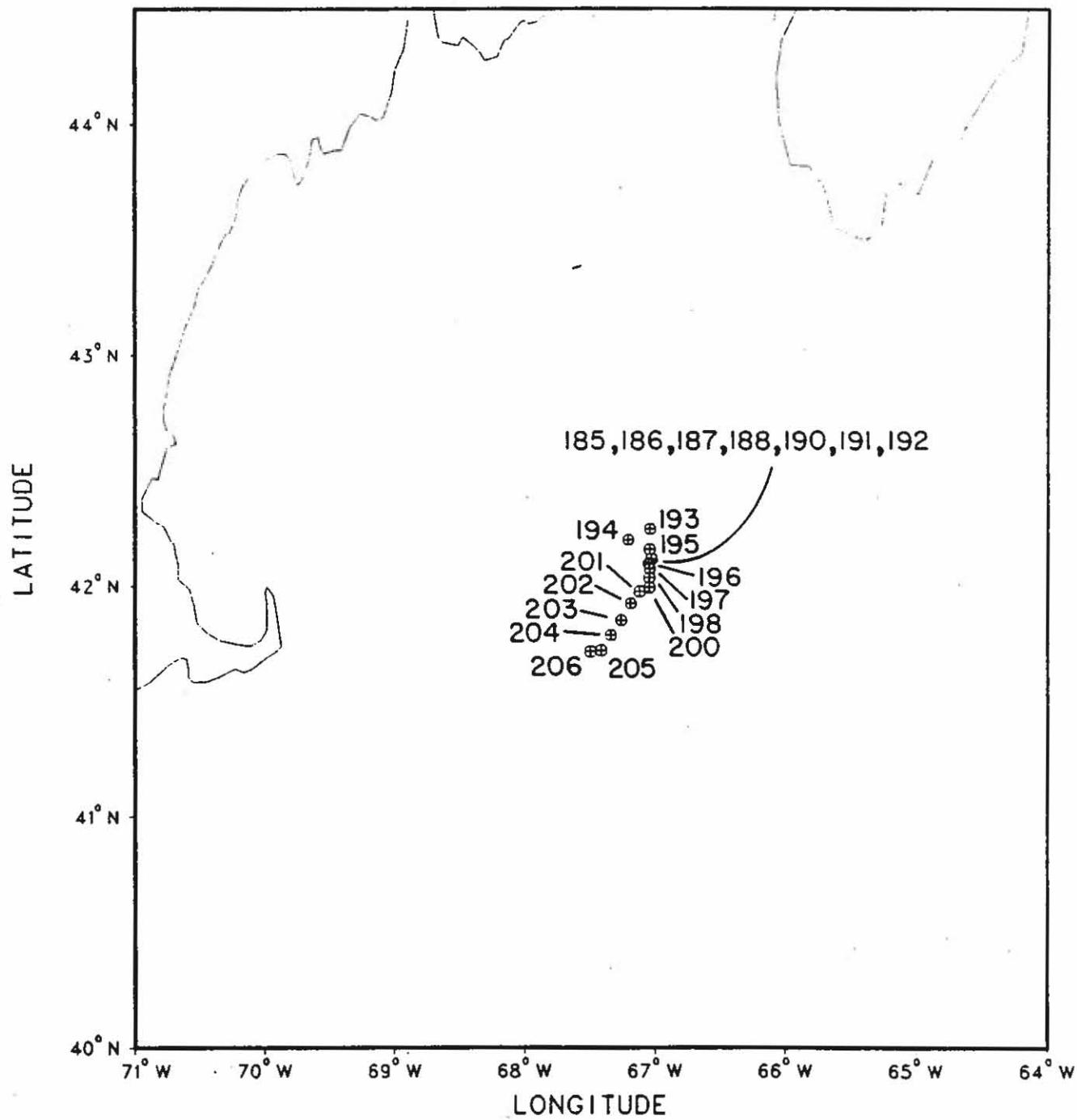
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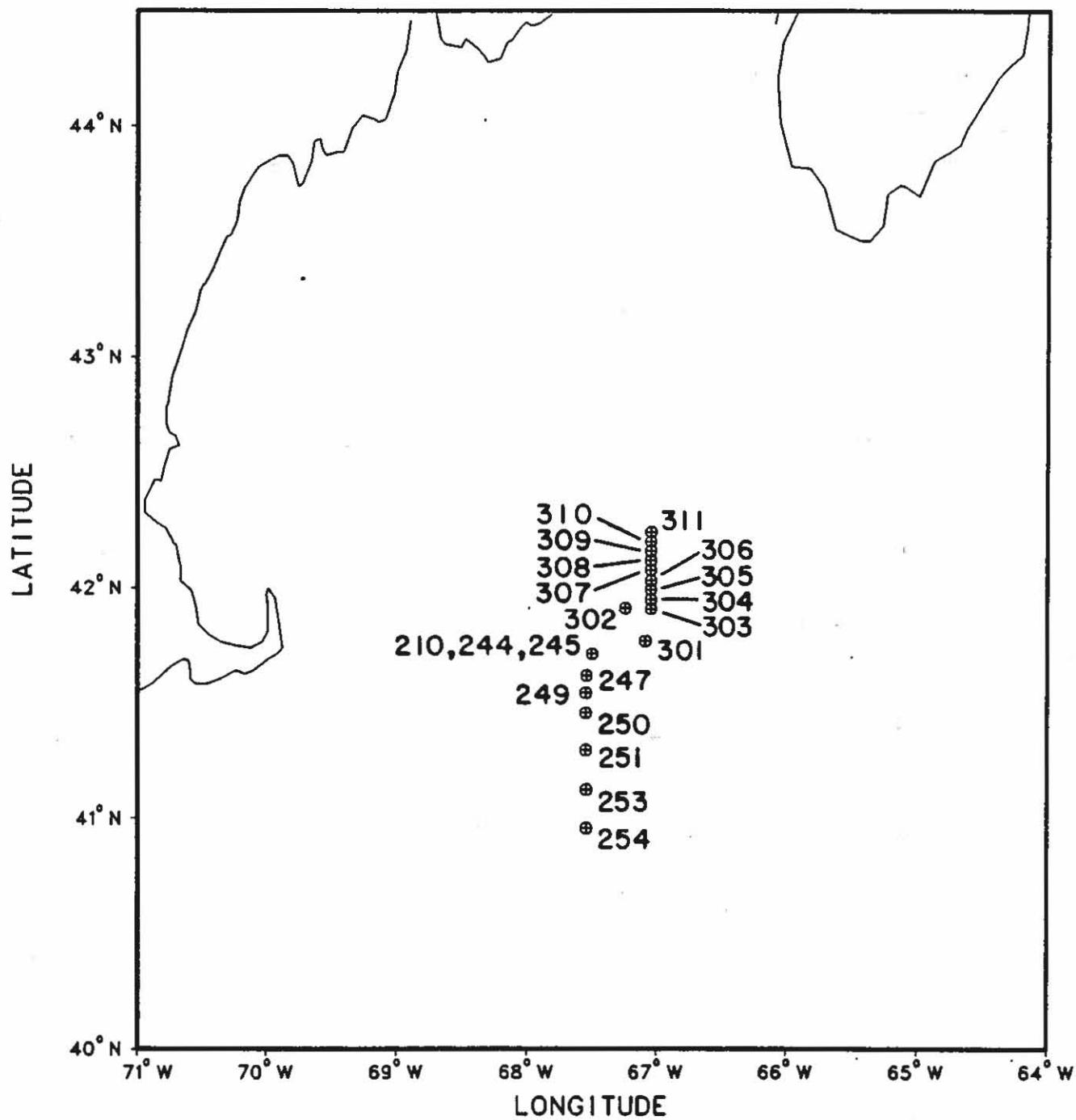
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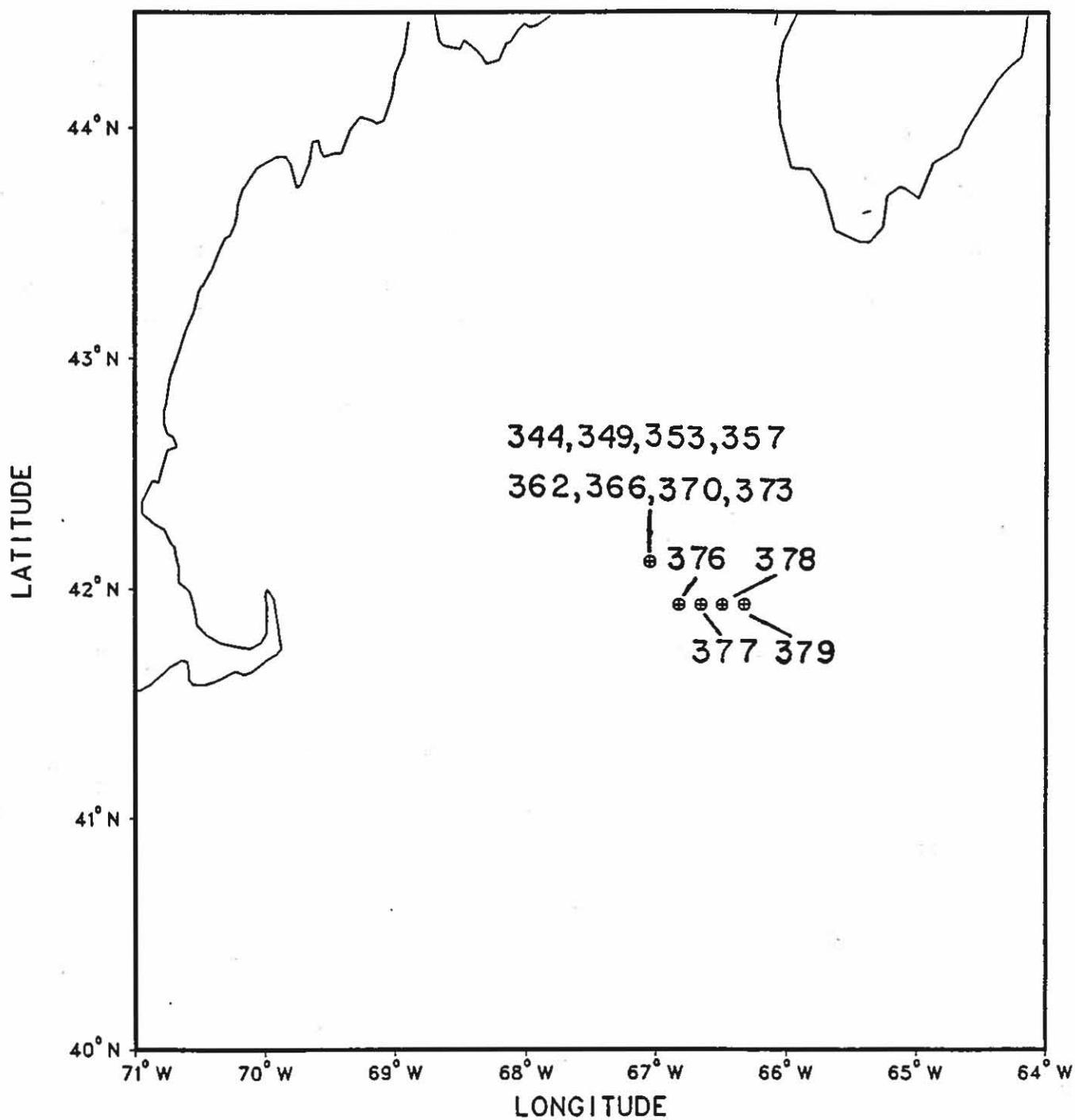
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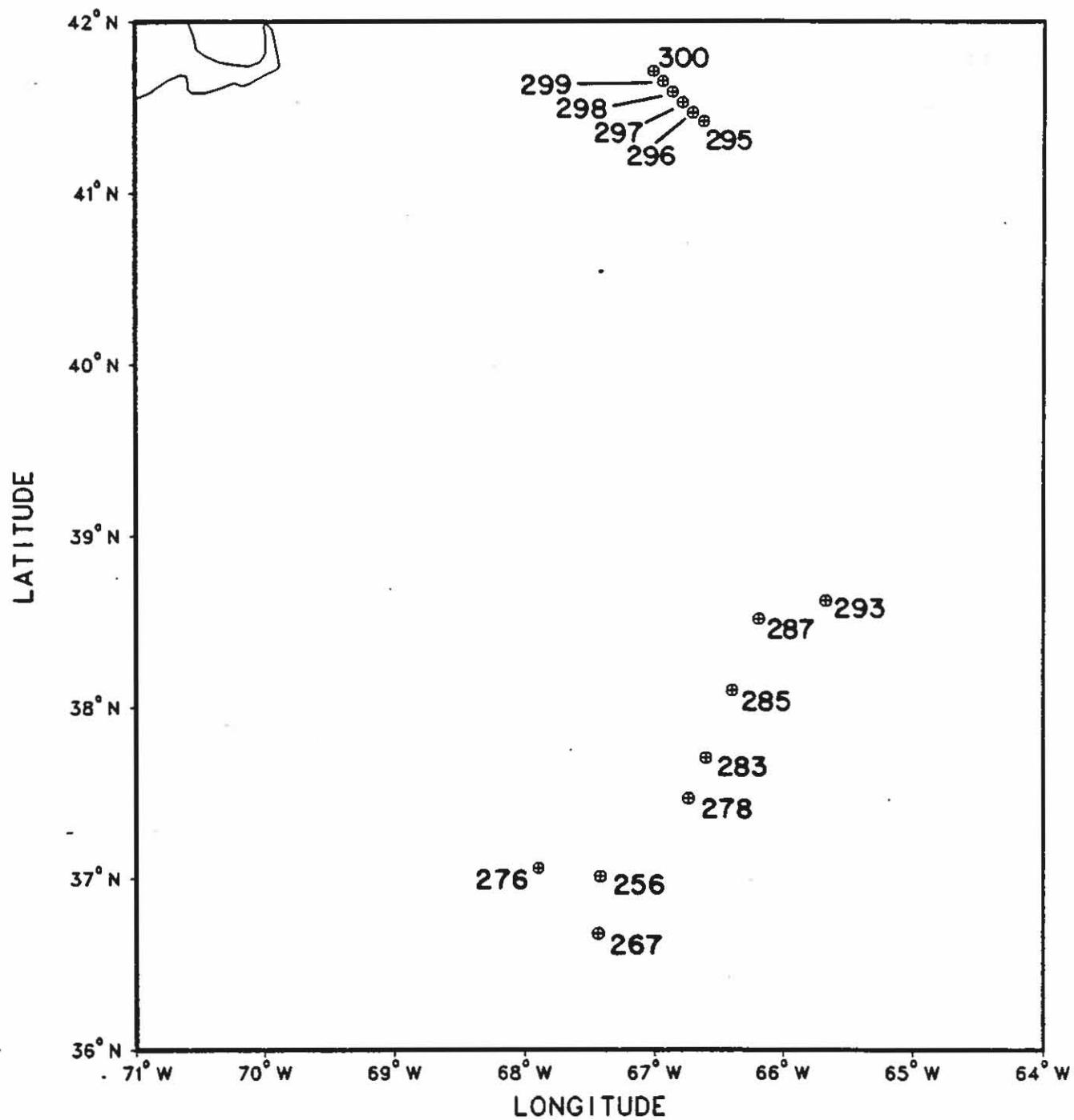
GEORGES BANK CTD STATIONS (210-311)



GEORGES BANK CTD STATIONS (344-379)



SARGASSO SEA — CTD STATIONS



PROFILE DATA

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GEORGES BANK - SARGASSO SEA 1985

LAT 42 07.2' N LONG 67 04.2' W DATE 23/07/85 GMT 1728

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.81	2.37	.42	-	2.85
10	1.33	2.74	.42	-	2.61
20	2.25	3.34	.57	-	2.02
30	2.58	3.59	.56	-	2.05
40	2.22	3.79	.57	-	2.17
55	3.07	4.13	.65	-	2.41

LAT 42 14.4' N LONG 67 02.4' W DATE 24/07/85 GMT 0401

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
10	1.24	2.74	.31	-	1.23
20	.73	2.81	.39	-	2.06
30	3.39	4.29	.51	-	1.98
50	7.83	6.25	.78	-	1.32
100	13.29	11.00	1.15	-	.24
230	20.48	14.49	1.43	-	.23

GEORGES BANK - SARGASSO SEA 1985

LAT 42 12.0' N LONG 67 02.4' W DATE 24/07/85 GMT 0527

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
10	.04	2.38	.31	-	.81
20	.02	3.15	.44	-	1.26
30	1.89	4.40	.60	-	2.02
50	8.38	6.31	.93	-	1.66
100	11.86	9.15	1.10	-	.22
180	16.03	13.23	1.26	-	.11

LAT 42 09.6' N LONG 67 02.4' W DATE 24/07/85 GMT 0628

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
10	.18	2.76	.21	-	.61
20	.16	2.81	.29	-	1.11
30	3.79	4.58	.61	-	1.11
50	5.17	5.20	.72	-	.79
70	5.42	5.22	.71	-	1.22
82	10.34	8.74	1.22	-	.91

GEORGES BANK - SARGASSO SEA 1985

LAT 42 07.2' N LONG 67 02.4' W DATE 24/07/85 GMT 0704

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.65	3.23	.32	-	2.06
10	1.00	3.27	.41	-	2.85
20	1.64	3.77	.59	-	3.42
30	2.50	4.06	.53	-	3.71
40	3.21	4.65	.56	-	2.77
53	5.39	6.04	.69	-	1.98

LAT 42 04.8' N LONG 67 02.4' W DATE 24/07/85 GMT 0747

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.69	2.14	.42	-	3.14
10	.77	2.20	.47	-	3.42
20	1.05	2.61	.44	-	4.28
30	1.44	2.92	.48	-	3.42
40	2.04	3.59	.53	-	3.42
47	2.83	4.42	.55	-	3.42

GEORGES BANK - SARGASSO SEA 1985

LAT 42 01.8' N LONG 67 02.4' W DATE 24/07/85 GMT 0820

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.83	2.25	.45	-	-
10	1.10	2.31	.46	-	3.56
20	1.02	2.38	.47	-	3.28
30	1.86	2.30	.45	-	3.71
40	1.01	2.31	.49	-	3.71
51	.87	2.21	.45	-	3.71

LAT 41 59.4' N LONG 67 02.4' W DATE 24/07/85 GMT 0854

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.85	1.81	.45	-	2.93
10	.70	1.76	.50	-	2.53
20	.65	1.70	.46	-	2.37
30	.67	1.70	.47	-	2.23
40	.69	1.72	.46	-	2.22
51	.67	1.79	.43	-	2.46

GEORGES BANK - SARGASSO SEA 1985

LAT 42 06.6' N LONG 67 01.8' W DATE 25/07/85 GMT 0355

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.02	1.74	.08	-	.45
11	1.30	2.99	.36	-	1.50
20	6.29	5.55	.71	-	.99
30	8.17	6.50	.76	-	.62
40	9.05	7.17	.82	-	.47
51	9.48	7.58	.86	-	.40

LAT 42 06.6' N LONG 67 01.8' W DATE 25/07/85 GMT 0534

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.03	1.83	.19	-	1.20
10	.47	2.54	.30	-	1.36
17	4.65	4.92	.68	-	1.58
27	5.65	5.40	.68	-	.97
36	6.86	5.96	.78	-	.87
48	7.81	6.57	.75	-	1.50

GEORGES BANK - SARGASSO SEA 1985

LAT 42 06.6' N LONG 67 01.8' W DATE 25/07/85 GMT 0650

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
1	.07	1.90	.25	-	1.50
10	.97	2.59	.36	-	2.18
19	3.29	3.99	.56	-	2.12
30	3.50	4.15	.56	-	1.76
40	3.55	4.21	.61	-	2.47
51	4.78	4.87	.55	-	1.76

LAT 42 06.6' N LONG 67 01.8' W DATE 25/07/85 GMT 0752

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
1	.67	1.82	.40	-	2.73
12	1.07	2.12	.36	-	4.87
22	1.53	2.44	.42	-	3.35
32	2.37	3.26	.59	-	2.82
43	2.73	3.62	.50	-	2.73
55	5.11	4.96	.63	-	1.50

GEORGES BANK - SARGASSO SEA 1985

LAT 42 06.6' N LONG 67 01.8' W DATE 25/07/85 GMT 0938

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
20	.10	1.43	.26	-	2.21
20	1.03	2.03	.39	-	2.73
30	1.45	2.24	.44	-	5.57
41	2.30	2.84	.48	-	4.53
52	2.98	3.21	.55	-	4.18
	4.01	4.07	.61	-	2.29

LAT 42 06.6' N LONG 67 01.8' W DATE 25/07/85 GMT 1107

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	1.32	.17	-	.98
3	.15	1.44	.25	-	1.54
10	.60	1.79	.37	-	3.17
20	.53	1.72	.32	-	2.87
30	.50	1.56	.35	-	3.18
42	.94	1.95	.40	-	5.05

GEORGES BANK - SARGASSO SEA 1985

LAT 42 06.6' N LONG 67 01.8' W DATE 25/07/85 GMT 1252

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	1.55	.15	-	.83
13	.04	1.64	.23	-	1.41
25	.29	1.72	.27	-	1.94
40	2.08	3.01	.55	-	3.79
50	3.46	3.94	.66	-	2.38
	6.11	5.47	.67	-	1.50

LAT 42 06.6' N LONG 67 01.8' W DATE 25/07/85 GMT 1538

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	1.80	.15	-	.29
11	.93	2.85	.35	-	2.34
21	4.52	4.85	.61	-	2.82
31	6.94	5.79	.73	-	.58
41	8.93	6.88	.91	-	.60
54	9.74	7.53	.85	-	.72

GEORGES BANK - SARGASSO SEA 1985

LAT 42 06.6' N LONG 67 01.8' W DATE 25/07/85 GMT 1703

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
1	.00	1.73	.12	-	.32
11	.01	2.48	.24	-	1.24
22	3.98	4.61	.57	-	3.09
31	6.41	5.75	.70	-	1.38
40	7.14	6.36	.78	-	1.00
53	8.04	6.63	.79	-	.76

LAT 42 06.6' N LONG 67 01.8' W DATE 25/07/85 GMT 1850

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.12	1.90	.30	-	1.01
10	2.62	3.57	.50	-	2.47
30	3.09	3.84	.52	-	2.29
38	3.46	4.01	.56	-	1.85
50	4.09	4.46	.63	-	1.59

GEORGES BANK - SARGASSO SEA 1985

LAT 42 06.6' N LONG 67 01.8' W DATE 25/07/85 GMT 2038

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.68	1.88	.49	-	2.56
10	.66	1.88	.35	-	4.87
20	1.01	2.16	.40	-	4.87
30	2.23	3.12	.51	-	5.22
41	3.06	3.80	.63	-	3.79
53	4.81	4.28	.67	-	2.65

LAT 42 06.6' N LONG 67 01.8' W DATE 25/07/85 GMT 2207

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
1	.00	1.71	.30	-	1.41
12	.81	2.44	.42	-	5.57
22	2.00	2.96	.49	-	5.92
32	2.73	3.50	.59	-	3.61
50	3.24	3.84	.64	-	2.56
55	4.44	4.50	.70	-	1.59

GEORGES BANK - SARGASSO SEA 1985

LAT 42 06.6' N LONG 67 01.8' W DATE 25/07/85 GMT 2328

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.08	1.74	.30	-	2.64
6	.14	1.82	.30	-	2.26
14	.18	1.91	.33	-	3.35
22	.33	1.57	.35	-	5.57
32	.49	1.60	.39	-	6.26
45	1.96	2.98	.50	-	4.52

LAT 42 06.6' N LONG 67 01.8' W DATE 26/07/85 GMT 0017

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.26	1.78	.35	-	2.20
4	.44	1.90	.41	-	3.70
12	1.54	2.59	.63	-	3.52
21	1.94	3.02	.46	-	3.09
31	2.53	3.46	.50	-	3.04
43	2.99	3.84	.55	-	2.91

GEORGES BANK - SARGASSO SEA 1985

LAT 42 06.6' N LONG 67 01.8' W DATE 26/07/85 GMT 0122

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
5	1.34	2.70	.44	-	4.18
15	1.61	2.92	.45	-	5.22
25	5.55	5.19	.67	-	1.24
36	7.46	6.25	.81	-	1.32
50	7.95	6.44	.85	-	1.50

LAT 42 06.6' N LONG 67 01.8' W DATE 26/07/85 GMT 0335

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	1.73	.33	-	.51
10	.11	1.92	.40	-	.92
20	5.12	4.84	.77	-	2.38
30	7.62	6.45	.93	-	.62
41	10.59	7.87	.93	-	.43
53	11.01	8.02	.94	-	.38

GEORGES BANK - SARGASSO SEA 1985

LAT 42 06.6' N LONG 67 01.8' W DATE 26/07/85 GMT 0434

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
11	.43	2.64	.48	-	1.15
21	5.83	5.53	.89	-	1.48
31	9.10	6.93	.98	-	.43
42	10.09	7.62	1.04	-	.33
53	10.50	7.91	1.04	-	.43

LAT 42 02.4' N LONG 67 02.4' W DATE 26/07/85 GMT 0631

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.82	2.77	.44	-	4.00
10	1.10	2.98	.40	-	4.52
20	1.28	3.04	.45	-	3.18
30	1.90	3.51	.56	-	3.79
40	2.09	3.54	.60	-	2.91
48	2.29	3.63	.68	-	2.64

GEORGES BANK - SARGASSO SEA 1985

LAT 41 58.8' N LONG 67 07.2' W DATE 26/07/85 GMT 0730

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
2	.45	1.54	.53	-	5.40
20	.47	1.58	.56	-	5.22
24	.48	1.72	.46	-	5.92
34	.51	1.92	.46	-	5.57
44	.54	2.18	.50	-	5.22
52	.52	2.28	.46	-	5.22

LAT 41 54.6' N LONG 67 11.4' W DATE 26/07/85 GMT 0820

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	1.05	.44	-	7.31
10	.09	.89	.44	-	8.35
20	.09	.87	.45	-	6.27
33	.07	1.05	.50	-	6.27
43	.02	1.00	.52	-	6.44
56	.00	.82	.51	-	8.00

GEORGES BANK - SARGASSO SEA 1985

LAT 41 51.0' N LONG 67 15.6' W DATE 26/07/85 GMT 0902

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	.30	.36	-	5.05
10	.00	.31	.39	-	5.05
20	.00	.36	.43	-	5.57
30	.00	1.04	.36	-	5.40
40	.00	.96	.40	-	6.79

LAT 41 47.4' N LONG 67 20.4' W DATE 26/07/85 GMT 0954

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.03	.50	.36	-	5.74
10	.02	.29	.36	-	5.92
21	.00	.24	.37	-	4.70
31	.00	.24	.39	-	5.22
43	.00	.25	.36	-	6.80

GEORGES BANK - SARGASSO SEA 1985

LAT 41 43.8' N LONG 67 25.2' W DATE 26/07/85 GMT 1040

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	.54	.35	-	5.05
5	.00	.26	.36	-	4.70
11	.00	.14	.39	-	4.18
17	.00	.31	.34	-	5.05
17	.01	.28	.35	-	5.56

LAT 41 40.2' N LONG 67 29.4' W DATE 26/07/85 GMT 1130

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	.21	.35	-	3.70
5	.00	.33	.38	-	3.44
10	.00	.34	.36	-	2.12
14	.00	.26	.36	-	4.87
20	.00	.19	.36	-	4.87
30	.00	.61	.34	-	4.87

GEORGES BANK - SARGASSO SEA 1985

LAT 41 47.4' N LONG 67 34.2' W DATE 27/07/85 GMT 1233

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.42	.47	.45	.16	3.62
13	.43	.47	.48	.12	3.18
20	.00	.31	.45	.21	3.35
	.02	.35	.47	.31	4.70

LAT 41 51.6' N LONG 67 37.2' W DATE 27/07/85 GMT 1346

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.12	.48	.51	.03	6.10
10	.18	.48	.49	.19	5.22
18	.19	.41	.50	.29	6.27
26	.25	.48	.51	.23	6.27
34	.37	.54	.56	.22	5.22
	.39	.48	.49	.17	9.34

GEORGES BANK - SARGASSO SEA 1985

LAT 41 55.2' N LONG 67 40.8' W DATE 27/07/85 GMT 1451

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
1	.04	1.28	.45	.12	3.44
9	.29	1.23	.48	.17	.98
20	.05	1.24	.51	.19	2.38
26	.10	1.14	.45	.24	1.41
31	.10	1.14	.45	.35	5.22

LAT 41 57.0' N LONG 67 42.6' W DATE 27/07/85 GMT 1536

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
3	.03	1.58	.41	.03	3.44
7	.15	1.57	.47	.18	3.35
11	.94	2.24	.56	.38	4.52
18	1.63	2.70	.62	.30	5.92
34	1.94	3.18	.65	.34	7.48

GEORGES BANK - SARGASSO SEA 1985

LAT 41 59.4' N LONG 67 44.4' W DATE 27/07/85 GMT 1612

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	1.65	.34	.27	1.76
10	.00	1.50	.44	.06	2.69
18	1.02	2.35	.64	.27	2.38
26	1.68	3.00	.69	.40	8.70
35	3.30	3.82	.69	.36	5.58
54	7.46	6.14	.88	.36	3.00

LAT 42 01.2' N LONG 67 46.2' W DATE 27/07/85 GMT 1652

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
10	.00	1.78	.28	.23	1.94
20	1.36	2.78	.43	.27	1.41
40	7.80	5.84	.81	.05	1.01
50	9.28	6.46	.90	.20	.83
101	10.78	8.00	1.01	.07	1.23
152	15.88	13.66	1.33	.27	.40

GEORGES BANK - SARGASSO SEA 1985

LAT 42 03.0' N LONG 67 48.0' W DATE 27/07/85 GMT 1739

DEPTH M	NO3 MG AT M-3	S1O3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	1.78	.19	.08	.69
88	.00	1.62	.21	.29	.89
30	2.62	3.39	.51	.25	1.36
53	9.68	6.54	.96	.00	.49
102	14.39	11.53	1.18	.06	.16
186	18.10	15.31	1.34	.17	.22

LAT 42 03.0' N LONG 67 48.6' W DATE 27/07/85 GMT 2135

DEPTH M	NO3 MG AT M-3	S1O3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	2.01	.19	.03	.54
20	.00	2.06	.23	.10	.87
30	.60	3.29	.43	.25	1.94
53	6.83	5.35	.72	.16	.72
102	19.30	6.93	.90	.24	.51
172	16.89	14.67	1.31	.15	.17

GEORGES BANK - SARGASSO SEA 1985

LAT 42 05.4' N LONG 67 50.4' W DATE 27/07/85 GMT 2219

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	2.04	.19	.08	.65
15	.00	2.07	.25	.25	1.00
30	.64	3.10	.42	.32	2.29
53	7.48	5.61	.80	.23	.90
105	12.74	6.73	1.16	.23	.09
200	17.86	15.80	1.42	.08	.11

LAT 42 07.2' N LONG 67 52.2' W DATE 27/07/85 GMT 2305

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.18	2.01	.19	.18	.41
15	.16	1.86	.19	.09	.47
29	.27	2.61	.26	.13	2.07
52	9.14	6.10	.86	.17	.83
98	12.51	9.78	1.10	.13	.12
204	17.81	15.38	1.34	.14	.05

GEORGES BANK - SARGASSO SEA 1985

LAT 42 09.0' N LONG 67 53.4' W DATE 27/07/85 GMT 2355

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.01	1.96	.20	.11	.31
16	.07	1.94	.20	.09	.62
30	1.82	6.90	.44	.17	2.60
51	10.60	7.46	.98	.18	.37
199	18.02	15.25	1.40	.11	.06

LAT 42 13.8' N LONG 66 54.6' W DATE 01/08/85 GMT 0016

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.25	2.15	.17	.41	.52
4	.00	2.21	.17	.04	.52
11	.02	2.36	.13	.41	.52
24	1.19	3.41	.42	1.08	1.67
40	8.17	6.70	.86	1.14	.49
56	11.51	8.98	1.07	1.04	.07

GEORGES BANK - SARGASSO SEA 1985

LAT 42 07.2' N LONG 67 01.8' W DATE 01/08/85 GMT 0246

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
11	.19	2.21	.41	.32	2.29
24	.78	2.12	.47	.30	5.05
30	1.23	2.49	.49	.41	5.40
39	1.70	2.66	.54	.86	3.53

LAT 42 07.2' N LONG 67 01.8' W DATE 01/08/85 GMT 0420

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.69	2.12	.50	.05	3.09
12	.74	2.28	.52	.23	4.52
24	1.42	2.67	.60	.13	4.88
33	1.81	3.01	.51	.31	3.44
41	2.05	3.18	.54	.34	3.44

GEORGES BANK - SARGASSO SEA 1985

LAT 42 07.2' N LONG 67 01.8' W DATE 01/08/85 GMT 0555

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.76	2.25	.51	.20	1.46
13	.87	2.28	.50	.20	6.61
22	1.09	2.42	.54	.22	5.22
33	1.37	2.91	.55	.21	2.82
42	5.24	4.98	.76	.12	2.38
52	7.01	5.61	.84	.07	3.09

LAT 42 07.2' N LONG 67 01.8' W DATE 01/08/85 GMT 0800

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	1.97	.32	.05	1.23
14	1.31	2.74	.61	.17	2.12
23	3.73	4.31	.64	.17	2.73
33	8.72	6.86	.89	.82	1.68
44	10.75	8.44	1.03	.18	.90
52	10.89	8.40	1.01	.18	.83

GEORGES BANK - SARGASSO SEA 1985

LAT 42 07.2' N LONG 67 01.8' W DATE 01/08/85 GMT 0943

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.12	1.82	.46	.43	1.03
12	5.41	4.96	.70	.31	1.94
22	6.95	6.23	.83	.31	1.85
32	10.69	8.32	1.02	.33	.53
38	11.06	8.56	1.05	.26	.30
51	12.13	9.39	1.06	.31	.18

LAT 42 07.2' N LONG 67 01.8' W DATE 01/08/85 GMT 1120

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.24	1.86	.38	-	1.15
14	4.57	4.26	.72	-	2.12
23	6.55	5.24	.81	-	2.38
32	8.36	6.43	.95	-	1.37
43	9.19	6.80	.98	-	1.27
53	9.76	7.27	1.01	-	1.30

GEORGES BANK - SARGASSO SEA 1985

LAT 42 07.2' N LONG 67 01.8' W DATE 01/08/85 GMT 1242

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.15	1.82	.43	-	1.50
13	2.75	3.60	.63	-	2.20
24	3.89	4.14	.73	-	2.91
33	4.58	4.65	.71	-	2.64
43	5.89	5.08	.77	-	1.94
52	7.09	5.80	.83	-	2.03

LAT 42 07.2' N LONG 67 01.8' W DATE 01/08/85 GMT 1358

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.28	1.91	.43	-	2.34
13	1.08	2.43	.52	-	4.87
22	1.45	2.54	.53	-	5.22
33	1.87	3.08	.57	-	3.62
43	2.46	3.20	.64	-	3.48
51	3.89	4.20	.74	-	2.91

GEORGES BANK - SARGASSO SEA 1985

LAT 42 07.2' N LONG 67 01.8' W DATE 01/08/85 GMT 1517

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.79	2.13	.52	-	3.26
13	.97	2.29	.54	-	5.22
24	1.28	2.24	.55	-	5.05
33	1.84	2.50	.61	-	3.35
53	4.57	4.62	.67	-	2.47

LAT 42 07.2' N LONG 67 01.8' W DATE 01/08/85 GMT 1705

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	1.05	2.29	.47	.01	3.09
13	1.91	2.72	.54	.40	3.79
23	2.19	2.89	.58	.00	3.35
33	2.81	3.18	.62	.08	2.47
42	3.44	3.71	.62	.17	3.40
49	4.32	4.25	.69	-	3.35

GEORGES BANK - SARGASSO SEA 1985

LAT 42 07.2' N LONG 67 01.8' W DATE 01/08/85 GMT 1834

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.51	1.92	.48	.11	3.53
14	1.03	2.29	.52	.06	3.79
24	1.52	2.44	.59	.00	3.62
32	1.84	2.75	.55	.05	3.00
43	5.02	4.88	.77	.08	1.94
53	5.06	4.65	.76	.00	3.00

LAT 42 07.2' N LONG 67 01.8' W DATE 01/08/85 GMT 2005

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	1.81	.48	.00	.18
12	.37	2.14	.50	.00	2.47
23	2.11	2.81	.51	.00	3.53
33	6.98	6.20	.79	.00	2.38
42	7.02	6.20	.81	.08	1.76
50	7.35	6.39	.79	.27	1.54

GEORGES BANK - SARGASSO SEA 1985

LAT 42 15.0' N LONG 67 02.4' W DATE 02/08/85 GMT 0805

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	2.43	.22	.00	1.16
10	.00	2.33	.24	.04	1.23
25	.24	2.46	.32	.24	1.37
51	8.90	6.67	.88	.16	.51
102	13.38	11.08	1.17	.00	.19
225	17.85	13.06	1.37	.00	.12

LAT 42 09.6' N LONG 67 02.4' W DATE 02/08/85 GMT 0925

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.53	2.51	.35	.11	1.43
12	1.67	3.21	.39	.00	1.59
32	9.48	7.30	.92	.02	.51
40	11.79	9.36	1.09	.02	.15
52	13.52	11.25	1.18	.00	.10
90	12.55	10.67	1.06	.00	.21

GEORGES BANK - SARGASSO SEA 1985

LAT 42 04.2' N LONG 67 02.4' W DATE 02/08/85 GMT 1039

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.77	2.59	.38	.09	1.41
13	.97	2.95	.38	.10	1.50
23	5.29	4.98	.69	.00	1.28
32	7.78	6.41	.87	.01	1.05
40	8.15	6.45	.86	.08	.98
50	8.40	6.74	.90	.03	1.41

LAT 42 02.4' N LONG 67 03.0' W DATE 02/08/85 GMT 1138

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.83	2.55	.43	.01	-
13	.73	2.47	.43	.10	-
23	3.39	3.77	.62	.10	-
33	4.34	4.41	.72	.07	-
43	4.77	4.71	.66	.08	-
51	5.07	4.81	.68	.11	-

GEORGES BANK - SARGASSO SEA 1985

LAT 41 59.4' N LONG 67 02.4' W DATE 02/08/85 GMT 1316

<u>DEPTH M</u>	<u>NO3 MG AT M-3</u>	<u>SIO3 MG AT M-3</u>	<u>PO4 MG AT M-3</u>	<u>NH3 MG AT M-3</u>	<u>CHL MG M-3</u>
0	.85	2.26	.46	.13	-
10	.81	2.24	.64	.06	-
22	.65	2.22	.49	.15	-
31	1.58	2.18	.45	.22	-
38	1.74	2.17	.50	.04	-
50	1.16	2.15	.50	.08	-

LAT 41 58.8' N LONG 67 07.2' W DATE 02/08/85 GMT 1351

<u>DEPTH M</u>	<u>NO3 MG AT M-3</u>	<u>SIO3 MG AT M-3</u>	<u>PO4 MG AT M-3</u>	<u>NH3 MG AT M-3</u>	<u>CHL MG M-3</u>
0	1.01	1.84	.46	.06	-
11	1.07	2.02	.52	.00	-
23	1.21	2.13	.53	.16	-
33	1.07	2.16	.48	.20	-
42	1.16	2.03	.47	.27	-
50	1.18	2.16	.50	.01	-

GEORGES BANK - SARGASSO SEA 1985

LAT 41 55.2' N LONG 67 11.4' W DATE 02/08/85 GMT 1437

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.14	.81	.43	.08	-
12	.19	.93	.46	.06	-
22	.22	1.13	.40	.19	-
30	.21	1.14	.39	.24	-
40	.23	1.25	.43	.22	-
49	.26	1.13	.43	.18	-

LAT 41 51.0' N LONG 67 15.6' W DATE 02/08/85 GMT 1523

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.01	.89	.45	.19	-
11	.01	.68	.36	.10	-
21	.00	.61	.39	.01	-
30	.06	.74	.48	.26	-
40	.01	.57	.41	.21	-
43	.00	.59	.41	.19	-

GEORGES BANK - SARGASSO SEA 1985

LAT 41 47.4' N LONG 67 20.4' W DATE 02/08/85 GMT 1607

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
1	.00	.78	.40	.33	-
20	.00	.76	.41	.27	-
30	.00	.77	.44	.15	-
40	.00	1.04	.35	.17	-
48	.00	.94	.40	.25	-

LAT 41 42.6' N LONG 67 30.0' W DATE 02/08/85 GMT 2014

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.06	.78	.39	-	.10
5	.08	.68	.38	-	.14
10	.09	.65	.34	-	.18
22	.09	1.07	.39	-	.17
30	.09	.72	.34	-	.49
44	.10	.53	.37	-	.30

GEORGES BANK - SARGASSO SEA 1985

LAT 41 32.4' N LONG 67 32.4' W DATE 03/08/85 GMT 1310

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	.47	.48	.57	2.82
5	.00	.83	.40	.40	3.18
8	.00	.76	.41	.30	2.91
10	.00	.82	.40	.45	2.82
14	.00	.74	.45	.45	3.35
17	.00	.78	.46	.62	3.67

LAT 41 27.6' N LONG 67 32.4' W DATE 03/08/85 GMT 1405

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	.59	.35	.35	2.16
10	.00	.62	.37	.49	2.29
14	.00	.65	.39	.30	2.38
18	.00	.68	.43	.31	2.64
25	.00	.69	.38	.33	2.25
33	.00	.66	.39	.59	2.73

GEORGES BANK - SARGASSO SEA 1985

LAT 41 18.0' N LONG 67 33.0' W DATE 03/08/85 GMT 1530

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	1.40	.39	.29	2.34
10	.00	1.26	.52	.39	2.38
14	.00	1.40	.53	.47	2.65
23	.00	1.12	.34	.29	3.18
30	.00	.41	.36	.30	2.56
38	.00	.56	.40	.40	2.47

LAT 41 07.2' N LONG 67 32.4' W DATE 03/08/85 GMT 1716

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	2.75	.36	.29	3.22
11	1.00	2.94	.48	.44	3.53
17	1.07	2.80	.45	.71	5.22
26	1.08	2.83	.46	.62	4.87
34	1.08	2.81	.48	.59	5.92
47	1.08	5.10	.50	.59	5.40

GEORGES BANK - SARGASSO SEA 1985

LAT 40 57.6' N LONG 67 32.4' W DATE 03/08/85 GMT 1828

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	1.67	.31	.28	1.76
10	.00	1.73	.38	.37	1.94
22	2.78	4.82	.63	1.15	1.58
33	3.37	5.47	.68	1.22	1.18
50	4.07	6.15	.73	1.16	1.30
57	4.68	6.40	.67	1.60	.94

LAT 37 00.6' N LONG 67 25.2' W DATE 04/08/85 GMT 1537

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
118	2.98	1.86	.32	.38	.90
146	3.16	2.69	.44	.59	.08
170	3.92	1.67	.28	.52	.09
210	3.93	1.52	.24	.67	.09
306	4.19	1.62	.27	.59	.05
415	5.83	1.86	.28	.49	.08

GEORGES BANK - SARGASSO SEA 1985

LAT 36 40.8' N LONG 67 25.8' W DATE 06/08/85 GMT 1109

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
118	1.02	.91	.02	.17	.08
148	1.62	.44	.00	.16	.07
170	1.81	.92	.00	.32	.08
200	2.48	1.19	.03	.36	.06
304	3.84	1.42	.06	.22	.04
406	4.06	1.51	.08	.18	.03

LAT 37 03.6' N LONG 67 53.4' W DATE 06/08/85 GMT 2210

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
55	.00	.94	.00	-	-
95	.12	1.38	.00	-	-
115	1.02	1.32	.08	-	-
150	1.06	.63	.01	-	-
200	1.79	.72	.01	-	-
404	3.14	1.46	.10	-	-

GEORGES BANK - SARGASSO SEA 1985

LAT 37 28.2' N LONG 66 44.4' W DATE 07/08/85 GMT 1219

<u>DEPTH M</u>	<u>NO3 MG AT M-3</u>	<u>SIO3 MG AT M-3</u>	<u>PO4 MG AT M-3</u>	<u>NH3 MG AT M-3</u>	<u>CHL MG M-3</u>
102	.00	1.15	.01	.23	-
136	.49	1.22	.00	.18	-
167	1.97	1.14	.00	.21	-
207	3.82	1.42	.10	.20	-
310	11.77	5.16	.49	.26	-
386	15.23	7.34	.75	1.15	-

LAT 37 42.6' N LONG 66 36.0' W DATE 07/08/85 GMT 1923

<u>DEPTH M</u>	<u>NO3 MG AT M-3</u>	<u>SIO3 MG AT M-3</u>	<u>PO4 MG AT M-3</u>	<u>NH3 MG AT M-3</u>	<u>CHL MG M-3</u>
93	.00	1.01	.00	.37	-
124	.71	1.69	.01	.40	-
165	5.39	2.40	.18	-	-
200	8.69	4.07	.40	-	-
292	10.08	4.90	.67	-	-
409	18.41	11.87	1.04	-	-

GEORGES BANK - SARGASSO SEA 1985

LAT 38 06.0' N LONG 66 23.4' W DATE 08/08/85 GMT 0146

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
123	1.72	1.56	.06	.31	-
152	8.37	4.13	.41	.21	-
204	9.12	3.48	.39	.34	-
300	14.92	7.28	.74	.43	-

LAT 38 30.6' N LONG 66 11.4' W DATE 08/08/85 GMT 1145

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	:00	1.17	:00	-	.16
5	:00	1.15	:00	-	.14
27	:00	1.19	:00	-	.16
73	2.35	1.70	.22	-	.43
103	7.13	3.33	.30	-	.13

GEORGES BANK - SARGASSO SEA 1985

LAT 38 37.2' N LONG 65 40.2' W DATE 08/08/85 GMT 1929

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
37	.00	1.31	.00	-	-
64	.20	1.24	.00	-	-
100	5.57	2.93	.22	-	-
121	7.18	3.18	.31	-	-
151	8.81	3.75	.42	-	-
197	13.52	5.76	.69	-	-

LAT 41 25.2' N LONG 66 37.2' W DATE 09/08/85 GMT 1935

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.03	2.68	.13	1.75	.47
11	.03	2.52	.17	1.87	.88
19	.06	3.31	.23	2.21	1.85
28	3.12	3.95	.47	2.23	1.15
50	6.58	5.47	.64	1.76	.80
72	9.23	7.28	.81	1.07	.33

GEORGES BANK - SARGASSO SEA 1985

LAT 41 28.2' N LONG 66 42.0' W DATE 09/08/85 GMT 2022

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	2.67	.12	.86	.63
12	.00	2.87	.22	.90	2.56
30	.06	3.49	.25	1.05	2.56
43	4.68	4.65	.51	1.46	.76
52	6.14	5.99	.64	1.76	.54
62	7.50	6.79	.60	2.37	.36

LAT 41 31.8' N LONG 66 46.8' W DATE 09/08/85 GMT 2114

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.01	2.63	.15	.70	1.12
11	.05	2.24	.31	.70	3.31
20	.24	2.53	.29	.73	1.98
40	2.37	4.05	.44	1.03	.93
50	2.38	4.17	.42	1.02	1.23
62	2.89	4.47	.41	1.14	1.01

GEORGES BANK - SARGASSO SEA 1985

LAT 41 35.4' N LONG 66 51.6' W DATE 09/08/85 GMT 2200

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	2.02	.25	.70	2.47
11	.00	2.53	.25	.62	5.57
19	1.06	2.76	.34	.82	2.51
30	1.13	2.93	.39	.86	2.38
43	1.16	3.05	.37	.97	2.47
56	1.22	3.12	.33	.95	2.29

LAT 41 39.0' N LONG 66 56.4' W DATE 09/08/85 GMT 2248

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.02	1.96	.26	.83	1.54
11	.04	2.10	.24	.79	1.46
20	.54	2.48	.32	1.01	2.64
30	.78	2.38	.32	1.10	1.76
44	.77	2.51	.37	.97	2.73
52	.76	2.58	.34	.80	2.60

GEORGES BANK - SARGASSO SEA 1985

LAT 41 42.6' N LONG 67 00.6' W DATE 09/08/85 GMT 2332

<u>DEPTH M</u>	<u>NO3 MG AT M-3</u>	<u>SIO3 MG AT M-3</u>	<u>PO4 MG AT M-3</u>	<u>NH3 MG AT M-3</u>	<u>CHL MG M-3</u>
0	.00	1.12	.26	.78	1.58
11	.00	1.09	.29	.76	4.87
20	.03	.97	.28	.74	4.87
30	.03	.97	.28	.97	6.44
43	.00	1.00	.35	1.08	5.22
54	.02	1.05	.31	.99	7.66

LAT 41 46.2' N LONG 67 05.4' W DATE 10/08/85 GMT 0023

<u>DEPTH M</u>	<u>NO3 MG AT M-3</u>	<u>SIO3 MG AT M-3</u>	<u>PO4 MG AT M-3</u>	<u>NH3 MG AT M-3</u>	<u>CHL MG M-3</u>
0	.08	1.44	.35	.91	1.68
11	.10	1.50	.35	.80	2.25
19	.15	1.66	.30	.80	2.56
30	.24	1.76	.33	.97	2.29
42	.28	1.78	.35	.99	2.73
50	.30	1.68	.39	.93	3.26

GEORGES BANK - SARGASSO SEA 1985

LAT 41 54.6' N LONG 67 14.4' W DATE 10/08/85 GMT 0150

<u>DEPTH M</u>	<u>NO3 MG AT M-3</u>	<u>SIO3 MG AT M-3</u>	<u>PO4 MG AT M-3</u>	<u>NH3 MG AT M-3</u>	<u>CHL MG M-3</u>
0	.06	1.76	.29	.83	2.47
5	.28	1.84	.37	.86	2.20
10	.22	1.84	.30	.71	2.34
20	.34	1.92	.33	.91	2.16
30	.49	1.98	.36	.96	2.65
43	.40	1.83	.33	.94	2.12

LAT 41 54.6' N LONG 67 02.4' W DATE 10/08/85 GMT 0247

<u>DEPTH M</u>	<u>NO3 MG AT M-3</u>	<u>SIO3 MG AT M-3</u>	<u>PO4 MG AT M-3</u>	<u>NH3 MG AT M-3</u>	<u>CHL MG M-3</u>
0	.15	1.69	.32	.14	2.20
5	.28	1.70	.39	.18	2.47
20	.42	1.90	.46	.33	2.12
30	.45	1.96	.37	.85	2.18
44	.47	1.91	.31	.91	2.03

GEORGES BANK - SARGASSO SEA 1985

LAT 41 57.0' N LONG 67 02.4' W DATE 10/08/85 GMT 0320

DEPTH M	NO3 MG AT M-3	S1O3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.54	1.99	.31	.27	2.20
9	.56	1.88	.37	.24	2.38
19	.51	1.85	.34	.30	2.20
30	.53	1.88	.39	.26	2.42
52	.59	1.87	.39	.24	2.47

LAT 41 59.4' N LONG 67 02.4' W DATE 10/08/85 GMT 0356

DEPTH M	NO3 MG AT M-3	S1O3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	1.76	.42	.16	3.26
9	.69	2.25	.52	.18	2.16
17	.63	2.10	.47	.09	1.94
21	.70	2.17	.41	.07	1.90
33	.91	2.35	.50	.12	2.29
54	1.25	2.48	.42	.29	1.94

GEORGES BANK - SARGASSO SEA 1985

LAT 42 01.8' N LONG 67 02.4' W DATE 10/08/85 GMT 0436

<u>DEPTH M</u>	<u>NO3 MG AT M-3</u>	<u>SIO3 MG AT M-3</u>	<u>PO4 MG AT M-3</u>	<u>NH3 MG AT M-3</u>	<u>CHL MG M-3</u>
0	:00	1.85	.33	.14	1.90
5	:02	1.80	.29	.09	2.07
10	:02	1.74	.32	.12	2.65
22	1.23	2.39	.42	.39	2.03
34	1.73	2.83	.44	.34	1.67
54	1.89	2.74	.46	.35	1.67

LAT 42 04.8' N LONG 67 02.4' W DATE 10/08/85 GMT 0507

<u>DEPTH M</u>	<u>NO3 MG AT M-3</u>	<u>SIO3 MG AT M-3</u>	<u>PO4 MG AT M-3</u>	<u>NH3 MG AT M-3</u>	<u>CHL MG M-3</u>
0	1.00	1.65	.25	.09	1.18
11	1.16	2.41	.51	.34	1.41
20	2.12	2.83	.51	.30	1.15
30	2.30	3.00	.49	.29	1.06
42	3.34	3.60	.56	.37	1.41
53	3.84	3.90	.58	.38	1.68

GEORGES BANK - SARGASSO SEA 1985

LAT 42 07.2' N LONG 67 02.4' W DATE 10/08/85 GMT 0538

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	1.95	.25	.34	1.98
10	.36	2.05	.36	.16	1.06
16	2.73	3.36	.57	.42	.93
26	6.04	5.32	.75	.09	1.41
41	7.76	6.38	.82	.07	1.98
52	7.99	6.24	.81	.08	2.29

LAT 42 09.6' N LONG 67 02.4' W DATE 10/08/85 GMT 0620

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	1.73	.20	.72	.83
10	.00	1.69	.32	.10	1.54
27	1.49	3.11	.46	.11	1.85
53	9.24	6.86	.87	.10	1.15
70	10.47	7.62	.89	.21	.97
90	10.63	7.93	.88	.24	1.24

GEORGES BANK - SARGASSO SEA 1985

LAT 42 12.0' N LONG 67 02.4' W DATE 10/08/85 GMT 0656

<u>DEPTH M</u>	<u>NO3 MG AT M-3</u>	<u>SIO3 MG AT M-3</u>	<u>PO4 MG AT M-3</u>	<u>NH3 MG AT M-3</u>	<u>CHL MG M-3</u>
0	.00	2.00	.14	.74	.47
7	.00	1.90	.14	.75	.54
23	.00	2.76	.25	.81	1.46
57	10.31	7.67	.93	.95	.42
110	13.83	10.84	1.12	.88	.21
184	17.28	13.74	1.26	.42	.15

LAT 42 14.4' N LONG 67 02.4' W DATE 10/08/85 GMT 0732

<u>DEPTH M</u>	<u>NO3 MG AT M-3</u>	<u>SIO3 MG AT M-3</u>	<u>PO4 MG AT M-3</u>	<u>NH3 MG AT M-3</u>	<u>CHL MG M-3</u>
0	.00	2.24	.12	.63	.49
15	.00	2.13	.15	.90	.72
30	.89	3.21	.38	.91	2.12
53	8.96	6.59	.90	.98	.12
110	14.57	12.30	1.22	.96	.07
224	18.51	14.06	1.42	.85	.09

GEORGES BANK - SARGASSO SEA 1985

LAT 42 07.2' N LONG 67 02.4' W DATE 11/08/85 GMT 1141

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	3.41	.24	-	.72
9	.00	3.47	.42	-	2.20
22	1.17	3.64	.38	-	1.41
30	1.67	3.60	.40	-	1.27
43	3.09	4.02	.57	-	1.01
50	3.25	3.85	.54	-	.94

LAT 42 07.2' N LONG 67 02.4' W DATE 11/08/85 GMT 1323

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	3.42	.13	-	.58
11	.00	3.37	.26	-	1.54
22	.17	3.73	.31	-	1.63
30	.43	3.76	.35	-	1.50
40	1.68	4.19	.48	-	.98
50	2.41	4.44	.53	-	.92

GEORGES BANK - SARGASSO SEA 1985

LAT 42 07.2' N LONG 67 02.4' W DATE 11/08/85 GMT 1459

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	3.18	.38	-	1.24
10	.00	3.12	.34	-	1.58
21	.00	3.25	.39	-	2.47
30	.00	3.29	.42	-	3.48
40	.70	3.58	.44	-	1.27
50	2.18	4.31	.57	-	.87

LAT 42 07.2' N LONG 67 02.4' W DATE 11/08/85 GMT 1639

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
6	.00	2.16	.16	-	.65
10	.00	2.71	.37	-	1.54
21	.27	3.23	.48	-	2.21
30	2.20	4.52	.59	-	1.05
40	4.84	5.76	.68	-	.98
58	5.09	5.77	.69	-	.88

GEORGES BANK - SARGASSO SEA 1985

LAT 42 07.2' N LONG 67 02.4' W DATE 11/08/85 GMT 1904

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	2.25	.42	-	.65
11	.21	.00	.61	-	1.85
21	1.05	.10	.66	-	1.23
41	5.15	3.59	.80	-	1.19
51	6.51	4.59	.89	-	1.10

LAT 42 07.2' N LONG 67 02.4' W DATE 11/08/85 GMT 2041

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	2.82	.18	-	.58
10	.00	2.77	.33	-	3.09
20	.44	2.81	.40	-	1.28
30	1.38	3.40	.45	-	1.05
41	3.57	4.46	.58	-	.98
56	5.48	5.26	.77	-	1.41

GEORGES BANK - SARGASSO SEA 1985

LAT 42 07.2' N LONG 67 02.4' W DATE 11/08/85 GMT 2207

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	2.09	.15	-	-
8	.00	2.64	.38	-	-
20	.30	2.81	.54	-	-
31	1.16	3.44	.78	-	-
40	2.93	4.17	.63	-	-
55	3.46	4.42	.68	-	-

LAT 42 07.2' N LONG 67 02.4' W DATE 11/08/85 GMT 2318

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	1.57	.40	-	-
10	.02	1.88	.48	-	-
22	.44	1.86	.54	-	-
30	1.06	2.18	.50	-	-
41	2.13	2.88	.60	-	-

GEORGES BANK - SARGASSO SEA 1985

LAT 41 55.8' N LONG 66 49.2' W DATE 12/08/85 GMT 0153

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
10	.87	1.47	.41	-	-
20	1.05	1.83	.49	-	-
30	1.09	2.05	.54	-	-
40	.95	1.76	.42	-	-
53	1.03	2.11	.51	-	-

LAT 41 55.8' N LONG 66 39.6' W DATE 12/08/85 GMT 0254

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	.74	.41	-	-
10	.00	.71	.34	-	-
21	1.66	1.79	.51	-	-
30	1.92	1.80	.48	-	-
41	2.11	1.92	.61	-	-
62	2.23	1.95	.61	-	-

GEORGES BANK - SARGASSO SEA 1985

LAT 41 55.8' N LONG 66 29.4' W DATE 12/08/85 GMT 0342

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	1.73	.46	-	-
10	1.59	2.62	.55	-	-
20	1.78	2.21	.50	-	-
30	1.94	1.99	.51	-	-
60	4.98	3.43	.60	-	-
75	5.38	3.52	.72	-	-

LAT 41 55.8' N LONG 66 19.2' W DATE 12/08/85 GMT 0433

DEPTH M	NO3 MG AT M-3	SIO3 MG AT M-3	PO4 MG AT M-3	NH3 MG AT M-3	CHL MG M-3
0	.00	.86	-	-	-
16	.00	.85	1.25	-	-
30	1.02	.68	.69	-	-
40	4.81	3.98	.67	-	-
53	5.98	4.78	.75	-	-
66	7.45	5.78	.87	-	-