

OCEANOGRAPHICAL STATION LIST

**of Investigations made by the Division of Fisheries,
Commonwealth Scientific and Industrial Research
Organization, Australia**

Volume 4

**Onshore Hydrological Investigations in
Eastern Australia, 1942-50**

Compiled by D. J. Rochford

**COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH
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OCEANOGRAPHICAL STATION LIST

ONSHORE HYDROLOGICAL INVESTIGATIONS IN EASTERN AUSTRALIA
1942-50

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I. INTRODUCTION

With the cessation in 1942 of the deep-sea oceanographical work of F.R.V. *Warreen* along the eastern Australian coast, the hydrological work of the C.S.I.R.O. Fisheries Division was concentrated on the onshore and estuarine waters of this region. The onshore investigations were designed to give information on the seasonal changes in hydrological conditions in eastern Australian coastal waters as described by Dakin and Colefax (1935) and on the long-term changes in nutrients, and in particular phosphates, that Cooper (1948) has suggested are responsible for fluctuations in fish stocks in the English Channel and adjacent seas. Moreover, it was hoped that the parallel investigations of onshore and estuarine hydrological conditions would yield information upon the effect of runoff from estuaries on seasonal changes in onshore waters.

The data have been collected from a series of stations along the coast of New South Wales, Victoria, and Tasmania (see Fig. 1). Table 1 indicates the position of each station and the date of commencement of observations.

TABLE 1

Station	Latitude	Longitude	Date of Commencement of Observations
New South Wales			
Coff's Harbour	30°17'S.	150°16'E.	26. x.1948
Port Macquarie	30°56'S.	150°10'E.	23. xi.1948
Port Stephens	32°43'S.	152°18'E.	11. v.1943
Botany Bay	34°01'S.	151°15'30"E.	28. ix.1943
Port Hacking	34°05'S.	151°13'E.	6.xii.1942
Ulladulla	35°22'S.	150°35'E.	7. vi.1944
Eden	37°04'S.	150°05'E.	9.xii.1945
Victoria			
Port Phillip Heads	38°22'S.	144°36'E.	20 ix.1948
Tasmania			
Low Head	40°55'S.	146°46'E.	8.xii.1948
St. Helens	41°18'S.	148°30'E.	4. i.1945
Maria Island	42°36'S.	148°10'E.	16. x.1944
Cape Pillar	43°13'S.	148°07'E.	10. i.1945

II. METHODS

(i) *Temperature*.—Temperatures were taken with deep-sea reversing thermometers. In view of the shallow depth and the consequent small temperature lapse rate, no mercury expansion corrections have been applied to the temperature as read in the field.

In working from small boats during bad weather it was often difficult to read the thermometers with the requisite accuracy. The temperatures can, therefore, be considered reliable only to within ± 0.05 of the given figure.

(ii) *Chlorinity*.—Chlorinity was determined by the method described in Oceanographical Station List Volume 2 (1950). No salinity conversion of the chlorinity figures was attempted in view of the possible modifying effect of freshwater and estuarine drainage upon the Knudsen equation.

(iii) *Dissolved Oxygen*.—Methods used were described in Oceanographical Station List Volume 2.

(iv) *Phosphate Phosphorus*.—Methods used were described in Volume 2.

(v) *Organic Phosphorus*.—The method used was described by Rochford (1951).

(vi) *Nitrate Nitrogen*.—Detail of the method followed in these determinations by a modification of Harvey's reagent was given by Rochford (1947).

III. UNITS

Temperatures are in degrees centigrade. Chlorinity is in g./kg. Specific gravity is expressed as σ_t . Dissolved oxygen is given in ml./l. (20°C.). Phosphate phosphorus and nitrate nitrogen are expressed as $\mu\text{g.P./l.}$ and $\mu\text{g.N./l.}$ (20°C.) respectively.

IV. SUBDIVISION OF PHOSPHATE DATA

In most cases, two figures will be given under PO_4P . The first is the inorganic and the second the organic phosphate figure, determined as a difference between the total phosphate of the unfiltered water and its inorganic phosphate content.

In some cases, however, the method described by Rochford (1951) for a separation of the soluble and particulate fraction of the organic phosphate content has been followed. In these cases, three figures will be quoted in the PO_4P column. The first again is the inorganic, the second the soluble organic, and the last the particulate organic phosphate figure.

V. PERSONNEL

The laboratory analyses of these onshore data have been the responsibility of Mr. D. J. Rochford and the Cronulla hydrology staff. The field collections have in the main been carried out by Mr. C. Wirrell, Mr. H. Hollis, or Mr. C. Brown, without whose perseverance and loyalty the programme would have been impossible.

COOPER, L. H. N. (1948).—P
DAKIN, W. J., and COLEFAX,
temperature, salinity, ph
continental shelf off Nev
ROCHFORD, D. J. (1947).—T
reagent in oceanographic
ROCHFORD, D. J. (1951).—St
and comparative feature

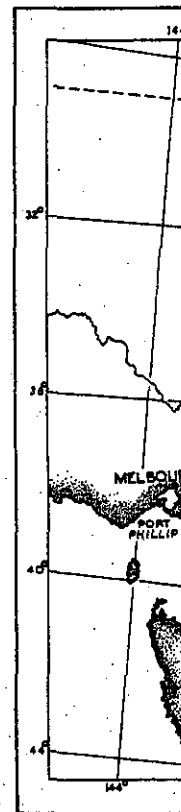


Fig. 1.—Stations

VI. REFERENCES

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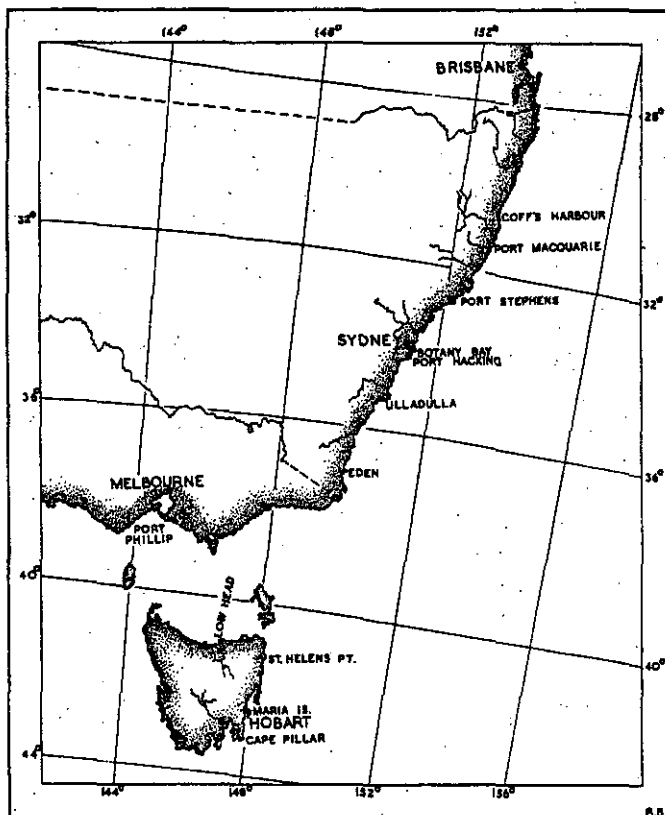


Fig. 1.—Stations along the coast of New South Wales, Victoria, and Tasmania.

Station: COFF'S HARBOUR

Latitude: 30° 17' S.

Longitude: 150° 16' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	O ₁	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1948									
26. x	0	19.15	19.75	25.51	5.60	104		5-3	0
	10	19.05	.71	.49	.46	101		6-4	0
	20	18.85	.72	.55	.49	101		6-8	0
	30	18.85	.73	.56	.43	100		7-4	0
	40	18.80	.73	.58	.10	94		10-4	4
	50	18.75	.70	.55	.13	94		2-7	4
18. xii	0	21.30	19.64	24.79	5.40	103	8.26	3-8	0
	10	20.37	.69	25.12	.40	102	.25	3-23	0
	20	19.45	.69	.36	.19	96	.24	7-10	10
	30	18.80	.67	.50	4.45	82	.15	12-16	0
	40	17.99	.69	.73	.41	80	.18	14-11	0
	50	17.77	.71	.81	.37	79	.18	11-11	0
1949									
21. i	0	22.50	19.67	24.50	4.80	94	8.20	3-1	0
	10	22.70	.68	.45	.74	93	.22	3-0	0
	20	22.50	.67	.50	.50	88	.23	3-0	0
	30	22.41	.67	.53	.78	93	.22	3-0	0
	40	22.00	.65	.62	.76	92	.21	4-4	0
	50	21.60	.65	.73	.79	92	.20	6-3	6
16. ii	0	20.55	19.66	25.02	6.02	114	8.26	12-6	4
	10	19.80	.62	.16	5.68	106	.22	8-7	0
	20	18.85	.68	.49	4.13	76	.15	12-6	42
	30	18.80	.66	.51	3.90	72	.13	17-4	52
	40	18.90	.66		.88	71	.25	13-8	53
	50	18.80			.83		7.98	14-7	61
22. v	0	22.60	19.45	24.18	5.24	102	8.09	2-15	5
	10	22.50	.59	.39	4.98	97		6-22	2
	20	22.30	.59	.45	.67	91	7.89	3-10	11
	30	22.10	.64	.57	.52	88		3-8	12
	40	21.40	.61	.72	.59	88	8.03	6-1	17
	50	20.20	.64	25.09	.06	76	7.94	11-6	48

Station: COFF'S HARBOUR

Latitude: 30° 17' S.

Longitude: 150° 16' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1949									
27. vi	0	20.00	19.65	25.16	5.29	99	8.30	2-8	4
	10	19.60	.64	.25	.20	97	.31	5-5	4
	20	19.50	.63	.26	.23	97	.07	4-12	3
	30	19.40	.64	.30	.14	95	.29	2-7	3
	40	18.50	.61	.49	.04	92	.26	7-3	7
	50	17.90	.63	.67	.03	91	.31	7-0	3
31. vii	0	19.65	19.62	25.20	5.18	96	8.30	10-5	0
	10	19.60	.75	.40	.33	99	.31	5-10	4
	20	19.50	.73	.40	.24	98	.26	9-10	0
	30	19.40	.72	.41	.24	97	.26	9-4	0
	40	18.95	.70	.50	4.58	85	.21	10-0	21
	50	18.95	.70	.50	.44	82	.28	10-11	27
2. ix	0	18.50	19.00	24.65	5.27	96	8.15	6-4	0
	10	19.20	.38	25.00	.30	98	.21	6-4	0
	20	19.55	.59	.20	.08	94	.25	7-6	0
	30	19.10	.60	.33	.15	95	.08	7-7	1
	40	18.60	.62	.47	4.44	81	7.97	14-0	24
	50	17.00	.62	.87	.06	72	8.05	19-4	126
23. x	0	18.95	19.63	25.40	5.36	99	8.19	14-0	14
	10	18.80	.62	.42	4.87	90	.17	23-0	9
	20	17.60	.61	.71	.03	72	.17	21-9	26
	30	16.50	.58	.94	.03	71	.15	26-10	29
	40	16.20	.55	.96	.05	71	.17	22-4	14
	50	14.62	.57	26.34	.06	69	.18	23-0	14
1. xii	0	20.65	19.59	24.91	5.57	105	8.11	5-0	4
	10	19.90	.62	25.14	.56	104	.64	6-0	0
	20	19.78	.61	.16	.49	102	.04	7-0	0
	30	19.70	.58	.15	.34	99	7.98	7-14	0
	40	19.65	.59	.17	.14	96	6.96	8-9	4
	50	19.60	.60	.20	.63	105	8.20	7-10	0

Station: COFF'S HARBOUR

Latitude: 30° 17' S.

Longitude: 150° 16' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1950									
12. i	0	22.20	19.48	24.32	5.53	107	8.14	4-6	9
	10	19.70	.59	25.16	4.93	92	.14	10-6	8
	20	19.58	.60	.20	.77	89	.13	12-4	12
	30	18.75	.63	.45	.10	75	.13	10-16	32
	40	18.50	.58	.46	.26	81	.11	13-6	50
	50	18.15	.63	.61	.04	73	.07	13-9	63
5. iiii	0	24.90	19.32	23.32	4.93	100	7.86	16-1	0
	10	24.80	.48	.57	.83	98	8.04	8-0	0
	20	24.80	.49	.59	.85	98	.04	9-3	0
	30	23.40	.55	24.08	.72	93	7.93	10-1	0
	40	21.60	.64	.71	.98	96	.99	14-8	13
	50	19.10	.70	25.46	.12	76	.88	20-0	58
29. iiii	0	24.80	19.44	23.51	4.82	98	7.74	19-0	0
	10	24.60	.51	.67	.76	96	.85	24-1	0
	20	22.40	.69	24.56	.09	80	.88	14-12	48
	30	20.00	.65	25.16	.14	78	.67	24-9	40
	40	19.50	.72	.39	.10	76	.77	29-5	44
	50	19.60	.72	.36	.03	75	.90	20-0	40
25. iv	0	24.00	19.39	23.68	4.94	99	8.24	4-11	5
	10	24.00	.41	.71	.97	99	.27	3-2	5
	20	24.00	.43	.74	5.00	100	.25	4-3	4
	30	23.85	.39	.73	4.92	98	.14	2-4	5
	40	23.80	.45	.83	.97	99	.23	3-6	13
	50	22.00	.40	24.26	.57	90	.16	4-34	16
18. viii	0	20.57	19.45	24.74	5.38	101	8.32	6-4	0
	10	20.50	.49	.81	.36	101	.29	4-7	0
	20	20.02	.51	.96	.12	96	.29	8-6	9
	30	19.80	.56	25.09	4.75	88	.27	12-11	46
	40	19.50	.61	.23	.37	81	.22	14-14	72
	50	19.60	.61	.21	.56	85	.21	14-10	84

Station: COFF'S HARBOUR

Latitude: 30° 17' S.

Longitude: 150° 16' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1950									
31. x	0	21.40	19.58	24.77	4.26	81		10-0	9
	10	21.00	.56	.77	.84	92		4-2	2
	20	21.10	.59	.78	.58	87		6-6	7
	30	20.73	.57	.85	5.13	97		11-10	7
	40	20.40	.60	.99	.05	95		11-2	7
	50	19.57	.53	25.10	.03	93		16-0	14
16. xii	0	21.30	19.55	24.67	4.84	92	8.20	1-5	0
	10	21.20	.56	.72	5.34	102	.14	1-14	0
	20	20.90	.54	.77	4.70	89	.20	1-9	0
	30	19.90	.60	25.12	5.15	96	.16	3-15	0
	40	18.80	.65	.47	4.30	79	.03	9-32	26
	50	18.40	.56	.45	.13	75	7.94	11-10	55

Station: PORT MACQUARIE

Latitude: 30° 56' S.

Longitude: 150° 10' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1948									
23. xi	0	20.25	19.63	25.07	5.63	106		3-4-7	0
	10	17.05	.61	.84	.39	96		8-10	11
	20	16.85	.58	.86	4.47	79		14-5-1	77
	30	16.70	.58	.89	.37	77		14-0-2	79
	40	16.55	.58	.93	.27	75		15-0-3	103
	50	16.40	.61	26.00	.27	75		18-0-0	105
19. xi1	0	21.40	19.48	24.55	5.33	102	7.72	0-3	0
	10	19.10	.57	25.28	.49	101	8.12	3-9	0
	20	18.30	.60	.53	.16	94	.20	9-5	0
	30		.56		4.91			8-0	0
	40	17.80	.58	.63	.70	85	.20	8-0	9
	50	15.25	.57	26.21	.38	76		27-19	252
1949									
23. i	0	25.00	19.60	23.67	3.89	79	8.20	11-1	5
	10	24.12	.62	.95	4.81	96	.20	5-0	4
	20	22.70	.66	24.43	.48	88	.21	5-0	7
	30	21.98	.68	.66	.67	90	.23	6-0	4
	40	21.40	.67	.81	.71	90	.16	8-0	4
	50	21.51	.69	.81	5.10	98	.20	8-0	4
18. ii	0	23.50	19.67	24.21	4.81	95	8.23	3-8-1	5
	10	23.10	.67	.33	.89	96	.25	4-5-0	4
	20	19.80	.70	25.28	.72	88	.20	9-3-0	17
	30	18.60	.69	.58	3.88	71	.25	13-11	27
	40	18.10	.70	.71	4.13	75	.17	16-2-0	20
	50	18.10	.70	.71	.14	75	.10	16-8-0	26
25. v	0	21.95	19.58	24.53	5.10	98	8.18	4-5	5
	10	22.00	.59	.54	.07	98		4-1	8
	20	21.80	.57	.55	.06	97	.17	8-4	51
	30	20.70	.66	.98	4.24	80		11-4	59
	40	20.40	.66	25.07	.14	78	.12	13-3	73
	50	19.05	.67	.43	3.90	72	.03	19-0	7

Station: PORT MACQUARIE

Latitude: 30° 56' S.

Longitude: 150° 10' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1949 30. vi	0	19.30	19.58	25.25	5.21	96	8.11	4-25	2
	10	19.20	.59	.29	.28	98	.32	6-54	2
	20	19.30	.59	.26	.20	96	.30	6-8-6	0
	30	19.10	.59	.31	.26	97	.26	6-14	3
	40	19.20	.59	.29	.23	97	.12	6-14	4
	50	19.20	.61	.31	.21	96	.20	6-10	0
29. vii	0	19.15	19.49	25.17	5.34	99	8.24	8-17	0
	10	18.90	.60	.37	.35	98	.33	5-8-0	4
	20	18.55	.54	.38	.33	97	.30	5-3-0	0
	30	18.50	.53	.38	.20	95	.29	8-4-4	0
	40	18.15	.61	.57	4.87	89	.35	12-6-0	30
	50	18.15	.60	.56	.71	86	.33	7-7-4	30
26. x	0	21.30	19.64	24.78	5.04	96	8.22	3-4-4	7
	10	21.35	.64	.78	.10	98	.07	16-0-2	14
	20	21.00	.65	.89	.35	102	.24	10-0-0	9
	30	20.85	.66	.94	.17	98	.13	13-0-0	7
	40	18.80	.69	25.53	4.35	83	.19	17-0-7	7
	50	18.15	.66	.65	.48	81	.08	20-0-4	16
4. xii	0	23.20	19.65	24.27	5.13	101	8.18	6-3-4	0
	10	22.85	.65	.38	.38	105	.21	6-2-3	0
	20	22.30	.68	.57	.46	106	.15	6-4-0	0
	30	20.00	.68	25.20	4.62	87	.13	14-5-5	0
	40	19.10	.67	.42	.67	86	.21	8-7-0	11
	50	18.40	.68	.61	.57	84	6.77	12-7-0	0
1950 8. i	0	19.00	19.58	25.33	5.30	98	8.13	10-16	2
	10	18.00	.53	.50	4.75	86	.07	16-16	19
	20	16.40	.52	.88	3.63	64	.03	23-10	145
	30	16.05	.51	.94	.42	60	.06	30-0-0	199
	40	15.65	.55	26.09	.94	68	.10	23-0-5	141
	50	15.80	.52	.02	.41	59	.06	25-0-0	183

Station: PORT MACQUARIE

Latitude: 30° 56' S.

Longitude: 150° 10' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1950									
1. iiii	5	24.20	19.00	23.10	4.62	92		7-9-0	2
	10	24.20	.01	.11	.44	89		4-20	0
	20	21.80	.19	24.04	.56	87		17-0-0	0
	30	21.50	.35	.32	.78	92		12-7-0	0
	40	18.20	.49	25.41	3.85	70		20-5-0	63
	50	16.80	.52	.79	.74	66		19-0-0	74
30. iiii	0	22.80	19.39	24.03	5.51	108	7.89	13-0-0	0
	10	22.10	.39	.23	.74	111	.92	10-8-0	0
	20	21.90	.40	.29	.75	111	.90	20-0-0	0
	30	17.40	.61	25.76	4.54	81	.74	20-0-0	31
	40	17.20	.60	.80	.36	78	.75	20-5-0	42
	50	16.90	.59	.85	.04	72	.82	34-6-4	55
27. iv	0	24.00			4.97		8.19	2-5-2	6
	10	24.00			.97		.18	3-3-1	4
	20	23.90	19.32	23.59	5.00	100	.22	3-9-0	3
	30	23.10	.32	.85	4.92	97	.15	5-10	4
	40	22.80	.34	.96	.73	92	.19	5-5-1	7
	50	19.00	.53	25.26	.08	75	.12	11-7-2	7
18. viii	0	20.70	19.56	24.85	4.72	89	8.29	4-5	1
	10	20.04	.53	.98	5.20	97	.27	4-7	0
	20	19.93	.63	25.15	4.09	76	.26	11-3	49
	30	19.75	.64	.21	.53	84	.15	11-7	66
	40	19.42	.65	.31	3.90	72	.21	11-5	77
	50	19.40	.67	.34	4.12	76	.18	13-8	100
3. xi	0	20.70	19.54	24.82	5.31	100	8.26	4-23	0
	10	20.70	.55	.83	.26	99	.28	6-24	0
	20	20.70	.57	.85	.18	98	.31	7-26	0
	30	20.70	.63	.94	.23	99	.28	8-4-9	0
	40	20.70	.61	.91	.24	99	.28	6-9-6	0
	50	20.70	.45	.95	4.87	92	.22	6-24	0

Station: PORT MACQUARIE

Latitude: 30° 56' S.

Longitude: 150° 10' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1950									
14. xii	0	21.20	19.53	24.67	5.43	103	7.92	4-28	0
	10	21.10	.57	.75	.48	104		4-17	0
	20	19.40	.60	25.25	.55	103	.89	4-17	0
	30	19.40	.56	.20	.55	103	8.03	6-13	0
	40	19.20	.62	.32	.06	94	7.83	6-22	0
	50	19.00	.60	.35	4.82	89	8.00	7-8-3	4

Station: FORT STEPHENS

Latitude: 32°43' S.

Longitude: 152°18' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1943									
11. v	0	20.56	19.84	25.27	4.94	93		1-6	3
	10	20.70	.88	.28	.96	94		1-6	3
	20	20.60	.85	.28	5.03	95		0-9	6
	30	20.46	.78	.22	4.94	93		0-4	3
	40	19.60	.79	.46	.61	86		1-8	8
	50	19.60	.76	.42	3.98	74		3-4	8
14. v	0	21.80	19.73	24.78	4.92	95		4-5	6
	10	20.48	.76	25.18	5.07	96		3-18	3
	20	20.40	.78	.23	.17	98		5-4	0
	30	20.35	.83	.31	.15	97		4-7	3
	40	20.20	.78	.29	4.99	94		5-43	3
	50	20.10	.78	.31	.89	92		3-11	3
1945									
12. vii	0	18.90	19.50	25.24	5.24	96		0-5	5
	10	18.91	.50	.23	.87	108		2-5	5
	20	19.10	.64	.37	4.50	83		5-2	35
	30	18.70	.67	.52	.40	81		7-5	51
	40	18.70	.69	.55	.26	78		7-0	60
	50	18.60	.69	.58	.25	78		8-3	56
6. ix	0	16.08	19.47	25.88	5.43	95		2-4	10
	10	16.00	.47	.90	.48	96		1-4	5
	20	16.10	.52	.94	.53	97		4-2	22
	30	16.10	.51	.93	.31	93		4-1	18
	40	15.85	.54	26.03	.36	97		24-5	18
20. xi	0	17.55	19.56	25.66	4.85	87		5-5	85
	10	16.55	.57	.90	.10	72		9-4	85
	20	16.00	.58	26.05	3.77	65		11-5	170
	30	15.45	.56	.15	.65	63		14-7	175
	40	14.55	.55	.33	.97	68		11-5	190
	50	14.15	.53	.38	4.10	69		10-12	150

Station: PORT STEPHENS

Latitude: 32°43' S.

Longitude: 152°18' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1946									
17. i	0	18.70	19.64	25.47	5.16	95		3-8	0
	10	18.60	.65	.52	.27	97		2-10	0
	20	18.40	.67	.60	4.07	74		5-8	3
	30	18.30	.66	.60	.11	75		2-13	0
	50	17.81	.67	.74	.54	82		6-9	34
23. ii	0	22.40	19.67	24.52	5.11	99		0-3	11
	10	22.20	.64	.54	.13	100		2-10	11
	20	21.40	.63	.75	.02	96		0-4	11
	30	20.40	.64	25.03	4.29	81		7-4	36
	40	18.40	.67	.59	.17	77		7	51
50	18.40	.67	.59	3.97	73		9-14	48	
20. iii	0	21.20	19.62	24.78	4.67	89		0-2	10
	10	20.50	.62	.97	.60	87		2-5	20
	20	19.50	.61	25.23	.05	75		5-6	48
	30	17.35	.64	.81	3.68	66		13-7	76
	40	15.00	.52	26.19	.00	52		29	115
50	14.90			2.94			20-7	103	
24. iv	0	19.40	15.63	19.52	5.21	92		4-2	15
	10	20.00	18.76	23.91	4.45	83		0-6	12
	20	20.20	19.29	24.60	.85	91		1-5	5
	30	19.60	.48	25.02	.96	92		0-8	5
	40	19.80	.47	24.96	.85	91		2-9	5
50	19.80	.53	25.12	.97	93		0-7	5	
23. v	0	17.65	18.90	24.72	5.70	102		6-1	10
	10	18.55	19.54	25.38	.13	94		2-3	3
	20	18.70	.54	.34	.62	103		1-2	3
	30	18.70	.54	.34	.62	103		1-4	3
	40	18.80	.55	.32	.54	102		2-2	1
50	18.55	.59	.45	.58	102		1-4	3	

Station: PORT STEPHENS

Latitude: 32°43' S.

Longitude: 152°18' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1946									
19.vi	0	18.10	19.78	25.82	5.34	97		1-5	3
	10	17.80	.80	.92	.34	97		0-7	3
	20	17.70	.80	.95	.30	96		0-5	3
	30	17.20	.80	26.07	.40	96		1-5	8
	40	16.60	.81	.22	.32	94		0-6	3
	50	15.30	.79	.49	.25	91		0-6	12
16.vii	0	15.40	19.52	26.10	5.65	98		2-1	16
	10	15.50	.52	.08	.66	98		4-0	23
	20	15.70	.58	.12	.40	93		2-3	23
	30	15.70	.58	.12	.60	97			23
	40	15.80	.57	.08	.60	98		2-7	23
	50	15.90	.61	.11	.78	101		5-2	16
24.viii	0	16.30	19.70	26.14	5.54	98		3-0	35
	10	16.30	.73	.20	.33	94		3-0	30
	20	16.20	.73	.21	.30	93		3-0	33
	30	16.05	.74	.26	.36	94		3-0	28
	40	15.70	.75	.34	.57	97		2-1	23
	50	15.70	.73	.32	.86	102		2-2	19
25.ix	0	16.60	19.68	26.04	5.52	98		3-0	0
	10	16.60	.75	.14	.53	98		4-1	0
	20	16.20	.70	.10	.31	93		5-0	1
	30	16.20	.70	.16	.18	91		4-3	15
	40	15.60	.66	.25	.14	89		5-0	38
	50	15.40	.64	.26	4.84	84		7-0	63
23.x	0	17.50	19.50	25.58	5.33	96		2-5	17
	10	17.30	.62	.78	.24	93		4-3	27
	20	16.20	.56	.98	4.70	82		5-5	73
	30	14.50	.50	26.10	.27	73		11-5	121
	40	15.80	.58	.27	.95	86		10-6	64
	50	14.10	.47	.32	.35	73		10-9	121

Station: PORT STEPHENS

Latitude: 32° 43' S.

Longitude: 152° 18' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1946									
15. xi	0	18.50	19.71	25.63	5.42	99		1-4	8
	10	18.30	.68	.63	.52	101		0-3	14
	20	18.20	.65	.64	4.75	87		5-1	46
	30	18.20	.70	.69	5.30	97		0-6	12
	40	17.50	.67	.82	4.95	89		6-5	23
	50	16.50	.67	26.06	.52	80		7-3	66
18. xii	0	19.50	19.61	25.23	5.30	99		0-8	15
	10	19.40	.58	.21	.36	100		0-11	13
	20	19.40	.61	.25	.53	103		0-17	13
	30	18.80	.61	.41	.34	98		0-19	15
	40	15.60	.54	26.08	4.15	72		9-9	75
	50	14.70	.60	.37	3.88	66		12-12	78
1947									
21. i	0	22.00	19.64	24.59	5.15	100		1-7	17
	10	20.50	.65	25.02	.14	97		0-5	12
	20	19.90	.67	.21	.19	97		0-13	17
	30	18.55	.62	.48	.13	94		5-4	14
	40	17.50	.60	.72	4.80	86		8-8	20
	50	16.50	.62	.98	.73	83		1-18	25
17. ii	0	22.40	19.52	24.32	4.56	89		1-2	10
	10	20.40	.62	25.00	.44	83		8-0	23
	20	17.90	.66	.70	3.64	66		15-0	93
	30	17.10	.65	.89	.45	61		14-1	98
	40	17.00	.58	.82	.64	65		19-6	118
	50	14.80	.55	26.27	.11	53		20-4	170
20. iii	0	22.50	19.50	24.27	5.10	99		0-5	7
	10	21.80	.54	.50	.10	98		3-4	7
	20	21.50	.57	.64	.06	97		1-7	7
	30	21.40	.61	.71	4.59	88		5-4	28
	40	20.20	.65	25.10	.14	78		8-2	55
	50	15.60	.69	26.29	3.92	68		15-0	85

Station: PORT STEPHENS

Latitude: 32°43' S.

Longitude: 152°18' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1947									
29. iv	0	20.20	19.60	25.03	4.89	92		0-0	17
	10	20.10	.57	.01	5.04	95		1-2	15
	20	20.10	.58	.04	4.97	93		0-1	7
	30	20.00	.60	.09	.62	87		0-1	12
	40	19.90	.57	.07	5.03	94		0-1	12
	50	20.00	.58	.06	.08	95		0-3	12
22. v	0	20.70	19.51	24.77	5.17	98		0-3	13
	10	20.40	.57	.94	.15	97		0-3	25
	20	20.30	.59	25.00	4.99	94		0-7	34
	30	20.45	.62	24.99	5.06	95		0-3	28
	40	20.30	.64	25.06	.02	95		0-5	28
	50	20.20	.59	.02	4.99	94		0-6	41
31. vii	0	17.60	19.64	25.75	5.24	94		3-4	42
	10	17.40	.63	.78	.14	92		3-4	30
	20	17.50	.64	.77	.27	95		10-7	45
	30	17.40	.63	.78	.22	99		3-7	36
14. viii	0	16.00	19.64	26.13	5.44	95		9-6	17
	10	15.95	.65	.16	.52	96		7-0	26
	20	15.95	.64	.14	.26	92		9-2	30
	30	15.70	.63	.18	4.50	78		9-6	70
	40	15.50	.63	.23	.57	79		12-5	64
	50	14.95	.62	.33	.62	80		12-5	73
2. x	0	17.00	19.69	25.97	5.57	99		1-19	0
	10	16.95	.67	.95	.56	99		3-13	0
	20	16.90	.66	.94	.56	99		2-14	0
	30	16.80	.67	.98	.58	99		2-11	0
	40	16.40	.64	26.03	.02	88		6-9	44
	50	16.30	.64	.06	4.87	86		13-5	32
29. x	0	17.70	19.70	25.81	5.54	100		14-2	6
	10	17.60	.69	.82	.56	100		9-10	0
	20	16.30	.63	26.05	4.68	82		17-1	26
	30	16.10	.64	.10	.78	84		17-9	90
	40	15.00	.58	.28	.26	73		21-8	92
	50	14.80	.59	.33	.24	73		21-11	95

Station: PORT STEPHENS

Latitude: 32°43' S.

Longitude: 152°18' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1947									
1. xii	0	19.00	19.61	25.36	5.43	100		4-7	4
	10	18.20	.62	.57	.15	93		11-15	17
	20	18.00	.61	.61	.03	91		18-8	17
	30	17.90	.62	.64	4.98	90		15-7	28
	40	17.60	.61	.71	.41	80		28-6	146
	50	17.60	.60	.70	.35	78		26-10	152
1948									
28. i	0	22.40	19.42	24.18	5.27	103		7	0
	10	21.50	.52	.58	.27	101		3	0
	20	21.05	.65	.87	.34	102		4	0
	30	20.80	.63	.91	.30	101		5	0
	40	18.65	.66	25.51	4.67	86		12	0
	50	17.40	.67	.74	.50	81		14	0
25. ii	0	21.40	19.55	24.64	5.20	99		6	0
	10	20.70	.60	.90	.48	102		4	0
	20	20.30	.57	.97	.55	105		4	0
	30	19.90	.59	25.10	.75	107		6	0
	40	19.30	.59	.26	.71	106		7	0
	50	17.70	.58	.65	.13	92		5	0
29. iv	0	21.19	19.66	24.85	4.87	93		3-3	0
	10	21.20	.75	.97	.85	93		2-6	0
	20	20.80	.69	25.00	.92	93		2-5	0
	30	20.20	.69	.16	.80	90		3-0	0
	40	20.19	.67	.14	.89	92		5-0	0
	50	19.80	.69	.27	5.10	95		3-2	0
26. v	0	21.70	19.70	24.77	4.97	96		0-9	8
	10	21.50	.70	.82	.95	95		6-5	0
	20	21.60	.60	.66	.98	96			6
	30	21.80	.60	.60	5.04	97		2-9	6
	40	21.00	.61	.83	4.93	94		3-6	0
	50	19.50	.56	25.17	5.00	93		2-2	0

Station: PORT STEPHENS

Latitude: 32°43' S.

Longitude: 152°18' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1948									
4. ix	0	15.10	19.50	26.14	5.86	101		6-5	0
	10	15.40	.62	.24	.86	101		7-8	0
	20	15.40	.64	.27	.85	101		6-8	0
	30	15.50	.64	.24	.79	100		6-8	0
	40	15.50	.64	.24	6.51	113		6-10	9
	50	15.60	.65	.24	5.80	101		4-8	0
3. x	0	17.10	19.65	25.89	5.85	104	8.06	4-6	0
	10	17.10	.70	.96	.87	105	.19	4-8	0
	20	16.80	.70	26.03	.78	102	.19	6-2	0
	30	16.50	.68	.07	.63	99	.19	6-13	0
	40	16.25	.69	.15	.55	98	.20	6-12	0
	50	15.20	.68	.37	.56	96	.21	8-5	6
27. x	0	18.80	19.61	25.41	5.60	103		7-6	0
	10	18.30	.58	.51	.67	103		4-6	0
	20	18.05	.60	.59	.55	101		4-6	0
	30	17.70	.57	.63	.54	100		4-10	0
	40	17.60	.58	.68	.30	95		6-6	0
	50	17.30	.57	.73	.37	96		4-6	0
24. xi	0	18.10	19.62	25.60	6.35	115		3-9	0
	10	18.15	.61	.58	.32	115		3-9	0
	20	17.00	.60	.85	4.52	80		15-4	53
	30	16.95	.60	.86	.63	82		13-5	67
	40	16.85	.59	.87	.57	81		14-6	76
	50	16.80	.59	.88	.53	80		14-6	74
21. xii	0	19.15	19.61	25.32	5.57	103	8.11	4-2	0
	10	18.70	.62	.45	6.20	114	.17	4-3	0
	20	18.20	.63	.59	.34	115	.22	2-4	0
	30	17.40	.63	.78	4.94	89	.06	4-0	7
	40	17.40	.61	.76	.69	84	7.99	10-0	0
	50	16.95	.62	.88	.48	80	.82	15-0	65

Station: PORT STEPHENS

Latitude: 32°43' S.

Longitude: 152°18' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1949									
24. i	0	21.10	19.67	24.89	5.02	96	8.06	3-3	7
	10	21.30	.67	.84	4.56	87	.10	3-0	6
	20	21.01	.72	.98	5.01	95	.17	2-0	7
	30	20.40	.68	25.09	4.67	88	.18	3-5	11
	40	19.90	.69	.24	.41	82	.18	6-0	18
	50	19.60	.69	.32	.66	87	.16	3-5	42
19. ii	0	21.30	19.69	24.87	4.95	95	8.23	3-9	0
	10	21.05	.69	.93	.96	94	.22	6-6	0
	20	20.20	.70	25.17	.99	94	.22	5-2	0
	30	19.85	.71	.29	.91	92	.21	5-2	0
	40	18.70	.63	.47	.87	89	.22	6-2	6
	50	19.20	.70	.43	5.00	93	.21	3-0	3
30. iii	0	21.00	19.41	24.56	4.92	93	8.19	6-2	0
	10	21.00	.39	.53	.88	90	.18	6-6	4
	20	20.20	.48	.87	.63	87	.17	8-2	5
	30	18.80	.71	25.56	.34	80	.19	6-8	13
	40	18.40	.69	.63	.22	77	.15	11-1	23
	50	17.60	.59	.69	3.95	71	.03	12-5	58
26. v	0	20.70	19.59	24.89	5.03	95	8.20	4-22	3
	10	20.60	.58	.91	.11	97	.20	4-9	0
	20	20.60	.60	.93	.03	95		4-5	2
	30	20.40	.58	.96	.01	94		3-14	0
	40	20.20	.52	.93	.13	96	.18	5-3	86
	50	19.95	.52	25.00	4.95	93	.17	5-11	72
5. vii	0	16.50	18.57	24.54	5.42	94	8.19	16-0	12
	10	16.80	.97	25.02	.42	95	.19	9-2	14
	20	17.00	19.11	.17	.36	95	.21	5-6	15
	30	17.10	.14	.19	.43	96	.20	9-1	7
	40	17.40	.14	.11	.39	96	.22	6-2	10
	50	17.80	.58	.63	.30	96	.18	9-6	15

Station: PORT STEPHENS

Latitude: 32° 43' S.

Longitude: 152° 18' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1949									
8. viii	0	17.70	19.49	25.53	5.44	98	8.36	10-4	21
	10	17.55	.59	.70	.43	97	.37	6-3	16
	20	17.45	.61	.75	.39	97	.37	12-5	10
	30	17.40	.59	.74	.30	95	.31	8-6	16
	40	17.30	.59	.76	.30	95	.31	10-4	13
	50	17.20	.59	.79	.17	92	.34	12-0	18
5. ix	0	17.25	19.03	25.00	5.54	98	8.17	9-3	7
	10	17.40	.56	.70	.20	93	.12	9-6	17
	20	17.05	.61	.84	4.75	85	.14	18-19	67
	30	17.00	.58	.82	.47	80	.14	19-5	89
	40	16.70	.59	.90	.39	78	7.89	16-6	100
	50	16.40	.62	26.01	.29	76	8.10	18-7	108
27. x	0	17.55	19.38	25.42	5.14	92	8.02	17-4	32
	10	16.80	.47	.72	4.61	82	7.93	15-2	5
	20	16.70	.54	.83	.47	78	.89	20-0	123
	30	16.05	.57	26.03	.33	76	8.15	16-9	87
	40	15.90	.65	.17	.64	81	.14	19-6	82
	50	15.30	.60	.24	.01	69	.18	22-8	116
6. xii	0	20.20	19.54	24.96	5.65	106	8.17	4-14	0
	10	19.80	.60	25.14	.58	104	.15	4-23	0
	20	19.45	.61	.25	.79	108	.19	2-10	0
	30	16.40	.59	.98	4.30	76	.11	15-17	0
	40	16.10	.55	.98	.17	73	.04	18-12	0
	50	16.10	.56	.98	.05	71	.04	27-30	4
1950									
8. iiii	0	21.35	19.50	24.59	5.37	103	8.09	6-6	0
	10	21.20	.54	.69	.24	100		3-11	0
	20	19.00	.60	25.35	.11	94	7.98	13-8	0
	30	18.30	.60	.53	4.58	83	8.01	21-1	33
	40	17.40	.59	.74	.26	76	.07	17-8	81
	50	17.30	.63	.81	.50	81	.00	17-3	93

Station: PORT STEPHENS

Latitude: 32°43' S.

Longitude: 152°18' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1950									
31.iii	0	21.30	19.40	24.46	4.97	95	8.04	2-19	7
	10	20.50	.52	.85	.98	94	7.82	5-17	5
	20	20.50	.53	.86	.94	93	8.11	3-15	7
	30	18.60	.57	25.41	.98	91	.00	5-22	49
	40	18.60	.69	.57	.21	77	7.73	3-18	54
	50	17.80	.62	.67	3.88	70	.60	5-17	118
2.v	0	21.10	19.24	24.30	5.27	100	8.17	7-4	1
	10	21.40	.32	.33	.21	99	.13	3-9	2
	20	21.20	.34	.41	.21	99	.17	6-4	3
	30	20.85	.38	.57	.27	100	.13	5-7	4
	40	20.50	.38	.66	.08	95	.17	7-4	4
	50	20.45	.44	.75	.12	96	.18	7-2	4
31.vii	0	17.00	18.45	24.25			8.11	10-0	33
	10	18.20	19.25	25.07			.19	10-0	49
	20	18.70	.58	.40			.19	14-4	60
	30	18.90	.70	.51			.26	10-0	48
	40	18.40	.63	.54			.02	11-2	93
	50	17.40	.63	.79			.18	11-1	78
19.viii	0	16.12	18.71	24.82	5.88	102	8.32	6-4	0
	10	16.30	.98	25.14	.90	103	.29	6	0
	20	17.27	19.36	.45	.54	99	.27	4-8	0
	30	17.00	.50	.71	4.53	81	.25	10-8	27
	40	16.98	.58	.83	.67	83	.32	10-10	56
	50	16.91	.59	.85	.65	82	.23	13-6	57
18.ix	0	17.30	19.61	25.78	5.06	91	8.12	12-5	56
	10	17.60	.63	.74	4.96	89	.10	8-9	59
	20	16.35	.60	26.00	.25	75	7.91	8-8	98
	30	16.30	.60	.01	.31	76	8.11	16-4	103
	40	17.00	.64	.01	.67	83	.06	13-4	67
	50	16.20	.60	.03	.42	78	.13	16-1	103

Station: PORT STEPHENS

Latitude: 32°43' S.

Longitude: 152°18' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1950									
9. xi	0	19.90	19.61	25.13	5.05	94	8.12	7-0	1
	10	19.80	.60	.14	.09	95	.11	8-4	0
	20	19.70	.65	.15	.07	94	.12	8-0	2
	30	19.60	.57	.15	4.95	92	.13	8-2	0
	40	19.30	.57	.30	.97	92	.11	12-0	2
	50	19.00	.59	.34	5.04	93	.14	10-4	1
19. xii	0	21.00			5.31		7.93	4-8	0
	10	20.70	19.55	24.83	.32	101	.91	4-7	0
	20	19.80	.60	25.14	.34	100	8.03	3-7	0
	30	19.20	.63	.34	.38	100	.07	6-6	0
	40	18.70	.60	.43	.30	97	7.98	3-8	0
	50	18.70	.60	.43	.30	97	8.02	3-5	14

Station: BOTANY HEADS

Latitude: 34° 01' S.

Longitude: 151° 15' 30" E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1943									
28. ix	0	15.30	19.50	26.10	5.73	99		5-4	9
	10	15.02	.54	.21	.73	98		6	12
	20	14.79	.68	.45	.59	96		3-7	9
	30	14.56	.65	.47	.62	96		7	9
	40	14.40	.67	.53	.52	94		7	17
	50	14.30	.65	.52	.49	93		9-5	20
25. x	0	17.40	19.53	25.64	5.38	91		4-1	
	20	16.70	.65	.98	.04	89		10-0	
	50	15.90	.65	26.17	4.80	87		13-0	
9. xi	0	18.38	19.56	25.45	5.55	101		0-3	4
	20	17.98	.59	.59	.49	99		0-3	15
	30	17.67	.64	.73				0	12
	50	17.22	.59	.78	.46	98		3-3	12
8. xii	0	19.75	19.59	25.14	5.25	98		0-0	3
	20	19.72	.62	.18	.20	97		0-0	3
	30	19.65	.66	.26	.22	97		0-0	0
	40	17.50	.59	.71	4.51	81		3-11	37
1944									
5. i	0	21.85	19.67	24.68	4.91	95		0-0	2
	10	21.58	.69	.78	5.06	97		0-2	4
	20	20.98	.71	.98	.12	98		0-1	4
	30	20.02	.72	25.25	.04	95		0-4	12
	44	17.27	.73	.95	4.49	81		9-0	40
3. ii	0	20.15	19.65	25.12	5.12	96		2-6	
	20	20.18	.65	.11	.05	95		0-8	
	30	20.15	.64	.10	.06	94		2-6	
	45	20.18	.68	.14	.04	94		1-15	
1. iii	0	22.40	19.69	24.55	4.89			3-2	2
	20	22.50	.68	.51	.72			0-2	7
	30	22.50	.72	.57	.91			1-5	9
	50	20.50	.72	.57	.50			5-2	3

Station: BOTANY HEADS

Latitude: 34° 01' S.

Longitude: 151° 15' 30" E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1944									
22. v	0	17.50	19.73	25.90	5.27	95		0-28	20
	20	17.50	.71	.88	.47	98		0-16	20
	30	17.40			.26			0-8	28
	50	17.60	.74	.85	4.88	88		0-10	21
13. x	0	16.50	19.49	25.81	5.39	95		9-2	34
	15	13.65	.56	26.54	.67	95		10-14	26
	45	13.50	.50	.49	4.68	78		13-7	59
7. xi	0	18.30	19.51	25.40	5.54			1-5	0
	10	17.07	.50	.69	.17			3-9	0
	30	15.00	.52	26.19	4.15			23-1	0
	50	15.00	.51	.17	.05			25-0	19
5. xii	0	18.40	19.63	25.54	5.70	104		2-3	0
	20	17.90	.63	.66	.81	105		1-4	0
	30	17.40	.61	.75	.59	100		2-4	2
	50	17.00	.61	.85	.16	92		4-1	0
1945									
31. i	0	19.10	19.79	25.58	5.09	94		0-4	11
	20	18.70	.82	.73	4.74	87		0-4	9
	30	18.20	.82	.86	.71	86		2-3	23
	40	17.95	.79	.87	.58	83		4-22	23
27. iii	0	19.90	19.70	25.25	4.96	93		4-0	9
	20	19.42	.75	.44	5.23	97		1-1	12
	40	19.20	.75	.50	.04	93		6-0	12
	50	19.15	.70	.44	4.94	91		2-2	12
26. iv	0	21.30	18.29	22.94	5.50	104		1-0	75
	10	21.70	19.24	24.13	.45	104		1-0	16
	20	21.70	.22	.10	4.88	93		0-1	19
	30	21.80	.25	.12	.88	94		0-2	13
	40	18.80	.56	25.34	.85	89		1-8	35
	50	17.30	.53	.67	.38	78		2	60

Station: BOTANY HEADS

Latitude: 34° 01' S.

Longitude: 151° 15' 30" E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1945									
21. v	0	18.90	19.07	24.64	5.29	97		1-7	11
	10	20.00	.51	.96	.08	95		0-7	6
	20	19.85	.54	25.04	4.85	90		1-8	8
	30	19.20	.57	.25	.60	85		4-4	27
	40	18.80	.58	.38	.66	86		4-2	21
	50	18.20	.38	.25	5.18	94		0-6	13
19. vi	0	17.20	13.18	16.95	5.36	89		2-11	330
	10	18.45	19.57	25.44	.10	93		3-6	19
	20	18.35	.58	.49	4.84	88		5-3	31
	30	18.20	.59	.54	.79	87		4-3	29
	40	17.40	.60	.74	.42	79		12-0	73
	50	17.25	.63	.82	.12	74		13-2	99
27. viii	0	15.30	19.57	26.19	5.41	93		1-3	30
	10	14.70	.58	.34	.66	97		4-5	30
	20	14.10	.55	.42	4.60	78		10-4	103
	30	13.85	.55	.47	5.66	95		2-6	39
	40	13.80	.53	.45	4.00	67		20-13	129
	50	13.90	.52	.43	.11	69		12-16	111
17. ix	0	17.30	19.58	25.75	5.50	98		0-4	0
	10	16.50	.56	.91	.65	100		0-5	0
	20	16.55	.60	.95	.64	100		0-3	0
	30	15.92	.59	26.08	.73	100		5-2	36
	40	14.48	.55	.34	4.26	73		12-3	120
	50	15.90	.53	.43	.14	70		13-13	140
18. x	0	16.60	19.55	25.86	5.49	96		0-7	9
	10	16.00	.57	26.03	.54	96		1-4	11
	20	15.65	.58	.13	.27	91		5-0	32
	30	15.45	.59	.16	.21	90		5-0	34
	40	15.30	.59	.22	.25	90		6-0	32
	50	15.10	.61	.29	.09	87		7-4	40

Station: BOTANY HEADS

Latitude: 34° 01' S.

Longitude: 151° 15' 30" E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1945									
18. x	0	18.10	19.63	25.62	5.61	102		0-3	3
	10	17.91	.64	.67	.55	101		0-3	3
	20	17.85	.64	.69	.43	98		0-3	3
	30	17.70	.63	.71	.59	101		0-2	3
	40	17.20	.64	.85	.34	95		0-5	3
	50	16.55	.63	.99	.40	95		4-1	3
20. xi	0	16.30	19.59	25.99	5.30	93		5-7	46
	20	15.50	.58	26.17	4.90	85		7-6	74
	30	14.65	.60	.38	.70	80		11-2	91
	50	14.40	.58	.41	.82	82		11-5	88
7. xii	0	18.00	19.59	25.59	5.25	95		8-3	18
	10	17.90	.59	.61	.40	98		8-1	45
	20	17.20	.44	.57	.38	96		6-2	54
	30	16.48	.58	.94	.31	94		11-6	19
	40	15.30	.59	26.21	.19	90		10-0	54
	50	14.65	.56	.32	4.95	84			52
1946									
29. i	0	19.60	19.68	25.30	6.07	99		4-9	18
	10	18.00	.63	.64	3.86	76		6-5	60
	20	17.30	.63	.81	.90	70		10-5	105
	30	16.80	.61	.90	4.01	72		13-11	140
	40	16.50	.62	.98	3.08	55		20-0	180
	50	15.80	.59	26.11	.99	70		11-2	150
12. iii	0	20.40	19.64	25.03	5.08	96		0-1	15
	10	20.50	.64	.00	.13	97		0-1	15
	20	20.40	.64	.03	.10	96		4-0	15
	30	20.00	.64	.14	.20	97		4-3	10
	40	20.10	.64	.11	4.90	92		0-2	8
	50	19.60	.64	.24	.90	91		2-4	15

Station: BOTANY HEADS

Latitude: 34° 01' S.

Longitude: 151° 15' 30" E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1946									
2. iv	0	20.70	19.60	24.90	4.83	91		2-4	4
	10	20.45	.63	25.01	5.00	94		2-3	4
	20	20.40	.64	.03	4.77	90		1-3	4
	30	20.30	.62	.03	.58	86		2-7	4
	40	19.81	.64	.19	.47	83		2-10	4
	50	19.40	.61	.20	.35	83		1-6	13
4. v	0	18.80	19.28	24.95	5.54	98		0-9	18
	10	18.90	.57	25.37	.33	98		5-0	0
	20	18.90	.60	.37	.25	97		2-6	0
	30	19.00	.63	.39	.24	98		1-5	0
	40	19.00	.63	.39	.27	97		2-4	0
	50	18.80	.63	.44	.11	94		2-4	0
11. vi	0	17.80	19.42	25.39	5.05	91		2-3	12
	10	17.70	.41	.41	.04	90		4-0	12
	20	18.50	.57	.43	.03	92		4-0	12
	30	18.20	.52	.43	.00	90		5-0	12
	40	17.60	.58	.68	4.97	89		3-0	12
	50	17.60	.58	.68	.90	90		3-0	12
9. viii	0	15.00	19.68	26.41	5.58	96		2-3	30
	10	15.00	.68	.41	.56	96		4-9	26
	20	14.90	.72	.49	.46	94		1-2	26
	30	14.90	.72	.49	.53	95		2-3	21
	40	14.90	.68	.44	.50	95		5-1	28
	50	14.80	.67	.44	.38	92		5-11	30
12. ix	0	15.10	19.61	26.29	5.30	91		5-0	6
	10	14.90	.59	.31	.43	93		6-0	8
	20	14.80	.62	.35	.43	93		5-1	8
	30	14.80	.59	.32	.39	92		2-1	15
	40	14.70	.64	.42	.32	91		1-5	8
	50	14.70	.61	.38	.34	91		6-0	8

Station: BOTANY HEADS

Latitude: 34° 01' S.

Longitude: 151° 15' 30" E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1946									
9. x	0	16.20	19.89	26.25	5.59	98		0-5	1
	10	15.80	.89	.33	.40	94		6-0	1
	20	15.70	.73	.32	.40	94		3-1	6
	30	15.90	.77	.33	.48	94		3-2	4
	40	14.80	.68	.45	4.85	83		8-4	59
	50	14.60	.65	.46	.83	82		8-8	61
26. xi	0	19.10	19.69	25.45	5.64	104		0-5	12
	10	18.50	.67	.57	.60	103		1-4	10
	20	17.40	.57	.70	.25	94		0-10	12
	30	18.00	.56	.79	.55	100		0-13	12
	40	16.30	.56	.95	4.70	83		10-9	14
	50	15.00	.56	26.25	.20	72		14-6	14
1947									
31. i	0	21.10	19.65	24.86	3.57	68		0-8	12
	10	21.00	.65	.89	.39	65		0-10	14
	20	20.90	.64	.90	2.72	52		0-13	14
	30	20.70	.60	.90	5.00	95		0-14	17
	40	20.20	.64	25.07	4.90	92		0-1	12
	50	19.90	.64	.16	5.48	102		20-1	14
3. iii	0	20.40	19.53	24.88	5.07	95		7-0	
	10	20.00	.56	25.03	4.12	97		9-5	
	20	20.00	.57	.04	.55	85		16-9	
	30	19.30	.58	.25	.79	89		15-7	
	40	19.00	.58	.32	.13	76		19-16	
	50	18.50	.56	.42	.12	75		19-0	
1. iv	0	20.00	19.59	25.07	4.93	92		3-4	7
	10	19.20	.58	.27	.75	88		5-12	32
	20	17.70	.55	.60	.73	85		5-5	49
	30	17.70	.55	.60	.76	86		5-5	59
	40	17.40	.57	.70	.66	84		8-11	82
	50	17.00	.57	.80	.95	88		9-5	94

Station: BOTANY HEADS

Latitude: 34° 01' S.

Longitude: 151° 15' 30" E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1947									
1. v	0	19.50	19.57	25.16	5.15	96		1-2	59
	10	19.40	.61	.20	4.81	89		1-2	12
	20	19.00	.63	.22	5.08	94		0-1	5
	30	19.40	.65	.25	.08	94		0-3	0
	40	19.50	.67	.28	.05	94		0-6	0
	50	19.40	.67	.27	.18	96		0-3	0
26. v	0	18.80	19.55	25.32	5.01	92		0-5	32
	10	18.80	.59	.38	4.86	89		1-9	40
	20	18.80	.61	.41	.83	89		1-7	45
	30	18.80	.63	.44	.76	88		3-3	46
	40	18.50	.66	.55	.40	80		1-6	60
	50	18.30	.68	.63	.63	84		3-7	68
23. vi	0	16.40	19.62	26.00	5.21	91		1-7	18
	10	16.40	.61	25.99	.26	93		3-4	47
	20	16.40	.63	26.02	.21	92		3-5	42
	30	16.50	.64	.01	.15	91		3-5	40
	40	16.50	.65	.03	.26	93		1-5	42
	50	16.50	.63	.00	.15	91		3-7	36
22. vii	0	16.00	19.64	26.13	5.37	94		1-9	42
	10	15.40	.62	.23	4.95	87		5-5	50
	20	15.20	.64	.31	5.06	87		6-1	60
	30	14.80	.64	.39	.32	91		7-5	73
	40	14.30	.59	.44	.28	90		7-0	55
	50	14.20	.58	.45	.40	92		7-3	60
5. ix	0	16.50	19.66	26.04	5.25	93		10-11	52
	10	16.20	.68	.14	.25	92		6-13	42
	20	15.90	.64	.15	.13	90		18-6	58
	30	15.30	.63	.27	4.94	85		17-2	63
	40	15.15	.61	.28	5.01	86		19-0	66
	50	14.75	.66	.44	.07	87		15-1	56

Station: BOTANY HEADS

Latitude: 34° 01' S.

Longitude: 151° 15' 30" E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1947									
22. ix	0	16.90	19.73	26.04	6.14	109		2-13	18
	10	16.80	.72	.05	.10	108		3-8	14
	20	16.60	.74	.13	.08	108		0-11	18
	30	16.20	.71	.18	5.43	94		5-5	27
	40	15.90	.69	.22	.32	93		8-9	41
	50	15.45	.70	.34	.05	88		10	72
19. x	0	16.60	19.67	26.03	5.65	100		10-5	3
	10	16.65	.67	.02	.64	100		5-17	5
	20	16.40	.47	.08	.55	98		3-12	28
	30	15.80	.64	.17	.26	92		10-9	78
	40	15.30	.62	.25	.14	89		6	80
	50	15.20	.65	.33	4.93	85		13	89
7. xi	0	17.50	19.69	25.85	5.95	107		8-0	0
	10	17.50	.66	.80	.85	105		8-5	0
	20	16.85	.68	.98	.82	103		10-0	0
	30	16.60	.66	26.02	.65	100		11-0	7
	40	13.50	.56	.57	4.94	83		20-2	122
	50	13.60	.57	.56	.81	81		18-6	106
1948									
22. i	0	20.20	19.52	24.93	5.00	94		3-1	41
	10	20.60	.52	.81	.10	96		4-0	47
	20	20.20	.53	.93	4.95	93		5-13	32
	30	19.80	.58	25.12	.95	92		5	37
	40	19.70	.59	.15	.88	91		4	2
	50	19.40	.60	.24	.78	89		7	2
16. ii	0	18.50	19.41	25.21	6.32	98		17-3	0
	10	16.80	.53	.79	4.72	84		20-9	3
	20	16.40	.55	.91	.55	80		19-10	4
	30	16.70	.55	.84	.41	78		22-32	1
	40	15.80	.57	26.08	.32	75		20-7	0
	50	16.00	.56	.02	.22	74		20-1	0

Station: BOTANY HEADS

Latitude: 34° 01' S.

Longitude: 151° 15' 30" E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1948									
18. iii	0	21.60	19.60	24.65	5.18	99		8	3
	10	21.35	.62	.74	.30	101		5-6	4
	20	21.15	.64	.83	.40	103		4-6	3
	30	20.80	.65	.94	.20	98		4-10	3
	40	20.70	.63	.94	.32	101		3	9
	50	20.60	.62	.95	.32	101		4-6	0
28. iv	0	18.50	19.66	25.56	5.35	98		4-7	0
	10	18.50	.70	.62	.17	95		3-8	0
	20	18.40	.70	.64	.16	94		4-5	0
	30	18.30	.71	.68	.20	95		4-4	0
	40	18.00	.68	.71	.51	100		6-5	0
	50	17.90	.65	.70	.32	96		2-6	0
14. v	0	17.80	18.93	24.44	5.81	104		6-0	13
	10	18.60	19.55	25.38	3.39	62		5-3	7
	20	18.60	.56	.40				7-6	9
	30	18.55	.61	.48	5.06	93		7-1	6
	40	18.50	.66	.56	.06	93		6-2	8
	50	18.50	.59	.47	.00	91		7-1	111
15. vii	0	16.40	19.65	26.06	5.05	89		10-4	6
	10	16.50	.62	25.98	2.48	44		10-4	0
	20	16.20	.62	26.05	1.42	25		10-5	21
	30	16.70	.66	.00	3.40	60		10-6	2
	40	15.50	.60	.19	2.70	47		14-5	16
	50	15.20	.60	.26	3.86	67		16-0	0
13. viii	0	16.00 ^b	19.63	26.12	6.22	109		3-4	2
	10	15.93	.97	.12	.25	110		5-2	3
	20	16.00	.61	.09	.14	107		3-11	0
	30	15.90	.58	.08	.03	105		4-4	0
	40	15.80	.61	.14	.17	107		3-8	0
	50	15.80	.66	.21	.05	106		6-39	0

Station: BOTANY HEADS

Latitude: 34° 01' S.

Longitude: 151° 15' 30" E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1948									
23. ix	0	16.50	19.64	26.01	5.58	98	7.92	7-2	15
	10	15.80	.64	.18	.55	97	8.13	9-2	10
	20	15.80	.64	.18	4.06	71	.16	9-4	14
	30	15.15	.64	.32	5.40	93	.14	12-1	16
	40	15.20	.65	.33	.23	90	.14	12-1	33
	50	14.60	.64	.44	.02	86	.13	12-2	43
21. x	0	17.40	19.60	25.75	5.41	97		5-3	5
	10	16.80	.58	.87	.52	98		5-3	5
	20	15.80	.57	26.08	.51	96		6-2	7
	30	15.60	.57	.13	.14	89		11-2	3
	40	15.40	.53	.11	4.95	86		13-2	49
	50	14.85	.54	.25	.59	79		12-13	102
9. xi	0	15.00	19.61	26.31	5.23	90	8.35	10-15	66
	10	14.30	.59	.44	.04	86	.42	18-12	82
	20	14.50	.57	.41	4.97	85	.40	19-4	120
	30	13.00	.54	.64	.98	83	.41	22-1	130
	40	14.00	.55	.65	.69	79	.39	23-0	123
	50	14.60	.55	.65	.72	80	.26	23-15	122
1949									
8. ii	0	23.40	19.61	24.16	5.08	101	8.22	3-7	0
	10	21.55	.61	.68	.28	101	.24	1-6	0
	20	21.20	.61	.78	.66	108	.19	3-4	0
	30	20.15	.63	25.09	.47	103	.21	3-4	0
	40	19.40	.63	.29	.55	103	.25	6-3	6
	50	18.30	.62	.55	.37	98	.20	6-3	7
20. iv	0	19.40	19.58	25.23	4.55	84	8.15	7-4	0
	10	19.20	.62	.32	.78	88	.26	7-3	6
	20	18.80	.65	.47	.94	91	.23	9-0	23
	30	17.60	.62	.72	5.09	92	.21	12-0	60
	40	16.70	.65	.99	4.66	82	.21	16-0	106
	50	15.75	.59	26.12	.15	72	.21	15-0	112

Station: BOTANY HEADS

Latitude: 34° 01' S.

Longitude: 151° 15' 30" E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1949									
16. v	0	19.80	19.68	25.25	5.23	98	8.23	9-0	4
	10	19.70	.69	.30	.24	98	.26	6-2	3
	20	19.60	.68	.30	.27	98	.24	7-5	4
	30	19.60	.68	.30	.22	97	.36	6-0	4
	40	19.21	.70	.43	.11	95	.22	9-3	2
	50	19.20	.72	.46	.08	94	.23	12-0	7
9. vi	0	16.40	19.35	25.65			8.18	10-5	25
	10	17.00	.55	.77			.20	9-3	18
	20	17.00	.57	.80			.20	10-1	15
	30	16.80	.55	.82			.18	5-6	21
	40	17.60	.63	.89			.20	9-0	25
	50	17.40	.70	.88			.18	9-0	24
21. vii	0	14.00	19.39	26.22	5.44	92	8.12	15-2	82
	10	14.50	.57	.37	.61	95	.13	18-2	92
	20	15.00	.63	.34	.25	90	.12	14-6	92
	30	15.05	.52	.18	.08	87	.12	20-0	83
	40	14.50	.50	.27	.03	86	.13	20-2	91
	50	14.00	.43	.28	4.71	79	.10	20-3	98
20. ix	0	20.30	19.59	25.00	5.45	102		4-7	0
	10	20.30	.59	.00	.45	102		6-4	0
	20	19.90	.60	.12	.48	102		4-6	0
	30	17.90	.56	.57	.38	97		6-6	0
	40	15.90	.55	26.03	.28	92		6-3	0
	50	15.70	.56	.09	.45	95		8-1	0
14. xi	0	18.70	19.63	25.47	5.38	99	8.23	7-2	
	10	18.40	.63	.54	.64	103	.23	7-2	
	20	18.20	.60	.55	.50	100	.22	5-5	
	30	17.20	.59	.79	.22	93	.19	7-8	
	40	15.50	.55	26.12	4.55	79	.16	17-3	
	50	15.20	.56	.21	.49	77	.15	17-3	

Station: BOTANY HEADS

Latitude: 34° 01' S.

Longitude: 151° 15' 30" E.

Date	Depth (m.)	Temp. °C.	Cl. ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1950									
13. i	0	20.80	19.55	24.81	5.12	97	8.13	7-9	2
	10	19.40	.53	25.00	4.67	87	.14	10-5	7
	20	19.40	.55	.18	.62	86	.19	10-4	11
	30	17.60	.55	.48	.73	85	.15	12-2	15
	40	17.10	.56	.77	.83	86	.14	17-2	20
	50	15.75	.55	.96	5.01	87	.16	6-10	30
8. ii	0	21.20	18.90	23.81	5.45	103	8.05	6-3	0
	10	20.80	19.22	24.35	.34	101	.02	6-8	0
	20	20.50	.46	.76	.15	97	.12	8-0	0
	30	20.00	.58	25.07	4.81	90	.07	10-6	14
	40	19.00	.56	.30	.89	90	.01	10-3	12
	50	19.50	.62	.24	.36	81	7.97	14-0	29
3. v	0	19.00	19.23	24.84	5.55	102	8.19	8-4	4
	10	19.60	.37	.88	.42	101	.20	5-5	1
	20	19.70	.40	.89	.47	102	.18	8-2	1
	30	19.80	.44	.92	.57	104	.19	6-9	1
	40	19.80	.51	25.01	.90	110	.19	6-9	1
	50	19.70	.52	.06	.36	100	.18	10-4	5
4. vii	0	17.70	18.67	24.39	5.72	102	8.20	7-1	57
	10	17.70	19.32	25.29	.42	97	.23	7-4	7
	20	17.80	.47	.47	4.51	81	.19	6-3	10
	30	17.50	.47	.55	5.17	93	.21	9-1	4
	40	17.70	.66	.76	4.84	87	.16	10-1	32
	50	19.30	.39	.72	.93	91	.15	12-2	45
1. viii	0	16.90	18.31	24.09	5.32	93	8.15	10-9	62
	10	16.90	19.27	25.42	4.98	88	.12	12-9	68
	20	16.60	.54	.86	.73	84	.16	12-0	67
	30	16.20	.60	26.03	.87	85	.04	13-2	58
	40	16.00	.59	.07	.77	83	.19	11-2	50
	50	15.40	.55	.14	.82	83	.07	11-7	83

Station: BOTANY HEADS

Latitude: 34° 01' S.

Longitude: 151° 15' 30" E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1950									
4. ix	0	16.90	19.50	25.73	5.70	101	8.26	5-7	0
	10	16.90	.51	.74	.58	99	.28	8-2	8
	20	16.80	.52	.79	1.59	28	.26	8-6	0
	30	16.80	.50	.76	5.53	98	.26	9-2	4
	40	16.70	.51	.79	2.15	38	.26	7-4	4
	50	16.60	.50	.80	6.01	106	.25	6-4	11
5. x	0	18.40	19.50	25.37	5.83	106	8.21	4-6	2
	10	18.40	.51	.38	6.17	113	.21	4-5	2
	20	17.90	.48	.46	5.22	94	.16	12-7	2
	30	17.90	.50	.49	.78	104	.09	4-21	2
	40	17.70	.49	.53	4.83	87	.17	10-12	18
	50	17.70	.50	.54	5.82	105	.20	6-5	76
30. x	0	19.20	19.43	25.07	5.42	100	8.23	4-5	1
	10	19.00	.42	.09	.42	100	.25	2-8	1
	20	18.90	.52	.26	.39	99	.24	7	0
	30	18.40	.65	.57	.07	93	.22	7-3	11
	40	18.90	.55	.76	4.83	89	.19	9-5	19
	50	16.30	.56	.95	.14	73	.14	17-3	78
28. xi	0	19.80	19.53	25.04	4.79	89	8.18	2-1	2
	10	19.70	.60	.17	5.40	101	.08	1-11	0
	20	19.70	.62	.19	.48	102	.17		16
	30	19.20	.70	.43	.25	97	.07	6-35	3
	40	18.80	.66	.48	.22	96	.08		1
	50	18.70	.76	.65	4.98	92	.12	4-14	7

Station: PORT HACKING

Latitude: 34°05' S.

Longitude: 151°13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1942									
6. xii	0	19.72	19.71	25.32	5.38	100		0	5
	10	19.40	.68	.35	.27	98		0	0
	20	19.08	.68	.43	.19	96		0	5
	30	18.30	.66	.60	.17	94		0	1
	40	17.73	.68	.77	.93	89		0	3
26. xii	0	20.55	19.61	24.95	5.45	103		0	3
	10	20.45	.63	25.01	.10	96		0	1
	20	20.53	.61	24.96	.85	110		0	0
	30	17.37	.61	25.76	4.92	88		5	12
	40	15.95	.61	26.10	.31	75		5	45
	50	15.75	.58	.11	.12	72		5	33
1943									
16. i	0	20.21	19.68	25.14	5.46	102		0	0
	10	19.89	.60	.12	.57	104		0	0
	20	18.38	.64	.55	.32	97		0	0
	30	17.76	.63	.69	.06	91		3	12
	40	17.09	.56	.77	4.74	84		5	17
	50	16.09	.59	26.04	.39	77		9	30
30. i	0	19.56	19.58	25.18	5.00	97		3	5
	10	18.37	.57	.47	4.90	89		5	0
	20	17.68	.54	.59	.61	83		4	20
	30	17.42	.55	.67	.61	83		6	20
	40	16.55	.53	.85	.35	77		9	30
	50	16.41	.55	.91	.33	77		9	36
13. ii	0	21.18	19.76	24.99	5.00	96		0	12
	10	20.78	.71	25.03	.03	95		0	3
	20	20.55	.72	.10	.11	96		0	3
	30	18.75	.70	.54	4.98	91		1	6
	40	18.58	.70	.59	.59	84		0	12
	50	18.00	.70	.73	.88	93		0	8

Station: FORT HACKING

Latitude: 34°05' S.

Longitude: 151°13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1943									
27. iii	0	21.94			4.92	95		2-0	14
	10	21.78			5.13	99		2-2	17
	20	21.65			.10	98		0-5	14
	30	21.48			4.70	90		5-6	11
	40	20.82			.70	89		4-5	28
	50	19.15			.32	80		6-20	45
10. iv	0	22.00	19.77	24.77	4.73	92		4-5	0
	10	21.98	.76	.77	.90	95		4-7	0
	20	21.30	.76	.95	.79	92		3-9	4
	30	20.40	.75	25.18	.60	87		9-4	4
	40	19.58	.75	.40	.31	80		7-7	18
	50	18.68	.72	24.59	.06	73		8-17	27
8. v	0	20.57	19.74	25.13	4.29	81		6-1	0
	10	20.53	.68	.04	5.06	95		5-5	0
	20	20.52	.74	.14	.12	97		4-6	0
	30	20.53	.78	.19	4.98	94		4-6	0
	40	20.45	.80	.24	.96	94		2-8	0
	50	20.45	.76	.19	5.02	95		5-5	0
5. vi	0	17.10	19.20	25.26	5.31	94		3-5	22
	10	17.80	.26	.17	4.88	88		4-4	22
	20	17.67	.36	.27	5.09	91		5-1	33
	30	18.02	.68	.70	4.62	84		8-1	42
	37	18.10	.75	.77	.19	76		7-4	33
	47	18.08	.71	.73	.34	79		9-3	39
12. vi	0	18.05	19.47	25.41				3-2	14
	10	18.10	.54	.49	4.54	82		1-4	11
	20	17.70	.53	.57	5.49	98		1-3	6
	30	17.60	.63	.74	.21	94		3-0	11
	40	18.25	.72	.70	4.81	88		3-7	19
	50	18.10			3.82	69			

Station: PORT HACKING

Latitude: 34° 05' S.

Longitude: 151° 13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1943									
19. vi	0	17.50	19.64	25.77	4.83	87		5-2	16
	10	17.53	.63	.75	5.23	94		1-6	14
	20	17.40	.64	.79	.25	94		3-4	8
	30	17.00	.60	.84	.42	96		7-1	30
	40	16.20	.61	26.04	4.37	77		9-5	48
	50	15.70	.61	.16	.28	74		12-4	48
17. vii	0	15.70	19.69	26.27	5.40	94		5-5	19
	10	15.70	.68	.25	.48	95		4-4	22
	20	15.85	.69	.23	.13	90		4-3	27
	30	15.85	.69	.23	4.93	86		3-5	27
	40	15.90	.69	.22	.87	85		1-4	22
	50	15.80	.70	.26	.09	71		1-4	19
31. vii	0	15.55	19.68	26.28				4-5	30
	10	15.20	.64	.31				4-5	13
	20	15.20	.64	.31				5-0	24
	30	15.20	.67	.35				3-0	7
	38	15.20	.67	.35				4-3	11
	45	15.20	.73	.43				3-2	7
	50	14.93	.66	.39				0	22
7. viii	0	14.80	19.72	26.51	5.62	96		7-2	28
	10	14.80	.72	.50	.50	94		6-5	28
	20	14.80	.69	.47	.52	95		5-6	33
	30	14.70	.69	.49	.42	93		7-0	33
	40	14.70	.70	.50	.41	92		7-3	28
	50	14.60	.73	.58	.55	95		4-4	28
18. viii	0	14.85	19.67	26.43	5.87	101		6-0	20
	10	14.80	.72	.51	.75	99		5-2	22
	20	14.80	.70	.48	.89	101		5-2	22
	30	14.70	.71	.52	.72	98		4-5	20
	40	14.58	.72	.56	.89	101		5-2	20
	50	14.08	.72	.67	.85	99		4-12	14

Station: PORT HACKING

Latitude: 34° 05' S.

Longitude: 151° 13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1943									
28. viii	0	13.70	19.35	26.23	5.52	92		3-7	25
	10	14.13	.48	.32	.62	95		2-7	25
	20	14.48	.67	.51	.55	95		3-6	20
	30	14.47	.63	.46	.70	97		3-3	13
	40	14.52	.72	.57	.50	94		4-5	20
	50	14.22	.67	.57	.48	93		5-6	22
7. ix	0	14.55	19.57	26.35	6.06	103		5-7	4
	10	14.40	.67	.53	.07	103		5-7	4
	20	14.35	.72	.61	.06	103		6-6	4
	30	14.22	.66	.55	5.84	99		6-8	7
	40	14.05	.65	.58	.79	98		11-9	0
	50	14.00	.65	.59	.63	95		11-7	4
10. ix	0	15.00	19.66	26.38	6.16	106		4-3	0
	10	14.60	.68	.50	.06	103		5-15	0
	20	14.30	.62	.47	.13	104		5-5	0
	30	14.00	.63	.56	.03	102		7-9	5
	40	13.80	.70	.70	5.69	96		10-7	12
	50	14.10	.65	.57	.97	101		8-6	0
21. ix	0	14.55	19.70	26.54	5.95	102		7-7	18
	10	14.45	.73	.62	.72	97		7-5	20
	20	14.65	.69	.50	.75	98		7-5	18
	30	14.30	.68	.56	.72	97		9-3	14
	40	14.12	.71	.65	.71	97		10-2	20
	50	14.23	.69	.59	.71	97		9-5	20
25. ix	0	14.74	19.69	26.49	5.93	102		6-3	7
	10	14.70	.71	.52	.87	101		5-6	9
	20	14.70	.68	.48	6.04	103		6-5	9
	30	14.69	.66	.46	5.89	101		5-1	7
	40	14.69	.70	.52	.86	99		5-3	4
	50	14.69	.70	.55	.92	101		7-0	4

Station: PORT HACKING

Latitude: 34° 05' S.

Longitude: 151° 13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1943									
2. x	0	15.67	19.60	26.15	5.98	104		2-4	9
	10	15.35	.60	.15	.92	102		4-1	9
	20	15.60	.61	.18	.78	100		5-3	7
	30	14.93	.66	.39	.63	97		6-2	9
	40	14.70	.67	.46	.60	96		7-2	9
	50	14.41	.66	.50	.45	93		8-1	17
19. x	0	17.60	19.60	25.70	5.49	99		2-8	11
	10	16.70	.62	.93	.12	91		8-1	26
	20	15.65	.61	26.17	.05	88		6-7	40
	30	15.45	.60	.20	.04	87		8-3	42
	40	16.40	.60	25.98	.08	88		7-3	28
	50	14.33	.65	26.52	4.89	83		14-2	69
23. x	0	17.75	19.74	25.85	5.66	106		2-6	11
	10	17.70	.73	.84	.61	101		2-1	7
	20	17.60	.73	.87	.66	102		3-2	7
	30	17.72	.73	.84	.53	99		5-0	7
	40	17.72	.74	.86	.59	101		0-3	7
	50	17.22	.68	.89	.49	98		3-2	4
31. x	0	17.70	19.65	25.71	5.04	91		1-2	7
	10	17.60	.60	.70	4.72	85		1-3	2
	20	17.60	.60	.70	5.01	90		0-3	0
	30	17.65	.66	.76	.25	95		0-1	2
	40	17.60	.66	.77	4.99	90		0-3	2
	50	16.30	.65	26.08	.87	86		6-0	23
13. xi	0	18.55	19.61	25.47	5.45	100		0-1	20
	10	18.45	.65	.55	.43	99		0-0	16
	20	18.60	.68	.55	.35	98		0-0	14
	30	17.43	.71	.89	4.99	90		1-4	35
	40	15.45	.67	26.30	.29	74		10-4	79
	50	14.52	.59	.39	.11	69		21-7	100

Station: PORT HACKING

Latitude: 34° 05' S.

Longitude: 151° 13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1943									
23. xi	0	18.33	19.63	25.52	5.48	100		0-0	11
	10	17.95	.68	.70	.49	100		0-0	8
	20	18.05	.67	.65	.63	102		0-0	8
	30	17.40	.63	.75	.52	99		0-1	6
	40	16.90	.57	.76	.43	96		1-3	17
	50	16.12	.62	26.03	4.74	83		8-1	35
30. xi	0	18.70	19.58	25.34	5.38	99		0-3	8
	10	18.60	.66	.53	.47	100		0-0	0
	20	18.53	.68	.57	.57	102		0-0	0
	30	18.50	.73	.65	.54	102		0-0	2
	40	16.57	.62	.96	.00	88		0-9	17
	50	16.80	.66	.97	.09	88		1-8	15
7. xii	0	20.00	19.67	25.18	5.18	97		0-5	0
	10	19.74	.67	.25	.09	95		0-2	2
	20	18.47	.65	.55	4.95	90		1-6	8
	30	17.56	.63	.75	.79	86		0-7	14
	40	16.70	.63	.95	.88	86		3-5	37
	50	16.13	.64	26.10	.48	79		7-3	33
14. xii	0	19.40	19.66	25.32	4.77	88		0-3	0
	10	18.90	.72	.54	5.07	93		0-1	2
	20	18.70	.73	.59	4.98	92		0-1	0
	30	18.34	.76	.73	.72	86		0-5	4
	40	18.09	.76	.80	.28	78		0-4	4
	50	17.05	.71	.98	.48	80		6-3	22
20. xii	0	19.28	19.67	25.37	5.31	98		0-0	2
	10	18.84	.72	.55	.39	99		0-0	4
	20	18.80	.72	.56	.27	97		0-0	0
	30	18.75	.78	.66	.29	97		0-0	0
	40	18.70	.77	.65	.04	92		0-1	2
	50	18.00	.76	.82	4.92	89		1-11	0

Station: PORT HACKING

Latitude: 34° 05' S.

Longitude: 151° 13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1944									
4.1	0	21.72	19.63	24.66	5.12	99		0-5	4
	10	20.50	.65	25.02	.28	100		0-5	7
	20	19.10	.70	.46	.27	97		0-6	7
	30	17.70	.71	.83	4.67	84		4-5	20
	50	15.78	.71	26.28	.46	78		8-5	61
17.1	0	20.60	19.52	24.82	5.40	102		3	0
	30	19.15	.62	25.33				5	0
	50	15.80	.66	26.20	4.51	77		13	
26.1	0	21.00	19.73	24.99	4.72	90		3-0	0
	10	20.85	.76	25.08	.49	85		3-0	0
	20	20.60	.70	.06	5.06	96		1-0	0
	30	19.50	.78	.47	.20	97		3-8	8
	40	17.25	.71	.94	4.08	91		9-16	6
	50	16.80	.64	.94				11-24	35
5.11	0	21.10	19.63	24.83	5.17	99		0-4	0
	10	21.03	.67	.90	.01	95		0-5	0
	20	20.73	.77	25.12	.17	98		1-6	0
	30	19.25	.72	.44	.00	93		3	4
	40	19.65	.82	.48	.17	96		1-5	0
	50	17.40	.77	.98	4.63	83		9-2	12
11.11	0	23.75	19.57	24.00	4.62	92		1-0	12
	10	23.70	.56	.00	.78	95		0-3	12
	20	23.32	.59	.15	.87	96		0-2	6
	30	21.20	.59	.15	5.07	97		0-4	12
	40	20.80	.60	.88	.04	95		1-2	16
	50	18.18	.62	25.42	.01	92		3-0	20
18.11	0	22.55	19.67	24.48	4.76	93		1-5	9
	10	22.55	.69	.51	.79	94		0-7	4
	20	21.43	.71	.86	.92	94		3-3	0
	30	21.25	.71	.90	.97	95		1-2	7
	40	21.12	.72	.95	.92	94		2-0	4
	50	21.12	.73	.96	.92	94		3-0	0

Station: FORT HACKING

Latitude: 34° 05' S.

Longitude: 151° 13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1944									
3.111	0	22.60	19.73	24.26	5.11	100		0-0	3
	10	22.60	.74	.28	4.99	94		0-1	17
	20	21.75	.78	.86	5.15	99		0-1	20
	30	21.50	.81	.97	.21	100		0-3	9
	40	20.50	.78	25.20	4.99	97		0-1	20
	50	19.55	.73	.38	.88	91		0-0	38
28.111	0	20.70	19.74	25.09				2-3	9
	10	20.80	.72	.03	4.66	88		5-3	12
	20	19.60	.69	.32	3.83	71		4-5	24
	30	18.20	.66	.62	4.68	84		3-7	20
	40	18.16	.69	.68	.69	84		6-5	41
	50	18.20	.68	.65	.61	82		6-7	32
18.1v	0	19.40	19.68	25.35	5.19	96		0-5	3
	10	19.40	.68	.35	.24	97		3-3	3
	20	19.39	.71	.40	.24	97		0-5	3
	30	19.30	.71	.42	.15	96		0-4	9
	40	19.30	.74	.37	.33	99		1-5	11
	50	19.30	.74	.46	.26	98		1-4	3
27.1v	0	19.60	19.74	25.38	5.30	99		0-2	0
	10	19.60	.74	.38	.23	94		0-2	0
	20	19.65	.74	.37	.36	100		0-2	3
	30	19.40	.77	.47	.12	94		1-2	0
	40	19.15	.78	.56	.41	99		0-2	0
	50	18.90	.74	.56	.28	95		2-9	0
2.v	0	19.05	19.78	25.58	5.28	97		0-7	0
	10	19.00	.76	.57	.23	96		0-5	4
	20	18.50	.73	.65	.33	97		1-8	2
	30	18.80	.72	.54	.20	96		1-4	0
	40	18.62	.78	.69	4.57	84		2-5	2
	50	18.52	.72	.63	.96	91		2-5	9

Station: PORT HACKING

Latitude: 34° 05' S.

Longitude: 151° 13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1944									
11. v	0	18.05	19.58	25.56	5.29	96		7-30	3
	10	18.10	.73	.75	.15	94		7-13	15
	20	18.20	.73	.72	.16	94		2-35	9
	30	18.00	.73	.77	.09	92		2-27	2
	40	18.00	.71	.75	.02	91		2-24	15
	50	18.00	.68	.70	.12	93		10-10	9
16. v	0	18.00	19.74	25.79	4.42	80		0-28	9
	10	18.00	.74	.79	5.00	91		0-24	22
	20	17.98	.70	.74	.16	94		0-35	22
	30	18.00	.69	.72	.09	92		0-29	15
	40	18.00	.77	.83	.06	92		0-26	20
	50	18.00	.73	.77	.22	95		0-28	9
27. v	0	17.58	19.74	25.89	5.36	97		5-0	4
	20	17.60	.73	.87	.33	96		1-3	0
	30	17.48	.75	.93	.06	91		0-5	0
	40	17.60	.75	.90	.39	97		2-3	0
	50	17.53	.73	.89	.17	93		8-18	0
29. v	0	17.50	19.69	25.85	5.45	98		3	4
	10	17.45	.72	.90	.40	97		2-0	0
	20	17.50	.72	.89	.36	96		1-3	0
	30	17.45	.71	.89	.36	96		0-2	4
	40	17.45	.71	.89	.30	95		2-0	6
	50	16.80	.59	.87	4.71	84		7-0	26
30. v	0	17.30	19.71	25.92	5.67		8.25	0	2
	10	17.30	.73	.94	.40	97	.23	2-2	4
	20	17.25	.73	.95	.53	99	.23	0-2	0
	30	17.30	.74	.96	.42	97	.23	0-3	0
	40	17.12	.73	.99	.42	97	.23	2-4	6
	50	16.90	.68	.97	.31	95	.22	16-0	4

Station: PORT HACKING

Latitude: 34° 05' S.

Longitude: 151° 13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1944									
31. v	0	17.60	19.77	25.93	5.54	100	8.31	0-2	0
	10	17.25	.72	.94	.60	100	.30	0-3	10
	20	17.20	.73	.97	.44	97	.27	0-2	4
	30	17.25	.73	.95	.44	97	.27	0-4	10
	40	17.30	.73	.95	.55	99	.23		
	50	17.30	.73	.95	.49	99	.18	0-3	6
3. vi	0	17.13	19.73	25.98	5.40	98		1-2	9
	10	17.15	.74	26.00	.36	97		1-4	9
	20	17.08	.71	25.98	.49	99		0-4	7
	30	17.10	.70	.95	.39	98		0-2	7
	40	17.10	.71	.97	.46	99		0-2	11
	50	17.08	.74	26.01	.43	98		0-3	9
7. vi	0	17.20	19.72	25.96	5.32	95	8.32	0-5	13
	10	17.20	.70	.93	.29	94	.28	0-6	8
	20	17.12	.71	.97	.31	95	.27	0-7	7
	30	17.18	.69	.93	.37	96	.24	0-6	4
	40	17.10	.72	.98	.09	91	.21	0-9	12
	50	16.90	.68	.97	.12	91	.24	0-11	8
14. vi	0	17.15	19.69	25.92	5.69	102	8.39	5-1	11
	10	16.80	.70	26.02	.63	100	.24	2-6	14
	20	16.82	.67	25.98	.67	101	.20	1-5	10
	30	16.85	.69	26.00	.34	95	.15	2-4	11
	40	16.80	.74	.08	.60	99	.27	3-5	11
	50	16.50	.74	.15	.12	90	.26	9-0	36
21. vi	0	16.40	19.76	26.20	5.70	101		0-5	20
	20	16.40	.76	.21	.68	100		0-5	12
	30	16.32	.75	26.20	.63	99		0-5	10
	50	16.24	.73	.19	.68	100		0-3	14
8. vii	0	16.65	19.70	26.06	5.63	100	8.16	5-0	12
	20	16.55	.69	.07	.48	97	.23	4-0	14
	40	14.65	.63	.42	.03	86	.13	7-2	39
	50	14.75	.62	.37	.16	88	.12	9-0	39

Station: PORT HACKING

Latitude: 34° 05' S.

Longitude: 151° 13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1944									
21. vii	0	15.30	19.67	26.33	5.82	101		0-6	21
	10	15.35	.69	.35	.80	100		0-10	19
	20	15.45	.70	.34	.80	101		0-13	18
	30	15.20	.70	.39	.82	101		0-10	13
	40	15.00	.70	.44	.75	99		2-11	19
	50	14.70	.69	.49	.81	99		2-7	26
28. vii	0	16.35	19.69	26.12	5.70	101	8.12	5-5	12
	10	16.30	.70	.14	.68	100	.20	3-6	21
	20	15.42	.70	.34	.69	99	.24	4-5	16
	30	15.42	.69	.33	.30	92	.19	6-5	17
	40	15.15	.69	.39	.68	98	.16	5-7	20
	50	14.83	.67	.44	.77	99	.20	6-5	21
4. viii	0	16.80	19.75	26.09	5.62	100	8.17	1-2	9
	10	16.80	.77	.12	.60	99	.21	0-4	6
	20	16.80	.75	.09	.60	99	.22	0-5	5
	30	16.60	.78	.20	.60	99	.19	2-1	0
	40	16.10	.75	.25	.62	98	.19	2-1	0
	50	15.50	.74	.38	.62	98	.23	3-2	14
26. viii	0	15.90	19.59	26.08	5.57	97		4-2	10
	10	15.85	.70	.24	.55	97		0-5	8
	20	15.90	.68	.20	.60	98		2-2	8
	30	15.90	.71	.25	.55	97		4-0	8
	40	15.25	.64	.30	.28	91		6-3	22
	50	15.10	.61	.29	.15	89		7-0	44
1. ix	0	15.90	19.69	26.22	5.58	97		1-3	4
	10	15.95	.68	.19	.58	97		2-3	4
	20	15.90	.69	.22	.53	97		1-3	4
	30	15.70	.69	.27	.53	96		5-0	12
	40	15.50	.72	.36	.38	93		5-1	14
	50	15.00	.69	.43	.10	88		8-1	44

Station: PORT HACKING

Latitude: 34° 05' S.

Longitude: 151° 13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1944 8. ix	0	16.83	19.67	25.98	5.57	99	8.16	0-6	0
	10	16.08	.67	26.15	.54	97	.19	2-7	0
	20	15.70	.70	.28	.12	89	.14	4-4	5
	30	15.60	.68	.27	.50	95	.21	2-7	0
	40	14.80	.62	.37	4.84	83	.13	11-7	27
	50	14.67	.67	.47	.81	82	.05	11-4	5
14. ix	0	16.68	19.63	25.96	5.55	98	8.20	5-3	5
	10	16.62	.63	.97	.55	98	.22	4-3	5
	20	16.40	.61	.99	.42	95	.27	6-1	5
	30	15.90	.63	26.14	.18	90	.20	9-2	24
	40	14.60	.58	.36	4.56	78	.18	16-8	54
	50	14.30	.55	.38	.55	77	.19	25-0	62
22. ix	0	16.90	19.62	25.88	5.66	101		0-9	0
	10	15.80	.65	26.19	.55	97		7-0	0
	20	15.60	.67	.27	.25	91		5-7	8
	30	15.70	.66	.23	4.88	85		8-3	46
	40	15.60	.70	.30	5.62	98		3-5	3
	50	14.50	.62	.43	4.00	68		13-10	56
30. ix	0	16.55	19.54	25.86	5.78	102		3-6	0
	10	15.90	.56	26.04	.35	93		5-23	24
	20	15.30	.57	.19	4.75	83		6-14	63
	30	15.00	.56	.25	.73	81		8-7	49
	40	14.80	.58	.32	.64	79		11-4	51
	50	14.50	.54	.33	.56	78		11-0	74
24. x	0	17.35	19.65	25.83	5.86	105		0-6	8
	10	16.60	.63	.98	.73	101	8.18	0-5	5
	20	16.15	.58	26.02	.25	92	.16	8-1	25
	30	16.40	.62	.00	.22	92		8-10	28
	40	15.30	.61	.24	.02	87	.10	2-20	34
	50	14.95	.58	.29	4.30	74		16-0	101

Station: PORT HACKING

Latitude: 34°05' S.

Longitude: 151°13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1944									
11. xi	0	18.70	19.73	25.60	5.31	97		1-10	0
	10	18.50	.75	.68	.29	97		0-7	0
	20	18.35	.68	.62	.31	97		2-6	3
	30	17.90	.73	.80	.02	91		2-9	8
	40	17.10	.69	.94	.21	93		0-4	3
	50	16.40	.68	26.09	4.83	85		11-0	32
17. xi	0	18.60	19.71	25.60	5.52	101		0-4	0
	10	18.60	.71	.60	.45	100		0-0	0
	20	15.75	.56	26.08	4.53	79		11-0	40
	30	15.60	.66	.25	5.45	95		11-0	23
	40	14.15	.58	.46	4.70	80		14-0	74
	50	14.10	.60	.50	.71	80		14-0	59
25. xi	0	18.10	19.67	25.67	5.41	98		3-1	0
	10	17.80	.69	.77	.10	92		2-2	0
	20	17.80	.67	.74	.05	91		0-9	0
	30	15.40	.61	26.22	4.50	78		8-15	26
	40	14.90	.61	.33	.52	78		9-11	54
5. xii	0	19.20	19.62	25.31	5.41	100		2-4	0
	10	18.05	.62	.61	.51	100		1-1	0
	20	17.35	.62	.78	.56	99		2-6	0
	30	17.58	.63	.74	.52	99		2-5	0
	40	15.80	.57	26.08	4.77	83		9-1	28
	50	15.25	.61	.26	.60	79		11-0	72
16. xii	0	19.00	19.70	25.48	5.18	95		2-0	10
	10	18.37	.67	.60	.23	95		1-0	0
	20	18.25	.69	.66	.28	96		1-2	0
	30	18.10	.68	.68	.25	95		0-2	0
	40	17.48	.68	.83	.22	94		0-4	0
	50	17.00	.65	.91	4.98	89		5-0	24

Station: PORT HACKING

Latitude: 34° 05' S.

Longitude: 151° 13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1945									
5.1	0	19.90	19.66	25.19	5.10	95		0-2	0
	10	19.85	.71	.28	.18	97		4-0	0
	20	18.55	.67	.56	.37	98		1-0	5
	30	18.10	.65	.64	.25	95		2-0	7
	40	17.10	.62	.84	.20	93		3-3	5
	50	17.00	.67	.94	.18	92		2-4	11
20.1	0	19.90	19.59	25.10	5.30	99		0-2	0
	10	19.45	.65	.30	.22	97		0-0	0
	20	19.20	.70	.43	.17	95		0-3	0
	30	18.20	.65	.62	4.79	87		2-4	18
	40	17.10	.64	.87	.27	76		6-0	28
	50	17.00	.64	.89	.01	71		0-5	54
27.1	0	20.40	19.70	25.12	5.15	98		0-2	0
	10	20.00	.68	.19	.22	98		0-2	0
	20	19.70	.67	.26	.40	101		0-2	0
	30	19.33	.67	.36	.31	98		0-3	0
	40	18.80	.68	.50	.12	94		0-7	7
	50	17.45	.65	.80	4.72	86		5-7	15
5.11	0	20.05	19.63	25.11	5.21	98		2-3	7
	10	19.70	.61	.18	.18	97		1-5	11
	20	19.50	.64	.27	.29	99		0-3	12
	30	19.20	.63	.33	.18	96		3-0	0
	40	19.50	.65	.29	.18	96		0-2	0
	50		.62		.23	98		1-17	0
10.11	0	20.90	19.67	24.94	5.13	98		0-5	0
	10	20.50	.66	25.03	.19	98		0-6	0
	20	19.20	.64	.34	.21	96		0-5	0
	30	19.30	.66	.37	.20	96		0-8	0
	40	19.25	.64	.35	.11	94		0-11	0
	50	16.60	.60	.92	4.73	84		2-11	27

Station: PORT HACKING

Latitude: 34° 05' S.

Longitude: 151° 13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1945									
17.11	0	21.72	19.69	24.75	5.07	98		0-2	0
	10	21.63	.70	.78	4.55	88		0-4	0
	20	21.30	.70	.87	.20	99		0-2	0
	30	21.22	.75	.96	.24	100		0-2	0
	40	20.60	.70	25.21	.20	98		0-5	0
	50	19.70	.67	.26	.15	96		2-7	0
23.11	0	20.85	19.65	24.93	5.12	97		0-2	0
	10	20.10	.63	25.09	.07	95		0-5	4
	20	19.45	.63	.27	4.95	91		1-5	7
	30		.64		.85			0-6	8
	40	17.55	.60	.71	.83	87		2-5	22
	50	16.65	.58	.90	.84	85		6-3	30
10.111	0	20.30	19.68	25.11				0	0
	10	20.50	.69	.08	5.06	95		0	0
	20	19.85	.69	.25	.05	94		0	0
	30	19.67	.69	.30				0	0
	40	19.67	.65	.30	.06	98		0	0
	50	19.55	.69	.33	4.96	92		0	0
17.111	0	20.70	19.65	24.96	5.25	99		0-2	0
	10	20.40	.64	25.03	.36	101		0-1	0
	20	19.80	.66	.22	.33	99		0-2	0
	30	19.32	.68	.36	.36	99		0-0	0
	40	19.32	.65	.33	.35	99		1-4	1
	50		.66		.34			1-2	1
24.111	0	20.30	19.66	25.09	5.09	95		0-0	5
	10	20.20	.71	.19	.10	96		0-0	5
	20	20.20	.69	.16	.09	95		0-0	5
	40	19.60	.68	.23	.05	94		2-0	5
	50	19.60	.67	.29	4.78	89		0-2	9
	14.1v	0	21.80	19.34	24.25	4.60	88		0-2
10		21.58	.43	.43	.83	92		0-0	3
30		21.10	.48	.62	.89	93		1-1	3
50		19.80	.60	25.14	.86	91		4-2	3

Station: PORT HACKING

Latitude: 34°05' S.

Longitude: 151°13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1945 28. iv	0	20.50	19.37	24.64	4.83	91		0-2	16
	10	20.45	.38	.67	5.01	94		0-5	16
	20	20.25	.50	.88	4.52	85		1-5	28
	30	19.60	.53	25.09	.82	90		2	34
	40	18.60	.56	.40	.58	84		2-4	46
	50	18.45	.60	.49	.42	81		5-2	56
5. v	0	21.05	19.54	24.72	5.11	95		0-6	0
	10	21.10	.56	.74	.12	98		0-5	0
	20	20.00	.54	.74	.00	97		0-6	0
	30	20.30	.54	.93	4.67	88		0-6	18
	40	17.10	.58	25.79	.05	72		10-1	86
	50	16.90	.56	.81	3.87	68		11-6	119
18. v	0	20.20	19.56	24.98	5.07	95		0-2	4
	10	20.40	.47	.80	.10	98		0-5	0
	20	20.30	.53	.91	.14	96		0-2	0
	30	19.95	.53	25.00	.10	95		0-0	0
	40	19.90	.53	.01	.11	96		0-0	0
	50	18.85	.58	.36	.02	92		0-2	0
2. vi	0	19.40	19.66	25.32	5.09	94		0-8	9
	10	19.35	.67	.35	.07	94		0-7	5
	20	18.95	.68	.52	.05	93		0-6	5
	30	18.70	.68	.53	.05	93		0-6	5
	40	18.20	.69	.68	4.76	87		2-4	13
	50	18.10	.68	.68	.40	80		6-1	37
21. vi	0	18.30	19.50	25.39	4.90	89		2-6	16
	10	18.75	.58	.39	.69	86		2-7	34
	20	16.62	.59	.92	.34	77		15-1	105
	30	16.65	.61	.93	.26	75		11-7	101
	40	16.65	.59	.91	.53	80		11-1	92
	50	16.20	.53	.93	.77	84		5-5	11

Station: PORT HACKING

Latitude: 34°05' S.

Longitude: 151°13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1945									
30. vi	0	17.05	19.55	25.76	4.95	88		5-8	27
	10	17.26	.59	.77	.94	88		5-6	23
	20	17.12	.60	.81	.91	88		3-8	28
	30	17.14	.61	.82	.82	86		6-5	40
	40	16.59	.61	.95	.64	82		8-7	56
	50	16.42	.61	.99	5.46	96		9-4	68
28. vii	0	16.90	19.57	25.82	5.37	95		4-7	21
	10	16.90	.57	.82	.35	95		5-3	19
	20	16.90	.56	.81	.36	95		5-2	21
	30	16.90	.55	.79	.38	95		2-6	16
	40	17.00	.57	.80	.20	92		5-5	35
	50	16.75	.57	.86	.37	95		4-6	16
11. viii	0	16.85	19.52	25.77	5.27	93		4-9	23
	10	16.85	.52	.77	.36	95		4-9	26
	20	15.70	.53	26.04	4.50	78		8-15	76
	30	15.60	.53	.07	.50	78		9-14	73
	40	14.95	.54	.23	.46	77		12-14	76
	50	15.00	.55	.23	.40	76		12-20	76
18. viii	0	17.62	19.58	25.67	5.29	95		6-10	0
	10	17.55	.56	.66	.28	77		2-26	0
	20	17.07	.53	.72	.20	75		6-7	26
	30	15.70	.56	26.09	4.48	64		13-20	75
	40	14.80	.54	.26	.13	57		23-6	92
	50	14.65	.54	.29	.21	58		20-21	102
20. viii	0	17.20	19.58	25.77	5.76	103		5-2	26
	20	16.60	.54	.85	.24	75		4-2	45
	30	15.50	.54	26.11	4.84	68		8-20	68
	50	14.10	.53	.39	.27	58		16-7	103

Station: PORT HACKING

Latitude: 34° 05' S.

Longitude: 151° 13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1945 8. ix	0	16.55	19.59	25.94	5.78	103		4-2	25
	10	16.15	.57	26.00	.80	102		2-3	14
	20	16.10	.57	.01	.57	98		2-8	25
	30	15.80	.56	.07	.65	98		5-1	20
	40	15.70	.55	.07	.49	95		5-2	27
	50	15.30	.59	.22	.55	96		2-9	22
28. ix	0	16.10	19.56	26.00	5.58	98		2-2	18
	10	16.50	.63	.00	.52	97		2-1	12
	20	16.50	.65	.03	.56	98		2-0	10
	30	16.50	.67	.06	.69	100		1-0	15
	40	15.80	.63	.19	.10	89		5-1	50
	50	13.20	.55	.61	4.17	70		13-1	123
18. x	0	15.95	19.58	26.06	5.76	101		1-5	3
	10	15.90	.60	.10	.96	104		0-8	7
	20	15.50	.59	.18	.71	99		1-9	9
	30	15.50	.58	.17	.49	95		2-9	11
	40	15.10	.58	.25	.57	96		2-8	15
	50	14.90	.58	.30	4.82	83		6-10	69
29. xi	0		19.38					2-4	7
	10	15.55	.53	26.11	5.37	93		6-4	10
	20	15.20	.53	.13	.38	90		11-5	18
	30	14.79	.57	.35	.40	94		11-6	20
	40	14.21	.53	.40	.10	86		13-9	25
	50	13.90	.52	.45	.10	85		16-11	25
7. xii	0	18.70	19.41	25.16	5.55	101		45-5	10
	10	18.43	.59	.48	.46	100		13-13	10
	20	18.40	.60	.50	.42	99		9-2	15
	30	16.81	.59	.88	.27	93		3-2	19
	40	15.20	.58	26.27	.13	88		13-10	40
	50	14.35	.59	.43	4.88	86		16-5	90

Station: PORT HACKING

Latitude: 34° 05' S.

Longitude: 151° 13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1946									
9.1	0	21.30	19.67	24.83	5.15	99		0-3	2
	10	21.10	.71	.95	.18	99		0-6	2
	20	20.80	.68	.98	.19	99		0-6	2
	30	19.70	.69	25.29	.30	99		0-3	2
	40	19.30	.68	.37	.22	97		0-7	2
22.1	0	19.70		25.22	5.45	102		0-6	0
	10	18.60		.54	4.03	74		6-5	5
	20	17.30		.81	.27	77		8-6	97
	30	17.50		.73	.07	73		23	127
	40	17.40		.73	.01	72		11	130
	50	16.30		26.02	.00	71		13-8	127
26.11	0	23.00	19.63	24.30	5.12	101		2-4	9
	10	22.00	.61	.55	.01	97		2-0	11
	20	20.50	.64	25.00	4.63	87		5-4	39
	30	17.40	.62	.76	.21	75		11-4	81
	40	15.40	.54	26.13	.16	72		20-0	81
	50	15.40	.50	.07	.12	71		20-4	113
4.111	0	20.80	19.66	24.95	5.70	107		2-0	6
	10	20.60	.68	25.03	.80	110		0-8	12
	20	19.75	.69	.28	.79	108		1-3	12
	30	18.50	.68	.58	.65	104		6-10	43
	40	17.55	.63	.75	4.55	82		9-5	43
	50	15.80	.61	26.13	.29	75		15-6	97
12.111	0	20.80	19.61	24.88	5.08	96		0-6	15
	10	20.70	.61	.91	.04	95		0-10	10
	20	20.80	.61	.88	.08	96		0-7	8
	30	20.20	.64	25.08	.08	95		0-7	8
	40	20.10	.62	.08	.04	94		2-4	13
	50	19.30	.63	.31	4.93	91		0-6	18

Station: PORT HACKING

Latitude: 34°05' S.

Longitude: 151°13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1946									
18. iii	0	19.30	19.50	25.13	4.85	90		4-12	66
	20	17.50	.49	.57				10-10	58
	30	16.50	.58	.94	.22	74		13-7	50
	50	15.10	.58	26.26	.13	71		10-8	35
2. iv	0	20.60	19.63	24.97	4.80	91		1-9	3
	10	20.70	.65	.97	.70	89		0-6	3
	20	20.50	.66	25.03	.80	91		0-7	0
	30	20.10	.65	.13	.68	88		2-8	3
	40	19.70	.64	.22	.65	87		0-11	3
	50	19.42	.64	.29	.42	83		5-6	8
12. iv	0	20.10	19.64	25.10	4.72	88		0-5	16
	10	20.30	.65	.08	.73	89		1-4	12
	20	20.10	.66	.13	.74	89		1-1	18
	30	20.20	.66	.11	.75	89		2-1	16
	40	20.20	.68	.14	.75	89		1-3	14
	50	20.05	.68	.18	.70	88		1-0	14
4. v	0	19.50	19.58	25.20				1-4	2
	10	19.20	.56	.24	5.24	97		0-6	0
	20	19.20	.59	.29	.33	99		1-10	1
	30	19.15	.56	.26	.85	108		2-5	0
	40	19.10	.58	.30	.28	97		0-4	0
	50	19.10	.58	.30	.28	97		2-3	0
27. v	0	18.90	19.61	25.38	5.57	102		2-1	3
	10	18.75	.61	.42	.50	101		2-0	0
	20	18.80	.62	.39	.52	102		2-0	0
	30	18.80	.63	.44	.60	103		3-0	3
	40	18.60	.60	.43	.44	100		0-1	9
	50	18.60	.63	.49	.58	102		5-0	6

Station: PORT HACKING

Latitude: 34° 05' S.

Longitude: 151° 13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1946									
13. vi	0	18.40	19.68	25.60	4.90	90		1-1	25
	10	18.50	.68	.58	.80	88		3-3	15
	20	18.50	.67	.57	.79	88		1-4	15
	30	18.35	.67	.61	.85	89		2-0	22
	40	18.40	.70	.63	.76	87		2-0	20
	50	18.30	.70	.66	.78	87		2-2	15
9. vii	0	16.60	19.66	26.02	5.50	97		2-7	20
	10	16.25	.65	.08	.34	94		2-4	16
	20	16.20	.64	.08	.34	94		5-1	16
	30	16.10	.64	.10	.34	94		5-1	28
	40	16.00	.65	.15	.30	93		3-6	16
	50	15.90	.64	.15	.37	94		2-8	28
25. vii	0	15.60	19.79	26.43	5.40	94		5-2	35
	10	15.60	.83	.48	.42	94		7-3	35
	20	15.60	.86	.52	.37	98		6-1	35
	30	15.60	.85	.51	.42	94		6-4	35
	40	15.50	.86	.55	.37	93		4-9	43
	50	15.50	.88	.57	.40	94		6-4	35
9. viii	0	15.20	19.65	26.35	5.48	95		0-4	28
	10	15.10	.65	.35	.57	96		2-3	30
	20	15.10	.67	.38	.54	96		2-0	28
	30	15.10	.67	.37				4-3	30
	40	15.10	.68	.38	.50	95		4-2	33
	50	15.00	.67	.39	.34	92		2-1	40
20. ix	0	15.50	19.70	26.33	5.53	97		6-1	7
	10	15.20	.70	.39	.47	94		5-1	1
	20	15.20	.69	.38	.40	93		5-2	12
	30	14.80	.68	.45	.22	90		7-0	12
	40	14.00	.64	.57	.16	87		8-0	80
	50	13.60	.60	.60	.04	85		12-0	103

Station: PORT HACKING

Latitude: 34° 05' S.

Longitude: 151° 13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1946									
2. x	0	15.30	19.70	26.37	5.65	98		1-7	
	10	15.30	.70	.37	.64	98		1-6	
	20	15.30	.68	.34	.65	98		4	
	30	15.40	.68	.32	.57	97		4	
	40	15.40	.76	.43	.55	96		1	
	50	15.40	.73	.39	.53	96		3	
15. x	0	17.60	19.65	25.77	4.85	87		0-13	6
	10	17.00	.66	.92	5.37	95		4-6	16
	20	15.40	.64	26.28	.10	88		8-3	50
	30	15.50	.64	.24	.04	87		7-12	50
	40	14.70	.64	.42	4.85	83		6-15	60
	50	14.20	.61	.49	.62	78		8-19	73
21. x	0	17.20	19.65	25.86	5.20	93		8-1	27
	10	17.00	.60	.84	4.80	85		11-5	57
	20	16.90	.63	.90	5.57	99		11-4	68
	30	15.50	.59	26.17	4.71	82		7-1	24
	40	14.40	.57	.37	.38	74		14-3	97
	50	13.90	.51	.41	.04	68		18-0	115
30. x	0	16.90	19.69	26.00	5.70	101		2-0	3
	10	16.90	.68	25.97	.74	101		2-1	3
	20	16.80	.67	.98	.52	98		2-0	3
	30	16.50	.64	26.01	.46	96		3-1	12
	40	16.30	.64	.06	.25	92		3-1	15
	50	14.20	.50	.33	4.07	69		9-0	103
15. xi	0	18.30	19.70	25.66	5.52	101		0-5	12
	10	17.10	.70	.71	.42	97		0-5	12
	20	17.80	.66	.72	.45	99		0-6	15
	30	17.20	.66	.87	.07	91		1-9	30
	40	15.65	.59	26.13	4.64	81		8-5	93
	50	14.80	.56	.29	.51	77		9-9	93

Station: PORT HACKING

Latitude: 34° 05' S.

Longitude: 151° 13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1946									
11. xi	0	19.40	19.59	25.23	5.60	104		0-7	13
	10	13.60	.63	.49	.57	102		1-4	13
	20	18.60	.60	.45	.44	100		4-6	19
	30	16.10	.57	26.01	.30	93		5-7	28
	40	15.80	.57	.08	.16	90		9-0	27
	50	15.60	.57	.15	.10	88		10-7	37
23. xi	0	19.60	19.60	25.19	5.37	100		0-4	10
	10	19.00	.63	.39	.40	99		1-2	10
	20	18.20	.61	.56	.55	101		0-3	10
	30	17.80	.66	.73	.58	101		0-3	7
	40	17.00	.61	.85	4.86	86		7-1	28
	50	17.00	.59	.83	.86	86		8-0	40
1947									
14. i	0	20.20	19.65	25.10	5.34	100		2-17	10
	10	20.00	.71	.24	.31	100		0-19	10
	20	20.00	.72	.25	.34	100		1-6	12
	30	19.20	.71	.45	.44	101		4-6	5
	40	18.40	.77	.73	.39	99		5-5	10
	50	17.80	.66	.93	.39	97		8-2	10
3. ii	0	21.60	19.65	24.73	5.00	96		0-0	12
	10	20.90	.66	.93	4.94	94		0-5	12
	20	20.90	.65	.92	.90	93		0-7	14
	30	20.80	.66	.95	.94	94		0-12	12
	40	20.30	.65	25.08	5.00	94		0-12	14
	50	17.40	.62	.76	4.90	88		3-14	20
21. ii	0	20.82	19.62	24.89	5.00	95		7-0	12
	10	20.60	.62	.95	.14	97		7-0	12
	20	20.60	.62	.95	.06	96		8-0	12
	30	19.50	.62	25.24	.12	95		7-0	9
	40	17.80	.63	.69	.05	91		8-1	9
	50	14.40	.63	26.47	4.42	75		16-7	72

Station: PORT HACKING

Latitude: 34° 05' S.

Longitude: 151° 13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1947									
24. iii	0	20.90	19.62	24.87	5.16	98		1-0	7
	10	21.00	.61	.83	.20	99		1-0	7
	20	19.90	.63	25.16	.15	96		1-2	7
	30	18.80	.62	.42	.20	96		3-2	7
	40	18.60	.64	.50	4.75	87		6-0	20
	50	18.50	.65	.54	.88	89		7-0	20
26. iv	0	20.60	19.53	24.82				1-2	7
	10	20.20	.58	25.01	5.73	108		1-2	5
	20	20.15	.59	.04				1-4	5
	30	20.15	.58	.03	4.68	88		3-1	5
	40	19.50	.59	.21	.04	75		1-0	7
	50	19.60	.60	.19	5.07	95		1-6	7
12. v	0	20.80	19.62	24.89	5.03	95		0-3	5
	10	20.50	.63	.99	.03	95		0-3	5
	20	19.40	.57	25.20	.14	96		0-3	7
	30	19.40	.59	.23	.08	94		0-3	7
	40	19.30	.65	.34	.02	93		0-1	7
	50	19.40	.70	.38	.08	94		1-0	12
6. vi	0	18.80	19.58	25.37	5.15	94		1-2	25
	10	18.90	.62	.39	.22	96		3-2	26
	20	18.70	.65	.49	.20	95		3-4	34
	30	18.57	.62	.47	.04	92		1-7	26
	40	18.60	.68	.55	4.87	89		17-8	44
	50	18.45	.67	.58	.67	85		7-3	44
23. vi	0	16.80	19.62	25.91	5.15	91		5-0	36
	10	16.80	.65	.96	.13	91		3-0	42
	20	16.70	.64	.96	.18	92		5-1	36
	30	16.40	.65	26.05	.21	92		3-0	25
	40	16.50	.64	.01	.24	92		5-0	30
	50	15.40	.47	.03	.34	92		1-5	18

Station: PORT HACKING

Latitude: 34°05' S.

Longitude: 151°13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1947									
2. vii	0	16.10	19.62	26.07	5.49	96		3-1	18
	10	16.05	.64	.11	.47	96		3-7	16
	20	16.00	.67	.16	.60	98		3-0	16
	30	16.02	.66	.15	.46	95		3-0	16
	40	16.02	.66	.15	.34	94		3-3	30
	50	16.00	.65	.15	.47	96		3-1	25
22. vii	0	16.00	19.67	26.17	5.48	96		1-12	23
	10	15.60	.66	.27	.45	95		3-4	34
	20	15.00	.62	.32	.25	90		6-4	55
	30	14.90	.60	.32	.33	91		7-0	45
	40	14.40	.62	.45	.34	91		0-7	50
	50	14.20	.58	.44	.23	89		6-2	73
4. viii	0	16.00	19.69	26.20	5.47	96		3-11	23
	10	15.50	.68	.37	.45	94		3-5	42
	20	15.20	.66	.34	.44	94		6-11	58
	30	14.60	.65	.46	.20	89		6-6	60
	40	14.50	.65	.48	.42	92		3-16	42
	50	14.70	.63	.41	.20	89		7-13	36
5. ix	0	16.20	19.68	26.13	5.37	93		14-5	38
	10	15.80	.65	.19	.31	93		14-1	38
	20	15.20	.63	.30	.28	91		16-0	62
	30	15.10	.62	.30	.23	90		15-0	59
	40	15.00	.62	.32	.20	89		14-0	59
	50	14.70	.59	.35	.17	88		14-2	84
22. ix	0	16.70	19.77	26.14	5.98	106		1-27	18
	10	16.20	.73	.20	.77	101		6-6	16
	20	15.75	.70	.27	.27	92		10-17	74
	30	15.40	.68	.32	.20	90		11-8	91
	40	15.30	.68	.34	.30	92		10-9	96
	50	15.30	.59	.36	.13	89		9-7	65

Station: PORT HACKING

Latitude: 34° 05' S.

Longitude: 151° 13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1947									
19. x	0	17.10	19.67	25.91	5.70	102		7-4	0
	10	17.20	.66	.87	.64	101		6-12	0
	20	16.40	.65	26.05	4.98	88		10-14	0
	30	15.80	.64	.17	5.45	95		10-16	42
	40	14.80	.59	.33	4.65	79		19-17	92
	50	14.20	.57	.43	.55	78		15-0	208
7. xi	0	17.70	19.68	25.78				0-4	15
	10	17.35	.66	.84				0-11	2
	20	16.20	.61	26.01				8-8	16
	30	14.20	.55	.40				9	111
	40	14.00	.56	.46				18-4	133
	50	13.70	.49	.43				11-15	121
4. xii	0	18.50	19.55	25.41	5.50	101		8	8
	10	18.00	.54	.52	.45	99		9	11
	20	17.50	.51	.59	.25	94		15	35
	30	14.20	.54	26.39	4.45	75		23	128
	40	13.60	.50	.46	.36	73		26	170
	50	13.20	.54	.60	.32	72		34	163
1948									
8. i	0	22.80	19.53	24.21	5.00	98		3-10	0
	10	23.00	.55	.19	.05	99		6-0	0
	20	22.80	.58	.29	.05	99		4-7	0
	30	21.20	.55	.69	.14	98		3-10	0
	40	20.60	.55	.85	.10	96		4-13	1
	50	20.10	.55	.99	4.80	90		10-6	79
21. i	0	20.40	19.54	24.90	5.12	96		8-0	0
	10	19.70	.57	25.12	.17	96		5-10	0
	20	19.70	.58	.14	.21	97		6-4	0
	30	19.70	.61	.18	.08	95		8-4	0
	40	19.80	.63	.18	.12	96		10-0	0
	50	18.90	.62	.39	.10	94		9-3	0

Station: PORT HACKING

Latitude: 34° 05' S.

Longitude: 151° 13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1948									
18.11	0	20.10	19.51	24.93	6.15	115		0-8	3
	10	16.90	.50	25.73	5.14	91		15-2	4
	20	16.00	.55	26.00	4.47	78		19-0	15
	30	15.60	.53	.06	.30	75		18-0	0
	40	15.60	.53	.06	.12	72		20-0	0
	50	15.40	.53	.11	.01	69		18-0	0
18.111	0	21.30	19.73	24.91	5.47	105		3-7	10
	10	21.10	.66	.87	.54	106		2-8	6
	20	20.70	.64	.95	.58	105		1-12	4
	30	20.70	.63	.94	.48	104		4-9	4
	40	20.60	.64	.98	.48	103		4-8	0
	50	20.60	.64	.98	.37	101		4-10	0
1. iv	0	20.30	19.69	25.14	5.25	99		4-4	4
	10	19.80	.69	.27	.24	98		2-5	6
	20	19.80	.67	.24	.21	97		2-8	5
	30	19.60	.66	.28	.21	97		1-6	5
	40	19.60	.64	.25	.21	97		1-9	8
	50	19.50	.70	.36	.01	93		0-7	8
5. v	0	18.80	19.42	25.15	5.31	97		7-6	16
	10	19.00	.60	.35	.36	99		4-6	7
	20	18.95	.60	.36	.08	94		7-4	7
	30	18.40	.63	.54	.25	96		7-6	5
	40	18.65	.64	.49	4.95	91		10-5	13
	50	18.30	.60	.53	5.14	94		7-7	9
28. vi	0	15.20	19.47	26.08	5.73	99		18-0	0
	10	15.20	.48	.09	.85	101		11-2	8
	20	15.25	.44	.03	.83	101		12-14	11
	30	15.40	.48	.05	.70	98		12-4	16
	40	15.60	.48	.00	.71	99		11-5	8
	50	15.70	.53	.05	.76	100		11-17	6

Station: FORT HACKING

Latitude: 34° 05' S.

Longitude: 151° 13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1948									
15. vii	0	16.80	19.79	26.15	5.54	98		10-4	30
	10	16.65	.64	25.98	.48	97		10-8	18
	20	16.40	.64	26.04	.45	96		11-3	24
	30	14.80	.59	.11	.28	90		12-5	30
	40	15.10	.59	.27	.38	93		10-8	28
	50	15.30	.59	.23	.45	94		17-1	29
30. vii	0	16.70	19.70	26.05	5.45	97		8	0
	10	16.70	.70	.05	.46	97		9-5	0
	20	16.10	.69	.18	.42	95		9-7	0
	30	15.90	.69	.23	.53	97		8-10	0
	40	15.80	.65	.20	.48	95		10-8	0
	50	15.70	.64	.20	.52	96		9-6	47
13. viii	0	16.00	19.69	26.21	6.25	109		5-9	0
	10	16.00	.62	.10	5.26	92		5-5	0
	20	15.85	.65	.18	6.12	107		5-5	0
	30	16.40	.64	.04	5.67	100		5-7	0
	40	15.80	.65	.20	6.10	106		4-7	0
	50	15.80	.66	.21	.10	106		4-4	0
23. ix	0	16.50	19.68	26.07	5.73	101	8.16	8-0	14
	10	16.40	.68	.09	.61	99	.18	8-1	0
	20	16.10	.68	.16	.55	97	.19	8-1	0
	30	15.65	.65	.23	.52	96	.19	8-4	5
	40	15.40	.65	.29	.30	92	.17	5-7	21
	50	14.40	.57	.39	4.92	84	.13	16-5	134
15. x	0	18.85	19.70	25.52	5.38	99		4-6-0	0
	10	19.10	.70	.46	.46	101		4-4-0	0
	20	18.80	.69	.53	.48	101		5-11	0
	30	18.40	.64	.45	.46	100		6-6-0	0
	40	15.15	.61	26.26	4.82	83		15-7-0	43
	50	15.20	.70	.40	.85	84		14-7-0	40

Station: PORT HACKING

Latitude: 34° 05' S.

Longitude: 151° 13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1948									
9. xi	0	14.00	19.62	26.54	5.90	100	8.43	5-7-5	11
	10	14.20	.57	.43	.96	101	.44	23-0-0	94
	20	13.90	.56	.49	.07	85	.19	23-0-0	86
	30	13.55	.52	.50	4.77	80	.40	22-0-0	133
	40	13.30	.53	.56	.82	80	.42	22-0-0	132
	50	13.30	.53	.56	.76	79	.31	22-0-0	114
14. xi	0	16.63	19.59	25.92				7-7	0
	10	16.60	.62	.96				6-7	0
	20	15.62	.58	26.14			8.15	8-5	0
	30	14.95	.55	.24			.08	11-11	32
	40	14.80	.55	.28			.08	14-8-0	35
	50	14.28	.55	.39			.08	19-7-0	73
7. xii	0	18.15	19.56	25.51	5.50	100		8-0-0	0
	10	17.80	.51	.52	.63	101		7-3-0	0
	20	17.00	.51	.72	.31	94		6-4-4	0
	30	16.25	.49	.87	4.45	78		7-1-4	0
	40	15.30	.49	26.09	.78	83		10-0-4	18
	50	15.10	.79	.54	5.29	91		10-0-3	31
20. xii	0	18.10	19.53	25.48	5.62	102	8.23	1-0	0
	10	18.10	.51	.45	.62	102	.22	0-3	0
	20	18.00	.54	.52	.66	102	.23	2-0	0
	30	17.90	.53	.52	.62	101	.23	2-0	0
	40	17.85	.49	.49	.62	101	.22	2-0	0
	50	17.30	.41	.51	.57	99	.22	3-0	0
1949									
14. i	0	20.00	19.18	24.51	4.92	92		7-23	13
	10	20.20	.39	.75	.29	80		9-13	10
	20	20.03	.43	.85	.71	88		5-11	12
	30	20.05	.49	.93	.38	82		13-0-0	12
	40	16.50	.53	25.86	3.89	69		6-12	61
	50	16.60	.51	.81	4.27	75		11-7-2	105

Station: FORT HACKING

Latitude: 34° 05' S.

Longitude: 151° 13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1949									
8. 11	0	23. 20	19. 54	24. 12	5. 14	101	8. 25	3-5-0	3
	10	22. 40	. 55	. 36	. 37	104	. 23	0-8-0	0
	20	20. 30	. 58	. 99	. 21	98	. 21	3-3-0	0
	30	19. 20	. 55	25. 23	. 26	97	. 22	6-4-0	4
	40	18. 40	. 55	. 43	4. 90	89	. 22	7-3-0	8
	50	18. 30	. 54	. 45	5. 29	96	. 27	6-4-0	0
25. 111	0	24. 50	19. 73	23. 99	4. 95	100	8. 22	5-5-0	0
	10	24. 80	. 75	. 93	. 99	101	. 18	5-2-5	0
	20	23. 50	. 73	24. 29	5. 31	105	. 23	5-1-6	0
	30	20. 80	. 74	25. 07	. 04	96	. 24	5-0-7	0
	40	20. 20	. 74	. 23	4. 83	91	. 23	5-4-5	0
	50	19. 20	. 69	. 42	. 84	90	. 21	7-0-5	8
2. v	0	19. 70	19. 74	25. 36	5. 20	97	8. 23	6-0-3	2
	10	19. 60	. 72	. 36	. 14	96	. 25	4-5-0	0
	20	19. 50	. 75	. 42	. 05	94	. 23	6-0-3	2
	30	18. 90	. 72	. 54	4. 88	90	. 22	6-0-6	11
	40	18. 60	. 69	. 58	. 74	87	. 17	6-4-4	19
	50	18. 10	. 75	. 78	5. 18	94	7. 97	4-2-4	0
19. v	0	19. 20	19. 67	25. 39	5. 12	95	8. 25	12-0-6	4
	10	18. 90	. 68	. 48	. 04	93	. 25	10-10	0
	20	18. 80	. 68	. 51	4. 98	92	. 24	8-3-5	12
	30	18. 70	. 69	. 55	. 97	91	. 18	10-1-9	9
	40	18. 40	. 69	. 63	. 96	91	. 22	9-2-7	13
	50	18. 40	. 66	. 58	. 59	84	. 14	15-11	87
9. vi	0	17. 10	19. 49	25. 67			8. 18	6-6-0	19
	10	16. 80	. 61	. 90			. 18	7-9-2	18
	20	16. 80	. 68	. 90			. 18	7-5-0	19
	30	17. 20	. 68	. 90			. 18	7-5-0	14
	40	17. 20	. 69	. 92			. 12	8-12	14
	50	17. 00	. 66	. 93			. 18	8-0-4	18

Station: FORT HACKING

Latitude: 34° 05' S.

Longitude: 151° 13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1949									
5. vii	0	16.80	19.46	25.70	5.45	96	8.18	8-6-4	8
	10	16.80	.45	.70	.51	98	.13	5-3-6	8
	20	16.80	.44	.67	.48	97	.21	5-9-2	8
	30	16.60	.45	.74	.51	97	.22	8-7-0	11
	40	16.40	.41	.72	.46	96	.20	7-7-0	18
	50	16.30	.41	.75	.42	95	.20	9-3-0	13
29. vii	0	17.20	19.62	25.82	5.46	98	8.22	18-0-0	15
	10	17.15	.65	.87	4.51	81	.29	11-3-8	12
	20	17.10	.65	.89	5.38	96	.25	12-0-0	15
	30	17.05	.64	.88	.64	100	.26	11-5-0	19
	40	16.55	.60	.95	.37	95	.26	13-3-6	35
	50	15.95	.65	26.15	.25	92	.19	14-16	59
16. viii	0	17.85	19.70	25.78	5.54	100	8.22	5-9-0	0
	10	17.55	.68	.83	.47	98	.20	7-11	0
	20	17.35	.72	.93	.42	97	.24	8-2-4	5
	30	16.75	.68	26.01	.35	95	.03	10-4-0	17
	40	16.20	.68	.14	4.98	88	.20	14-2-2	46
	50	16.15	.67	.14	.75	83	.15	18-0-0	56
30. viii	0	16.95	19.66	25.94	5.53	98	8.20	8-8-6	4
	10	16.85	.64	.93	.59	99	.23	5-9-2	2
	20	16.25	.62	26.04	.13	90	.20	12-14	27
	30	16.05	.62	.09	.00	87	.19	15-9-6	44
	40	15.60	.59	.16	4.66	81	.16	19-5-4	73
	50	15.75	.57	.09	.58	80	.15	19-25	63
6. x	0	19.00	19.18	24.77	5.55	102	8.25	4-10	0
	10	19.10	.44	25.10	.44	100	.24	4-10	0
	20	19.80	.53	.04	.43	101	.22	7-23	0
	30	19.25	.55	.21	4.78	89	.19	9-9-4	4
	40	18.70	.51	.30	5.17	95	.21	6-6-6	0
	50	16.35	.51	.87	4.02	71	.04	24-14	91

Station: PORT HACKING

Latitude: 34°05' S.

Longitude: 151°13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1949									
27. x	0	17.00	19.42	25.59	5.78	103	8.25	4-18	6
	10	15.80	.51	26.00	4.57	79	.10	19-6-0	96
	20	15.00	.51	.18	.03	69	.05	24-11	159
	30	13.80	.44	.34	.11	69	.10	24-11	198
	40	13.60	.43	.37	.08	68	.10	27-5-0	193
	50	13.00	.40	.44	.12	68	.12	28-9-2	246
14. xi	0	17.60	19.55	25.63	5.33	96	8.21	9-11	
	10	17.40	.52	.64	.23	94	.18	8-16	
	20	16.80	.56	.84	.11	90	.20	10-14	
	30	16.40	.55	.91	4.97	87	.20	10-5-5	
	40	14.85	.56	26.28	.27	73	.17	21-6-0	
	50	14.60	.56	.34	.06	69	.16	21-8-0	
28. xi	0	18.85	19.47	25.21	5.82	107	8.17	6-17	0
	10	16.95	.46	.67	.61	99	.17	8-18	4
	20	15.00	.51	26.18	4.38	75	.13	21-20	104
	30	14.85	.51	.21	.12	71	.10	24-2-0	149
	40	14.40	.50	.30	3.39	58	.07	22-17	172
	50	14.37	.52	.33	.89	66	.09	24-7-0	177
14. xii	0	20.30	19.55	24.94	5.56	104	8.19	0-10	0
	10	19.40	.55	25.18	.71	106	.22	0-11	0
	20	19.50	.56	.17	.74	107	.21	0-7-7	0
	30	19.70	.58	.15	.68	106	.22	2-3-0	12
	40	17.20	.56	.75	.39	96	.24	8-1-0	3
	50	17.20	.55	.73	.18	93	.20	5-0-5	3
1950									
13. i	0	20.80	19.50	24.74	5.51	104	8.15	4-7-8	4
	10	20.00	.55	.85	.27	99	.18	10-4-0	2
	20	20.20	.54	.96	.14	96	.15	10-2-8	4
	30	18.60	.57	25.24	.08	93	.17	10-4-2	7
	40	17.80	.52	.54	.14	93	.15	16-0-3	6
	50	15.90	.57	.96	.04	88	.18	12-0-0	6

Station: PORT HACKING

Latitude: 34°05'S.

Longitude: 151°13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1950									
2.11	0	19.60	19.64	25.25	5.46	102	8.17	6-7-0	7
	10	19.60	.59	.18	4.89	91	.13	15-4-5	24
	20	20.00	.67	.19	.92	92	.15	12-3-6	24
	30	19.60	.61	.21	.45	83	.11	15-5-0	57
	40	20.00	.67	.19	.45	83	.10	15-9-0	55
	50	19.60	.62	.22	.22	79	.07	18-8-0	85
13.11	0	20.80	18.68	23.62	3.57	67	8.14	7	7
	10	21.50	.78	.56	5.52	105	.18	4	0
	20	21.50	.99	.85	.47	104	.12	3	0
	30	21.50	19.35	24.34	.45	104	.18	3	0
	40	19.90	.56	25.07	.07	95	.20	6	0
	50	19.90	.56	.07	.06	94	.16	4	7
27.11	0	20.80	19.34	24.52	5.01	95		7-11	8
	10	18.40	.64	25.55	4.31	79		15-15	34
	20	16.25	.61	26.03	3.86	69		18-11	123
	30	15.50	.59	.18	4.06	70		17-11	124
	40	16.00	.63	.12	.11	72		23-3-4	142
	50	14.60	.56	.34	.16	71		22-8-0	190
23.11	0	21.10	19.38	24.50	5.41	103		5-1	0
	10	21.00	.46	.64	.37	102		6-9	0
	20	20.10	.53	.98	.25	98		6-2	0
	30	19.40	.58	25.24	.17	96		8	0
	40	19.20	.59	.30	4.98	92		7-1	3
	50	17.40	.63	.81	.46	80		8-3	58
17.1v	0	20.90	19.19	24.29	5.26	99	8.20	11-2-0	1
	10	20.90	.46	.65	4.97	94	.25	13-0-0	1
	20	20.90	.46	.65	5.01	95	.24	12-0-5	2
	30	19.30	.45	25.07	4.52	84	.26	15-0-0	5
	40	19.30	.47	.10	3.77	70	.26	14-0-0	7
	50	19.20	.53	.20	4.29	79	.18	17-1-0	36

Station: PORT HACKING

Latitude: 34°05' S.

Longitude: 151°13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1950									
27. iv	0	19.70			5.36		8.18	5-3-1	0
	10	19.70	19.38	24.87	.30	99	.18	5-2-0	1
	20	19.70	.48	25.00	.25	98	.18	6-9-0	1
	30	19.70	.47	24.99	.28	98	.18	5-4-5	1
	40	19.70	.39	.98	.27	98	.18	4-8-0	1
	50	19.60	.43	.96	.20	97	.19	6-3-4	2
23. v	0	19.30	19.40	24.99	5.40	100	8.21	4-8-0	3
	10	19.40	.55	25.18	.42	101	.22	6-2-6	2
	20	19.50	.53	.12	.34	99	.21	8-6-0	1
	30	19.50	.57	.18	.34	99	.14	6-6-0	1
	40	19.50	.56	.17	.30	98	.22	9-7-0	2
	50	19.00	.46	.15	.30	97	.18	6-9-0	2
5. vi	0	20.50	19.46	24.76	5.20	98	8.22	1-8-2	12
	10	20.00	.40	.81	.01	93	.33	1-11	3
	20	19.80			.03		.23	7-5-0	7
	30	19.30	.37	.96	.09	94	.28	9-1-4	13
	40	18.70	.49	25.28	4.56	84	.20	9-3-2	18
	50	18.90	.46	.18	5.40	99	.21	9-13	24
4. vii	0	17.50	18.93	24.80	5.58	99	8.22	4-0-9	10
	10	18.30	19.51	25.40	.44	99	.19	7-0-9	9
	20	18.30	.58	.51	.02	91	.21	9-1-3	10
	30	18.60	.63	.49	.15	94	.19	10-0-3	14
	40	18.20	.57	.51	4.90	89	.17	11-1-4	23
	50	18.30	.62	.55	.83	88	.15	12-0-4	32
1. viii	0	17.60	19.09	24.99	5.53	99	8.26	5-15	12
	10	18.00	.47	25.42	.16	93	.23	5-17	19
	20	17.80	.60	.65	.05	91	.22	24-66	42
	30	16.70	.61	.93	4.56	81	.20	9-15	73
	40	17.00	.61	.92	.74	84	.06	12-8-2	58
	50	15.60	.64	26.24	.62	80	.20	13-9-4	87

Station: PORT HACKING

Latitude: 34°05' S.

Longitude: 151°13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1950									
7. viii	0	17.00	19.48	25.68	4.41	78	8.21	7-8-3	60
	10	17.00	.47	.67	5.59	99	.16	6-9-2	0
	20	17.00	.41	.64	.68	101	.24	3-13	8
	30	17.00	.48	.68	.78	103	.20	4-14	8
	40	17.00	.49	.70	.50	98	.21	6-22	13
	50	16.90	.54	.79	.21	92	.20	7-17	48
31. viii	0	16.90	19.53	25.77	5.69	101	8.24	6-5	3
	10	16.90	.54	.79	.80	103	.26	7-6	5
	20	16.90	.55	.80	6.03	107		4-6	21
	30	16.90	.55	.80	5.77	102	.19	4-8	5
	40	16.70	.54	.83	.82	103	.26	6-6	3
	50	16.50	.51	.84	6.04	107	.27	6-13	13
13. ix	0	17.70	19.42	25.42				3-16	12
	10	17.60	.38	.40				6-5-0	11
	20	17.10	.51	.69				13-8-8	86
	30	17.20	.49	.65				16-9-0	129
	40	17.20	.52	.69				16-12	142
	50	16.60	.45	.74				18-4-0	105
25. ix	0	17.80	19.45	25.45	6.65	120	8.22	6-14	5
	10	16.20	.45	.83	.05	106	.22	9-12	8
	20	15.60	.45	.97	5.60	97	.14	21-6-3	47
	30	15.20	.44	26.04	.24	90	.12	25-5-8	103
	40	15.20	.45	.06	.16	89	.11	24-4-4	110
	50	14.80	.46	.15	4.00	68	.12	26-19	130
9. x	0	19.40	19.49	25.07	6.42	119	8.20	4-13	0
	10	18.10	.43	.35	.28	114	.17	6-14	8
	20	17.40	.41	.49	.07	108	.12	9-11	17
	30	17.10	.38	.52	.08	112	.15	10-10	16
	40	16.70	.42	.66	.10	108	.16	11-9-3	34
	50	16.50	.42	.71	5.92	104	.16	9-15	25

Station: PORT HACKING

Latitude: 34° 05' S.

Longitude: 151° 13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1950 25. x	0	18.70	19.31	25.03	6.27	115	8.20	6-8-0	5
	10	18.40	.53	.40	5.88	107	.23	6-8-0	0
	20	18.40	.52	.39	.47	100	.17	7-4-0	5
	30	18.50	.56	.43	.11	93	.06	7-9-0	0
	40	18.50	.56	.43	.06	92	.17	12-3-0	10
	50	16.40	.52	.88	4.68	83	.15	23-2-0	164
7. xi	0	19.40	19.49	25.10	5.40	100	8.16	9-21	5
	10	18.90	.58	.35	.00	92	.19	10-23	11
	20	18.20	.53	.45	4.92	89	.11	12-4-4	22
	30	18.80	.64	.45	5.53	102	.07	13-7-0	18
	40	17.50	.59	.70	4.76	85	.17	15-3-0	29
	50	16.10	.64	26.10	.87	85	.19	15-10	32
21. xi	0	19.70	19.62	25.19	5.16	96	8.24	11	0
	10	19.70	.66	.25	.31	99	.22	11-13	0
	20	19.60	.65	.27	.28	98	.23	9-13	2
	30	19.40	.62	.27	4.92	91	.23	9-21	2
	40	19.20	.63	.34	5.03	93	.23	8-24	0
	50	18.50	.63	.52	4.85	89	.19	18-12	16
5. xii	0	20.30	19.61	25.02	5.05	95	8.20	5-4	9
	10	19.60	.70	.33	.37	100	.19	4-5	6
	20	19.30	.66	.35	.24	97	.15	3-7	9
	30	19.00	.64	.40	.22	99	.22	6-4	10
	40	18.00	.65	.67	4.65	84	.17	9-6	35
	50	17.60	.71	.86	.69	85	.17	12-6	46
18. xii	0	19.80	19.63	25.18	5.33	99	8.21	4-11	0
	10	19.80	.64	.19	.23	98	.19	6-11	0
	20	19.80	.65	.21	.16	96	.19	5-12	4
	30	19.80	.82	.45	4.99	93	.20	6-16	4
	40	19.70	.80	.44	.88	91	.15	7-9-0	10
	50	19.35	.75	.45	.39	81	.18	6-10	15

Station: ULLADULLA

Latitude: 35° 22' S.

Longitude: 150° 35' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1944									
7. vi	0	17.30	19.42	25.52	5.77	103		2-4	2
	10	16.40	.40	.70	.69	100		2-5	2
	20	16.35	.54	.91				2-2	2
	30	16.15	.69	26.17	.17	91		6-2	6
	40	15.35	.54	.14	.09	88		7-2	18
	50	15.30	.64	.29	.10	88		6-2	13
6. vii	0	14.30	19.59	26.44	6.02	102		1-5	13
	10	14.20	.63	.52	5.97	101		2-3	20
	20	14.10	.61	.51	6.02	102		0-7	11
	30	14.05	.57	.46	5.83	98		2-3	20
	40	14.00	.62	.54	.90	100		2-5	11
	50	13.90	.61	.55	.89	99		5-1	26
9. viii	0	15.70	19.67	26.24	5.53	96		1-7	13
	10	15.80	.68	.23	.51	96		2-8	19
	20	15.50	.68	.29	.50	95		2-7	19
	30	15.45	.69	.30	.46	95		5-4	19
	40	15.40	.65	.28	.46	95		2-4	19
	50	15.30	.69	.36	.46	94		5-4	19
13. ix	0	14.75	19.63	26.37	5.76	98		2-3	8
	10	14.90	.63	.37	.68	97		1-5	8
	20	14.90	.65	.40	.70	98		0-6	8
	30	14.35	.66	.52	1.85	31		1-3	8
	40	14.20	.63	.52	5.28	89		6-2	49
	50	14.15	.64	.54	.25	89		9-3	43
9. x	0	14.72	19.56	26.31	6.35	110		2-4	0
	20	13.86	.54	.46	.50	111		2-7	0
	30	12.78	.58	.74	.10	102		9-0	14
	50	12.21	.50	.74	5.95	98		9-0	34
7. xi	0	15.65	19.63	26.20	5.25	92		6-3	14
	10	14.70	.60	.37	4.85	83		6-11	59
	20	13.90	.55	.46	.91	83		9-7	77
	30	12.90	.55	.67	.52	75		13-7	34
	40	12.70	.54	.70	.75	77		20-5	100
	50	12.65	.54	.71	.74	78		18-24	103

Station: ULLADULLA

Latitude: 35° 22' S.

Longitude: 150° 35' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1944									
12. xii	0	17.30	19.62	25.79	5.55	99		2-3	0
	10	17.15	.64	.86	.50	98		1-4	0
	20	15.95	.64	26.14	.48	96		1-5	5
	30	15.20	.63	.30	.03	87		8-1	28
	40	14.20	.57	.43	4.70	80		13-10	63
	50	14.00	.57	.47	.61	78		15-9	70
1945									
4. i	0	18.30	19.68	25.63	5.32	97		1-2	0
	10	17.60	.66	.78	.32	96		0-0	0
	20	17.30	.66	.85	.28	95		1-0	0
	30	17.30	.68	.87	.22	94		3-0	0
	40	16.50	.68	26.07	.16	91		0-0	7
	50	16.25	.65	.09	.16	91		2-2	5
8. 11	0	19.30	19.64	25.32	5.17	96		0-2	0
	10	19.13	.65	.38	.23	96		0-1	0
	20	18.05	.59	.57	.29	96		0-0	0
	30	17.60	.59	.68	.35	96		0-1	0
	40	17.10	.57	.77	.34	95		1-2	0
	50	16.40	.55	.89	.31	94		2-0	0
8. 111	0	19.92	19.68	25.21	5.19	97		2	0
	10	19.90	.68	.22	.20	97		0	0
	20	19.80	.69	.26	.19	97		0	0
	30	19.72	.68	.27	.20	97		0	0
	40	18.85	.66	.46	.23	96		3	1
	50	18.80	.63	.44	.12	94		3	0
12. iv	0	19.45	18.99	24.39	5.25	97		0-1	0
	10	20.00	19.36	.76	.22	97		0-1	0
	20	20.20	.43	.80	.21	98		0-2	0
	30	20.20	.42	.78	.23	98		0-1	0
	40	20.30	.47	.83	.21	98		1-1	0
	50	19.87	.47	.95	.21	97		1-0	0

Station: ULLADULLA

Latitude: 35° 22' S.

Longitude: 150° 35' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1945									
3. v	0	19.85	19.47	24.95	5.27	98		0-2	0
	10	19.65	.47	25.00	.23	97		0-0	0
	20	19.60	.47	.01	.21	97		0-2	0
	30	19.50	.47	.04	.21	96		0-2	0
	40	19.45	.47	.05	.23	97		0-1	0
	50	19.40	.48	.08	.23	97		0-3	0
22. vi	0	16.30	19.42	25.75	5.03	88		6-7	40
	10	16.20	.56	.98	4.90	86		5-4	43
	20	16.30	.60	26.01	.67	82		10-5	43
	30	16.30	.61	.02	.54	80		11-6	98
	40	15.70	.61	.14	.40	77		11-9	103
	50	15.10	.58	.27	.30	74		12-2	98
20. vii	0	16.50	19.55	25.89	5.32	94		0	21
	10	16.00	.57	26.03				3-3	23
	20	15.70	.58	.12	.40	94		2-6	28
	30	15.40	.58	.19	.33	92		5-0	31
	40	15.30	.58	.21	.31	92			37
	50	14.15	.58	.24	4.85	82		8-1	83
11. viii	0	14.90	19.58	26.30	5.30	91		10-6	68
	10	14.90	.58	.30	.29	91		20-4	63
	20	14.85	.58	.31	.28	91		7-6	62
	30	14.00	.57	.47	.03	85		10-1	73
	40	13.60	.57	.56	.09	85		24-12	79
	50	13.90	.59	.53	.11	86		11-2	83
14. ix	0	15.25	19.59	26.24	5.40	94		6-4	53
	10	14.90	.60	.32				5-5	70
	20	14.60	.59	.37	.05	87		8-8	97
	30	14.60	.59	.37	.18	89		8-5	67
	40	14.45	.58	.39	.47	94		5-5	64
	50	14.40	.58	.41	.67	97		8-18	64

Station: ULLADULLA

Latitude: 35° 22' S.

Longitude: 150° 35' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1945									
4. x	0	15.20	19.63	26.30	5.27	91		6-0	0
	10	15.45	.64	.25	.83	101		1-1	0
	20	15.50	.64	.24	.74	99		1-1	7
	30	15.00	.62	.32	.74	99		2-4	3
	40	14.90	.62	.34	.69	98		3-3	0
	50	14.60	.59	.37	.56	95		6-0	10
2. xi	0	15.00	19.52	26.19	6.06	104		1-11	6
	10	14.80	.56	.29	.01	103		1-10	6
	20	14.20	.56	.42	5.94	101		13-12	9
	30	14.10	.56	.44	.89	99		4-12	11
	40	13.95	.58	.50	.88	99		1-12	11
	50	14.05	.57	.46	.80	98		1-12	9
12. xii	0	18.60	19.61	25.52	5.40	97		0-3	7
	10	18.10	.59	.60	.51	100		0-2	5
	20	16.85	.59	.85	.60	97		0-3	5
	30	16.00	.59	26.10	.38	92		1-5	13
	40	14.90	.58	.34	.09	87		5-6	30
	50	14.95	.58	.32	.12	84		13-2	36
1946									
12. i	0	20.40	19.68	25.09	5.05	95		0-12	5
	10	20.40	.68	.09	.00	94		0-10	5
	20	19.50	.68	.28	.02	93		0-6	5
	30	17.38	.64	.80	4.76	85		1-10	8
	40	17.00	.67	.95	.87	87		2-12	8
7. ii	0	19.00	19.67	25.44	5.08	94		1-5	3
	10	18.52	.67	.56	.05	93		2-2	10
	20	18.15	.65	.63	.08	92		2-5	10
	30	17.90	.62	.64	4.94	90		2-10	10
	40	17.85	.65	.70	.95	90		0-11	3
	50	17.82	.62	.66	.93	89		7-0	10

Station: ULLADULLA

Latitude: 35° 22' S.

Longitude: 150° 35' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1946									
5. iiii	0	21.00	19.68	24.92	5.40	103		1-6	8
	10	20.50	.60	.96	.55	105		2-4	8
	20	20.00	.62	25.11	.40	101		0-9	10
	30	19.70	.56	.12	.34	99		0-8	10
	40	19.40	.60	.25	.40	102		0-6	8
	50	19.10	.60	.32	.15	95		2-7	15
3. iv	0	20.20	19.65	25.10	5.15	97		3-0	0
	10	20.05	.65	.14	.16	97		2-0	3
	20	19.98	.64	.16	.15	96		3-2	4
	30	19.40	.68	.35	.10	95		3-0	0
	40	18.90	.65	.42	.00	92		2-3	0
	50	19.00	.64	.40	4.34	80		2-6	0
3. v	0	19.50	19.54	25.14	5.15	96		2-3	0
	10	19.70	.54	.08	.15	96		2-3	0
	20	19.20	.58	.27	.20	96		2-3	0
	30	19.20	.58	.27	.15	95		1-4	0
	40	19.10	.58	.30	.20	96		0-7	0
	50	18.80	.58	.37	.15	95		2-6	0
5. vii	0	16.70	19.67	26.01	5.20	92		3-4	20
	10	16.30	.68	.11	.25	92		3-3	28
	20	15.40	.65	.28	.30	92		5-2	38
	30	15.20	.66	.34	.30	92		3-6	38
	40	15.20	.64	.31	.33	92		2-5	35
	50	15.20	.64	.31	.24	91		3-2	44
1. viii	0	12.50	19.53	26.71	5.67	93		4-9	28
	10	12.60	.55	.73	.72	94		5-8	30
	20	12.60	.56	.75	.74	94		6-7	28
	30	12.50	.58	.80	.73	94		5-9	33
	40	12.50	.58	.80	.71	94		5-10	35
	50	12.50	.58	.80	.74	94		5-8	45

Station: ULLADULLA

Latitude: 35° 22' S.

Longitude: 150° 35' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1946									
6. ix	0	13.50	19.75	26.82	5.73	96		0-15	
	10	13.10	.72	.87	.75	96		0-11	
	20	13.50	.75	.82	.69	95		0-9	
	30	13.10	.73	.88	.67	94		3-4	
	40	12.60	.71	.96	.60	92		0-2	
	50	12.25	.81	27.16	6.08	100		4-2	
4. x	0	14.40	19.64	26.48	5.74	98		4-2	18
	10	14.30	.64	.48	6.07	103		4-6	18
	20	14.40	.64	.48	5.90	100		6-0	33
	30	14.20	.65	.55	.80	98		1-5	33
	40	14.20	.65	.55	.90	100		6-0	14
	50	14.20	.63	.52	6.13	104		6-0	14
4. xi	0	15.80	19.64	26.17	5.75	100		5-5	6
	10	13.60	.57	.56	.05	85		10-4	29
	20	13.10	.56	.65	4.40	73		11-4	32
	30	13.40	.60	.64	.68	78		12-7	36
	40	13.20	.55	.61	.57	76		12-0	48
	50	13.10	.56	.65	.45	74		12-0	38
5. xii	0	16.90	19.76	26.09	5.65	100		0-1	0
	10	16.90	.74	.06	.70	101		0-3	1
	20	17.00	.72	.00	.70	101		0-0	0
	30	16.50	.68	.03	4.38	77		0-5	1
	40	15.10	.75	.32	5.16	90		3-3	7
	50	14.60	.68	.49	4.60	78		13-0	100
1947									
6. i	0	19.20	19.60	25.29	5.24	97		2-20	12
	10	19.20	.60	.29	.40	100		0-26	12
	20	18.70	.64	.47				2-26	12
	30	18.30	.58	.50	.38	98		1-21	12
	40	17.50	.58	.70	.23	94		2-17	12
	50	16.50	.64	26.01	.23	92		2-19	12

Station: ULLADULLA

Latitude: 35° 22' S.

Longitude: 150° 35' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1947									
2. ii	0	19.60	19.66	25.27	5.34	99		6-1	10
	10	18.50	.65	.54	.45	100		5-1	12
	20	18.00	.67	.69	.60	102		5-5	10
	30	17.60	.64	.75	.58	101		7-1	12
	40	17.60	.61	.71	.47	99		18-0	88
	50	16.40	.63	26.02	4.06	72		6-1	14
13. iii	0	19.40	19.62	25.26	5.14	94		1-8	7
	10	19.40	.62	.26	.47	101		1-11	9
	20	19.20	.61	.30	.27	98		1-8	12
	30	19.00	.63	.39	4.98	92		3-6	20
	40	18.30	.64	.57	5.25	97		1-6	20
	50	17.50	.53	.61	.26	98		1-7	15
11. iv	0	18.90	19.57	25.33	5.31	98		5-0	7
	10	18.90	.55	.30	.20	96		0-1	12
	20	16.50	.54	.86	4.47	79		7-0	120
	30	15.70	.59	26.12	.36	76		8-0	115
	40	15.30	.55	.16	.47	77		8-0	115
	50	15.50	.54	.11	.47	77		7-0	120
8. v	0	19.95	19.55	25.03	5.13	96		0-1	5
	10	19.90	.63	.15	.11	95		0-1	5
	20	19.50	.61	.23	.04	94		0-0	7
	30	18.60	.65	.52	4.72	86		0-3	22
	40	18.20	.65	.64	.53	82		1-2	38
	50	18.20	.62	.60	5.23	95		0-1	5
5. vi	0	16.75	19.57	25.86	5.57	99		0-6	23
	10	16.70	.59	.90	.64	100		0-5	17
	20	16.60	.61	.95	.58	99		1-4	17
	30	16.70	.62	.93	.67	100		0-3	23
	40	16.60	.64	.99	.80	103		1-2	23
	50	16.50	.65	26.03	.79	102		0-3	23

Station: ULLADULLA

Latitude: 35° 22' S.

Longitude: 150° 35' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1947									
10. vii	0	13.95	19.62	26.55	5.67	95		0-7	16
	10	13.90	.65	.61	.67	95		0-6	19
	20	13.80	.63	.60	.75	97		0-3	28
	30	13.90	.63	.58	.66	95		0-3	21
	40	14.00	.66	.60	.62	95		0-3	13
	50	13.00	.67	.82	.53	92		0-3	21
7. viii	0	13.40	19.61	26.53	5.83	98		1-13	23
	10	14.00	.60	.52	.87	99		3-0	36
	20	13.60	.58	.78	.84	98		1-14	30
	30	12.80	.58	.74	.68	94		3-11	23
	40	12.80	.61	.77	.68	95		3-9	26
	50	12.80	.60	.76	.67	94		1-15	21
3. ix	0	14.10	19.60	26.50	5.38	91		8-8	65
	10	14.10	.61	.51	.90	98		10-5	55
	20	14.10	.60	.50	.38	91		6-9	83
	30	13.60	.57	.56	.19	87		10-10	110
	40	13.40	.57	.60	4.96	83		11-11	115
	50	13.40	.53	.54	.94	82		11-8	115
6. xi	0	14.40	19.61	26.45	5.52	94		10-18	75
	10	14.40	.62	.46	.50	94		4-17	49
	20	14.20	.58	.45	.55	94		11-11	42
	30	13.95	.58	.51	.30	89		6-16	61
	40	13.70	.61	.60	.29	89		13-8	77
	50	13.80	.49	.41	.30	89		3-20	14
1948									
4. ii	0	20.50	19.53	24.85	5.13	97		3-7	5
	10	20.80	.54	.79	.24	99		1-9	7
	20	20.50	.57	.91	.05	95		1-10	49
	30	20.20	.58	25.01	.15	97		2-4	6
	40	17.80	.60	.65	4.87	88		9-2	6
	50	16.80	.59	.88	.70	83		19-2	2

Station: ULLADULLA

Latitude: 35° 22' S.

Longitude: 150° 35' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1948									
4.iii	0	22.00	19.67	24.62	5.35	103		7-6	0
	10	22.05	.67	.62	.35	103		7-5	0
	20	20.00	.65	25.16	.46	102		8-5	0
	30	19.80	.65	.21	.38	100		5-5	0
	40	19.60	.65	.26	.37	100		6-4	0
	50	19.65	.63	.22	.40	101		7-6	0
6.iv	0	19.90	19.69	25.24	5.26	98		4-7	0
	10	19.80	.69	.27	.20	97		5-6	3
	20	19.80	.72	.31	.28	99		5-3	0
	30	19.30	.68	.38	.02	93		7-6	34
	40	19.20	.69	.42	4.76	88		6-3	0
	50	18.95	.72	.53	5.32	98		5-5	0
5.v	0	18.60	19.56	25.40	5.40	99		4-4	6
	10	18.40	.56	.45	.30	97		3-6	4
	20	18.25	.60	.54	.30	97		3-6	2
	30	18.20	.58	.53	.25	95		2-4	6
	40	18.30	.59	.52	.24	95		4-4	5
	50	18.05	.69	.72	4.82	88		5-5	14
8.vii	0	15.70	19.67	26.24	5.59	97		11-6	16
	10	15.80	.70	.26	.58	97		14-2	17
	20	15.65	.63	.20	.59	97		11-5	16
	30	15.20	.63	.30	.69	98		12-4	40
	40	15.70	.72	.31	.86	102		7-5	6
	50	15.00	.67	.40	.65	97		12-7	7
7.viii	0	14.50	19.42	26.16	6.30	107		9-1	0
	10	14.30	.59	.44	.15	104		9-0	4
	20	14.40	.62	.46	.20	105		9-0	4
	30	14.30	.60	.46	.17	105		9-0	6
	40	14.25	.61	.48	.08	103		10-0	0
	50	14.05	.58	.49	5.84	99		10-5	6

Station: ULLADULLA

Latitude: 35° 22' S.

Longitude: 150° 35' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1948									
15. x	0	14.40	19.54	26.35	5.74	97		11-7	1
	10	14.50	.52	.30	.79	98		12-10	0
	20	14.45	.54	.34	.74	97		15-5	3
	30	14.10	.53	.40	.34	90		14-2	32
	40	13.70	.50	.44	.21	87		16-6	63
	50	13.05	.49	.57	4.95	82		13-8	101
13. xi	0	14.38	19.65	26.51	4.55	77	9.00	8-0	6
	10	13.65	.63	.55	5.95	100	.07	6-0	13
	20	13.80	.57	.52	.65	95	.06	7-4	6
	30	13.31	.60	.56	.98	100	8.14	7-5	11
	40	13.71	.58	.56	.92	99	7.94	7-0	13
	50	13.20	.59	.67	.97	100	.90	10-8	14
19. xi	0	16.85	19.55	25.81	5.60	99	8.21	3-0	0
	10	17.00	.53	.74	.62	100	.22	2-0	0
	20	17.10	.54	.74	.74	102	.21	2-0	0
	30	16.80	.55	.82	.68	101	.20	2-0	0
	40	17.00	.54	.76	.67	101	.21	3-0	0
	50	16.20	.52	.93	.52	97	.20	4-0	6
1949									
14. i	0	19.50	19.55	25.15	5.07	94		4-3	0
	10	19.40	.58	.23	4.96	92		8-0	0
	20	18.60	.55	.38	.79	88		0-6	0
	30	18.80	.67	.50	.93	91		3-2	3
	40	18.30	.67	.62	.68	85		4-4	1
	50	16.90	.64	.92	.53	80		9-2	19
8. ii	0	22.00	19.64	24.60			7.99	0-8	5
	10	20.50	.66	25.04			8.06	4-7	0
	20	20.10	.65	.13			.06	3-4	0
	30	19.80	.64	.19			7.97	7-4	0
	40	19.80	.65	.21			.95	6-6	0
	50	19.50	.64	.27			8.06	8-4	1

Station: ULLADULLA

Latitude: 35° 22' S.

Longitude: 150° 35' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1949 5.iii	0	20.20	19.70	25.17	5.05	95	8.20	2-10	2
	10	19.60	.71	.35	4.90	91	.19	7-6	2
	20	19.00	.64	.39	.59	85	.17	7-7	6
	30	17.50	.64	.77	.22	76	.15	12-4	44
	40	16.40	.65	26.06	.09	72	.12	17-6	69
	50	16.30	.69	.13	.03	71	.11	20-0	59
7.iv	0	20.10	19.71	25.22	4.97	93	8.21	4-17	5
	10	20.00	.72	.26	.93	92	.22	4-3	5
	20	19.20	.67	.39	.71	87	.20	2-13	5
	30	18.05	.67	.69	.62	84	.16	6-13	8
	40	17.20	.63	.83	.26	76	.09	12-2	58
	50	18.60	.64	.99	.23	77	.03	8-16	35
5.v	0	19.70	19.69	25.36	5.09	95	8.21	0-24	10
	10	19.00	.69	.48	.02	93	.19	5-10	12
	20	18.80	.72	.57	.36	99	.19	3-8	11
	30	18.30	.69	.65	.02	92	.21	3-12	10
	40	18.90	.69	.75	4.99	92	.19	3-7	11
	50	17.50	.68	.83	.85	87	.19	9-7	28
21.vi	0	14.95	17.32	25.93	6.14	103	8.21	13-0	27
	10	15.65	.42	.91	5.67	98	.20	14-0	21
	20	15.60	.48	26.00	.54	96	.21	9-3	13
	30	15.80	.57	.08	.52	96	.10	10-0	19
	40	15.80	.57	.08	.58	97	.20	9-5	22
	50	15.90	.58	.08	.52	96	.21	9-5	12
16.viii	0	15.80	19.62	26.15	5.95	104	8.23	5-14	0
	10	15.75	.59	.12	6.01	105	.19	7-12	0
	20	15.70	.63	.18	5.88	102	.23	7-7	0
	30	14.55	.53	.30	4.93	84	.14	19-0	47
	40	14.30	.54	.37	.96	84	.05	17-6	100
	50	13.50	.49	.47	.88	82	.10	20-5	158

Station: ULLADULLA

Latitude: 35° 22' S.

Longitude: 150° 35' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N	
1949	6. x	0	17.00	19.57	25.80	5.40	96	8.20	12-4	0
		10	16.70	.56	.86	4.55	81	.24	14-1	15
		20	15.70	.55	26.08	.65	81	.15	20-2	85
		30	14.80	.55	.28	.77	82	.21	16-8	103
		40	14.20	.52	.37	.39	74	.12	25-0	127
		50	13.55	.50	.47	3.44	58	.15	23-2	169
	8. xi	0	18.20	19.59	25.54	5.57	99	8.24	5	0
		10	18.20	.60	.55	.62	102	.26	5-5	0
		20	17.60	.61	.71	.50	99	.25	7-4	0
		30	17.20	.65	.87	.53	99	.25	4-6	0
		40	16.30	.67	26.11	.34	94	.23	10-7	5
		50	16.30	.67	.11	.36	94	.17	6-11	10
	13. xii	0	19.05	19.62	25.36	5.57	101	8.20	14-0	0
		10	19.10	.61	.34	.52	100	.21	4-4	0
		20	18.80	.59	.39	.67	102	.22	2-0	2
		30	18.00	.57	.56	.57	99	.23	4-0	0
		40	17.80	.57	.61	.45	97	.19	7-0	5
		50	16.70	.56	.86	.00	87	.19	10-0	14
1950	31. i	0	20.20	19.61	25.05	5.38	101		6-3	2
		10	20.00	.61	.10	.37	100	8.24	5-7	5
		20	20.00	.65	.16	3.97	74		4-5	3
		30	19.50	.60	.22	5.01	93	.34	5-9	5
		40	19.50	.54	.14	.49	102		4-5	3
		50	19.30	.54	.19	.24	97	.42	5-8	4
17. iii	0	20.50	19.52	24.85	5.32	100		5-7	0	
	10	20.20	.53	.94	.32	100		6-9	0	
	20	20.00	.54	25.01	.17	97		17-2	0	
	30	19.60	.55	.12	.64	105		7-6	0	
	40	19.00	.58	.33	.13	94		8-6	0	
	50	17.40	.61	.77	.64	101		12-7	0	

Station: ULLADULLA

Latitude: 35° 22' S.

Longitude: 150° 35' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1950									
13. iv	0	19.80	18.05	23.01	5.33	98	8.06	8-4	3
	10	20.80	.89	.90	.06	95	.12	4-5	3
	20	21.05	19.09	.83	4.94	93	.16	6-5	0
	30	21.20	.42	24.52	.88	93	.09	8-0	0
	40	21.25	.45	.55	.87	93	.10	6-7	0
	50	19.95	.54	25.02	.52	84	.06	11-2	12
28. iv	0	19.80	19.48	24.98				2-12	14
	10	20.00	.55	25.02				2-3	11
	20	19.20	.57	.26				3-3	19
	30	19.25	.58	.26				6-0	11
	40	19.80	.70	.27				5-2	11
	50	19.65	.64	.25				8-0	18
13. vii	0	16.70	19.63	25.96	5.56	98	8.28	8-4	9
	10	16.70	.61	.93	.49	97	.27	6-4	7
	20	16.95	.53	.75	.38	96	.29	7-1	13
	30	16.90	.47	.69	.38	95	.28	9-2	15
	40	16.00	.48	.91	.42	95	.30	5-5	12
	50	16.00	.46	.88	.40	94	.28	7-5	11
7. viii	0	16.10	19.49	25.91	7.25	127	8.27	6-13	20
	10	15.90	.50	.96	.55	132	.27	3-6	7
	20	15.90	.46	.90	.55	132	.30	9-0	15
	30	15.80	.49	.98	.61	132	.27	7-7	31
	40	15.80	.51	26.00	6.84	119	.11	6-6	27
	50	15.50	.48	.02	7.09	123	.12	6-4	48
4. ix	0	17.30	19.57	25.73	7.76	139	8.18		3
	10	17.20	.56	.75	.89	141	.20		10
	20	17.40	.56	.70	8.01	143	.23		8
	30	17.60	.58	.68	7.80	140	.23		14
	40	17.40	.56	.70	8.09	145	.23		5
	50	16.60	.56	.89	7.67	135	.20		7

Station: ULLADULLA

Latitude: 35° 22' S.

Longitude: 150° 35' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1950									
29. ix	0	15.90	19.52	25.99	5.33	93	8.18	7-6	3
	10	15.80	.54	26.04	.48	95	.15	12-4	4
	20	14.45	.53	.32	.55	94	.15	11-6	21
	30	14.22	.54	.39	.14	87	.12	11-7	10
	40	13.00	.53	.62	.02	83	.16	15-8	52
	50	13.90	.61	.56	4.78	81	.15	6-17	4
24. xi	0	18.00	19.52	25.50	5.59	101	8.03		1
	10	17.50	.57	.69	.15	92	.03		16
	20	17.20	.54	.72	.07	90	.02	11-0	21
	30	16.80	.55	.82	4.74	84	7.96	16-3	44
	40	16.00	.53	.98	.54	79	8.01		63
	50	15.50	.54	26.11	.48	78	7.90	19-10	75

Station: EDEN

Latitude: 37° 04' S.

Longitude: 150° 05' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1945									
9. xi	0	17.45	19.64	25.84	5.49	99		0-1	7
	10	15.70	.62	26.21	.70	99		0-10	7
	20	14.90	.61	.38	.70	98		0-6	7
	30	14.80	.62	.41	.60	96		0-10	5
	40	14.65	.64	.47	.50	94		0-10	5
	50	14.54	.64	.50	.55	95		1-8	5
1946									
9. i	0	19.15	19.70	25.44	5.29	101		0-16	0
	10	18.75	.68	.51	.37	96		0-12	0
	20	18.00	.68	.70	.37	97		0-6	0
	30	17.45	.63	.77	.43	98		0-8	0
	40	17.10	.64	.86	.37	95		0-8	0
	45	17.10	.64	.86	4.94	87		1-34	0
6. ii	0	19.60	19.63	25.23	5.06	94		0-3	0
	10	19.50	.62	.24	.09	95		0-2	0
	20	19.13	.63	.35	.11	95		0-2	3
	30	18.51	.61	.48	.01	92		0-3	3
	40	18.30	.62	.54	.08	93		0-5	3
	50	18.25	.62	.56	.03	92		0-2	3
6. iii	0	19.40	19.59	25.23	5.30	98		0-2	7
	10	19.30	.57	.23	.30	98		1-0	7
	20	19.40	.57	.20	.20	96		0-4	7
	30	18.80	.56	.35	4.73	87		2-4	27
	40	18.70	.50	.29	.55	84		7-0	53
	50	18.70	.51	.30	.60	84		10-1	77
10. iv	0	19.50	19.69	25.34	5.09	95		4-1	8
	10	19.40	.70	.38	3.17	59		4-1	5
	20	19.10	.71	.48	5.07	97		3-1	8
	30	19.30	.70	.44	.09	92		2-0	4
	40	19.00	.67	.44	4.55	84		3-3	12
	50	19.10	.68	.43	3.39	63		3-4	8

Station: EDEN

Latitude: 37° 04' S.

Longitude: 150° 05' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1946									
1. v	0	19.40	19.60	25.24	5.24	97		0-2	0
	10	19.40	.61	.25	.20	96		1-11	0
	20	19.21	.62	.33	.84	108		1-5	0
	30	19.20	.63	.33	.20	96		0-5	0
	40	18.30	.65	.59	4.96	91		2-7	8
	50	17.60	.67	.79	.87	88		2-4	15
3. vii	0	14.20	19.51	26.34	5.45	92		2-4	16
	10	14.20	.52	.35	.50	93		1-4	16
	20	14.40	.54	.35	.33	91		3-3	16
	30	14.10	.54	.41	.51	93		4-1	13
	40	14.00	.53	.41	.58	94		5	20
	50	13.90	.53	.43	.65	95		2-3	20
31. vii	0	11.80	19.55	26.88	5.76	94		4-6	12
	10	11.75	.54	.88	.78	94		2-8	12
	20	11.80	.56	.90	.81	94		2-1	18
	30	11.70	.55	.91	.80	94		5-10	18
	40	11.70	.52	.87	.77	94		3-5	18
	50	11.70	.54	.89	.81	94		5-5	18
4. ix	0	12.40	19.48	26.67	5.11	84		0-0	
	10	11.80	.52	.85	6.15	100		0-4	
	20	11.60	.50	.86	.16	100		0-3	
	30	11.70	.52	.87	5.90	96		0-3	
	40	11.50	.54	.93	.85	95		0-1	
	50	11.50	.57	.97	.74	93		0-3	
2. x	0	11.80	19.52	26.85	5.94	96		9-0	14
	10	11.80	.52	.85	6.53	105		9-0	23
	20	11.70	.50	.84	.02	97		8-0	23
	30	11.80	.52	.85	.00	97		7-2	23
	40	11.70	.54	.89	5.94	96		7-1	23
	50	11.80	.55	.88	6.03	98		6-2	23

Station: EDEN

Latitude: 37° 04' S.

Longitude: 150° 05' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1946									
5. xi	0	13.50	19.60	26.62	6.00	101		1-6	9
	10	13.40	.57	.60	5.55	93		1-11	9
	20	12.50	.57	.78	.84	96		3-7	11
	30	12.50	.58	.80	6.34	104		1-4	11
	40	12.40	.57	.80	5.80	95		5-5	11
	50	12.60	.56	.75	.85	96		4-6	9
4. xii	0	15.90	19.61	26.11	5.83	102		0-0	1
	10	15.60	.68	.27	.80	101		0-4	1
	20	15.30	.61	.24	.35	92		0-4	1
	30	15.00	.60	.30	.87	101		0-8	1
	40	14.40	.57	.39	.95	101		0-10	1
	50	14.20	.50	.33	.80	98		0-12	1
1947									
9. i	0	18.20	19.65	25.62	5.49	100		2-8	12
	10	18.00	.63	.64	.40	98		0-13	12
	20	17.00	.62	.86	.37	95		2-8	13
	30	16.80	.59	.92	.50	98		2-17	23
	40	16.70	.60	.91	.50	97		0-19	28
	50	16.40	.59	.97	.45	96		0-18	20
3. ii	0	20.10	19.69	25.19	5.16	97		7-10	10
	10	17.80	.73	.83	.16	93		7-1	10
	20	17.10	.64	.86	.16	92		8-4	12
	30	16.80	.64	.94	.05	90		9-0	77
	40	16.30	.66	26.08	.04	89		3-9	14
	50	16.20	.62	.07	4.90	86		13-0	10
10. iv	0	19.90	19.70	25.25	5.26	100		4-0	7
	10	19.00	.63	.39	.36	99		0-3	5
	20	17.80	.55	.57	.52	100		0-5	7
	30	17.90	.47	.44	.02	91		5-2	43
	40	16.50	.49	.81	4.80	85		3-1	43
	50	15.10	.57	26.23	.76	82		6-7	38

Station: EDEN

Latitude: 37° 04' S.

Longitude: 150° 05' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1947									
6. v	0	19.30	19.65	25.34	4.93	90		0-5	7
	10	18.60	.62	.47	5.11	94		0-3	17
	20	17.60	.60	.70	4.81	86		0-3	15
	30	17.60	.59	.68	5.15	92		0-3	43
	40	17.10	.57	.77	4.62	82		3-4	48
	50	17.00	.61	.86	.56	81		1-5	59
4. vi	0	16.20	19.66	26.11	5.58	97		1-13	25
	10	16.10	.64	.10	.59	98		1-6	25
	20	16.05	.62	.08	.53	97		1-2	26
	30	16.00	.61	.09	.55	97		1-5	26
	40	16.00	.59	.06	.48	96		0-7	17
	50	15.95	.56	.04	.51	97		1-9	26
8. vii	0	13.20	19.60	26.68	5.83	97		0-3	16
	10	13.20	.57	.64	.73	96		0-1	33
	20	13.10	.57	.66	.76	96		0-1	21
	30	13.20	.62	.70	.76	96		1-1	19
	40	13.15	.58	.67	.86	98		0-3	19
	50	13.20	.61	.70	.81	97		0-1	25
6. viii	0	12.70	19.54	26.70	6.05	100		0-11	21
	10	12.70	.57	.74	.10	100		3-15	15
	20	12.60	.58	.78	.10	100		0-12	17
	30	12.00	.58	.80	5.97	97		1-12	15
	40	12.50	.58	.80	.99	98		1-11	12
	50	12.40	.57	.80	6.10	100		0-9	8
1. ix	0	12.20	19.53	26.77	6.21	101		15-2	25
	10	12.25	.52	.76	.18	101		14-1	41
	20	12.10	.54	.82	.16	100		15-0	28
	30	12.25	.55	.80	.20	101		11-7	31
	40	12.20	.56	.83	.20	101		11-0	23
	50	12.20	.55	.81	.13	100		9-9	20

Station: EDEN

Latitude: 37° 04' S.

Longitude: 150° 05' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1947									
8. x	0	13.25	19.52	26.56	6.23	104		3-8	51
	10	13.25	.55	.60	.28	105		0-8	51
	20	13.05	.57	.67	.28	104		2-13	59
	30	13.00	.57	.68	.14	102		5-6	75
	40	13.00	.58	.70	.00	100		0-18	75
	50	12.75	.56	.72	.06	100		3-8	70
5. xi	0	13.50	19.68	26.73	5.89	99		8-4	0
	10	13.40	.66	.72	.94	99		0-14	7
	20	13.40	.67	.74	.82	99		4-13	0
	30	13.20	.71	.84	.84	97		0-19	4
	40	13.20	.71	.84	.80	97		2-13	2
	50	13.20	.76	.91	.80	97		20-0	1
9. xii	0	16.90	19.58	25.84	5.68	101		6	6
	10	16.75	.60	.90	.75	102		4	1
	20	16.30	.58	.98	.88	103		0	3
	30	15.60	.59	26.15	.80	101		5	0
	40	15.30	.59	.22	.62	97		7	6
	50	15.20	.49	.11	.58	94		5	23
1948									
2. iiii	0	19.50	19.68	25.32	5.60	104		3-10	5
	10	19.20	.62	.31	.59	104		4-12	15
	20	18.60	.62	.47	.55	102		5-11	7
	30	18.60	.62	.47	.37	98		0-14	9
	40	17.20	.57	.75	.08	90		11-17	51
	50	17.30	.58	.75	.00	89		7-9	17
1. iv	0	18.62	19.67	25.54	5.38	99		2-10	39
	10	18.50	.68	.58	.27	96		2-8	22
	20	18.53	.68	.58	.16	94		3-7	39
	30	18.52	.67	.57	.21	95		4-9	33
	40	18.52	.70	.61	.20	95		3-10	43
	50	18.55	.67	.56	.21	95		2-12	34

Station: EDEN

Latitude: 37° 04' S.

Longitude: 150° 05' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1948 7. v	0	18.60	19.64	25.50	5.41	99		6-5	4
	10	18.70	.64	.47	.35	98		1-7	5
	20	18.60	.60	.45	.35	98		4-5	5
	30	18.60	.61	.46	.40	99		5-6	4
	40	17.50	.64	.78	.28	95		9-4	7
	50	17.60	.64	.75	.18	93		4-11	12
3. vi	0	14.00	19.56	26.47	5.84	99		6-0	5
	10	13.80	.60	.56	.80	98		9-4	4
	20	13.60	.66	.69	.85	98		6-2	3
	30	13.60	.63	.65	.84	98		4-5	4
	40	13.55	.66	.70	.85	98		5-0	0
	50	13.50	.63	.67	4.58	77		4-11	5
3. vii	0	12.50	19.61	26.84	5.89	97		7	0
	10	12.50	.59	.81	6.03	99		5-9	0
	20	12.50	.59	.81	.03	99		12-2	0
	30	12.70	.60	.79	.12	101		9	0
	40	12.50	.58	.80	.04	99		9	6
	50	12.50	.60	.83	.10	100		22-20	9
5. viii	0	12.00	19.47	26.74	6.14	100		13-6	20
	10	12.00	.49	.77	.10	99		12-6	14
	20	11.90	.49	.79	.19	100		15-7	30
	30	11.80	.49	.81	.19	100		14-4	30
	40	11.70	.48	.81	.04	98		14-0	31
	50	11.45	.54	.94	.17	100		12-1	33
1. ix	0	11.40	19.54	26.95	6.54	105		6-5	0
	10	11.80	.55	.89	.66	108		7-6	0
	20	11.40	.57	.99	.59	106		7-6	0
	30	11.40	.55	.96	.25	101		9-4	6
	40	11.20	.59	27.06	.25	100		9-3	10
	50	11.00	.53	.01	.20	99		10-2	12

Station: EDEN

Latitude: 37° 04' S.

Longitude: 150° 05' E.

Date	Depth (m.)	Temp. °C	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1948									
14. x	0	13.10	19.47	26.43	6.06	100		13-1	0
	10	13.05	.46	.52	.03	100		9-5	0
	20	13.05	.49	.57	.09	101		12-4	0
	30	13.10	.49	.56	.02	100		9-6	0
	40	13.05	.51	.59	.05	100		7-0	0
	50	13.05	.46	.52	.00	100		10-4	0
11. xi	0	14.61	19.57	26.35	6.25	107	9.05	6-2	7
	10	13.95	.57	.49	.05	102	7.69	4-8	6
	20	13.80	.57	.52	.20	104	8.98	6-2	5
	30	13.58	.57	.56	.15	103	7.82	7-3	11
	40	13.40	.56	.59	.01	101	8.14	7-7	10
	50	13.34	.58	.63	5.97	100	9.08	6-4	10
18. xii	0	16.90	19.66	25.95	5.74	102	8.22	6-4	6
	10	15.90	.65	26.17	.87	102	.22	3-9	6
	20	15.80	.64	.18	.88	102	.19	5-0	6
	30	15.75	.66	.22	.93	103	.21	2-0	6
	40	15.30	.62	.26	.92	102	7.30	3-0	6
	50	15.40	.66	.30	.94	103	8.19	6-0	0
1949									
7. i	0	21.00	19.59	24.81			8.09	0-12	0
	10	19.50	.55	25.15			.10	3-5	0
	20	18.50	.54	.40			.11	2-12	0
	30	18.60	.55	.38			.11	3-16	12
	40	17.50	.50	.59			.15	3-12	0
	50	17.30	.53	.67			.13	4-5	15
3. iii	0	20.10	19.59	25.05	5.23	98	8.16	3-8	0
	10	18.60	.67	.55	.31	97	.15	5-0	0
	20	17.40	.63	.79	.01	90	.15	5-12	0
	30	17.10	.58	.80	4.82	86	.14	11-4	6
	40	16.40	.57	.94	.72	83	.12	8-8	13
	50	16.20	.58	26.01	.69	82	.13	5-13	17

Station: EDEN

Latitude: 37° 04' S.

Longitude: 150° 05' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1949									
6. iv	0	18.80	19.64	25.45	5.23	96	8.25	5-10	0
	10	18.15	.70	.70	.42	99	.23	4-9	0
	20	17.70	.66	.76	.03	91	.20	3-13	3
	30	17.35	.66	.84	4.67	84	.19	9-12	7
	40	17.25	.62	.81	.63	83	.18	6-12	6
	50	17.10	.62	.84	.36	78	.16	12	18
6. vii	0	14.00	19.51	26.39	5.92	100	8.16	5-6	3
	10	13.60	.53	.50	.25	88	.12	9-0	5
	20	13.40	.56	.59	.68	95	.10	11-0	8
	30	12.80	.59	.75	.32	88	.11	8-0	5
	40	13.20	.63	.73	.77	96	.09	6-5	6
	50	11.50	.56	.96	.89	95	.04	8-1	6
8. ix	0	13.40	19.45	26.44	6.03	101	8.09	15-0	36
	10	13.10	.51	.58	5.02	83	.11	19-0	99
	20	13.00	.52	.62	.62	93	.24	17-5	59
	30	13.00	.55	.65	.73	95	.24	12-5	26
	40	12.80	.58	.74	.82	96	.20	10-7	20
	50	12.50	.57	.78	.81	95	.05	12-5	11
8. xi	0	16.65	19.52	25.82	5.96	105	8.13	6-7	0
	10	14.95	.55	26.24	6.01	103	.21	6-4	6
	20	14.45	.55	.35	5.74	98	.24	10-3	8
	30	14.40	.56	.38	.67	96	.22	8-6	9
	40	14.40	.55	.36	.60	95	.24	10-6	0
	50	14.40	.55	.36	.56	95	.22	10-4	0
14. xii	0	18.90	19.61	25.39	5.56	102	8.22	3-0	0
	10	17.80	.59	.64	.59	101	.21	5-0	2
	20	16.70	.53	.81	.79	102	.20	7-0	2
	30	16.00	.54	26.00	.79	101	.17	6-0	3
	40	15.20	.55	.19	.62	97	.13	7-0	2
	50	15.30	.54	.16	.63	97	.17	4-1	7

Station: EDEN

Latitude: 37° 04' S.

Longitude: 150° 05' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1950									
29. i	0	19.30	19.64	25.32			8.23	4-8	4
	10	18.50	.59	.47			.26	5-10	0
	20	18.50	.60	.48			.29	4-8	5
	30	18.30	.63	.57			.07	6-2	4
	40	18.00	.58	.58				3-4	4
	50	17.50	.61	.74			.23	3-4	4
16. 111	0	18.70	19.62	25.45	5.55	102		9-1	0
	10	18.60	.62	.50	.49	100		5-2	0
	20	18.60	.61	.49	.52	101		5-6	0
	30	18.10	.60	.58	.52	100		5-6	0
	40	17.80	.60	.65	.48	99		7-6	0
	50	17.05	.64	.88	.36	95		8-4	0
12. iv	0	19.60	19.10	24.51	4.93	91	8.09	8-3	5
	10	18.25	.21	25.01	5.21	94	.03	8-3	12
	20	18.25	.22	.02	.15	93	7.92	15-0	16
	30	18.30	.25	.05	.10	93	8.06	11-4	6
	40	18.40	.17	24.91	.01	91	.01	14-1	14
	50	18.58	.22	.93	4.45	81	7.98	22-11	25
29. iv	0	19.60	19.32	24.81				6-4	11
	10	19.75						3-6	7
	20	19.60	.38	.90				3-5	8
	30	19.30	.40	.99				7-3	11
	40	19.30	.39	.98				9-0	21
	50	17.30	.41	25.51				9-4	36
12. vii	0	15.20	19.49	26.11	5.60	97	8.26	7-5	25
	10	15.20	.49	.11	.41	93	.26	8-4	22
	20	15.00	.48	.14	.62	97	.27	9-0	16
	30	14.70	.43	.14	.57	95	.25	9	29
	40	13.70	.43	.35	.64	95	.11	9-1	23
	50	13.60	.43	.37	.56	93	.22	8-3	60

Station: KDEX

Latitude: 37° 04' S.

Longitude: 150° 05' E.

Date	Depth (m.)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1950									
9. viii	0	13.40	19.50	26.51	7.36	123	8.06	8-5	28
	10	13.30	.51	.54	6.84	112	.20	9	43
	20	13.50	.52	.51	.55	110	.23	8-4	31
	30	13.40	.56	.59	7.41	124	.26	6-4	40
	40	13.40	.55	.57	.52	126	.27	9-2	25
	50	13.25	.50	.54	6.78	113	.25	8-2	37
5. ix	0	14.30	19.51	26.33	7.36	125	8.21		2
	10	13.80	.51	.43	8.01	135	.21		3
	20	14.00	.55	.45	.16	138	.21		4
	30	14.30	.57	.41	7.67	130	.20		4
	40	14.30	.55	.38	.94	135	.10		6
	50	14.30	.56	.40	8.26	140	.17		15
1. x	0	12.60	19.68	26.45	5.37	88	8.21	7-8	2
	10	14.01	.60	.52	.12	87	.15	14-8	39
	20	10.60	.62	.60			.20	15-6	28
	30	13.75	.67	.68	.21	88	.17	11-8	29
	40	11.48	.71	.70			.17	13-7	23
	50	13.48	.65	.70	.51	92	.15	11-9	10
22. xi	0	17.40	19.47	25.57	5.86	105	8.01	12-2	1
	10	17.00	.47	.57	.83	104	.03	14-14	3
	20	16.80	.42	.64	.75	102	7.99	11-3	3
	30	16.00	.43	.85	.86	102	8.05	13-10	1
	40	15.60	.46	.97	.69	99	.04	14-6	1
	50	14.80	.50	26.21	.50	94	.00	15-4	4

Station: FORT PHILLIP HEADS

Latitude: 38° 22' S.

Longitude: 144° 36' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1948									
20. xi	0	15.43	19.57	26.17	6.05	105		4-10	0
	20	14.30	.57	.41	5.98	101		6-7	152
	50	13.59	.57	.56	.56	93		7-6	
1949									
31. i	0	17.95	19.74	25.81				5-9	5
	20	16.78	.76	26.12				5-1	0
	50	16.55	.74	.14				5-9	3
26. iii	0	16.70	19.60	25.92	5.51	98		3	0
	10	16.50	.59	.95	4.87	86		5	0
	20	16.50	.61	.97	5.41	95		5	0
	30	16.50	.59	.95	.45	96		5	0
	40	16.50	.61	.97	.52	97		6	0
	50	16.20	.65	26.10	.27	92		10	10
14. v	0	15.20	19.76	26.48	5.87	102		6	0
	10	15.20	.76	.48	.85	101		3	0
	20	15.20	.76	.48	.69	98		3	9
	30	15.00	.77	.54	.64	97		6	2
	40	15.00	.76	.53	.60	96		6	0
12. vi	0	13.31	19.68	26.77	5.50	92		15-0	7
	20	13.28	.74	.86	.73	96		10-1	3
	50	13.31	.73	.84	.77	96		6-5	5
27. vii	0	11.70	19.62	27.00	6.28	102		10	11
	10	11.80	.61	26.97	.17	100		6-11	24
	20	11.60	.67	27.02	.24	101		7-4	14
	30	11.80	.62	26.98				6-7	0
	40	11.80	.62	.98	.16	100		6-7	8
	50	11.80	.68	.98	.08	99		8	5
9. ix	0	11.82	19.67	27.06				8-2	0
	20	11.79	.66	.05	6.07	99		8-3	0
	50	11.75	.65	.04	5.82	94		8-1	0

Station: PORT PHILLIP HEADS

Latitude: 38° 22' S.

Longitude: 144° 36' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1949									
17. x	0	13.00	19.71	26.88	5.45	91		7-6	0
	10	13.00	.66	.81	6.37	103		5-6	0
	20	13.00	.68	.83	5.77	96		6-6	0
	30	13.00	.70	.86	.64	94		5-5	0
	40	13.10	.71	.86	.04	84		4-7	0
	50	13.10	.60	.71	.18	86		2-8	0
16. xi	0	16.00	18.58	24.66	5.97	103		11-4	0
	10	15.00	19.46	26.11	6.23	107		3-7	0
	20	14.80	.49	.20	.15	105		4-6	0
	30	14.50	.55	.34	.28	107		7-4	0
	40	14.20	.59	.46	.17	104		7-4	0
	50	13.60	.63	.65	.00	101		5-13	0
7. xii	0	15.21	19.56	26.21				4-0	4
	20	15.18	.58	.24				6-0	5
	50	15.19	.58	.24				6-0	2
1950									
14. i	0	16.90	19.58	25.85	5.41	96		7-0	3
	10	16.75	.58	.88	.08	90		4-8	0
	20	16.70	.59	.90	.07	90		4-6	0
	30	16.70	.60	.92	4.91	87		7-3	0
	40	16.45	.59	.96	5.19	91		4-7	8
	50	16.00	.59	26.07				8-5	9
27. iiii	0	17.50	19.58	25.70	5.51	99		7-2	0
	20	17.10	.61	.83	.27	97		7-7	0
	50	16.97	.55	.78	.11	91		11-8	0
16. iv	0	16.40	19.46	25.79	5.76	101		7-3	1
	10	15.90	.45	.90	.73	100		6-6	1
	20	15.80	.45	.92	.62	98		8-3	4
	30	15.70	.49	26.00	.55	96		9-4	4
	40	15.80	.46	25.93	.57	97		8-5	8
	50	15.60	.51	26.04	.58	97		7-3	0

Station: PORT PHILLIP HEADS

Latitude: 38° 22' S.

Longitude: 144° 36' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1950									
19.v	0	15.10	19.58	26.26	5.66	97		2-10	5
	10	15.00	.56	.25	.70	98		6-4	5
	20	15.00	.59	.29	.70	98		4-6	7
	30	14.90	.55	.26	.68	97		3-8	7
	40	14.90	.55	.25	.76	99		3-8	7
	50	14.90				.73		6-2	9
5.vi	0	13.80			5.76			34-1	8
	20	13.40	19.60		.73	96		15-0	8
	50	12.10			9.13			15-2	8
14.vii	0	12.60	19.56	26.75	5.88	97		4-5	5
	10	12.80	.57	.72	6.19	102		4-9	4
	20	12.80	.58	.74	.13	101		4-5	0
	30	13.00	.65	.80	.38	106		3-6	4
	40	13.00	.67	.82	.15	102		6-2	7
	50	13.00				.33		3-0	13
19.viii	0	12.75	19.65	26.85	6.42	106		12-0	3
	10	12.70	.61	.80	.65	110		7-7	6
	20	12.70	.44	.56	.80	112		6-4	5
	30	12.70	.50	.65	.35	105		5-15	3
	40	12.70	.58	.76	.28	104		8-8	0
	50	12.70	.65	.86	.30	104		8-2	1
12.ix	0	13.50	19.65	26.70	5.33	89		6-5	
	10		.67		.02			6-0	7
	20	13.00	.68	.83	.08	84		4-8	0
	30	12.90	.66	.83	.43	90		5-8	0
	40	12.80	.71	.93	.27	87		6-14	1
	50	12.90	.69	.88	.35	89		7-21	14
12.x	0	13.90	19.64	26.59	5.41	91		7-8	3
	10	13.90	.65	.61	.31	90		7-6	5
	20	13.80	.63	.60	.42	91		9-6	4
	30	13.50	.70	.63	4.03	68		7-6	4
	35	13.50	.64	.68	5.15	86		8-5	4

Station: PORT PHILLIP HEADS

Latitude: 38° 22' S.

Longitude: 144° 36' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1950									
24. x	0	15.22	19.53	26.15	5.64	101		5-6	2
	20	14.65	.57	.33	.42	93		7-3	0
	50	14.66	.54	.29	6.47	110		7-4	1
7. xi	0	14.60	19.65	26.46				7-2	0
	20	14.40	.67	.53	5.32	90		0-16	0
	50	14.20	.69	.61	4.76	81		4-6	0
6. xii	0	19.60	19.69	25.32	5.28	98		4-5	0
	10	17.10	.68	.93	.30	94		3-10	0
	20	16.60	.67	26.04	.67	100		4-6	2
	30	15.60			.57			0-9	3
	40	15.60	.66	.25	6.27	109		3-6	0
	50	14.50	.68	.52	5.64	96		5-10	2

Station: LOW HEAD

Latitude: 40° 55' S.

Longitude: 146° 46' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1948									
8. xii	0	13.68	19.46	28.25	5.98	100		6-3	
	20	13.43	.46	.25	6.15	103		5-4	
	50	12.84	.56	.40	5.57	92		11-0	
1949									
12. iiii	0	16.09	19.55	25.99	2.03	36		6-3	0
	20	16.01	.59	26.06	.03	35		7-2	0
	50	15.92	.57	.05	1.87	33		5-3	0
29. ix	0	11.49	19.49	26.87	6.12	99		12-0	0
	20	11.35	.47	.87	.13	102		6-5	0
	50	11.54	.58	.99	5.96	96		15-0	0
1950									
26. iv	0	15.62	19.64	26.22	5.54	96		0-15	4
	20	15.70	.53	.05	.65	98		7-2	2
	50	15.65			.36			12-19	23
8. viii	0	12.10	19.44	26.68	5.06	81		7-3	0
	20	12.50	.58	.80	3.97	64		8-1	0
	50	12.50	.59	.81	5.34	87		5-4	0
16. x	0	13.50	19.42	26.36	5.51	92		10-0	2
	20	13.21	.53	.58	.78	96		9-4	3
	50	12.20	.72	27.05	.02	82		12-3	3
25. xi	0	15.93	18.87	25.07	4.85	84		2-15	0
	20	14.82	19.00	.51	.12	70		3-8	0
	50	14.50	.60	26.41	5.03	86		4-10	0

Station: ST. HELENS

Latitude: 41° 18' S.

Longitude: 148° 30' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1945									
4. i	0	14.13	19.31	26.08					
	20	14.08	.38	.20					
	50	13.13	.36	.36					
6. v	0	13.75	19.46	26.37	5.83	98		7	8
	20	13.72	.49	.43	.72	96		5	11
	50	13.72	.50	.44	.77	97		2	11
1946									
16. ii	0	15.58	19.42	25.92	5.88	102			7
	30	15.43	.42	.95	.85	101			
	50	15.62	.43	.93	.95	103			5
11. v	0	13.45	19.35	26.17	5.85	98		5-5	7
	20	13.20	.31	.25	.85	97		4-8	7
	50	12.95	.32	.30	.75	95		9-4	1
24. ix	0	10.60	19.30	26.76	6.60	104		8-0	12
	20	10.68	.30	.75	.60	104		7-0	28
	50	10.60	.30	.76	.44	102		6-4	28
29. xi	0	12.10	19.26	26.42	6.65	108		4-0	1
	20	12.25	.33	.49	.34	107		3	1
	50	11.50	.37	.69	.42	103		9-0	10
1947									
12. vi	0	13.75	19.34	26.21	5.56	93		3-11	40
	20	13.55	.31	.20	.23	87		3-11	32
	50	13.50	.29	.18	.22	87		1-9	34
7. ix	0	11.95	19.42	26.67	6.25	101		7-11	4
	20	11.95	.43	.69				10-8	2
	50	11.55	.45	.80	.17	100		9-3	0

Station: ST. HELENS

Latitude: 41° 18' S.

Longitude: 148° 30' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1948									
25. ii	0	14.90	19.38	26.02	5.32	91		8-9	7
	20	14.80	.42	.09	.40	92		11-1	7
	50	14.65	.41	.11	.45	93		11-2	5
8. xi	0	12.78	19.36	26.44	6.24	102		5-9	0
	20	12.08	.36	.58	.32	102		14-3	4
	50	11.81	.38	.66	.00	96		13-4	14
15. xii	0	14.05	19.30	26.09	6.92	116		4-0	1
	20	13.25	.30	.26	.85	114		5-1	5
	50	12.60	.29	.37	5.98	98		12-1	19
1949									
25. i	0	15.05	19.42	26.04	5.26	90		6-6	9
	20	14.19	.43	.24	4.38	74		5-9	9
	50	13.84	.44	.33	5.23	88		7-9	10
5. iv	0	16.01	19.58	26.05	5.58	98		11-0	3
	20	15.85	.55	.04	.75	100		9-0	0
	50	15.89	.54	.02				9-3	0
8. v	0	13.78	19.52	26.46				8-1	6
	20	13.55	.52	.50	5.60	94		7-4	3
	50	13.57	.53	.51	.79	97		10-2	6
16. xii	0	14.25	19.45	26.27	6.24	106		8-8	0
	25	14.15	.48	.33	5.71	96		4-10	0
	50	14.40	.47	.27	1.99	34		7-1	0
1950									
15. iiii	0	15.95	19.38	25.79	5.78	101		5-8	11
	20	15.90	.54	26.02	4.93	86		8-2	0
	50	15.85	.55	.04	2.94	51		11-1	3
1. v	0	15.80	19.68	26.23	4.56	80		6-4	9
	20	15.65	.59	.15	5.62	98		9-2	5
	50	15.20			.27			8-4	5

Station: ST. HELENS

Latitude: 41° 18' S.

Longitude: 148° 30' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1950									
10. viii	0	12.90	19.51	26.62	4.55	75		10-0	41
	20	12.70	.52	.68	.69	77		9-2	35
	50	12.40	.54	.76	5.17	85		9-0	40
4. x	0	12.66	19.39	26.50				12-3	4
	20	12.70	.48	.62	6.04	100		10-5	3
	50	12.40	.44	.60	5.21	85		16-0	33
27. xi	0	14.95	19.46	26.12	5.49	94		0-9	1
	20	14.90	.47	.15	.69	97		5-6	0
	50	14.55	.49	.25				1-7	0
14. xii	0	14.50	19.49	26.26				0-15	0
	20	14.30	.46	.26	5.70	97		4-12	0
	50	14.30	.47	.28				9-6	0

Station: MARIA ISLAND

Latitude: 42° 36' S.

Longitude: 148° 16' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1944									
16. x	0	10.89	19.37	26.80					
	20	10.88	.37	.80					
	50	10.88	.37	.80					
22. xi	0	12.43	19.24	26.33					
	20	11.80	.24	.45					
	50	11.45	.29	.58					
1945									
17. iii	0	14.70	19.41	26.05					
	20	14.32	.42	.19	5.68	96		5	6
	50	14.16	.39	.19				7	16
4. v	0	13.00	19.45	26.52	5.86	97		8	11
	20	13.00	.47	.54	.91	96		4	3
	50	12.95	.45	.53	.82	96		4	6
1946									
14. ii	0	14.80	19.43	26.11	5.65	97		5	16
	30	14.45	.38	.12	.72	97		5	16
	50	14.10	.38	.19	.80	98		5	24
14. iii	0	15.37	19.33	25.84	5.63	97		0-5	8
	20	15.13	.37	.95	.70	98		0-8	13
	50	14.75	.38	26.05	.45	93		3-3	15
26. iv	0	13.98	19.25	26.03	5.70	96		3-3	5
	20	13.80	.27	.10	.70	96		5-1	30
	50	13.57	.28	.16	.47	91		5-7	28
10. v	0	13.25	19.24	26.26	5.70	95		5-5	15
	20	12.95	.25	.27	.74	95		6-0	15
	50	12.95	.29	.23	.65	93		5-2	20
19. vi	0	12.05	19.33	26.53	6.20	101		4-4	23
	20	12.10	.31	.49	.22	101		7-2	23
	50	12.00	.36	.59	.10	99		5	16

Station: MARIA ISLAND

Latitude: 42° 36' S.

Longitude: 148° 16' E.

Date	Depth (m.)	Temp. °C	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1946									
16. vii	0	11.70	19.36	26.64	6.02	97		6-2	32
	20	11.50	.37	.69	.17	99		5-1	32
	50	11.70	.37	.65	.04	98		6-0	38
28. viii	0	10.66	19.35	26.82	6.27	99		6	54
	20	10.71	.40	.87	.10	97		8	54
	50	10.00	.32	.90	.07	95		6	92
25. ix	0	10.30	19.30	26.81	6.60	104		8-0	50
	20	10.33	.34	.88	.42	101		8-0	57
	50	10.25	.38	.94	.42	101		10-0	105
19. x	0	11.00	19.26	26.63	6.86	109		0-6	8
	20	10.90	.28	.67	.35	101		4-0	20
	50	10.80	.31	.73	.27	99		7-0	44
28. xi	0	11.90	19.25	26.45	6.65	108		5-0	10
	20	11.87	.30	.52	.76	110		9-0	27
	50	11.20	.20	.50	.60	105		1	37
1947									
31. i	0	15.20	19.33	25.88	6.10	105		4-2	12
	20	14.45	.32	.93	5.95	101		5-4	12
	50	13.40	.34	26.28	6.18	103		10	28
28. ii	0	16.75	19.35	25.55	4.95	87		2-3	7
	20	15.58	.34	.81	5.75	100		3-0	9
	50	15.25	.34	.89	.42	93		3-4	9
11. iv	0	15.21	19.31	25.85	5.44	94		3-2	7
	20	14.89	.28	.88	.40	92		3-0	2
	50	14.88	.33	.95	.48	94		1-4	2
22. v	0	14.10	19.38	26.19	5.59	94		1-25	27
	20	14.15	.40	.15	.50	93		3-8	27
	50	14.10	.42	.24	.62	95		3-16	27

Station: MARIA ISLAND

Latitude: 42° 36' S.

Longitude: 148° 16' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1947									
13. vi	0	13.00	19.19	26.15	5.49	91		7-8	32
	20	13.05	.28	.26	.54	91		3-12	37
	50	13.25	.25	.18	.54	92		3-8	37
24. vii	0	12.45	19.26	26.35	5.57	91		1-9	23
	20	12.30	.27	.40	.80	95		1-2	17
	50	12.20	.28	.43	.79	94		1-6	17
19. viii	0	11.75	19.41	26.70	5.91	96		8-6	29
	20	11.00	.43	.87	.88	94		10-10	34
	50	11.45	.43	.79	.78	93		7-3	24
4. ix	0	11.45	19.28	26.57	6.01	97		12-4	10
	20	11.10	.30	.67	5.95	95		10-14	7
	50	11.40	.34	.67	.90	95		11-13	7
27. x	0	12.20	19.38	26.58	6.16	100		15-0	14
	20	11.70	.38	.67	.22	100		14-0	47
	50	11.55	.40	.72	5.98	96		14-0	42
1948									
28. i	0	15.72	19.32	25.75	5.67	98		5-0	11
	20	14.80	.39	26.05	.66	97		9-0	11
	50	14.00	.38	.21	.19	87		11-0	16
25. ii	0	15.80	19.38	25.82	5.35	93		5-5	6
	20	14.95	.43	26.08	.31	91		5-8	4
	50	14.50	.41	.14	.22	89		7-5	5
24. iii	0	15.05	19.39	25.99	5.68	97		7-4	5
	20	14.85	.40	26.05	.61	96		6-4	5
	50	14.45	.37	.10	.49	93		7-7	6
28. iv	0	13.65	19.38	26.29	5.91	99		6-9	11
	20	13.45	.39	.34	.94	99		8-6	0
	50	13.45	.39	.34	.65	94		10-7	7

Station: MARIA ISLAND

Latitude: 42° 36' S.

Longitude: 148° 16' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1948									
17. vi	0	11.65	19.31	26.58	6.18	100		8-4	16
	20	11.69	.30	.56	5.82	94		7-4	19
	50	11.59	.32	.61	6.12	99		9-3	14
12. vii	0	11.49	19.33	26.64	5.94	95		13-0	93
	20	11.51	.39	.72	6.10	98		12-1	0
	50	11.45	.38	.73	.12	98		11-1	46
12. viii	0	11.05	19.40	26.82				13-1	15
	20	11.20	.38	.77				11-4	16
	50	11.20	.37	.75				12-1	28
16. x	0	11.60	18.91	26.03				9-0-3	12
	20	10.80	19.40	.86	6.29	100		10-5	9
	50	10.57	.40	.90	.38	101		10-4-0	10
7. xi	0	12.20	19.38	26.58	5.96	97		10-3	0
	20	11.65	.38	.69	6.34	102		10-4	6
	50	11.60	.40	.71	5.96	96		13-2	11
16. xii	0	13.59	19.30	26.19	5.41	90		6-1	1
	20	13.41	.36	.31	6.37	106		8-1	8
	50	12.66	.28	.35	.33	104		6-5	9
1949									
23. i	0	14.32	19.42	26.20	5.54	94		3-12	0
	20	14.02	.43	.28	.32	90		3-9-1	0
	50	13.88	.43	.31	.59	94		6-4-4	0
6. iv	0	15.49	19.55	26.12	4.00	69		11-0-0	3
	20	15.49	.55	.12	5.24	91		5-5-0	5
	50	15.30	.55	.17	4.72	82		10-0-0	0
9. v	0	12.48	19.40	26.54	5.54	91		12-0-3	9
	20	12.44	.38	.54	.62	92		9-3-5	14
	50	12.47	.39	.54	.31	87		15-2-7	18

Station: MARIA ISLAND

Latitude: 42° 36' S.

Longitude: 148° 16' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1949									
29. x	0	11.58	19.39	26.71	5.84	94		13-10	7
	20	11.49	.38	.72	6.22	100		14-18	13
	50	11.49	.38	.72	5.69	92		14-4-0	14
17. xii	0	15.15	19.28	25.83				8-9-1	0
	25	13.70	.30	26.17				9-8-0	0
	50	12.80	.30	.35				6-6-0	0
1950									
9. iiii	0	16.00	19.44	25.86	5.89	103		15-20	10
	20	15.50	.44	.97	.94	103		7-0	11
	50	14.50	.42	26.16	.57	95		15-0	24
2. v	0	14.08	19.47	26.32	5.51	93		8-4	11
	20	14.05	.43	.27	.72	96		11-0	10
	50	14.50			.77			8-0	16
5. vii	0	12.42	19.33	26.46	5.98	98		15	11
	20	12.70	.32	.39	.76	95		8-12	14
	50	12.58	.41	.54	3.27	54		10	21
24. vii	0	12.50	19.43	26.59				9-5-4	38
	20	12.00	.51	.79	5.49	89		7-15	33
	50	12.00	.49	.77				7-15	26
11. viii	0	12.40	19.49	26.70				9-17	21
	20	12.30	.48	.70	4.72	77		11-3-8	20
	50	12.30	.50	.73	.74	77		10-3-3	36
2. x	0	12.25	19.34	26.51				11-4-2	17
	20	12.60	.48	.64				7-11	32
	50	13.10	.51	.58	5.78	98		10-5-5	13
29. xi	0	14.40	19.32	26.04	5.42	93		15-174	0
	20	14.30	.22	25.92	.24	90		65-0	0
	50	13.75	.38	26.27	4.41	75		22-0-2	0

Station: MARIA ISLAND

Latitude: 42° 36' S.

Longitude: 148° 16' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1950									
14. xii	0	14.65	19.46	26.13				2-13	0
	20	14.40	.40	.15				1-20	0
	50	14.40	.43	.20				6-9-7	0

Station: CAPE PILLAR

Latitude: 43° 13' S.

Longitude: 148° 07' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1945									
10.i	0	14.58			6.17			5	3
	20	14.28	19.97	26.97	5.86	100			
	50	14.18						10	8
4.v	0	12.41	19.34	26.48	6.68	109		6	23
	20	12.41	.36	.51	5.93	97		6	11
	50	12.43	.36	.50	.97	98		7	29
1946									
14.iii	0	15.13	19.30	25.86	5.57	95		2-20	22
	20	15.02	.38	26.00	.50	94		2-7	18
	50	14.78	.37	.03	.47	94		2-4	18
10.v	0	12.90	19.26	26.26	5.80	96		5	18
	20	12.83	.25	.27	.77	97		3	18
	50	12.80	.29	.33	.66	93		5	20
28.xi	0	12.45	19.24	26.33				10-0	19
	20	11.27	.34	.69	6.46	104		10-0	40
	50	11.40	.33	.64	.46	104		10-0	43
1947									
10.xii	0	13.70	19.21	26.04	6.05	101		8-9	3
	20	12.20	.30	.46	5.98	97		8-11	2
	50	12.20	.33	.50	.92	96		7-7	37
1948									
25.ii	0		19.40		5.10			10-6	5
	20	15.80	.43	25.89	4.77	83		8-1	2
	50	15.70	.44	.92	3.58	62		9	5
17.vi	0	11.05	19.00	26.26	6.24	99		11-1	6
	20	11.31	.10	.36	5.55	89		9-6	14
	50	11.87	.01	.13	.95	96		11-1	14

Station: CAPE PILLAR

Latitude: 43° 13' S.

Longitude: 148° 07' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1948									
11. viii	0	10.91	19.20	26.56				13-0	18
	20	10.95	.22	.58				13-0	26
	50	11.40	.31	.63				13-0	18
6. xi	0	12.09	19.33	26.52	5.31	86		13-0	9
	20	12.00	.38	.62	6.32	103		14-0	20
	50	11.98	.40	.64	.17	100		11-3	0
16. xii	0	12.65	19.27	26.34	6.19	102		9-2	1
	20	12.59	.29	.37	.32	103		9-5	14
	50	12.45	.28	.39	5.94	97		8-1	5
1949									
23. i	0	13.82	19.28	26.11	5.57	100		6-2	0
	20	13.79	.25	.08	.72	96		7-1	0
	50	13.68	.27	.13	.54	93		6-3	0
8. iv	0	13.64	19.55	26.52	4.42	74		8-7	12
	20	13.62	.57	.56	5.20	87		7-7	15
	50	13.60	.57	.56	4.91	82		9-7	13
1. v	0	13.65	19.33	26.21	5.74	96		10-2	33
	20	12.39	.32	.46	.65	92		16-0	33
	50	12.39	.33	.47	6.11	100		11-2	28
18. xii	0	13.00	19.25	26.24				12-5	0
	25	12.95	.21	.33				10-7	0
	50	12.80	.26	.29				11-3	0
1950									
7. iiii	0	15.60	19.19	25.60	5.85	101		8-4	11
	20	14.90	.24	.83	.80	99		8-1	11
	50	14.10	.31	26.09	.88	99		10-3	0
4. v	0	13.45	19.35	26.28	5.23	87		10-8	15
	20	13.45	.40	.35	.18	86		6-9	13
	50	13.50	.39	.33	3.56	59		9-6	17

Station: CAPE PILLAR

Latitude: 43° 13' S.

Longitude: 148° 07' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1950									
5. vii	0	12.30	19.30	26.45	5.70	93		13-0	13
	20	12.25	.31	.47	.93	97		11-0	21
	50	12.45	.36	.50	.79	95		9-2	20
1. x	0	12.20	19.49	26.74				10-1	15
	20	12.16	.48	.72	4.74	77		11-3	23
	50	12.15	.51	.76	2.32	38		6-5	23
30. xi	0	13.60	19.37	26.28	5.21	87		12-5	57
	20	13.55	.38	.31	.59	93		6-5	0
	50	13.60	.39	.31	.41	90		13-5	0
14. xii	0	13.90	19.45	26.34	5.75	97		4-5	0
	20	13.80	.43	.33	.71	96		5-10	0
	50	14.00	.46	.32	.75	97		5-4	4