

*Crook*

# OCEANOGRAPHICAL STATION LIST

VOLUME 52

COASTAL INVESTIGATIONS AT PORT HACKING,  
NEW SOUTH WALES, 1960

DIVISION OF FISHERIES AND OCEANOGRAPHY  
COMMONWEALTH SCIENTIFIC AND INDUSTRIAL  
RESEARCH ORGANIZATION, AUSTRALIA 1963

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Volume 52

Coastal Investigations at Port Hacking,  
New South Wales, 1960

Compiled by A. D. Crooks



Division of Fisheries and Oceanography  
Commonwealth Scientific and Industrial  
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When citing this station list, abbreviate as follows:-  
C.S.I.R.O. Aust. Oceanogr. Sta. List 52

## OCEANOGRAPHICAL STATION LIST

### COASTAL INVESTIGATIONS AT PORT HACKING, NEW SOUTH WALES, 1960

Compiled by A.D. Crooks

#### I. INTRODUCTION

The data presented in this volume were obtained from the regular working of two stations off Port Hacking, by F.R.V. Jay Bee. The position of the Port Hacking 50 m station, is latitude 34°05'S. and longitude 151°13'E.; the depth of water is between 50 and 60 m. The 100 m station is in latitude 34°05'30"S. and longitude 151°15'30"E.; the depth of water is between 100 and 120 m. On July 27, 1960 F.R.V. Derwent Hunter worked stations at greater depths than 100 m. The analyses of the samples taken are listed on the sheets for that date.

#### II. METHODS AND UNITS

##### (a) Hydrology

See C.S.I.R.O. Aust. (1961).

##### (b) Phytoplankton

Water samples were taken with a plastic sampler. In the laboratory the samples were centrifuged, and the phytoplankton examined and counted in two size groups, above and below 20 $\mu$ . The counts are given as log numbers per litre for each sampling depth. Counts of organisms were made with a Petroff Hausser bacterial counting chamber using a Wild BG fluorescence filter, a Wild OG1 exclusion filter, an immersed condenser, and a high power incandescent lamp. The chloroplasts appeared bright red in the blue-violet light. Total particles were counted with ordinary illumination.

##### (c) Pigments

See C.S.I.R.O. Aust. (1961).

##### (d) Zooplankton

The sampler used was a Clarke-Bumpus sampler fitted with a flowmeter and with a net of No. 4 mesh nylon (62 meshes per inch). The duration of hauls at coastal stations was 10-30 minutes, and the usual volume filtered was 5-10 m<sup>3</sup>.

### III. REFERENCE

C.S.I.R.O. Aust. (1961).- Coastal investigations at Port Hacking, New South Wales, 1959. C.S.I.R.O. Aust.  
Oceanogr. Sta. List 47

### IV. PERSONNEL

F.R.V. Jay Bee was the laboratory's launch, based on Cronulla, from which the observations were made, except those on July 27, 1960, made from F.R.V. Derwent Hunter. Sampling was done on Jay Bee by Messrs W. Hebels, C.W. Irving, W. Prothero, and M. Wootton, and on Derwent Hunter by M. Wootton.

The hydrological laboratory analyses were done by Messrs G. Dal Pont, F. Davies, W. Prothero, and C. Walker. The phytoplankton counts were made by Mr E.J.F. Wood. The routine pigment determinations were made by Mr M. Wootton. The zooplankton samples were weighed by Mr D.J. Tranter.

Under the general direction of Mr A.D. Crooks, the data were processed by Mrs Derrick, Mrs Tarbett, Mrs Wood, and Misses M. Johnson, L. Lalor, F. Luce, and E. Wanstall.

### V. DATA SHEETS

The data sheets are arranged in four parts. Part 1 shows the hydrology data, Part 2 records the phytoplankton data, Part 3 shows the data for pigments, and Part 4 shows the zooplankton biomass.

The short vertical lines below certain of the headings indicate the positions of decimal places.

The headings on the data sheets are explained at the beginning of each part.

DATA

PART 1

HYDROLOGY

EXPLANATION OF HEADINGS

Part 1 Hydrology

STATION	The Port Hacking station is designated by the figures 20.
DATE YEAR MONTH DAY	The date is shown as year, month, and day.
TIME	Expressed in hours and minutes; the zone is Eastern Australian Standard Time.
LATITUDE LONGITUDE	The position of each station is given in degrees and minutes.
DEPTH	Actual sampling depth given in m. A blank at the top of this column indicates 0 m.
TEMP.	Sea-water temperatures are recorded in degrees centigrade, to 2 decimal places.
Cl‰	Chlorinities are recorded in parts per thousand to 2 decimal places.
σt	Sigma-t recorded to 2 decimal places.
O2	Oxygen recorded in ml/l to 2 decimal places.
O2 % Sat.	Oxygen percentage saturation.
A blank in any of the next four columns indicates that the sample was not taken or was lost.	
If required a salt correction of 1.15 should be applied to the figures given in the next three columns.	
INORG. P	Inorganic phosphate values are given in µg at./l to 2 decimal places.
PARTIC. P	Particulate phosphate values are given in µg at./l to 2 decimal places.
TOTAL P	Total phosphorus values are given in µg at./l to 2 decimal places.
NITRATE	Nitrate values are given in µg at./l to 1 decimal place.

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20		60	01	05	940	3405 S	15113 E

DEPTH	TEMP.	Cl %.	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	21.90	19.62	24.60	43.5	90	24	44	68	00
20	21.90	19.63	24.62	48.7	101	22	00	32	00
30	21.90	19.64	24.64	44.9	93	23	00	36	00
40	19.55	19.64	24.72	49.7	102	24	00	36	00
50	17.50	19.62	25.75	44.9	69	44	00	60	04
				43.0	82	63	00	76	46

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20		60	01	27	0900	3405 S	15113 E

DEPTH	TEMP.	Cl %.	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	20.90	19.62	24.68	48.5	98	13	11	51	00
20	20.90	19.62	24.68	52.1	105	17	00	31	00
30	20.10	19.63	25.10	51.0	102	15	07	40	00
40	19.50	19.61	25.25	45.7	90	24	00	41	02
50	19.20	19.61	25.33	48.4	95	24	00	64	02
				48.4					

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20		60	02	02	0900	3405 S	15113 E

60 02 02 0900 3405 S 15113 E

DEPTH	TEMP.	Cl ‰	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
21	10	1960	2480	462	94	14	00	46	00
20	95	1963	2490	391	79	17	13	30	00
20	2050	1963	2500	391	79	19	00	39	00
30	1870	1963	2547	435	85	30	19	77	02
40	1675	1963	2595	360	68	43	00	62	18
50	1600	1962	2610	373	69	57	00	60	44

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20		60	02	08	1005	3405 S	15113 E

60 02 08 1005 3405 S 15113 E

DEPTH	TEMP.	Cl ‰	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
22	80	1969	2445	512	107	20	03	61	00
22	60	1969	2451	520	109	16	00	74	00
20	2230	1967	2455	512	106	15	13	67	00
30	2120	1964	2465	512	104	21	09	67	00
40	1910	1964	2538	517	102	26	00	92	00
50	1830	1964	2559	497	96	33	00	00	00



STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20		60	03	08	1000	34 05 S	151 13 E

DEPTH	TEMP.	Cl %.	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	22 00	19 69	24 6 9	527	109	22	14	41	0 0
20	22 10	19 69	24 6 5	513	106	17	12	39	0 0
30	22 00	19 68	24 6 7	530	110	16	44	62	0 0
40	22 00	19 69	24 6 8	523	108	22	34	64	0 0
50	22 00	19 68	24 6 7	513	106	18	73	91	0 0
	19 20	19 65	25 3 7	450	89	27	57	98	1 6

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20		60	03	14	0900	34 05 S	151 13 E

DEPTH	TEMP.	Cl %.	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	21 70	19 72	24 9 0	532	109	18	05	48	0 0
20	21 80	19 71	24 7 6	528	109	16	27	52	0 0
30	21 70	19 70	24 7 5	529	109	18	29	52	0 0
40	21 30	19 68	24 7 7	533	110	15	16	52	0 0
50	18 60	19 62	24 8 7	521	106	21	14	48	0 0
			25 4 7	430	84	55	05	62	5 0

STATION	TEMP.	YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20	60 03 29	1015			3405 S	15113 E	

DEPTH	TEMP.	C <sub>T</sub> ‰	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	21.6 0	19.6 7	24.7 5	4.9 3	10.1	1.2	2.6	5.7	
20	21.6 0	19.6 8	24.7 7	5.1 9	10.7	2.0	0.5	3.3	
30	21.5 0	19.6 8	24.8 1	5.1 4	10.5	1.5	0.0	3.1	
40	21.2 0	19.6 0	24.8 1	5.1 4	10.5	1.9	1.4	3.6	
50	19.3 0	19.6 4	25.3 5	5.1 4	10.5	1.2	0.0	4.3	

STATION	TEMP.	YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20	60 04 05	0945			3405 S	15113 E	

DEPTH	TEMP.	C <sub>T</sub> ‰	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	21.2 0	19.7 0	24.9 1	5.1 4	10.5	2.1	5.6	10.5	0 2
20	21.2 0	19.7 0	24.9 1	5.1 4	10.5	2.1	2.0	6.0	0 0
30	21.1 0	19.6 9	24.9 3	5.1 4	10.4	2.2	2.1	6.0	0 0
40	21.2 0	19.6 9	24.9 1	5.0 4	10.3	1.8	4.4	6.6	0 0
50	20.4 0	19.6 7	25.0 8	5.0 0	10.2	2.0	1.6	6.5	0 0

STATION	TEMP.	YEAR	MONTH	DAY	TIME		LATITUDE	LONGITUDE				
					60	04	14	1135	3405	S	15113	E
20	5											

DEPTH	TEMP.	CL %	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.		INORG. P	PARTIC. P	TOTAL P	NITRATE
					O <sub>2</sub>	% SAT.				
10	20 0	1970	25 02	51 1	104	34	13	69	0	0
10	20 15	1968	25 17	497	100	48	34	83	0	0
20	19 25	1967	25 38	452	89	56	18	83	0	0
30	18 50	1967	25 57	414	81	87	22	109	2	4
40	18 45	1967	25 58	442	86	62	14	76	1	4
50	17 80	1964	25 71	401	77	82	0	99	3	6

STATION	TEMP.	YEAR	MONTH	DAY	TIME		LATITUDE	LONGITUDE				
					60	04	20	0900	3405	S	15113	E
20												

DEPTH	TEMP.	CL %	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.		INORG. P	PARTIC. P	TOTAL P	NITRATE
					O <sub>2</sub>	% SAT.				
10	20 35	1979	25 26	465	94	41	11	60	0	0
10	20 25	1979	25 29	492	99	49	07	56	0	0
20	20 40	1980	25 26	446	90	45	10	56	0	0
30	19 63	1974	25 38	452	90	46	24	77	0	0
40	19 60	1974	25 39	458	91	79			0	0
50	19 60	1975	25 40	446	89	112			0	0

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20		60	04	27	0900	3405 S	15113 E

DEPTH	TEMP.	Cl ‰	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	19.20	1974	2550	46.9	93	4.1	1.0	8.0	0.4
20	19.20	1974	2550	46.9	93	3.8	2.1	10.1	0.4
30	19.22	1974	2550	47.4	94	3.7	2.2	8.6	0.2
40	19.18	1972	2548	47.7	94	3.7	3.2	9.4	0.2
50	18.80	1970	2555	47.7	94	4.0	2.3	9.4	0.4
60	15.55	1970	2633	47.7	88	4.4	1.5	7.5	0.4

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20		60	05	03	0900	3405 S	15113 E

DEPTH	TEMP.	Cl ‰	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	18.40	1974	2570	46.9	91	3.1	2.6	8.8	1.4
20	18.40	1975	2571	49.0	95	3.1	2.6	8.4	0.6
30	18.35	1974	2571	48.6	94	3.1	2.6	9.9	1.0
40	18.20	1975	2575	47.7	92	3.1	2.6	11.3	1.0
50	18.20	1972	2572	45.8	89	2.7	3.0	8.4	1.4
60	18.20	1972	2572	47.7	92	3.7	1.1	10.1	1.2

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20		60	05	11	0921	3405 S	15113 E

DEPTH	TEMP.	Cl %.	$\sigma_t$	$O_2$	% SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	21.60	19.78	24.90	48.9	99	23			
10	21.55	19.80	24.94	48.3	99	16			
20	21.50	19.81	24.96	47.4	97	16			
30	21.50	19.80	24.95	47.1	97	13			
40	21.20	19.80	25.04	50.4	103	17			
50	20.60	19.81	25.15	51.3	104	23			

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20		60	05	31	0900	3405 S	15113 E

DEPTH	TEMP.	Cl %.	$\sigma_t$	$O_2$	% SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	18.25	19.76	25.75	53.3	103	37	00	43	00
20	18.30	19.80	25.80	52.9	103	44	00	45	00
30	18.20	19.77	25.76	51.1	99	45	05	50	00
40	18.20	19.76	25.77	51.1	99	39	10	49	02
50	17.70	17.75	25.88	51.1	98	30	16	54	02
						38	08	58	04

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20		60	06	08	0900	3405	S 15113 E

DEPTH	TEMP.	Cl %.	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	17.58	19.77	25.93	5.40	10.3	3.5	3.8	7.3	0.4
10	17.62	19.79	25.95	5.35	10.3	3.4	1.9	7.5	0.4
20	17.60	19.79	25.96	5.03	9.6	3.5	2.2	7.7	0.6
30	17.60	19.78	25.95	5.34	10.2	3.3	1.2	7.1	0.6
40	17.60	19.77	25.93	5.19	9.9	4.3	4.6	1.0	0.6
50	17.40	19.77	25.97	5.35	10.2	4.5	1.6	10.2	0.6

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20		60	06	15	0900	3405	S 15113 E

DEPTH	TEMP.	Cl %.	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	16.55	19.75	26.17	5.26	9.9	2.8	5.6	9.2	1.4
10	16.60	19.76	26.16	5.30	10.0	2.8	6.2	9.9	1.2
20	16.60	19.75	26.15	5.43	10.2	2.9	4.4	9.7	1.0
30	16.55	19.75	26.17	5.26	9.9	3.8	4.2	8.8	1.8
40	16.55	19.75	26.17	4.73	8.9	3.0	3.9	9.2	1.8
50	16.55	19.75	25.17	5.38	10.1	3.1	4.2	7.6	1.0

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE		
20		60	07	19	0900	3405 S	15113 E		
DEPTH	TEMP.	C <sub>1</sub> %	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	1770	1980	2594	442	85	26	17	61	4
10	1740	1977	2597	507	97	26	19	71	06
20	1702	1977	2607	482	91	25		63	02
30	1700	1978	2610	514	97	21	33	69	04
40	1685	1976	2610	501	95	23	16	67	04
50	1660	1975	2615	501	94	28	33	71	06

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE		
20		60	07	26	0900	3405 S	15113 E		
DEPTH	TEMP.	C <sub>1</sub> %	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	1770	1979	2599	494	95	24		28	61
10	1780	1979	2591	532	102	25		76	06
20	1770	1979	2594	482	93	25		29	04
30	1750	1976	2597	507	97	24		58	06
40	1720	1976	2605	501	95	34		33	01
50	1740	1975	2596			34		27	11

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE		
20		60	07	26	0900	3405 S	15113 E		
DEPTH	TEMP.	C <sub>1</sub> %	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	1790	1979	2599	494	95	24		28	61
10	1780	1979	2591	532	102	25		76	06
20	1770	1979	2594	482	93	25		29	04
30	1750	1976	2597	507	97	24		58	06
40	1720	1976	2605	501	95	34		33	01
50	1740	1975	2596			34		27	11

STATION	TIME			LATITUDE	LONGITUDE
	YEAR	MONTH	DAY		
20	60	08	03	0900	3405 S 15113 E

DEPTH	TEMP.	Cl %.	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	16.92	1974	26.06	520	98	28	20	69	24
10	16.95	1974	26.05	454	86	35	23	65	22
20	16.87	1975	26.09	465	88	36	07	61	26
30	16.80	1973	26.08	488	92	36	09	67	24
40	16.75	1974	26.10	482	91	33	10	95	24

STATION	TIME			LATITUDE	LONGITUDE
	YEAR	MONTH	DAY		
20	60	08	17	0900	3405 S 15113 E

DEPTH	TEMP.	Cl %.	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	16.80	1970	26.04	502	95	47	25	88	36
10	16.70	1970	26.07	502	94	50	12	26	42
20	16.60	1970	26.09	498	93	46	28	94	39
30	16.60	1970	26.09	512	96	47	41	26	35
40	16.60	1970	26.09	518	97	48	12	94	29
50	16.46	1968	26.10	502	94	50	30	114	31

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE		
20		60	08	24	0900	3405 S	15113 E		
DEPTH	TEMP.	Cl %	σt	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	17.40	19.73	25.93	5.22	100	3.1	3.6	6.7	2.1
10	17.30	19.73	25.96	5.16	98	2.8	3.0	6.6	1.4
20	17.20	19.73	25.99	5.19	99	2.5	4.3	7.4	1.4
30	17.10	19.71	25.99	5.10	97	3.1	3.7	7.2	1.7
40	16.90	19.70	26.02	5.19	98	2.6	4.0	6.2	1.9
50	16.80	19.70	26.05	5.19	98	2.6	4.0	7.4	1.4

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE		
20		60	08	31	0900	3405 S	15113 E		
DEPTH	TEMP.	Cl %	σt	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	17.40	19.71	25.91	5.47	104	3.1	3.0	6.1	0.8
10	17.00	19.72	26.02	5.40	102	3.1	2.1	5.6	1.4
20	16.80	19.71	26.06	5.18	98	3.2	4.1	7.3	2.3
30	16.55	19.67	26.05	5.40	101	4.6	1.2	6.0	4.2
40	16.35	19.65	26.10	4.70	88	4.8	2.6	6.6	4.7
50	16.10	19.64	26.13	4.63	86	5.2	2.2	9.4	4.9

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
		60	09	07	0900	3405	S 15113 E
20							

DEPTH	TEMP.	Cl %.	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	16.70	19.67	26.02	5.46	1.03	.52	0.0	5.8	1.2
20	16.60	19.67	26.04	5.46	1.03	4.4	0.8	6.4	1.6
30	16.57	19.67	26.05	5.39	1.01	3.5	2.1	6.2	1.6
40	16.28	19.69	26.15	5.89	1.10	5.7	0.0	5.7	1.1
50	15.98	19.62	26.12	4.77	8.8	5.2	1.4	7.0	5.5
	14.95	19.55	26.24	4.49	8.1	8.9	0.4	9.3	6.8

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
		60	09	13	0900	3405	S 15113 E
20							

DEPTH	TEMP.	Cl %.	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	16.75	19.71	26.06	5.52	1.04	2.7	3.3	6.0	0.5
20	16.62	19.72	25.11	5.56	1.05	3.2	2.2	5.4	1.1
30	16.42	19.70	26.14	5.38	1.01	3.9	0.7	6.0	1.5
40	15.74	19.69	26.19	5.19	9.7	4.2	0.8	6.0	2.0
50	15.50	19.65	26.22	4.98	9.2	5.8	1.5	7.3	2.0
		19.68	26.33	5.30	9.7	4.1	0.7	6.4	3.3

STATION	YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20	60	09	22	0900	3405 S	15113 E

DEPTH	TEMP.	Cl %	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	1710	1967	2592	543	103	29	35	64	1 1
10	1650	1969	2610	543	102	27	23	68	1 4
20	1640	1968	2611	526	99	31	23	74	1 5
30	1635	1967	2610	525	98	31	31	84	2 0
40	1625	1966	2611	516	96	34	24	76	2 3
50	1630	1966	2610	520	97	28	44	76	2 2

STATION	YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20	60	09	27	0900	3405 S	15113 E

DEPTH	TEMP.	Cl %	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	1705	1972	2600	558	106	23	21	48	0 0
10	1710	1971	2598	567	108	23	19	42	0 0
20	1630	1966	2610	548	102	37	25	74	1 6
30	1550	1961	2621	520	95	48	28	80	2 9
40	1480	1956	2628	471	85	65	0 3	88	3 8
50	1410	1952	2637	425	76	82	1 6	100	3 9

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20		60	10	04	0900	3405 S	15113 E

DEPTH	TEMP.	Cl %	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	17.30	19.74	25.96	56.5	10.6	1.2	2.6	6.4	0.8
20	17.30	19.74	25.96	56.5	10.6	1.3	2.1	4.6	0.6
30	17.30	19.73	25.95	53.4	10.2	3.0	1.2	7.4	0.7
40	17.10	19.73	25.96	55.1	10.5	1.5	2.3	3.8	0.5
50	16.95	19.73	26.00	55.1	10.5			4.1	0.5
			26.04	56.5	10.7	2.4	0.2	4.4	0.6

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20		60	10	11	0900	3405 S	15113 E

DEPTH	TEMP.	Cl %	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	17.55	19.72	25.87	52.9	10.1	1.9	2.5	6.4	
20	17.50	19.72	25.89	56.1	10.7	1.7	3.5	5.8	0.7
30	17.30	19.69	25.91	49.9	9.5	2.0	3.2	6.0	0.6
40	16.65	19.68	26.05	54.5	10.2	3.8	1.4	5.8	1.8
50	16.45	19.67	26.08	49.2	9.2	4.1	2.1	6.8	2.2
			26.09	48.5	9.0	5.2	0.0	7.2	3.0

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20		60	10	26	0900	3405 S	15113 E

DEPTH	TEMP.	Cl %.	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	18.65	19.51	25.26	53.2	104	23	13	46	
20	18.55	19.60	25.46	51.9	101	24	18	50	0 8
30	18.45	19.60	25.49	53.2	103	30	10	44	
40	17.68	19.61	25.69	46.5	93	39	17	76	1 3
50	15.70	19.61	26.17	40.8	75	72	0 0	100	7 6
				40.4	74				6 4

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20		60	11	01	0900	3405 S	15113 E

DEPTH	TEMP.	Cl %.	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	18.95	19.61	25.38	52.7	103	18	59	77	
20	18.65	19.66	25.52	53.3	104	24	0 0	56	
30	18.34	19.65	25.59	47.7	92	23	0 0	70	
40	17.54	19.63	25.76	46.3	89	31	0 0	74	
50	16.58	19.63	25.99	42.9	80	50	0 0	68	5 2
				41.0	75	61	0 0	70	9 2

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20		60	11	08	0900	3405	S 15113 E

DEPTH	TEMP.	Cl ‰	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	1915	1971	2547	536	106	20	14	58	
10	1895	1971	2552	539	106	21	13	70	
20	1895	1970	2551	530	104	18	20	62	
30	1890	1970	2552	530	106	18	20	58	
40	1880	1970	2555	533	105	18	20	56	
50	1880	1968	2552	519	102	20	18	54	

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20		60	11	15	0900	3405	S 15113 E

DEPTH	TEMP.	Cl ‰	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	1930	1969	2541	530	105	14	24	62	
10	1882	1971	2555	524	103	15	40	55	
20	1875	1970	2556	506	99	16	42	58	
30	1760	1965	2577	467	89	35	29	66	
40	1741	1970	2589	525	100	18	44	70	
50	1680	1971	2556	524	99	17	29	46	

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE		
DEPTH	TEMP.	Cl %.	$\sigma_t$	$O_2$	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
20		60	11	22	0900	3405 S	15113 E		

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE		
DEPTH	TEMP.	Cl %.	$\sigma_t$	$O_2$	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	19.00	1963	2540	460	90	21	0.9	5.4	0 0
10	18.55	1969	2560	496	97	20	0.0	5.8	0 0
20	16.90	1967	2597	455	86	46	0.0	5.0	4 6
30	16.20	1965	2611	444	83	56	1.6	9.2	7 2
40	15.80	1964	2619	450	83	58	2.0	9.4	6 3
50	14.95	1958	2628	449	81	62	2.6	9.0	8 3

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE		
DEPTH	TEMP.	Cl %.	$\sigma_t$	$O_2$	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
20		60	12	07	0900	3405 S	15113 E		

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE		
DEPTH	TEMP.	Cl %.	$\sigma_t$	$O_2$	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	19.05	1972	2551	548	108	13	1.3	4.9	0 0
10	18.23	1968	2566	558	105	15	0.0	8.3	0 0
20	18.27	1968	2565	548	106	15	0.3	4.7	0 4
30	18.15	1967	2566	543	105	15	1.0	4.0	0 2
40	18.10	1966	2565	543	105	17	0.0	4.5	0 3
50	17.96	1966	2569	528	102	21	0.4	4.7	0 4

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20		60	12	13	0900	3405 S	15113 E

DEPTH	TEMP.	Cl %	$\sigma_t$	$O_2$	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	18.25	19.62	25.56	4.86	9.4	1.4	0.0	6.6	0.0
20	17.95	19.61	25.62	5.03	9.7	1.5	1.3	4.3	0.0
30	17.90	19.62	25.65	5.02	9.7	1.7	1.5	4.3	0.0
40	17.85	19.63	25.68	5.25	1.01	1.7	0.2	4.5	0.0
50	17.55	19.64	25.77	5.08	9.7	2.3	0.7	7.5	1.0
60	17.20	19.63	25.84	4.92	9.4	3.1	1.6	6.3	2.2

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20		60	12	21	0900	3405 S	15113 E

DEPTH	TEMP.	Cl %	$\sigma_t$	$O_2$	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	19.80	19.35	23.43	5.70	1.12	1.6	5.0	7.9	0.1
20	18.00	19.46	25.40	5.32	1.02	1.0	4.8	9.0	0.1
30	17.65	19.47	25.50	5.25	9.9	1.2	5.8	8.7	0.1
40	17.65	19.48	25.52	5.30	1.01	1.0	5.4	7.2	0.1
50	17.69	19.60	25.63	5.20	1.00	1.0	5.4	7.2	0.1
60	18.00	19.62	25.62	5.30	1.02	1.2	4.6	6.4	0.1

STATION	TIME			LATITUDE		LONGITUDE	
	YEAR	MONTH	DAY				
20	60	01	06	10 40	34 05	S	15 11 15 E

DEPTH	TEMP.	Cl %.	$\sigma_t$	O <sub>2</sub>		% SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
				O <sub>2</sub>	% SAT.					
10	22 48	19 71	24 58	500	10 4	13	0 9	2 2	0 2	0 2
20	22 12	19 73	24 71	496	10 3	22	1 6	3 8	0 0	0 0
30	22 07	19 74	24 73	496	10 3	21	0 0	2 1	0 0	0 0
40	21 80	19 75	24 62	484	10 0	17	0 0	1 7	0 0	0 0
50	17 12	19 63	25 67	439	6 3	56	0 6	4 6	4 2	2 2
50	15 97	19 62	26 12	439	6 1	55	2 2	9 5	5 6	5 6
75	15 15	19 56	26 20	400	7 3	78	9 8	9 8	9 8	9 8
100	14 97	19 55	26 23	394	7 1	79	9 6	9 6	9 6	9 6

STATION	TIME			LATITUDE		LONGITUDE	
	YEAR	MONTH	DAY				
20	60	01	27	9 00	34 05	S	15 11 15 E

DEPTH	TEMP.	Cl %.	$\sigma_t$	O <sub>2</sub>		% SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
				O <sub>2</sub>	% SAT.					
10	21 65	19 63	24 70	515	10 6	10	4 2	7 8	0 0	0 0
20	21 42	19 63	24 65	505	10 3	10	4 7	5 7	0 0	0 0
20	20 06	19 64	24 67	490	9 8	12	4 3	5 5	0 0	0 0
30	19 70	19 60	25 16	493	9 8	14	4 7	6 1	0 0	0 0
40	18 22	19 60	25 55	512	9 9	20	6 0	6 2	0 0	0 0
50	17 00	19 60	25 65	493	9 3	25	4 1	7 1	0 0	0 0
75	15 20	19 53	26 15	312	5 7	61	2 3	9 4	0 0	0 0
100	14 30	19 50	26 30	311	5 6	73	2 3	10 0	1 0	1 0

STATION	YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
	60	02	03	0900	3405	15115 E
20						

DEPTH	TEMP.	Cl %	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	21.60	19.63	24.65	5.20	10.6	2.5	3.0	5.5	0
20	21.70	19.63	24.68	5.12	10.5	2.2	2.9	5.1	0
30	20.40	19.63	25.03	5.35	10.6	2.4	2.9	5.3	0
40	18.90	19.62	25.40	5.20	10.2	4.6	1.1	5.7	0
50	19.00	19.62	25.36	5.25	10.3	2.8	1.2	6.5	0
75	18.10	19.61	25.59	4.50	8.7	3.6	3.3	6.7	0
100	16.40	19.61	26.00	4.35	8.1	5.8	2.1	7.9	2
	15.30	19.58	26.20	4.35	7.9	6.5	1.7	9.6	5

STATION	YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
	60	02	10	1025	3405	15115 E
20						

DEPTH	TEMP.	Cl %	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	22.10	19.71	24.68	5.29	11.0	1.4	0.3	5.8	0
20	22.00	19.71	24.71	5.31	11.0	1.4	0.0	5.4	0
30	22.00	19.71	24.71	5.20	10.8	1.5	0.0	5.1	0
40	21.60	19.70	24.75	5.17	10.7	1.6	0.0	6.4	0
50	19.80	19.68	25.27	5.39	10.7	2.1	0.0	5.2	0
75	17.70	19.66	25.76	4.66	9.3	3.4	0.6	4.8	0
100	16.40	19.63	26.04	4.23	7.9	6.7	0.0	6.4	0

STATION	YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
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DEPTH	TEMP.	Cl %	$\sigma_t$	$\sigma_2$	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	19.71	4.94	51.2	1.06	1.2	0.4	3.7	3.9	0000000006
20	19.72	4.74	51.2	1.06	2.0	0.0	5.0	6.6	0000000004
30	19.71	4.79	4.50	9.3	1.2	0.0	2.4	2.4	0000000002
40	19.69	2.500	4.50	9.1	1.4	1.2	3.9	3.9	0000000002
50	19.95	1.968	2.522	4.85	9.7	2.5	0.0	4.5	0000000002
75	17.90	1.966	2.571	4.56	8.8	4.7	1.1	5.8	0000000002
100	16.20	1.963	2.609	4.29	8.0	6.4	2.4	8.8	0000000006

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
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DEPTH	TEMP.	C <sub>T</sub> %	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10						2470			
20						2550			
30						2640			
40						2600			
50						2520			
75						2500			
100						2400			
						2300			

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
		60	03	09	1030	3405	S 15115 E
20							

DEPTH	TEMP.	Cl %	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	22.50	1972	24.57	51.2	107	25	14	39	0
20	22.20	1971	24.65	49.1	102	18	02	27	0
30	22.20	1970	24.64	50.7	105	14	09	32	0
40	20.90	1969	24.61	51.8	108	15	18	27	0
50	17.80	1965	25.72	49.2	100	15	30	51	02
75	15.70	1958	26.13	45.7	88	30	20	66	16
100	13.40	1951	26.51	42.0	77	54	54	6	0

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
		60	03	15	0920	3405	S 15115 E
20							

DEPTH	TEMP.	Cl %	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	21.80	1970	24.75	53.8	111	15	16	34	0
20	21.80	1969	24.73	52.1	107	20	00	32	0
30	21.40	1971	24.76	51.8	107	20	00	34	0
40	18.40	1966	24.89	52.1	107	15	00	34	0
50	16.60	1959	25.56	45.3	88	47	00	47	16
75	14.90	1956	25.93	42.7	60	63	00	63	46
100	14.20	1953	25.26	42.7	77	63	00	63	62

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE	
20		60	03	24	1015	3405 S	15115 E	
DEPTH	TEMP.	Cl %.	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	TOTAL P	NITRATE
2180	1970	2477	519	107	10	1.2	4.3	0.0
10	1971	2479	525	108	15	1.0	5.0	0.0
20	1972	2478	519	107	05	0.9	3.6	0.0
30	1972	2480	519	107	06	0.0	3.3	0.0
40	1973	2513	519	105	10	0.9	4.0	0.6
50	1968	2560	457	89	21	1.7	5.2	0.0
75	1961	2625	430	79	48	0.0	7.1	1.0
100	1956	2643	433	77	50	2.6	9.0	1.2

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE	
20		60	03	30	0900	3405 S	15115 E	
DEPTH	TEMP.	Cl %.	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	TOTAL P	NITRATE
2180	1970	2475	514	106	17	2.6	4.3	0.0
2160	1969	2480	504	105	17	1.6	3.5	0.0
2170	1970	2478	514	106	15	1.4	3.1	0.0
2160	1970	2480	504	105	15	1.5	2.8	0.0
1980	1966	2523	463	92	25	1.5	4.3	0.0
1850	1966	2557	457	89	34	0.9	5.2	0.0
1710	1962	2585	404	77	6.0	0.0	7.1	0.0
1600	1956	2607	410	76	7.5	2.0	9.5	0.0

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE		
DEPTH	TEMP.	Cl %.	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
20	60	04	13	0854	3405	S	15115	E	

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE		
DEPTH	TEMP.	Cl %.	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	2090	1968	2499	505	102	34	10	49	00
20	2090	1968	2499	505	102	05	14	53	00
30	2030	1968	2514	502	101	32	43	83	06
40	1890	1970	2552	432	85	32	47	105	24
50	1840	1969	2564	407	79	45	09	79	36
75	1834	1968	2564	414	80	41	42	114	42
100	1715	1964	2587	395	75	61	00	71	76
				2615	401	74	46	17	105

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE		
DEPTH	TEMP.	Cl %.	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
20	60	04	19	1020	3405	S	15115	E	

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE		
DEPTH	TEMP.	Cl %.	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	2210	1964	2483	477	99	037	000	048	00
20	2210	1984	2483	477	99	029	000	047	00
30	2200	1984	2486	482	100	37	007	046	00
40	2180	1979	2486	492	102	026	015	047	00
50	2090	1979	2510	477	97	041	006	047	00
75	1990	1976	2534	458	92	052	018	070	00
100	1980	1972	2532	417	83	061	009	070	32
				2579	401	77	074	007	084

STATION	YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE			
DEPTH	TEMP.	Cl %.	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
20	60	04	26	1000	3405	S	15115	E	

DEPTH	TEMP.	Cl %.	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	2020	1978	2530	499	100	19	19	48	00
20	2010	1976	2530	510	102	19	33	58	00
30	2000	1976	2532	510	102	23	14	59	00
40	1940	1974	2545	499	100	26	29	84	00
50	1885	1971	2555	486	96	38	68	67	02
75	1780	1966	2574	428	82	57	16	94	26
100	1640	1962	2602	424	79	73	03	76	42

STATION	YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE			
DEPTH	TEMP.	Cl %.	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
20	60	05	1	0914	3405	S	15115	E	

DEPTH	TEMP.	Cl %.	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	2115	1981	2507	502	102	102	102	32	
20	2115	1981	2507	502	102	102	102	14	
30	2100	1981	2511	504	103	103	103	19	
40	2020	1979	2531	502	101	101	101	12	
50	1980	1979	2540	502	101	101	101	14	
75	1860	1973	2564	477	93	100	100	21	
100	1855	1972	2564	455	89	89	89	26	

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE			
20		60	05	04	0900	3405	S	15115	E	
DEPTH	TEMP.	C1	%	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
100	17.00	19.62	25.68	4.52	8.6	5.3	0.0	0.4	0.4	0
75	17.40	19.65	25.82	4.77	9.1	4.8	1.3	0.7	1.0	0
50	18.70	19.72	25.60	4.74	9.3	3.1	2.3	1.2	4.3	0.2
40	19.25	19.75	25.50	5.10	10.1	1.6	1.2	0.3	0.3	0
30	19.35	19.77	25.49	5.23	10.3	1.9	0.9	0.9	0.9	0
20	19.30	19.77	25.50	5.23	10.3	1.9	0.9	0.9	0.9	0
10	19.50	19.77	25.45	5.17	10.3	2.1	0.9	0.9	0.9	0
	19.60	19.77	25.42	4.99	9.9	1.9	2.0	2.0	2.0	0

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE			
20		60	05	24	1030	3405	S	15115	E	
DEPTH	TEMP.	C1	%	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
100	17.00	19.62	25.63	4.53	8.6	5.3	0.0	0.4	0.4	0
75	17.40	19.65	25.82	4.77	9.1	4.8	1.3	0.7	1.0	0
50	18.70	19.72	25.60	4.74	9.3	3.1	2.3	1.2	4.3	0.2
40	19.25	19.75	25.50	5.10	10.1	1.6	1.2	0.3	0.3	0
30	19.35	19.77	25.49	5.23	10.3	1.9	0.9	0.9	0.9	0
20	19.30	19.77	25.50	5.23	10.3	1.9	0.9	0.9	0.9	0
10	19.50	19.77	25.45	5.17	10.3	2.1	0.9	0.9	0.9	0
	19.60	19.77	25.42	4.99	9.9	1.9	2.0	2.0	2.0	0

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE			
20		60	05	24	1030	3405	S	15115	E	
DEPTH	TEMP.	C1	%	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
100	17.00	19.62	25.63	4.53	8.6	5.3	0.0	0.4	0.4	0
75	17.40	19.65	25.82	4.77	9.1	4.8	1.3	0.7	1.0	0
50	18.70	19.72	25.60	4.74	9.3	3.1	2.3	1.2	4.3	0.2
40	19.25	19.75	25.50	5.10	10.1	1.6	1.2	0.3	0.3	0
30	19.35	19.77	25.49	5.23	10.3	1.9	0.9	0.9	0.9	0
20	19.30	19.77	25.50	5.23	10.3	1.9	0.9	0.9	0.9	0
10	19.50	19.77	25.45	5.17	10.3	2.1	0.9	0.9	0.9	0
	19.60	19.77	25.42	4.99	9.9	1.9	2.0	2.0	2.0	0

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE			
20		60	05	24	1030	3405	S	15115	E	
DEPTH	TEMP.	C1	%	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
100	17.00	19.62	25.63	4.53	8.6	5.3	0.0	0.4	0.4	0
75	17.40	19.65	25.82	4.77	9.1	4.8	1.3	0.7	1.0	0
50	18.70	19.72	25.60	4.74	9.3	3.1	2.3	1.2	4.3	0.2
40	19.25	19.75	25.50	5.10	10.1	1.6	1.2	0.3	0.3	0
30	19.35	19.77	25.49	5.23	10.3	1.9	0.9	0.9	0.9	0
20	19.30	19.77	25.50	5.23	10.3	1.9	0.9	0.9	0.9	0
10	19.50	19.77	25.45	5.17	10.3	2.1	0.9	0.9	0.9	0
	19.60	19.77	25.42	4.99	9.9	1.9	2.0	2.0	2.0	0

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE		
DEPTH	TEMP.	C <sub>1</sub> %	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
20	60	06	02	1030	3405	S	15115	E	
	1830	1976	2575	507	98	20	35	68	1 0
	1835	1976	2575	502	97	33	13	55	1 0
20	1820	1975	2576	507	98	24	38	73	0 8
30	1820	1975	2576	518	100	31	20	64	1 2
40	1820	1974	2575	542	105	22	22	68	1 2
50	1820	1977	2578	534	103	30	16	66	0 8
75	1820	1975	2576	537	104	39	9	57	1 0
100	1600	1961	2610	411	76	56	12	84	6 4

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE		
DEPTH	TEMP.	C <sub>1</sub> %	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
20	60	06	07	1025	3405	S	15115	E	
	1875	1978	2591	498	96	39	46	93	0 0
	1770	1980	2594	526	101	40	05	65	0 0
20	1770	1977	2590	503	97	35	12	132	0 6
30	1770	1977	2590	524	101	34	00	91	0 6
40	1770	1977	2590	505	97	50	09	122	0 4
50	1770	1976	2589	514	99	35	28	106	0 6
75	1770	1973	2585	506	97	44	01	47	1 0
100	1560	1962	2620	458	84	63	16	67	7 4

STATION	TEMP.	YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20	6.0	06	14		0900	3405 S	15115 E

DEPTH	TEMP.	Cl %	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	16.70	1972	2609	526	99	31	49	117	00
	16.65	1974	2612	526	99	28	45	130	00
20	16.70	1974	2611	530	100	27	57	105	144
	16.70	1974	2611	521	98	31	38	96	114
30	16.70	1974	2611	526	99	37	28	76	08
40	16.70	1975	2613	526	99	26	43	99	00
50	16.70	1975	2613	526	99	26	32	37	00
75	16.65	1974	2612	530	100	25	32	37	00
100	16.65	1976	2615	545	102	23	34	96	00

STATION	TEMP.	YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20	6.0	06	30		0957	3405 S	15115 E

DEPTH	TEMP.	Cl %	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	18.00	1985	2584	545	105	30	02	61	44
	18.00	1979	2586	543	105	27	08	48	04
20	18.25	1980	2581	542	105	31	14	58	22
30	18.10	1980	2594	554	107	21	16	97	42
40	17.20	1979	2606	549	104	32	09	69	04
50	16.70	1978	2617	552	104	30	15	02	44
75	16.15	1976	2628	555	104	33	00	52	06
100	15.80	1976	2635	554	102	37	00	65	00

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20		60	06	23	09 45	34 05 S	151 15 E

DEPTH	TEMP.	Cl ‰	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	16.20	197.4	26.24	54.3	10.1			8.6	0.6
20	16.20	197.3	26.23	54.5	10.1			7.6	1.2
30	16.20	197.3	26.25	54.9	10.2			9.4	1.0
40	16.20	197.2	26.23	54.3	10.1			9.7	1.4
50	16.20	197.2	26.21	54.5	10.1			1.13	0.8
75	16.20	197.1	26.20	54.2	10.0			9.0	1.0
100	16.20	197.2	26.21	53.4	9.9			1.55	1.4
								1.07	1.0

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20		60	07	07	09 45	34 05 S	151 15 E

DEPTH	TEMP.	Cl ‰	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	16.90	55.3	3.1	2.5	9.7			0.0	2.0
20	16.80	55.3	2.1	1.5	5.6			0.0	0.4
30	16.90	56.8	2.2	0.8	5.8			0.0	6.0
40	16.60	54.1	2.3	1.6	5.4			0.0	6.0
50	16.10	52.5	4.3	1.1	5.8			2.6	6.0
75	15.80	4.94	4.6	4.6	7.4			3.8	2.6
100	16.60	53.9	4.2	0.1	5.2			1.2	6.0
		48.2	5.3	0.0	6.1			0.0	6.0

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
		60	07	22	0950	3405 S	15115 E

DEPTH	TEMP.	Cl %.	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
1820	18.00	19.79	25.81	5.07	98	27	2.1	6.5	0.6
10	17.80	19.77	25.83	5.17	100	35	1.7	6.1	0.6
20	17.60	19.76	25.87	5.14	99	34	1.4	5.8	0.6
30	17.70	19.75	25.89	5.14	99	34	1.6	6.3	0.6
40	17.60	19.75	25.91	5.20	100	33	0.0	6.1	0.4
50	17.35	19.73	25.95	5.14	98	34	0.9	4.3	0.6
75	16.20	19.70	26.19	5.07	94	4.3	0.2	5.6	1.6
100	15.40	19.67	26.32	4.94	91	5.7	0.1	7.4	2.2

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
		60	07	27	3405 S	15134 E	

DEPTH	TEMP.	Cl %.	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
1880	18.80	19.83	2.570	5.12	100	100	7.0	4.9	4.9
25	1880	19.83	2.570	5.08	100	4.3			
50	1800	19.77	2.584	4.96	96	55			
75	1700	19.69	2.599	4.64	88	67			
100	1420	19.52	2.634	4.29	77	15.1			
150	1380	19.52	2.642	4.64	8.2	8.3			
200	1380	19.55	2.646	4.61	8.2	8.5			
300	1285	19.49	2.659	4.61	8.0	8.9			
375	1060	19.34	2.681	4.42	7.3	2.81			

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20	0	60	07	27			

3405 S 15115 E

DEPTH	TEMP.	Cl %	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
1850	1980	2565	512	99					52
1830	1980	2580	517	101					62
1835	1980	2578							59
20	1970	2583	505	97					86
30	1970	2592	479	91					71
40	1970	2610	461	86					97
50	1964	2610	499	86					84
75	1964	2620	502	93					84
100	1969								

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20	2	60	07	27			

3405 S 15121 E

DEPTH	TEMP.	Cl %	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
1850	1983	2577	514	100					35
1860	1982	2576	514	100					65
20	1980	2575	505	99					34
30	1975	2584	517	100					53
40	1974	2587	491	94					62
50	1971	2595	473	90					68
75	1963	2620	434	80					61
100	1967	2636	471	86					106
125	1965	2631	482	88					90

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
DEPTH	TEMP.	CL %.					
20	3	60	07	27		34 05 S	151 25 E

STATION	DEPTH	TEMP.	CL %.	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	1865	1981	2571	512	100	43				65
20	1870	1981	2570	517	101	55				53
30	1865	1979	2569	517	101	50				56
40	1730	1974	2596	520	99	40				59
50	1800	1974	2580	485	94	59				68
75	1770	1961	2569	482	92	76				103
100	1570	1961	2617	429	79	76				107
135	1490	1963	2634	467	84	94				95
	1490	1963	2634	471	85	70				114

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
DEPTH	TEMP.	CL %.					
20	0	60	07	27		34 05 S	151 30 E

STATION	DEPTH	TEMP.	CL %.	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	1870	1981	2570	505	99	64				55
25	1860	1963	2570	509	100	61				66
50	1840	1977	2574	509	99	98				58
75	1800	1973	2584	473	91	90				71
100	1700	1955	2575	429	81	84				111
125	1760	1953	2559	435	83	70				116
150	1700	1953	2575	444	84	88				105
175	1760	1953	2559	479	90	92				95
200	1730	1953	2567	455	87	98				105

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
		60	07	27	0900	3405	15115 E
20							

DEPTH	TEMP.	Cl %.	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	16.30	19.81	25.77	5.25	10.2	0.7	3.2	9.2	0.0
20	16.40	19.80	25.77	5.21	10.1	0.7	3.7	7.1	0.0
30	16.30	19.80	25.80	5.14	10.0	0.9	2.1	4.3	0.0
40	17.55	19.71	25.87	5.75	11.2	0.9	2.6	4.8	0.2
50	16.90	19.68	26.00	4.68	9.1	2.8	1.5	4.3	1.2
75	16.00	19.68	26.21	5.07	9.4	4.0	2.1	7.6	2.8
100	15.60	19.66	26.22	5.4	9.4	5.4	0.0	5.4	0.0

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
		60	08	02	0950	3405	15115 E
20							

DEPTH	TEMP.	Cl %.	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	16.90	19.79	26.13	5.75	10.9	2.2	3.0	6.2	4.4
20	16.80	19.73	26.09	5.75	10.8	3.2	0.9	5.2	2.2
30	16.80	19.71	26.09	5.20	9.8	3.6	0.7	5.0	2.2
40	16.70	19.72	26.09	4.64	8.8	3.2	0.7	5.0	2.2
50	16.50	19.72	26.14	5.07	9.5	3.5	0.8	5.2	2.8
75	16.40	19.68	26.12	4.94	9.2	5.0	0.0	6.3	3.6
100	15.30	19.62	26.27	4.54	8.3	5.3	0.3	6.2	7.0

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20		60	08	3	0900	3405	S 15115 E

DEPTH	TEMP.	Cl %	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	16.80	19.71	26.06	5.11	9.6	3.2	3.0	6.4	0.1
10	16.80	19.71	25.06	5.33	10.1	4.2	1.4	6.6	0.1
20	16.80	19.71	26.06	5.24	9.9	4.5	2.1	6.6	0.1
30	16.80	19.71	26.06	5.24	9.9	3.6	3.0	6.6	0.1
40	16.80	19.71	26.06	5.19	9.8	4.3	3.0	7.5	0.1
50	16.75	19.70	26.06	5.10	9.6	5.0	1.5	6.5	0.1
75	16.75	19.66	26.00	4.76	9.0	4.6	1.6	6.6	0.3
100	15.40	19.60	26.22	4.38	8.0	6.6	0.4	6.4	0.3

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20		60	08	23	1012	3405	S 15115 E

DEPTH	TEMP.	Cl %	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	16.20	19.78	25.80	5.26	10.2	2.3	0.0	4.2	0.8
10	16.30	19.78	25.78	5.26	10.2	2.4	1.0	4.2	0.8
20	19.25	19.78	25.79	5.26	10.2	2.4	1.4	3.6	0.8
30	17.95	19.76	25.83	5.20	10.0	2.6	1.2	5.2	1.0
40	17.40	19.71	25.91	5.15	9.6	2.6	4.2	7.6	1.6
50	17.20	19.77	25.03	5.90	1.12	1.9	3.5	5.6	0.6
75	16.70	19.68	26.05	5.18	9.7	2.9	2.1	5.6	2.2
100	16.00	19.68	26.09	5.16	9.7	2.9	2.9	6.2	1.6

STATION	YEAR	MONTH	DAY	TIME		LATITUDE		LONGITUDE	
				0900	0900	3404	S	15115	E
20	60	09	06						

DEPTH	TEMP.	Cl %	$\sigma_t$	$\sigma_2$		% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
				O <sub>2</sub>	% O <sub>2</sub> SAT.					
10	16.65	1968	2601	547	103	25	35	60	0	0
	16.65	1970	2603	549	104	25	33	56	0	5
20	16.75	1970	2506	552	104	22	26	58	0	7
30	16.80	1969	2604	528	100	27	19	52	0	7
40	16.70	1969	2606	546	103	27	29	56	0	5
50	16.30	1966	2610	492	92	42	14	66	3	1
7.5	15.15	1957	2623	432	79	65	21	94	3	7

STATION	YEAR	MONTH	DAY	TIME		LATITUDE		LONGITUDE	
				0900	0900	3405	S	15115	E
20	60	09	14						

DEPTH	TEMP.	Cl %	$\sigma_t$	$\sigma_2$		% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
				O <sub>2</sub>	% O <sub>2</sub> SAT.					
10	16.55	1966	2604	564	106	40	02	48	1	3
16.70	1972	2610	552	104	64	00	64	0	1	3
20	16.55	1970	2610	584	109	41	05	50	2	1
30	16.40	1969	2613	520	97	67	00	67	2	5
40	16.10	1966	2615	507	94	47	09	56	3	5
50	15.55	1960	2619	474	87	77	02	79	3	9
7.5	15.19	1955	2619	454	83	101	00	101	4	6
100	13.80	1950	2641	426	76	105	00	105	4	6

STATION	TIME			LATITUDE		LONGITUDE	
	YEAR	MONTH	DAY				
20	60	09	21	0900	3405	S	15115 E

DEPTH	TEMP.	Cl %.	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	18.10	1973	2576	536	104	29	23	52	11
10	17.80	1975	2586	533	103	30	16	46	13
20	17.65	1975	2590	546	105	28	16	46	11
30	17.30	1972	2594	543	103	32	14	58	13
40	16.90	1970	2602	543	103	30	16	48	13
50	16.40	1967	2609	533	100	36	18	62	16
75	16.15	1965	2613	525	98	43	23	72	25
100	15.10	1960	2628	454	83	67	17	84	36

STATION	TIME			LATITUDE		LONGITUDE	
	YEAR	MONTH	DAY				
20	60	09	29	0900	3405	S	15115 E

DEPTH	TEMP.	Cl %.	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	17.60	1973	2588	585	112	10	32	44	00000
10	17.55	1973	2589	582	111	13	31	58	00000
20	17.35	1973	2594	584	111	17	31	50	00000
30	17.30	1973	2596	580	110	16	66	94	00000
40	16.40	1969	2613	545	102	29	70	00000	00000
50	16.10	1966	2615	514	96	36	34	78	20000
75	14.30	1953	2634	435	76	79	21	100	30000
100	13.60	1950	2645	422	75	59	45	116	40000

STATION	TEMP.	YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20	60 10 05 .0900					3405 S	15115 E

DEPTH	TEMP.	Cl %	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	17 50	1975	2593	545	104	20	12	62	2
10	17 40	1974	2595	546	105	19	15	52	0 6
20	17 40	1974	2595	546	104	17	29	48	0 4
30	17 35	1974	2596	538	103	17	21	48	0 4
40	17 38	1975	2595	546	104	18	26	52	0 4
50	17 35	1974	2596	557	106	18	24	46	0 6
75	15 58	1962	2620	470	86	50	6	68	4 4
100	13 12	1946	2650	425	74	80	17	97	1 1

STATION	TEMP.	YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
20	60 10 12 0900					3405 S	15115 E

DEPTH	TEMP.	Cl %	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	17 45	1975	2595	545	104	25	0	0	3 6
10	17 37	1972	2593	551	105	24	0	0	4 6
20	17 30	1972	2594	545	104	27	0	3	3 6
30	17 35	1972	2594	551	105	28	10	38	
40	17 20	1971	2596	539	102	31	0	42	0 5
50	16 02	1964	2614	445	83	55	0	62	4 4
75	14 45	1954	2632	415	75	68	0	68	9 0
100	13 25	1950	2652	435	76	92	0	94	8 9

STATION	YEAR			MONTH	DAY	TIME	LATITUDE	LONGITUDE
20.	60	10	27			0900	3405 S	15115 E

DEPTH	TEMP.	Cl %.	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	19.60	1958	25.16	53.9	107	1.5	4.1	6.0	1.8
20	19.30	1963	25.33	53.9	107	1.8	3.7	5.5	
30	18.80	1966	25.49	54.5	107	1.6	6.4	8.0	
40	18.40	1966	25.59	52.9	103	1.7	7.1	8.8	
50	17.80	1967	25.75	46.3	93	3.8	12.	7.4	1.3
75	16.75	1964	25.96	45.5	86	3.8	4.4	8.8	4.4
100	15.80	1957	26.09	41.5	76	6.8	1.6	10.8	7.5
	14.80	1955	26.26	39.3	71	8.4	2.0	11.0	9.8

STATION	YEAR			MONTH	DAY	TIME	LATITUDE	LONGITUDE
20	60	11	02			0900	3405 S	15115 E

DEPTH	TEMP.	Cl %.	$\sigma_t$	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	PARTIC. P	TOTAL P	NITRATE
10	18.72	1960	25.42	54.2	106	1.8	0.6	5.6	
20	18.80	1962	25.43	52.7	103	1.9	0.3	7.0	
30	18.80	1967	25.50	53.0	104	1.9	1.5	5.4	
40	17.80	1966	25.74	50.7	98	2.7	0.0	5.6	
50	16.80	1962	25.93	42.9	81	5.5	0.0	9.8	
75	16.75	1962	25.94	42.9	81	5.5	1.7	8.0	5.4
100	15.25	1955	26.16	40.3	74	7.1	0.0	7.1	8.7
	15.10	1954	26.16	39.6	72	7.9	0.0	12.2	7.6

STATION	YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE		
20	60	11	09	0900	3405 S	15115 E		
DEPTH	TEMP.	Cl %.	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	TOTAL P	NITRATE
10	19.05	19.68	25.46	55.0	10.8	2.2	0.2	4.2
10	18.95	19.68	25.49	54.3	10.7	2.4	0.8	5.2
20	18.65	19.68	25.56	53.6	10.5	2.7	0.0	4.0
30	18.60	19.68	25.57	53.0	10.3	2.2	0.8	5.4
40	18.60	19.68	25.57	53.0	10.3	3.0	0.0	6.4
50	18.55	19.68	25.58	51.9	10.1	3.4	0.0	7.4
75	17.60	19.62	25.72	47.2	9.0	4.3	0.0	6.4
100	15.15	19.52	26.15	39.5	7.2	7.6	0.0	6.2

STATION	YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE		
20	60	11	16	0900	3405 S	15115 E		
DEPTH	TEMP.	Cl %.	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P	TOTAL P	NITRATE
10	19.90	19.72	25.30	53.3	10.7	2.1	0.0	4.0
10	18.81	19.73	25.58	53.0	10.4	2.3	0.9	5.6
20	18.80	19.72	25.57	52.4	10.3	1.7	0.0	4.8
30	18.70	19.73	25.61	52.4	10.3	2.0	0.0	3.2
40	18.00	19.68	25.72	4.64	9.3	2.7	0.0	4.4
50	16.30	19.61	26.04	4.30	6.0	5.3	0.0	6.2
75	15.90	19.62	26.14	4.55	6.4	5.4	0.0	6.4
100	15.55	19.59	26.18	4.39	6.1	6.3	0.0	6.9

STATION	YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
	60	11	23	0900	3405	S 15115 E

DEPTH	TEMP.	Cl %.	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P.	PARTIC. P.	TOTAL P	NITRATE
10	19.40	19.62	25.28	4.70	93	1.4	4.6	7.4	
20	19.00	19.64	25.41	5.19	102	1.5	3.7	5.2	
30	18.10	19.67	25.67	5.24	101	2.1	0.5	5.4	
40	17.10	19.69	25.95	4.72	90	3.4	0.6	4.6	
50	16.30	19.66	26.10	4.55	85	5.1	0.0	1.0	6.3
75	14.60	19.57	26.33	4.49	83	5.3	2.4	7.7	5.3
100	14.15	19.54	26.39	4.49	81	6.4	0.0	1.0	6.3

STATION	YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
	60	12	08	0900	3405	S 15115 E

DEPTH	TEMP.	Cl %.	σ <sub>t</sub>	O <sub>2</sub>	% O <sub>2</sub> SAT.	INORG. P.	PARTIC. P.	TOTAL P	NITRATE
10	18.70	19.78	25.66	5.48	107	2.3	0.6	4.9	0.0
20	18.60	19.77	25.68	5.56	109	2.1	0.0	4.0	0.0
30	18.52	19.77	25.70	5.43	106	1.6	0.0	4.9	0.0
40	18.41	19.76	25.71	5.36	104	1.6	0.9	3.6	0.0
50	17.30	19.73	25.95	4.83	92	4.0	0.0	7.6	3.0
75	16.70	19.73	26.10	4.71	89	4.7	0.0	4.7	3.7
100	15.70	19.67	26.26	4.59	85	5.9	0.0	9.0	5.7
1471	19.64	26.42	4.40	7.9	5.9	0.0	0.0	8.7	8.7

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
DEPTH	TEMP.	Cl %.	$\sigma_t$	$O_2$	% SAT.		
20		60	12	14	0900	3405	S 15115 E
10	18.95	19.61	25.38	5.43	10.6	1.1	2.7
20	18.10	19.63	25.62	5.36	10.4	1.2	2.6
30	18.20	19.63	25.60	5.19	1.01	1.6	0.4
40	17.60	19.64	25.75	5.10	9.8	2.1	0.1
50	17.30	19.65	25.84	4.74	9.0	3.3	0.1
60	16.65	19.66	26.02	4.57	8.6	3.9	1.6
75	15.70	19.65	26.23	4.54	8.4	5.1	0.0
100	13.80	19.55	26.48	4.57	8.1	6.9	0.0

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
DEPTH	TEMP.	Cl %.	$\sigma_t$	$O_2$	% SAT.		
20		60	12	22	0900	3405	S 15115 E
10	18.80	19.13	24.76	5.49	10.7	1.0	2.7
20	18.20	19.60	25.56	5.40	10.5	1.0	2.6
30	17.91	19.58	25.60	5.30	1.02	1.0	3.1
40	17.60	19.58	25.63	5.20	1.00	0.0	3.1
50	17.80	19.58	25.63	5.26	1.01	0.1	2.5
75	15.40	19.60	26.22	4.53	8.3	6.9	0.0
100	14.25	19.56	26.43	4.64	8.7	7.8	2.2

STATION		YEAR	MONTH	DAY	TIME	LATITUDE	LONGITUDE
DEPTH	TEMP.	Cl %.	$\sigma_t$	$O_2$	% SAT.		
20		60	12	22	0900	3405	S 15115 E
10	18.80	19.13	24.76	5.49	10.7	1.0	2.7
20	18.20	19.60	25.56	5.40	10.5	1.0	2.6
30	17.91	19.58	25.60	5.30	1.02	1.0	3.1
40	17.60	19.58	25.63	5.20	1.00	0.0	3.1
50	17.80	19.58	25.63	5.26	1.01	0.1	2.5
75	15.40	19.60	26.22	4.53	8.3	6.9	0.0
100	14.25	19.56	26.43	4.64	8.7	7.8	2.2

DATA

PART 2

PHYTOPLANKTON

EXPLANATION OF HEADINGS

Part 2 Phytoplankton

STATION	The Port Hacking station is designated by the figures 20.
DATE YEAR MONTH DAY	The date is shown as year, month, and day.
LATITUDE LONGITUDE	The position of each station is given in degrees and minutes.
DEPTH	Actual sampling depths are given in m. A blank at the top of this column indicates 0 m.
ORGANISMS $<20\mu$ $>20\mu$	Counts are recorded of organisms under $20\mu$ and over $20\mu$ as log numbers per l for each sampling depth.
TOTAL PARTICLES	Counts are recorded of all observable particles, as log numbers per l for each sampling depth.

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	2	16	3405	S 15113 E

20 60 2 16 3405 S 15113 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
5000	5780		7400
5300	6600		6880
50	5000	6040	6480

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	2	22	3405	S 15113 E

20 60 2 22 3405 S 15113 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
5300	6110		6380
5000	6280		7040
50	5000	6110	6800

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	3	08	34 05 S	151 13 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20	4300	4470	5600
50	4700		5400

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	3	30	3405 S	15113 E

20 60 3 30 3405 S 15113 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20			5300
50			6970
			5740
			6150

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	4	20	3405 S	15113 E

20 60 4 20 3405 S 15113 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
1			5480
20			5700
50			5950
			6910
			6480
			5150

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	4	27	3 405	S 15113 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20			5200
50			5150

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	5	03	3 405	S 15113 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20			6690
50			5180

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	5	11	3405 S	15113 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20	5400	5040	
	5600	6380	
50	4300	6460	

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	6	08	3405 S	15113 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20	6480	6610	
	6690	6560	
50	7110	6620	

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	6	15	3405 S	15113 E

20           60     6    15

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20	6600	6600	6740
50	6580	6580	6860
	6600	6420	

20           6600    6600    6740  
50           6580    6580    6860  
            6600    6420

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	7	19	3405 S	15113 E

20           60     7    19

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20	6450	5280	6040
50	6590	5280	6590
	6590		5280

20           6450    5280    6040  
50           6590    5280    6590  
            6590    5280

STATION	YEAR	MONTH	DAY	LATITUDE		LONGITUDE	
				60	7	25	3 40 5 S 15 11 3 E
20							

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20/ $\mu$	>20/ $\mu$	
6940	6940		6730
6890	6890		6670
6800	6800		5800
50			

STATION	YEAR	MONTH	DAY	LATITUDE		LONGITUDE	
				60	8	03	3 40 5 S 15 11 3 E
20							

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20/ $\mu$	>20/ $\mu$	
5780	5780	5700	6300
6000	6000	5480	6110
6000	6000	5300	6000
50			

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	6	17	3405	15113 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
5000	6720	6510	
20	6630	6610	
50	6580	6580	

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	6	24	3405	15113 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
5950	5950	6750	
5080	5080	6640	
5740	5740	6040	

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	8	30	3405 S	15113 E

20 60 8 30 3405 S 15113 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20	6420	5720	
	6580	6940	
50	5080	5880	

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	9	07	3405 S	15113 E

20 60 9 07 3405 S 15113 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
5000	6540	6880	
5480	6300	6810	
5000	5600	6950	

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	9	13	3405	8 15113 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20	5250	6390	6970
50	5980	5200	5260

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	9	21	3405	9 15113 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20	5000	5280	6860
50	5480	6430	6320
		6460	6170

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	9	27		3405 S	15113 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20	5000	5000	6590
50	5970	6340	6660
		5040	6640

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	10	04		3405 S	15113 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20	5000	5480	6810
50	5000	6810	6460
	5000	5150	6830

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	10	12	3405 S	15113 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20	6850	5570	
50	5230	6690	
	6970	6700	

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	10	26	3405 S	15113 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20	5870	6620	
50	5200	5900	
	5600	6830	

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	11	01	3405 S	15113 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20	5230	6040	
50	6760	6140	
	5140	6570	

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	11	22	3405 S	15113 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20	4070	3900	
50	4690	6040	
	4300	5690	

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	12	08	3405	15113 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
3390	4690		6970
3690	5740		6390

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	12	13	3405	15113 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
5300	5380		6550
5600	5610		6490
5300	5610		6780

STATION		YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20		60	2	10	3405	9 15115 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
4530	6320		6470
4470	5170		6470
4000	5600		6440

STATION		YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20		60	2	17	3405	9 15115 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
5470	6110		6690
5300	6510		6040
4000	5770		6690

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	2	23	3405 S	15115 E

DEPTH	ORGANISMS		TOTAL PARTICLES	
	<20 $\mu$	>20 $\mu$		
5600	6110		6770	
5000	6270		6690	
50	5000		5770	

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	3	09	3405 S	15115 E

DEPTH	ORGANISMS		TOTAL PARTICLES	
	<20 $\mu$	>20 $\mu$		
5300			5950	
5640			6390	
5170			6110	

STATION		YEAR	MONTH	DAY	LATITUDE		LONGITUDE	
					3 4 0 5	S	1 5 1 1 5	E
20		6 0	3 1 5					

DEPTH	ORGANISMS		TOTAL PARTICLES	
	< 20 $\mu$	> 20 $\mu$		
20	5170	4390	6000	
50		5790	6230	
		4230	6840	

STATION		YEAR	MONTH	DAY	LATITUDE		LONGITUDE	
					3 4 0 5	S	1 5 1 1 5	E
20		6 0	3 2 9					

DEPTH	ORGANISMS		TOTAL PARTICLES	
	< 20 $\mu$	> 20 $\mu$		
20	5390	5690	5000	
50				
			6040	
			6110	
			6460	

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	4	05	3405 S	15115 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	< 20 $\mu$	> 20 $\mu$	
20	5650	5170	6820
50	6900	6520	6900

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	4	13	3405 S	15115 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	< 20 $\mu$	> 20 $\mu$	
20	6410	6440	6410
50	6410	6440	6410

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	4	19	3405 S	15115 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
0	5540	6630	

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20'	60	4	26	3405 S	15115 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20	6660	6360	
50	5000		

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	5	04	3405 S	15115 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20			6110
50			5200

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	5	10	3405 S	15115 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20			6490
50			5170

STATION		YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20		60	5	24	3405 S	15115 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20	5410		6320
	6440		6590
50	6490		6730

STATION		YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20		60	6	02	3405 S	15115 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20	5170		6490
	5950		6320
50	6410		6360

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	6	07	3405 S	15115 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20	6500	6320	
	6440	6490	
50	6530	6640	

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	6	14	3405 S	15115 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20	6390	5690	
	6710	6390	
50	6460	5140	

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	6	23	3405 S	15115 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20	6360		6910
	6440		6490
50	6410		6570

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	6	30	3405 S	15115 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20	6930		6440
	6110		6660
50	5270		6040

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	7	07	3405	S 15115 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20	6360		5840
	6800		6340
50	5690		5680

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	7	22	3405	S 15115 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20	5280		6650
	6740		6430
50	6680		6700

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	7	27	3405 S	15115 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20	6950	6540	
50	6740	6560	
	5690	6590	

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	8	02	3405 S	15115 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20	5470	6540	
50	5470	6250	
	5690	6470	

STATION		YEAR	MONTH	DAY	LATITUDE		LONGITUDE	
					6 0	8 0 6	3 4 0 5	S 1 5 1 1 5 E
20								

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
5300	6320		6380
20	5140		6530
50	6430		6660

STATION		YEAR	MONTH	DAY	LATITUDE		LONGITUDE	
					6 0	8 1 6	3 4 0 5	S 1 5 1 1 5 E
20								

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20	6440		7200
50	6670		6830
	6630		6460

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	8	23	3405 S	15115 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20μ	>20μ	
20	5000	5250	6460
50	5000	6550	6700

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	8	31	3405 S	15115 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20μ	>20μ	
20	5040	5900	6950
50	5870	6410	6410

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	9	06	34°03' S	151°15' E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
5300	6320		6380
5000	5140		6550
50	5000	6510	6680

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	9	14	34°05' S	151°15' E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
5300	6510		5950
5000	6680		6440
50	5040		6610

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	9	22		3405	S 15115 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20	5000	5770	6970
50	5600	5230	6140
		6360	6980

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	9	29		3405	S 15115 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20	5300	5540	6900
50	5600	6550	6950
	5300	6630	6780

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	10	05	3405 S	15115 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
5000	6740		6040
5000	5040		6970
20	6430		6710
50			

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	10	11	3405 S	15115 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
5000	5490		6730
5000	5380		6660
20	6360		6660
50			

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	10	27	3405 S	15115 E

DEPTH	ORGANISMS		TOTAL PARTICLES (cf. ml.)
	<20 $\mu$	>20 $\mu$	
20	5470		
	5170		

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	11	02	3405 S	15115 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20	6390		6940
50	5040		6790
	5650		6040

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	11	23	3405	9 15 11 5 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	< 20 $\mu$	> 20 $\mu$	
20	5300		5690
	5650		5710
50	5000		5470

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	12	08	3405	9 15 11 5 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	< 20 $\mu$	> 20 $\mu$	
20	5690	5900	6740
	5870	5680	6980
50	5440		6470

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	12	14	3405 S	15115 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
0	5000	5040	5230
20	5690	5410	6080
50	5690	5540	6710

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	2	02	3405 S	15113 E

DEPTH	ORGANISMS		TOTAL PARTICLES
	<20 $\mu$	>20 $\mu$	
20	4600	5930	6650
50	5300	5440	6600
50	3300	5170	6620

DATA

PART 3

PIGMENTS

EXPLANATION OF HEADINGS

Part 3 Pigments

STATION	The Port Hacking station is designated by the figures 20.
DATE YEAR MONTH DAY	The date is shown as year, month, and day.
LATITUDE LONGITUDE	The position of each station is given in degrees and minutes.
DEPTH	Actual sampling depths are given in m. A blank at the top of this column indicates 0 m.
CHLOROPHYLL <u>a</u> <u>b</u> <u>c</u>	Chlorophyll <u>a</u> and <u>b</u> are given in mg/m <sup>3</sup> , and chlorophyll <u>c</u> in MSPU/m <sup>3</sup> , to 2 decimal places.
ASTACIN NON-ASTACIN	Astacin and non-astacin are given in MSPU/m <sup>3</sup> to 2 decimal places.
An asterisk in the body of the table indicates that a negative value was found. A blank indicates that the value was zero.	

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	1 05		34 05 S	15113 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
55	1.0	6.7	8	2.1	
57	1.0	6.9	1.3	1.4	
53	1.0	9.9	1.5	1.1	
35		9	1.4	8	
30		4.3	1.1	8	
40	1.0	7.8	2.2	5	
50	1.0				
44					

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	1 27		34 05 S	15113 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
77	4.8	25.6	3.8	30	
70	3.6	22.5	3.5	30	
20	4.3	3.2	1.7	2.4	23 *
30	1.9	1.1	2.0	2.6	34
40	1.2	1.5	2.0	2.6	34
50	1.4	2.6	2.5	3.3	1.3

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	2	02		3405	S 15113 E

DEPTH	CHLOROPHYLL			NON ASTACIN	
	a	b	c	ASTACIN	NON ASTACIN
54	9	68		9	11
10	99	12	84	16	28
20	66	14	73	11	19
30	57	2*	114	4	24
40	45	7*	104	7	14
50	39	2*	98	7	10

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	2	06		3405	S 15113 E

DEPTH	CHLOROPHYLL			NON ASTACIN	
	a	b	c	ASTACIN	NON ASTACIN
45	38	239		10	5
30	16	103		7	2
40	23	123		7	14
50	30	100		8	8

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	2	16		3405 S	15113 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
25	6	37	8	4	
37	7	42	11	8	
59	6	64	9	15	
10				25	
20				27	
30	10	81	8		
67	13	76	12		
63				17	
40				7	
50	9	67	7	10	
42					

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	2	22		3405 S	15113 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
67	13	38	11	24	
37	7	40	5	17	
35	6	45	8	10	
10					
20					
30	5	29	4	14	
34	5	39	5	12	
40	5	54	11	14	
50	9				
44					

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	3	08		3405 S	15113 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
10	2.3	4	3.8	9	3
16	1.6	4	2.0	6	4
20	1.0	1	2.0	5	7
30	1.0	5	2.7	5	5
40	5.7	7	6.4	8	1.8
50	4.5	7	4.2	7	1.4

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	3	17		3405 S	15113 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
10	4.34	2.2*	3.00	25	1.12
20	5.52	2.5*	3.83	36	1.31
30	4.83	2.3*	2.69	35	1.15
40	4.84	1.4*	3.35	33	1.25
50	2.24	1*	1.62	25	52
	1.65	4	1.36	26	37

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	3	29		3405	S 15113 E

DEPTH	CHLOROPHYLL			NON ASTACIN
	a	b	c	
87	16	68	13	28
90	10	51	16	29
110	16	96	24	32
137	15	117	19	43
130	16	68	23	37
40	17	92	24	22
50	97			

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	4	05		3405	S 15113 E

DEPTH	CHLOROPHYLL			NON ASTACIN
	a	b	c	
87	3*	112	6	36
84	5*	125	7	35
87	5*	126	7	33
83	10	66	7	28
83	9	60	7	28
68	11	58	9	15

STATION		YEAR	MONTH	DAY	LATITUDE		LONGITUDE	
20		60	4	20			3405	S 15113 E

DEPTH	CHLOROPHYLL			ASTACIN		NON ASTACIN	
	a	b	c				
40	4.5	5	25	1	1.7		
70	7.3	7	26	4	2.5		
20	5.5	6	26	6	1.9		
30	6.7	11	49	6			
40	7.1	14	45	6	2.1		
50	6.8	22	69	12	1.7		
						1.9	

STATION		YEAR	MONTH	DAY	LATITUDE		LONGITUDE	
20		60	4	27			3405	S 15113 E

DEPTH	CHLOROPHYLL			ASTACIN		NON ASTACIN	
	a	b	c				
50	5.5	6	48	8	1.8		
56	6	28		6	1.6		
54	6	36		6	1.4		
50	6	44		6	1.3		
41	6	56		6	1.0		
42	1	39		6			

STATION		YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20		60	5	03	3405 S	15113 E

DEPTH	CHLOROPHYLL			NON ASTACIN	
	a	b	c	ASTACIN	ASTACIN
98	22	71	9	19	19
91	19	70	7	20	
90	21	56	7	19	
20	23	67	8	23	
30	105	25	92	11	16
40	100	25	94	11	19
50	98	24			

STATION		YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20		60	5	11	3405 S	15113 E

DEPTH	CHLOROPHYLL			NON ASTACIN	
	a	b	c	ASTACIN	ASTACIN
36	4	37	2	17	
36	5	31	3	14	
40	6	35	3	17	
30	81	10	48	7	29
40	81	14	77	9	25
50	54	9	37	5	18

STATION		YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20		60	6	01	3405 S	15113 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
9.2	1.5	7.8		4	3.1
9.2	1.6	4.4		5	3.0
9.2	2.0	6.4		4	3.1
8.0	1.5	5.3		7	2.3
6.9	1.5	4.3		7	1.9
4.0	1.5	3.8		6	1.5
5.0	6.2				

STATION		YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20		60	6	08	3405 S	15113 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
7.9	1.5	7.5		7.5	3.2
6.8	1.1	5.8		5.8	2.7
5.2	1.0	6.6		6.6	2.7
5.7	1.2	5.2		5.2	2.5
6.2	1.8	10.5		10.5	1.8

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	6	15		3405 S	15113 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
6.3	1.2	4.6		5	2.8
7.3	1.0	4.1		6	2.3
6.6	1.2	4.1		6	2.2
7.1	6	3.8		5	2.4
6.3	9	3.6		6	1.8

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	6	22		3405 S	15113 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
7.2	3	4.6		3	2.3
10.2	1.3	1.04		1.3	2.0
10.3	1.1	1.23		1.1	2.2
8.7	1.2	1.12		6	3.2
9.5	9	9.5		7	2.4
8.4	1.2	1.05		1.2	1.8

STATION	YEAR	MONTH	DAY	LATITUDE		LONGITUDE	
20	60	7	26			3405 S	15113 E

DEPTH	CHLOROPHYLL			ASTACIN		NON ASTACIN	
	a	b	c				
61	3			59	5	19	
76	2			70	5	29	
58	4			66	6	22	
72	1			61	4	24	
61	3			63	6	19	
54	5			43	5	10	

STATION	YEAR	MONTH	DAY	LATITUDE		LONGITUDE	
20	60	8	03			3405 S	15113 E

DEPTH	CHLOROPHYLL			ASTACIN		NON ASTACIN	
	a	b	c				
76	6			47	7	21	
73	4			40	6	22	
76	6			46	6	20	
98	1*			64	6	24	
111	3			64	10	25	
118	3			69	11	23	

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	8	17		3405 S	15113 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	A	b	c		
167	13*	131	4		61
204	2*	150	10		60
283	5*	193	14		80
30	3*	103	5		46
40	5*	96	3		44
50	2*	142	13		51

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	8	24		3405 S	15113 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	A	b	c		
80	3	58	7		22
101	61	61	9		23
126	4	86	14		23
30	124	89	14		24
40	136	2*	90	14	25
50	136	2	95	15	23

STATION	YEAR	MONTH	DAY	LATITUDE		LONGITUDE
				3 4 0 5	S	
20	60	8	31			1 5 1 1 3 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
10	109	1*	66	9	31
10	135		66	13	32
20	126	1	97	11	31
30	79		59	10	19
40	42	4	38	9	6
50	36	5	38	9	4

STATION	YEAR	MONTH	DAY	LATITUDE		LONGITUDE
				3 4 0 5	S	
20	60	9	07			1 5 1 1 3 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
10	169		139	16	42
10	185	3*	122	17	45
20	177		141	17	45
30	153		113	21	32
40	98	3	67	17	15
50	114	1*	60	17	20

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	9	13	3405 S	15113 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
168	3	157	8	64	64
170	4	148	8	64	64
163	3	137	10	56	56
20	5	70	12	20	20
30	5	58	12	13	13
40	9	90	14	11	11
50	9				

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	9	22	3405 S	15113 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
173	3	146	18	36	36
165	4	141	19	34	34
172	3	130	17	37	37
174	4	135	20	39	39
180	10	176	24	42	42
180	14	182	22	39	39

STATION		YEAR	MONTH	DAY	LATITUDE		LONGITUDE	
20		60	10	11	34 05	S	15113	E
DEPTH		CHLOROPHYLL			ASTACIN		NON ASTACIN	
	a	b	c					
10	95			69	11		36	
10	125	2		104	12		91	
20	320	30		75	16		55	
30	129	13		204	17		43	
40	89	12		133	13		28	
50	70	10		120	13		22	

  

STATION		YEAR	MONTH	DAY	LATITUDE		LONGITUDE	
20		60	10	26	34 05	S	15113	E
DEPTH		CHLOROPHYLL			ASTACIN		NON ASTACIN	
	a	b	c					
10	47	5		17	6		18	
10	44	2		75	13		10	
20	41	3		60	8		11	
30	33	5		66	11		4	
40	28	6		55	9		6	
50	35	7		60	13		2	

STATION		YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20		60	11	01	3405	S 15113 E

DEPTH	CHLOROPHYLL			NON ASTACIN
	a	b	c	
10	153	4	151	17
20	154	1*	126	55
30	106	3	114	54
40	62	3	90	74
50	42	2	57	36
	16	2	38	16
			5	2

STATION		YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20		60	11	08	3405	S 15113 E

DEPTH	CHLOROPHYLL			NON ASTACIN
	a	b	c	
10	87	30	190	5
20	77	26	124	29
30	101	34	114	23
40	120	16	88	38
50	127	18	94	18
	97	12	57	27
			9	22

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	11	22	34 05 S	151 13 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
9.6	0	1 0 0		1 1	3 0
8.0	3	7 5		1 0	2 2
5.4	1 1	8 6		1 2	1 1
2.0				1 0	
3.0	5	4 9		1 0	4
4.0	5	4 4		8	2
5.0	2 2	7	5 5	9	1

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	12	07	34 05 S	151 13 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
1.9	4	1 2 4		9	4 0
1.6	3	1 7 1		1 6	4 6
2.0	2 4	2 2 6		2 4	6 0
3.0	2 8	3 *	2 7 6	2 6	6 2
4.0	2 9	4 *	3 1 1	2 8	6 1
5.0	2 6	3 *	2 3 9	2 1	6 1

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	12	13	34 05 S	151 13 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
10	19.3	1.0	1.21	2.3	0.6
20	24.1	1.96	3.5	6.2	
30	16.4	3 *	1.49	3.0	5.2
40	19.1	1.7 *	1.47	2.2	7.2
50	16.9	4 *	1.53	2.0	5.1
	15.6	6 *	1.57	1.9	4.8

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	12	21	34 05 S	151 13 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
10	15.6	1.8	2.35	3.1	1.8
20	5.7	1.9	1.33	1.8	
30	8.2	1.4	1.37	1.6	6
40	6.6	2	1.25	1.2	9
50	3.2	1.0	0.77	1.1	1
	3.5	6.8	6.8	6	6

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	1	06			

60 1 06 3405 S 15115 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
10	1.4	2	37	6	6
20	1.7	2*	25	2	10
30	1.3	2	43	3	6
40	4.6	6	19	4	6
50	3.1	2	67	6	16
75	1.6	3	36	5	11
100	1.8	1*	27	6	1*
			28	6	

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	1	28			

60 1 28 3405 S 15115 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
10	3.1	1.0	1.68	1.8	6
20	3.0	6	0.4	1.6	2*
30	1.9	2.2	1.33	2.0	2
40	4.7	2.2	1.27	1.8	
50	7.3	2.4	1.63	2.3	5
75	2.22	4.5	4.07	6.8	2.2
100	4.5	2.3	3.8	1.5	4
	1.5	1.3	9	8	2

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STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	2	03		3405	S 15115 E

DEPTH	CHLOROPHYLL			C	ASTACIN	NON ASTACIN
	a	b	c			
20	7 *	123	9			*
25	1 *	139	12			4
43	1 *	139	12			4
30	27	174	4			39
66	20	124	2			31
72	19	134	1			37
100	6	2	2			2

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	2	10		3405	S 15115 E

DEPTH	CHLOROPHYLL			C	ASTACIN	NON ASTACIN
	a	b	c			
22	5	31	7			4
23	5	45	8			3
27	5	48	8			4
32	10	49	16			1
40	8	40	5			12
50	9	60	6			7
75	11	50	9			5
100	17	42	9			1

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	2	17			

3405 S 15115 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
40	4.2	1.0	4.9	7	1.6
50	5.0	7	6.2	8	2.3
20	5.2	9	4.6	6	1.7
30	4.4	1.0	5.9	7	1.4
40	4.1	6	4.8	7	1.5
50	3.7	1.0	6.7	9	1.1
75	1.5	7	3.7	6	1
100	1.2	7	4.7	6	1

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	2	23			

3405 S 15115 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
10	2.6	5	3.6	6	6
20	2.1	4	2.7	5	6
30	2.0	6	3.7	5	6
40	3.0	7	3.4	6	7
50	3.4	1.0	4.5	6	7
75	2.8	1.0	4.5	7	5
100	1.1	3	2.4	5	1.1

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
10	1.0	5	3.6	6	6
20	2.0	4	2.7	5	6
30	2.0	6	3.7	5	6
40	3.4	1.0	4.5	6	7
50	2.8	1.0	4.5	7	5
75	1.1	3	2.4	5	1.1
100	0.8	5	2.0	3	*

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	3	09	3405 S	15115 E
DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
10	12	5	21	4	2
20	6	5	17	4	1
30	9	4	15	4	2
40	17	6	34	4	4
50	50	8	44	6	13
58	58	7	67	8	14
75	9	5	33	4	
100	5	5	18	4	1 *

  

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	3	15	3405 S	15115 E
DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
10	194	3*	125	9	59
20	221	5*	167	9	62
30	32	4	44	3	12
40	74	4	63	4	28
50	70	11	59	5	27
55	55	12	49	6	17
75	14	25	25	4	
100	4	3	31	4	1 *

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	3	24	3 40 5 S	15 11 5 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
10	29	7	43	6	11
20	33	6	42	5	13
30	29	8	36	3	12
40	46	15	45	4	16
50	69	18	62	4	32
60	69	30	91	6	30
75	14	7	23	3	3
100	10	4	17	4	

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	3	30	3 40 5 S	15 11 5 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
10	37	7	47	6	6
20	36	7	46	7	10
30	38	7	48	7	9
40	40	8	46	4	11
50	98	18	96	10	25
60	59	12	63	11	10
75	12	8	36	4	1
100	13	3	25	5	1

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	4	12	34 05 S	151 15 E

DEPTH	CHLOROPHYLL			NON ASTACIN	
	ASTACIN		C		
	a	b			
10	4.4	6	3.1	7	
20	2.9	6	5.2	8	
30	1.53	1.9	1.21	1.6	
40	1.07	5	9.3	1.1	
50	4.5	6	7.2	1.5	
75	2.3	6	6.2	1.1	
100	1.6	6	3.6	1.1	

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	4	19	34 05 S	151 13 E

DEPTH	CHLOROPHYLL			NON ASTACIN	
	ASTACIN		C		
	a	b			
10	2.4	3	4.9	1.2	
20	2.2	3	1.9	1.0	
30	2.2	2	3.8	1.1	
40	2.1	5	2.2	1.1	
50	7.5	1.6	7.9	3.5	
75	5.1	1.5	5.6	2.2	
100	1.0	6	3.9	7	

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	4	26	3405 S	15115 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
10	4.7	5	24		1.9
20	4.6	3	39		1.6
30	5.1	8	43		1.6
40	4.4	12	30		1.2
40	4.6	11	20		1.1
20	4.0	11	36		1.1
75	1.0	7	47	1 *	1.0
100	7	12	56	3	3

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	5	04	3405 S	15115 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
10	1.01	1.4	6.0		2.4
20	0.76	1.3	5.9		2.4
30	0.92	1.2	5.6	5	2.2
40	0.82	1.2	5.5	6	1.9
50	0.56	1.0	3.9	5	1.5
50	0.29	1.0	1.9	4	7
75	0.12	0.5	2.4	6	1 *
100	0.14	0.6	2.9	6	1 *

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	5	10		3405 S	15115 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
46	7	31			21
40	2	39			18
62	5	44			25
66	7	40			32
28	5	21			13
37	6	31			12
23	1*	26			4
39	1	36			6

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	5	14		3405 S	15115 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
77	7	75			29
76	9	54			30
71	11	55			28
74	4	79			23
60	6	23			17
48	6	41			13
45	9	85			9
62	16	79			18

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	6	02	3 405 S	15115 E

20 60 6 02 3 405 S 15115 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
50	9	30	2	19	
100	59	21	4	20	
200	51	10	3	15	
300	46	10	4	15	
400	46	10	4	13	
500	32	9	3	12	
750	16	4	3	4	
1000	15	5	2	2	

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	6	07	3 405 S	15115 E

20 60 6 07 3 405 S 15115 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
47	11	13	5	15	
100	44	10	10	5	
200	43	11	10	6	
300	31	10	57	2	
400	44	10	62	5	
500	66	20	139	11	
750	21	11	61	4	
1000	13	8	51	6	

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	6	14		3405	S 15115 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
60	6	37		4	14
60	6	22		4	16
61	7	27		2	16
58	9	39		4	15
45	6	33		3	12
46	7	37		3	13
36	7	20		4	9
51	9	35		9	10

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	6	23		3405	S 15115 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
56	2	52		5	19
57	3	46		6	16
60	3	50		6	16
56	6	40		5	17
50	6	42		5	13
62	6	41		6	16
52	6	46		4	18
53	6	56		6	16

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	6	30	3405 S	15115 E

DEPTH	CHLOROPHYLL			NON ASTACIN	
	a	b	c	ASTACIN	NON ASTACIN
10	63	7	66	4	32
20	96	6	78	6	37
30	95	5	83	4	35
40	90	5	79	4	36
50	80	7	66	3	31
60	46	9	62	5	16
75	39	9	30	5	9
100	43	11	49	5	10

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	7	07	3405 S	15115 E

DEPTH	CHLOROPHYLL			NON ASTACIN	
	a	b	c	ASTACIN	NON ASTACIN
10	81	7	63	6	28
20	77	3	37	2	31
30	71	7	42	3	28
40	65	2	60	2	27
50	24	3	25	3	8
75	14	1*	26	3	4
100	20	3	19	2	7
	50	8	45	4	16

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	7	22	34 05 S	15 11 15 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
10	6.0	7	0.1	0	1.0
15	6.7	6	5.9	0	1.7
20	6.3	3	6.4	5	1.8
30	6.0	8	5.8	3	1.6
40	6.4	9	6.2	6	1.4
50	5.4	6	6.0	5	1.3
75	4	6	2.0	4	1
100	1.8	13	7.3	10	3

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	7	27	34 05 S	15 11 15 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
10	5.8	1.1	8.9	1.0	6
20	5.6	1.1	8.9	1.0	6
30	7.7	1.6	1.04	1.4	1.1
40	5.1	1.6	7.5	1.2	5
50	3.1	5	5.1	9	5
75	1.6	5	4.2	7	2
100	1.4	7	7.2	12	1.2

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	08	02	3405 S	15115 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
10	66	3	65	8	15
20	77	6	50	6	22
30	72	4	61	6	19
40	69	6	61	9	16
50	54	3	55	7	11
50	33	6	40	6	3
75	24	6	21	5	4
100	18	4	20	5	2

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	08	16	3405 S	15113 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
10	77	2	67	6	20
20	102	1	79	8	26
30	90	2	75	6	24
40	85	2	86	9	21
50	79	2	60	7	24
50	76	2	69	10	21
75	49	2	62	7	12
100	13	7	116	10	1

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	8	23		3405 S	15115 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
65	1 *	56		10	26
67	1 *	62		9	23
84	3	79		9	22
99	3	78		13	21
30					
40	2	66		13	19
66					
50	246	175		22	44
75	152	118		15	25
100	242	197		22	43

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	8	30		3405 S	15115 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
88	1	89		12	17
86	2 *	68		11	17
92		82		13	16
80	2 *	64		9	16
65		61		10	19
10	86				
20	92				
30	80				
40	65				
50	16	1		4	2
75	6	4		3	1
100	11	4		7	3

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	9	06		34 05 S	151 15 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
10	110	4*	75	7	34
20	137	2	85	16	31
30	155	5	139	22	34
40	151		109	16	37
50	146	1*	115	17	32
50	152	5*	131	18	35
75	74		52	9	
100	33	1	32	15	1

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	9	14		34 05 S	151 15 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
10	215	9	170	10	67
20	216	2*	164	14	66
30	192	3	159	9	64
40	120	3	107	11	36
50	61	4	68	12	14
50	47	4	57	10	10
75	23	3	23	6	4
100	29	5	47	7	3

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
		60	9	21		3405 S	15115 E
20							

DEPTH	CHLOROPHYLL			NON ASTACIN
	a	b	c	
89	3	104	9	34
10	112	6	96	33
20	137	4	109	36
30	157	9	150	33
40	172	8	173	36
50	150	13	151	32
75	177	13	154	48
100	169	15	176	41

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
		60	10	12		3405 S	15115 E
20							

DEPTH	CHLOROPHYLL			NON ASTACIN
	a	b	c	
46	5	60	60	10
55	7	60	60	12
60	7	61	61	17
61	4	67	61	11
64	5	71	62	15
59	5	71	63	15
59	3	61	63	11
20	6*	10	13	12
75	1*	4	1	12
100	5	4	1	4

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	10	27		3 405 S	15115 E

DEPTH	CHLOROPHYLL			NON ASTACIN
	a	b	c	
10	139	17*	127	12
20	75	1	78	11
30	34		38	6
40	30	4	44	6
50	22	5	43	6
75	31	2	66	9
100	5	2	29	4
	9	1	50	*

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	11	02		3 405 S	15115 E

DEPTH	CHLOROPHYLL			NON ASTACIN
	a	b	c	
10	139	106	130	51
20	89	4	111	37
30	86	4	122	31
40	42	5	114	37
50	39	5	60	17
75	27	4	44	15
100	25	6	66	9

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	11	09		3405	S 15115 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
71	5	60		1.0	2.2
82	1.5	1.43		2.8	1.6
109	9	1.31		2.4	1.6
20				1.7	2.5
30	2.2	7.5		2.1	1.6
40	1.9	1.06		2.5	1.6
50	3.1	1.54		2.5	1.8
75	2.2	6.6		1.1	1.2
100	2.1	3.6		1.8	1.5
				*	

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	11	16		3405	S 15115 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
35	4	4.8		6	1.3
40	6	5.7		10	1.2
50	1.1	8.7		11	2.2
75	1.4	1.31		10	2.5
100				9.7	2.9
				8.8	7
				6.2	1.1
				2.3	1.2
				*	

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	11	23		3405 S	15115 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
10	20	4 *	9	5	7
20	23	1	22	5	10
30	31	3	41	6	10
40	86	6	96	10	26
50	60	3	63	6	27
60	26	4	41	9	7
75	7	1	23	6	1 *
100	12	4	31	12	2 *

STATION		YEAR	MONTH	DAY		LATITUDE	LONGITUDE
20		60	12	08		3405 S	15115 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
10	50	5	62	7	20
20	60	11	105	19	23
30	143	14	166	28	43
40	95	6	131	16	31
50	60	12	127	23	17
60	46	9	65	10	17
75	15	7	31	14	1
100	29	7	92	22	6 *

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	12	14	3405 S	15115 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
10	104	12	99	16	45
20	277	27	204	30	69
30	207	1	139	16	70
40	130	1	100	16	34
50	85	2	74	14	22
75	75	8	62	13	19
100	10	2	35	10	3
	17	3	43	6	2

STATION	YEAR	MONTH	DAY	LATITUDE	LONGITUDE
20	60	12	22	3405 S	15115 E

DEPTH	CHLOROPHYLL			ASTACIN	NON ASTACIN
	a	b	c		
10	152	17	205	25	22
20	112	5	220	22	15
30	79	9	166	18	10
40	49	14	84	16	1
50	42	19	87	16	2
75	39	14	91	13	2
100	11	9	56	13	1
	8	1	51	13	2

DATA

PART 4

ZOOPLANKTON

PORT HACKING 100 m STATION

## ZOOPLANKTON BIOMASS

OBlique HAULS

LATITUDE 34°05'30"S.  
LONGITUDE 151°15'30"E.

- 126 -

DATE	TIME	DEPTH m	WATER FILTERED m <sup>3</sup>	BIOMASS mg/m <sup>3</sup>
4.2.60	1113	100-50	7.5	59
	1113	50-0	8.3	68
24.2.60	1100	100-50	5.3	195
	1100	50-0	6.3	32
	1047	100-50	8.3	77
18.3.60	1047	50-0	8.5	26
23.3.60	1120	100-50	4.7	130
31.3.60	1111	100-50	3.3	260
	1111	50-0	5.4	120
14.4.60	1012	100-50	7.0	332
	1012	50-0	8.5	77
21.4.60	1040	100-50	15.5	6
	1040	50-0	16.7	17
28.4.60	0940	100-50	6.8	41
	0940	50-0	8.6	23
5.5.60	1045	100-50	4.1	114
	1045	50-0	4.9	27

## ZOOPLANKTON BIOMASS

PORT HACKING 100 m STATION

OBlique HAULS

LATITUDE 34°05'30"S.  
LONGITUDE 151°15'30"E.

- 127 -

DATE	TIME	DEPTH m	WATER FILTERED m <sup>3</sup>	BIO MASS mg/m <sup>3</sup>
10.5.60	1024	100-50	5.0	469
	1024	50-0	8.0	122
25.5.60	1020	100-50	4.8	150
9.6.60	1038	100-50	5.3	117
	1038	50-0	5.9	53
16.6.60	1013	100-50	4.9	41
	1013	50-0	4.3	47
24.6.60	1050	100-50	4.2	81
	1050	50-0	4.1	76
6.7.60	1045	100-50	4.3	165
21.7.60	1017	100-50	6.1	103
	1017	50-0	5.6	55
28.7.60	1100	100-50	5.0	74
	1100	50-0	4.3	26
5.8.60	1010	100-50	6.1	321
11.8.60	1017	100-50	6.0	213
	1017	50-0	5.5	102

## ZOOPLANKTON BIOMASS

PORT HACKING 100 m STATION

OBLIQUE HAULS

LATITUDE 34°05'30"S.  
LONGITUDE 151°15'30"E.

- 128 -

DATE	TIME	DEPTH m	WATER FILTERED m <sup>3</sup>	BIOMASS mg/m <sup>3</sup>
17.8.60	1032	50-0	8.4	12
24.8.60	1023	100-50	3.7	143
	1023	50-0	5.4	141
31.8.60	1019	100-50	4.6	304
	1019	50-0	6.4	167
14.9.60	1145	100-50	2.5	879*
	1145	50-0	3.3	148+30*
22.9.60	1132	100-50	2.4	10,233*
	1132	50-0	3.3	304*
29.9.60	1111	100-50	3.4	310*
	1111	50-0	2.0	165
4.10.60	1133	100-50	2.0	2111*
	1133	50-0	2.8	278
11.10.60	1119	100-50	1.2	808*
	1119	50-0	0.7	571*
26.10.60	1100	100-50	2.8	306*
	1100	50-0	3.1	113

\* Indicates salp swarm

## ZOOPLANKTON BIOMASS

PORT HACKING 100 m STATION

OBLIQUE HAULS

LATITUDE 34°05'30"S.  
LONGITUDE 151°15'30"E.

- 129 -

DATE	TIME	DEPTH m	WATER FILTERED m <sup>3</sup>	BIOMASS mg/m <sup>3</sup>
1.11.60	1104	100-50	3.1	74
	1104	50-0	3.4	120
	1111	100-50	2.4	63
	1111	50-0	2.4	46
15.11.60	1048	100-50	2.1	352+242*
	1048	50-0	3.0	120+69*
21.11.60	1124	100-50	2.3	334
	1124	50-0	2.0	110
7.12.60	1130	100-50	2.4	204
	1130	50-0	3.0	164
13.12.60	1130	100-50	2.4	76
	1130	50-0	3.4	41
21.12.60	1129	100-50	4.5	13
	1129	50-0	2.7	37
30.12.60	1130	100-50	4.3	116
	1130	50-0	5.0	68

PORT HACKING 100 m STATION

## ZOOPLANKTON BIOMASS

## HORIZONTAL HAULS

LATITUDE 34°05'30"S.  
LONGITUDE 151°15'30"E.

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DATE	TIME	DEPTH m	WATER FILTERED m <sup>3</sup>	BIOMASS mg/m <sup>3</sup>
4.2.60	1024	0	9.7	9
24.2.60	1010	0	7.1	39
18.3.60	0954	50	10.6	4
	1023	100	12.2	,
23.3.60	0940	0	7.3	120
	0955	50	5.2	150
	1015	100	5.5	79
31.3.60	1018	0	4.0	7
	1018	50	3.6	210
	1045	100	8.5	68
14.4.60	0918	0	7.6	173
	0918	50	8.7	45
	0945	100	11.6	61
21.4.60	0945	0	9.1	6
	0945	50	10.4	32
	1015	100	10.2	30

## ZOOPLANKTON BIOMASS

PORT HACKING 100 m STATION

## HORIZONTAL HAULS

LATITUDE 34°05'30"S.  
LONGITUDE 151°15'30"E.

- 131 -

DATE	TIME	DEPTH m	WATER FILTERED m <sup>3</sup>	BIOMASS mg/m <sup>3</sup>
28.4.60	1008	0	4.1	29
	1008	50	4.6	4
	1100	100	9.2	4
5.5.60	0934	0	4.7	150
	0955	50	6.4	23
	1020	100	5.8	38
10.5.60	0934	0	4.3	297
	0934	50	7.5	147
	0957	100	10.6	143
25.5.60	0924	0	7.7	108
	0954	100	6.8	77
	0940	0	7.0	94
9.6.60	0940	50	7.9	91
	1013	100	9.5	85
	0945	0	7.1	28
16.6.60	0945	50	7.6	50
	1037	100	10.0	54

## ZOOPLANKTON BIOMASS

PORT HACKING 100 m STATION

## HORIZONTAL HAULS

LATITUDE 34°05'30"S.  
LONGITUDE 151°15'30"E.

DATE	TIME	DEPTH m	WATER FILTERED m <sup>3</sup>	BIOMASS mg/m <sup>3</sup>
24.6.60	0944	0	6.9	45
	0944	50	7.3	71
	1014	100	7.9	61
6.7.60	0924	0	6.8	131
21.7.60	0927	0	7.9	33
	0927	50	6.8	50
	0953	100	6.0	17
28.7.60	0950	0	8.7	16
	1010	50	6.9	45
	1032	100	5.9	10
5.8.60	0918	0	9.0	281
	0943	100	7.2	67
11.8.60	0923	0	7.9	101
	0923	50	8.5	146
	0948	100	8.7	39
17.8.60	0940	50	7.8	5
	1004	100	9.5	20

## ZOOPLANKTON BIOMASS

PORT HACKING 100 m STATION

## HORIZONTAL HAULS

LATITUDE 34°05'30"S.  
LONGITUDE 151°15'30"E.

- 133 -

DATE	TIME	DEPTH m	WATER FILTERED m <sup>3</sup>	BIO MASS mg/m <sup>3</sup>
24.8.60	0927	0	8.4	94
	0927	50	6.8	129
	0955	100	7.1	94
31.8.60	0923	0	6.7	413*
	0923	50	7.9	119
	0943	100	10.0	64
7.9.60	1045	0	3.6	272*
	1045	50	3.8	47
	1112	100	3.9	139
14.9.60	1050	0	3.6	4596*
	1050	50	6.7	78
	1115	100	6.4	63
22.9.60	1034	0	5.0	2092*
	1034	50	4.7	92*
	1105	100	2.3	187
29.9.60	1014	0	3.7	366*
	1014	50	7.0	209*
	1041	100	5.8	102

## ZOOPLANKTON BIOMASS

PORT HACKING 100 m STATION

HORIZONTAL HAULS

LATITUDE 34°05'30"S.  
LONGITUDE 151°15'30"E.

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DATE	TIME	DEPTH m	WATER FILTERED m <sup>3</sup>	BIOMASS mg/m <sup>3</sup>
4.10.60	1037	0	3.1	884*
	1037	50	3.5	87*
	1105	100	3.0	353
11.10.60	1023	0	4.3	251
	1023	50	3.2	256
	1049	100	3.4	106
26.10.60	1000	0	4.5	457*
	1000	50	5.0	148
	1030	100	5.7	162
1.11.60	1007	0	3.9	21
	1007	50	5.0	58
	1036	100	5.9	135
8.11.60	1018	0	5.1	35
	1018	50	3.9	33
	1043	100	4.1	32
15.11.60	0954	0	6.2	97
	0954	50	6.6	177
	1022	100	4.9	110

## ZOOPLANKTON BIOMASS

PORT HACKING 100 m STATION

HORIZONTAL HAULS

LATITUDE 34°05'30"S.  
LONGITUDE 151°15'30"E.

- 135 -

DATE	TIME	DEPTH m	WATER FILTERED m <sup>3</sup>	BIO MASS mg/m <sup>3</sup>
21.11.60	1028	0	4.9	53
	1028	50	6.1	156
	1056	100	6.3	76
	1032	0	6.0	7
7.12.60	1032	50	5.9	76
	1032	100	6.6	68
	1101	0	6.1	7
	1038	50	5.1	75
13.12.60	1038	100	4.8	52
	1103	0	9.2	25
	1029	50	5.1	39
	1029	100	4.1	27
21.12.60	1100	0	8.3	19
	1025	50	11.1	103
	1025	100	7.0	59
	1059			

ZOOPLANKTON BIOMASS

PORt HACKING 100 m STATION

OBLIQUE HAULS

LATITUDE 34°05'30"S.  
LONGITUDE 151°15'30"E.

DATE	TIME	DEPTH m	WATER FILTERED m <sup>3</sup>	BIO MASS mg/m <sup>3</sup>
7.1.60	0959	100-0	6.0	442*
	0959	100-0	8.8	383*
	1030	100-0	5.2	375*
	1030	100-0	8.3	181*
4.2.60	1140	100-0	9.7	48
24.2.60	1213	100-0	6.7	151
23.3.60	1040	100-0	9.2	25
31.3.60	1135	100-0	6.5	120
14.4.60	1030	100-0	10.2	149
21.4.60	1110	100-0	20.7	23
28.4.60	1125	100-0	10.7	50
5.5.60	1125	100-0	12.3	27
10.5.60	1113	100-0	10.8	159
25.5.60	1056	100-0	10.6	81
9.6.60	1110	100-0	10.1	144
16.6.60	1106	100-0	10.3	67
24.6.60	1116	100-0	6.0	72
6.7.60	1115	100-0	8.2	171
21.7.60	1049	100-0	10.2	55
28.7.60	1132	100-0	8.4	50

ZOOPLANKTON BIOMASS

PORt HACKING 100 m STATION

OBLIQUE HAULS

LATITUDE 34°05'30"S.  
LONGITUDE 151°15'30"E.

DATE	TIME	DEPTH m	WATER FILTERED m <sup>3</sup>	BIOMASS mg/m <sup>3</sup>
5.8.60	1037	100-0	15.1	31
11.8.60	1044	100-0	12.6	157
17.8.60	1100	100-0	11.0	33
24.8.60	1054	100-0	9.9	166
31.8.60	1046	100-0	9.0	142
7.9.60	1200	100-0	5.7	100
14.9.60	1210	100-0	7.8	515*
22.9.60	1155	100-0	3.6	6112*
29.9.60	1127	100-0	2.8	369*
4.10.60	1156	100-0	3.7	827*
11.10.60	1139	100-0	3.5	122+60*
26.10.60	1118	100-0	4.7	234
1.11.60	1121	100-0	6.7	63
8.11.60	1124	100-0	2.7	56
15.11.60	1105	100-0	4.7	157+105*
21.11.60	1153	100-0	4.6	144
7.12.60	1148	100-0	5.0	182
13.12.60	1152	100-0	5.3	92
21.12.60	1149	100-0	8.1	38
30.12.60	1148	100-0	8.3	131

## OCEANOGRAPHICAL STATION LISTS

1. Hydrological and planktological observations by F.R.V. *Warreen* in south-eastern Australian waters, 1938-39
2. Hydrological and planktological observations by F.R.V. *Warreen* in south-eastern Australian waters, 1940-42
3. Hydrological and planktological observations by F.R.V. *Warreen* in south-western Australian waters, 1947-50
4. Onshore hydrological investigations in eastern Australia, 1942-50
5. Estuarine hydrological investigations in eastern Australia, 1940-50. Queensland: Nerang and Coomera Rivers, Moreton Bay and Brisbane River, Logan River, Dunwich Oyster Lease; New South Wales: Richmond River, Clarence River, Macleay River, Hastings River, Manning River, Port Stephens, Tilligerry Creek, Hawkesbury River
6. Estuarine hydrological investigations in eastern Australia, 1940-50. New South Wales: Middle Harbour and Port Jackson, Georges River-Botany Bay
7. Estuarine hydrological investigations in eastern Australia, 1940-50. New South Wales: Port Hacking, Lake Illawarra, Shoalhaven River, Jervis Bay, Clyde River, Moruya River, Tuross River, Wagonga Inlet; Victoria: Port Phillip; Tasmania: Tamar River, Derwent River, Huon River, D'Entrecasteaux Channel, Pittwater, Lake Dobson (freshwater), Penna Dam (freshwater)
8. Hydrological investigations in south-western Australia, 1944-50
9. Records of twenty-four hourly hydrological observations at selected stations in eastern Australian estuarine systems, 1942-50. Queensland: Logan River; New South Wales: Richmond River, Clarence River, Macleay River, Hastings River, Manning River, Port Stephens, Hawkesbury River, Georges River, Port Hacking, Clyde River, Tuross River; Tasmania: Tamar River. Derwent River
10. Records of twenty-four hourly hydrological observations at Shell Point, Georges River, New South Wales, 1942-50
11. Analyses of bottom deposits in eastern Australia, 1946-50
12. Estuarine hydrological investigations in eastern and south-western Australia, 1951
13. Analysis of bottom deposits in eastern and south-western Australia, 1951 and records of twenty-four hourly hydrological observations at selected stations in eastern Australian estuarine systems, 1951
14. Onshore hydrological investigations in eastern and south-western Australia, 1951
15. Estuarine hydrological investigations in eastern and south-western Australia, 1952
16. Analysis of bottom deposits in eastern and south-western Australia, 1952 and records of twenty-four hourly hydrological observations at selected stations in eastern Australian estuarine systems, 1952
17. Onshore hydrological investigations in eastern and south-western Australia, 1952
18. Onshore hydrological investigations in eastern and south-western Australia, 1953
19. Onshore planktological investigations in eastern Australia, 1945-54
20. Surface sampling in the Tasman Sea, 1953
21. Estuarine hydrological investigations in eastern and south-western Australia, 1953
22. Further onshore planktological investigations in eastern Australia, 1945-54
23. Planktological investigations made by F.R.V. *Derwent Hunter* in eastern Australian waters, 1952-54
24. Onshore hydrological investigations in eastern and south-western Australia, 1954
25. Surface sampling in the Tasman Sea, 1954
26. Estuarine hydrological investigations in eastern and south-western Australia, 1954

## OCEANOGRAPHICAL STATION LISTS

(Continued)

27. Onshore and oceanic hydrological investigations in eastern and south-western Australia, 1955
28. Surface sampling in the Tasman and Coral Seas, 1955
29. Estuarine hydrological investigations in eastern and south-western Australia, 1955
30. Onshore and oceanic hydrological investigations in eastern and south-western Australia, 1956
31. Surface sampling in the Tasman and Coral Seas and the south-eastern Indian Ocean, 1956
32. Estuarine hydrological investigations in eastern and south-western Australia, 1956
33. Coastal hydrological investigations in eastern and south-western Australia, 1957
34. Coastal hydrological investigations at Port Hacking, New South Wales, 1957
35. Coastal hydrological investigations at Eden, New South Wales, 1957
36. Surface sampling in the Tasman and Coral Seas, 1957
37. Hydrological investigations from F.R.V. *Derwent Hunter*, 1957
38. Coastal hydrological investigations in the New South Wales tuna fishing area, 1958
39. Surface sampling in the Coral and Tasman Seas, 1958
40. Coastal hydrological investigations in south-eastern Australia, 1958
41. Oceanic investigations in eastern Australian waters, F.R.V. *Derwent Hunter*, 1958
42. Coastal investigations at Port Hacking, New South Wales, 1958
43. Oceanic investigations in eastern Australia, H.M.A. Ships *Queenborough*, *Quickmatch*, and *Warrego*, 1958
44. Oceanic observations in Antarctic waters, M.V. *Magga Dan*, 1959
45. Coastal hydrological investigations in eastern Australia, 1959
46. Coastal hydrological investigations in the New South Wales tuna fishing area, 1959
47. Coastal investigations at Port Hacking, New South Wales, 1959
48. Oceanic investigations in eastern Australian waters, F.R.V. *Derwent Hunter*, 1959
49. Coastal hydrological sampling at Rottnest Island, W.A., and Port Moresby, Papua, during the I.G.Y. (1957-58), and surface sampling in the Tasman and Coral Seas, 1959
50. Surface sampling in the Coral and Tasman Seas, 1960
51. Coastal hydrological investigations in eastern Australia, 1960
52. Coastal investigations at Port Hacking, New South Wales, 1960