

OCEANOGRAPHICAL STATION LIST

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

Volume 30

**Onshore and Oceanic Hydrological Investigations
in Eastern and South-western Australia, 1956**

Compiled by D. J. Rochford and R. S. Spencer

**COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH
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ONSHORE AND OCEANIC HYDROLOGICAL INVESTIGATIONS IN EASTERN AND SOUTH-WESTERN AUSTRALIA, 1956

Compiled by D. J. ROCHFORD and R. S. SPENCER

I. INTRODUCTION

This volume contains the results of analyses of coastal waters in eastern and south-western Australia during 1956.

F.R.V. *Derwent Hunter* had a major refit in 1956, and sampling in the south-west Tasman Sea did not commence until September.

II. METHODS AND UNITS

These have been given in a previous volume (C.S.I.R.O. Aust. (1957)).

III. PERSONNEL

The coastal and oceanic programme has been the responsibility of Mr. D. Rochford and Mr. R. S. Spencer. Messrs. N. Brown and D. Black participated in hydrological cruises 1 and 2 of F.R.V. *Derwent Hunter*. Cruises 3 and 4 were fishing cruises under the direction of Messrs. J. Robins and R. Cowper respectively.

The laboratory analyses have been supervised and carried out by Messrs. R. S. Spencer, A. Middleton, C. Walker, and the laboratory staff at Cronulla, Perth, and Hobart. Coastal sampling has been carried out by Messrs. J. Staniforth, K. Champion, R. Bradley, and O. Mieztis. Miss O. Jacobsen, Mrs. J. Heginbotham, Miss E. Mayman, and Mrs. S. Hay have been responsible for the processing of the data and the preparation of the typed sheets.

IV. REFERENCE

C.S.I.R.O. AUSTR. (1957).—Onshore and oceanic hydrological investigations in eastern and south-western Australia, 1955. *C.S.I.R.O. Aust. Oceanogr. Sta. List* 27: 1.

Station: EVAN'S HEAD

Latitude: 29°07'30" S.

Longitude: 153°38' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ %	pH	Total P	NO ₃ -N
1956 29.ii	0	24.20	16.78	20.07	4.74	92		24	
	10	24.10	17.65	21.28	4.63	91		15	
	20	24.20	18.90	22.96	4.64	92		14	
	30	24.20	19.11	23.24	4.61	92		19	
	40	24.20	19.10	23.23	4.66	93		18	
	50	24.20	19.49	23.77	4.69	94		56	
24.iii	0	25.30	18.21	21.68	4.83	97		8	
	10	25.40	18.87	22.55	4.78	97		11	
	20	22.60	19.54	24.30	4.63	90		11	
	30	20.10	19.56	25.01	4.10	77		16	
	40	18.80	19.58	25.38	3.93	72		18	
	50	18.70	19.58	25.40	3.96	73		21	
21.iv	0	23.90	19.39	23.71	4.83	96		17	
	10	23.80	19.39	23.74	4.85	96		15	
	20	23.50	19.44	23.90	4.83	96		16	
	30	21.10	19.61	24.81	4.13	79		22	
	40	19.90	19.61	25.13	3.88	73		22	
	50	19.90	19.61	25.13	3.80	71		31	
21.v	0	21.20	19.38	24.47	4.77	91		14	
	10	21.30	19.46	24.54	4.77	91		22	
	20	21.30	19.53	24.64	4.71	90		25	
	30	20.00	19.60	25.09	3.90	73		26	
	40	20.00	19.58	25.07	3.96	74		28	
	50	19.90	19.60	25.12	3.90	73		23	
22.vi	0	20.90	19.68	24.95	5.29	100		15	
	10	20.70	19.66	24.98	5.11	97		18	
	20	20.00	19.64	25.14	4.86	91		18	
	30	19.70	19.64	25.22	4.82	90		20	
	40	19.70	19.64	25.22	4.86	91		26	
	50	19.20	19.61	25.31	4.82	89		26	

Station: EVAN'S HEAD

Latitude: 29°07'30" S.

Longitude: 153°38' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	Total P	NO ₃ -N
1956 20.vii	0	18.50	19.69	25.60	5.14	94		16	
	10	18.50	19.69	25.60	5.01	92		17	
	20	18.50	19.69	25.60	5.20	95		14	
	30	18.40	19.69	25.63	5.20	95		16	
	40	18.40	19.67	25.60	5.14	94		17	
	50	18.30	19.68	25.63	5.14	94		16	
	2.i.x	0	19.30	19.63	25.31	4.74	88		12
10		19.00	19.64	25.40	4.74	87		11	
20		19.10	19.65	25.40	4.61	85		17	
30		19.20	19.65	25.37	4.56	84		15	
40		19.20	19.66	25.38	4.56	84		16	
50		19.20	19.66	25.38	4.56	84		15	
21.i.x		0	17.00	19.58	25.82	4.29	76		23
	10	16.90	19.59	25.86	4.23	75		23	
	20	16.80	19.59	25.88	4.23	75		23	
	30	16.80	19.59	25.88	4.23	75		20	
	40	16.70	19.59	25.90	4.16	74		23	
	50	16.30	19.57	25.97	4.10	72		22	
	19.x	0	18.30	19.58	25.51	5.45	99		24
10		17.70	19.59	25.66	5.24	94		24	
20		17.40	19.59	25.74	5.06	91		29	
30		17.30	19.59	25.76	4.67	84		27	
40		17.30	19.56	25.72	4.61	82		27	
50		17.20	19.56	25.75	4.73	84		27	
25.xi		0	22.00	19.59	24.54	5.11	99		13
	10	21.70	19.59	24.62	5.55	107		13	
	20	19.90	19.61	25.13	5.50	103		18	
	30	19.80	19.61	25.15	5.34	100		18	
	40	19.60	19.61	25.21	5.50	102		20	
	50	19.60	19.52	25.22	5.45	101		20	

Station: EVAN'S HEAD

Latitude: 29°07'30" S.

Longitude: 153°38' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	Total P	NO ₃ -N
1956									
14.xii	0	23.10	19.57	24.19	5.18	102		22	
	10	20.20	19.62	25.06	4.20	79		30	
	20	20.20	19.62	25.06	4.20	79		32	
	30	20.10	19.60	25.06	4.14	78		26	
	40	20.10	19.62	25.08	4.20	79		30	
	50	20.00	19.62	25.11	4.14	78		28	

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	Total P	NO ₃ -N
1956 2.iii	0	25.00	17.43	20.72	4.90	97		17	
	10	24.80	17.82	21.31	4.72	94		13	
	20	24.80	18.60	22.37	4.54	91		14	
	30	25.80	19.28	22.99	4.62	95		10	
	40	25.60	19.34	23.13	4.57	94		13	
	50	22.70	19.41	24.09	4.09	80		22	
22.iii	0	25.20	19.04	22.85	4.79	97		10	
	10	24.90	19.11	23.03	4.84	98		11	
	20	24.60	19.24	23.30	4.86	98		11	
	30	19.60	19.54	25.11	3.97	74		19	
	40	18.90	19.57	25.33	3.68	68		23	
	50	18.80	19.61	25.41	3.77	69		25	
19.iv	0	25.30	19.49	23.43	4.68	96		17	
	10	25.20	19.49	23.46	4.68	96		16	
	20	24.70	19.56	23.71	4.68	95		18	
	30	23.20	19.60	24.20	4.44	87		20	
	40	20.40	19.65	25.06	3.81	72		30	
	50	18.60	19.65	25.52	3.66	67		24	
22.v	0	22.60	19.48	24.21	4.99	97		17	
	10	22.50	19.45	24.21	4.95	96		22	
	20	22.40	19.45	24.23	4.87	95		25	
	30	22.20	19.45	24.29	4.82	93		18	
	40	22.20	19.45	24.29	4.82	93		18	
	50	22.20	19.48	24.32	4.90	95		14	
19.vi	0	20.00	19.61	25.10	4.86	91		20	
	10	20.00	19.61	25.10	4.86	91		12	
	20	19.90	19.61	25.13	4.76	89		17	
	30	19.90	19.61	25.13	4.76	89		16	
	40	19.80	19.61	25.15	4.76	89		22	
	50	19.80	19.62	25.16	4.76	89		17	

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	Total P	NO ₃ -N
1956 18.vii	0	18.00	19.69	25.73	5.32	97		17	
	10	18.00	19.69	25.73	5.26	95		16	
	20	17.90	19.69	25.75	5.14	93		17	
	30	17.90	19.69	25.75	5.26	95		17	
	40	17.90	19.68	25.73	5.26	95		17	
	50	17.90	19.68	25.73	5.20	94		27	
3.ix	0	21.10	19.66	24.88	5.06	96		13	
	10	21.00	19.66	24.90	5.17	98		15	
	20	18.20	19.66	25.63	5.06	92		13	
	30	18.10	19.65	25.65	5.17	94		16	
	40	18.00	19.65	25.67	5.12	93		16	
	50	17.80	19.65	25.72	5.06	92		16	
20.ix	0	18.00	19.61	25.61	4.62	84		24	
	10	18.00	19.61	25.61	4.62	84		16	
	20	18.00	19.60	25.61	4.56	83		22	
	30	17.90	19.60	25.63	4.29	78		22	
	40	17.80	19.61	25.66	4.29	77		22	
	50	17.80	19.60	25.65	4.23	76		22	
22.x	0	18.80	19.64	25.45	5.70	105		16	
	10	18.50	19.62	25.50	5.93	106		20	
	20	18.20	19.63	25.59	6.19	113		20	
	30	18.00	19.61	25.61	7.00	127		16	
	40	17.00	19.60	25.85	4.49	80		27	
	50	16.60	19.59	25.93	4.03	71		29	
27.xi	0	21.70	19.60	24.63	5.26	101		12	
	10	21.60	19.60	24.66	5.40	104		10	
	20	21.30	19.60	24.74	5.11	98		13	
	30	20.60	19.60	24.93	5.01	95		13	
	40	19.70	19.60	25.17	4.86	91		16	
	50	19.10	19.60	25.33	4.71	87		17	

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	Total P	NO ₃ -N
1956									
13.xii	0	23.90	19.57	23.96	5.12	102		15	
	10	23.70	19.59	24.05	5.07	101		13	
	20	22.30	19.59	24.45	5.02	97		19	
	30	21.60	19.59	24.65	4.83	93		25	
	40	19.80	19.62	25.16	3.95	74		28	
	50	19.60	19.62	25.22	3.89	72		32	

Station: PORT MACQUARIE

Latitude: 30°56' S.

Longitude: 150°10' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ %	pH	Total P	NO ₃ -N
1956 7.iii	0	26.50	18.58	21.81	4.78	99		10	
	10	26.40	19.31	22.84	4.67	97		9	
	20	24.30	19.39	23.59	4.57	92		12	
	30	19.70	19.47	24.99	4.33	81		16	
	40	17.20	19.51	25.67	4.03	72		24	
	50	17.00	19.53	25.74	4.13	73		19	
21.iii	0	25.80	19.44	23.21	4.39	91		10	
	10	25.40	19.43	23.32	4.07	83		10	
	20	23.80	19.43	23.80	4.37	87		12	
	30	21.90	19.47	24.40	4.50	87		14	
	40	17.80	19.52	25.54	4.70	85		22	
27.iv	0	22.40	19.54	24.35	4.64	90		18	
	10	22.40	19.52	24.33	4.64	91		18	
	20	21.60	19.59	24.65	4.38	84		16	
	30	19.10	19.66	25.41	3.85	71		39	
	40	18.90	19.66	25.46	3.94	73		21	
	50	18.90	19.66	25.46	3.91	72		26	
23.v	0	23.30	19.53	24.07	4.82	95		28	
	10	23.30	19.53	24.07	4.87	96		18	
	20	23.30	19.53	24.07	4.64	92		18	
	30	23.00	19.53	24.16	4.77	94		15	
	40	22.30	19.56	24.41	4.64	90		20	
	50	22.00	19.53	24.39	4.71	91		18	
19.vi	0	20.30	19.64	25.06	4.82	91		14	
	10	20.10	19.62	25.09	4.82	90		18	
	20	20.00	19.62	25.11	4.71	88		17	
	30	20.00	19.62	25.11	4.71	88		17	
	40	19.70	19.60	25.17	4.71	88		18	
	50	19.70	19.59	25.16	4.71	88		17	

Station: PORT MACQUARIE

Latitude: 30°56' S.

Longitude: 150°10' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	Total P	NO ₃ -N
1956 17.vii	0	18.70	19.70	25.56	5.26	97		13	
	10	18.70	19.70	25.56	5.26	97		14	
	20	18.70	19.70	25.56	5.26	97		14	
	30	18.70	19.69	25.55	5.32	98		14	
	40	18.70	19.67	25.52	5.20	95		13	
	50	18.70	19.69	25.55	5.20	95		13	
4.ix	0	16.40	19.65	26.06	5.37	95		20	
	10	16.40	19.65	26.06	5.45	96		15	
	20	16.40	19.65	26.06	5.45	96		17	
	30	16.40	19.65	26.06	5.45	96		17	
	40	16.40	19.66	26.07	5.45	96		16	
	50	16.40	19.66	26.07	5.45	96		16	
19.ix	0	18.00	19.59	25.59	5.02	91		15	
	10	17.90	19.59	25.61	5.02	91		15	
	20	17.80	19.59	25.64	4.79	87		18	
	30	17.40	19.57	25.71	4.35	78		24	
	40	16.90	19.58	25.85	4.29	76		24	
	50	15.00	19.49	26.16	4.44	76		27	
17.x	0	20.10	19.64	25.12	5.37	101		17	
	10	19.60	19.61	25.21	5.50	102		13	
	20	18.60	19.60	25.45	5.06	93		15	
	30	17.50	19.60	25.73	4.61	83		20	
	40	16.90	19.59	25.86	4.56	81		20	
	50	16.20	19.60	26.02	4.56	80		20	
21.xi	0	21.00	19.60	24.82	5.50	105		13	
	10	21.00	19.60	24.82	5.50	105		10	
	20	20.90	19.60	24.85	5.50	104		10	
	30	20.90	19.60	24.85	5.40	102		10	
	40	20.70	19.60	24.90	5.50	104		10	
	50	18.80	19.60	25.40	5.50	101		10	

Station: PORT MACQUARIE

Latitude: 30°56' S.

Longitude: 150°10' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ %	pH	Total P	NO ₃ -N
1956 12.xii	0	24.30	19.52	23.78	5.02	101		16	
	10	23.50	19.53	24.02	5.18	103		16	
	20	20.80	19.55	24.81	4.83	91		27	
	30	19.50	19.60	25.22	4.49	83		22	
	40	18.80	19.61	25.41	4.01	74		25	
	50	18.50	19.60	25.48	4.01	73		25	

Station: PORT STEPHENS

Latitude: 32°43' S.

Longitude: 152°18' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ %	pH	Total P	NO ₃ -N
1956 2.ii	0	21.60	19.53	24.56	5.69	109	8.18	9	
	10	20.80	19.54	24.80	5.76	109	8.20	13	
	20	20.50	19.54	24.88	5.47	103	8.19	16	
	30	20.30	19.58	24.99	5.58	105	8.19		
	40	20.10	19.58	25.04	5.67	106	8.22	18	
	50	19.80	19.58	25.12	5.67	106	8.22	13	
23.ii	0	23.70	16.73	20.14	4.94	95		22	
	10	23.00	18.33	22.53	4.93	95		16	
	20	22.20	19.27	24.04	4.87	94		9	
	30	18.20	19.54	25.47	4.41	80		20	
	40	16.50	19.55	25.89	4.32	76		20	
	50	16.30	19.54	25.93	4.22	74		28	
19.iii	0	22.20	16.67	20.49	5.10	96		6	
	10	22.40	18.44	22.85	4.78	92		6	
	20	22.40	18.95	23.55	4.65	90		15	
	30	21.80	19.10	23.92	4.53	87		13	
	40	20.40	19.39	24.69	4.24	80		14	
	50	19.10	19.45	25.12	3.93	73		19	
16.iv	0	23.30	19.48	24.01	4.81	95		12	
	10	23.20	19.45	24.00	4.92	97		16	
	20	19.70	19.64	25.22	3.76	70		29	
	30	18.80	19.64	25.45	3.79	70		31	
	40	18.30	19.64	25.58	3.87	70		30	
	50	17.90	19.64	25.68	3.84	70		23	
24.v	0	20.00	19.50	24.95	5.05	94		23	
	10	20.00	19.48	24.92	4.99	93		16	
	20	20.10	19.48	24.90	5.29	99		26	
	30	20.20	19.50	24.90	5.05	95		30	
	40	20.50	19.53	24.86	4.90	92		24	
	50	20.00	19.53	24.99	5.05	94		35	

Station: PORT STEPHENS

Latitude: 32°43' S.

Longitude: 152°18' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	Total P	NO ₃ -N
1956 27.vi	0	17.00	18.72	24.63	5.35	94		20	
	10	18.40	19.49	25.36	5.00	91		18	
	20	18.50	19.54	25.40	4.95	90		14	
	30	18.30	19.51	25.40	5.12	93		20	
	40	18.10	19.53	25.48	5.05	92		20	
	50	18.00	19.55	25.53	4.91	89		20	
27.vii	0	16.60	19.51	25.81	5.60	99		16	
	10	16.60	19.50	25.80	5.47	96		16	
	20	16.80	19.55	25.82	5.35	95		16	
	30	17.30	19.66	25.85	5.32	95		13	
	40	17.20	19.65	25.87	5.35	96		14	
	50	17.00	19.66	25.93	5.32	95		17	
7.ix	0	16.90	19.69	25.99	5.60	100		12	
	10	16.80	19.69	26.02	5.50	98		13	
	20	16.80	19.69	26.02	5.50	98		10	
	30	16.70	19.68	26.02	5.45	96		15	
	40	16.40	19.67	26.08	5.12	90		15	
	50	16.10	19.68	26.16	5.31	93		16	
17.ix	0	17.50			6.07				
	10	17.40	19.61	25.76	6.01	108		12	
	20	16.90	19.59	25.86	6.18	110		11	
	30	16.20	19.58	26.01	6.13	108		14	
	40	16.00			5.77				
	50	15.90	19.60	26.10	5.55	97		15	
16.x	0	18.20	19.64	25.60	5.70	104		11	
	10	18.00	19.63	25.64	5.76	104		11	
	20	17.40	19.61	25.76	5.87	105		14	
	30	17.00	19.62	25.87	5.87	104		16	
	40	16.50	19.60	25.96	5.55	98		18	
	50	15.50	19.66	26.27	5.05	88		24	

Station: PORT STEPHENS

Latitude: 32°43' S.

Longitude: 152°18' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ %	pH	Total P	NO ₃ -N
1956 29.xi	0	20.00	19.64	25.14	5.26	99		13	
	10	19.80	19.63	25.18	5.26	98		11	
	20	18.80	19.63	25.44	5.19	95		14	
	30	18.50	19.62	25.50	5.26	96		8	
	40	18.10	19.62	25.60	4.96	90		12	
	50	17.80	19.62	25.67	4.87	88		14	
20.xii	0	21.60	19.61	24.67	5.12	98		15	
	10	20.10	19.62	25.08	5.12	96		19	
	20	19.60	19.62	25.22	5.12	95		19	
	30	16.90	19.58	25.85	4.20	74		34	
	40	16.00	19.57	26.04	3.79	66		39	
	50	15.50	19.55	26.12	3.66	63		52	

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
1956 4.i	0	21.40	19.55	24.64	5.36	103	8.18	6-10-0	
	10	18.10	19.53	25.48	5.30	96	8.18	13-10-0	
	20	16.90	19.58	25.85	5.07	90	8.15	16-10-0	
	30	14.90	19.58	26.30	4.78	82	8.13	22-7-0	
	40	14.80	19.58	26.33	4.72	81	8.11	23-8-0	
	50	14.70	19.59	26.36	4.61	79	8.10	27-11-0	
	10.i	0	18.10	19.54	25.50	5.36	97	8.16	12-6-5
10		17.20	19.62	25.82	4.66	83	8.16	19-0-0	20
20		17.00	19.62	25.87	5.66	101	8.15	19-3-1	35
30		17.20	19.64	25.85	5.06	90	8.15	19-9	30
40		17.20	19.64	25.85	4.66	83	8.15	18-4	35
50		17.20	19.65	25.87	5.06	90	8.15	20-0-2	20
16.i	0	22.50	19.63	24.45	5.34	104	8.19	5-8-7	0
	10	20.40	19.63	25.03	5.50	104	8.18	5-3-4	0
	20	19.40	19.62	25.27	5.52	102	8.18	5-9-1	0
	30	18.30	19.63	25.57	5.27	96	8.19	8-18-0	0
	40	17.10	19.67	25.92	4.64	83	8.18	15-8-2	0
	50	16.50	19.67	26.06	4.52	80	8.19	19-3-3	10
31.i	0	21.80	19.57	24.56	5.08	98	8.22	6-12-0	5
	10	21.80	19.61	24.61	5.03	97	8.22	4-8-2	10
	20	21.80	19.61	24.61	5.08	98	8.23	3-10-0	10
	30	21.80	19.63	24.64	5.05	97	8.24	4-11-4	10
	40	21.50	19.61	24.70	4.96	95	8.24	4-10-3	10
	50	19.60	19.62	25.22	5.27	98	8.25	6-9-0	10
8.ii	0	22.20	19.54	24.41	5.40	105	8.17	4-7-10	5
	10	21.80	19.62	24.62	5.47	105	8.17	4-6-4	5
	20	21.70	19.61	24.64	5.53	106	8.15	5-3-8	5
	30	19.70	19.61	25.18	5.04	94	8.12	11-2-9	15
	40	17.70	19.58	25.65	4.83	87	8.11	14-0-14	30
	50	16.30	19.57	25.97	4.35	76	8.09	23-2-21	85

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
1956									
13.ii	0	23.80	18.16	22.06	5.52	108	8.22	7-19-0	20
	10	23.80	19.48	23.86	5.36	107	8.25	4-10	10
	20	23.70	19.48	23.89	5.10	101	8.25	3-7-0	5
	30	22.60	19.41	24.12	5.33	104	8.25	6-8	10
	40	21.90	19.38	24.28	5.52	106	8.23	3-11-0	10
	50	20.90	19.40	24.57	5.38	102	8.23	5-13-0	15
21.ii	0	23.40			5.61		8.19	4-11-0	10
	10	22.60			5.58		8.20	2-23-0	10
	20	23.00			5.27		8.21	4-9-0	20
	30	22.50			5.15		8.18	4-17-0	10
	40	22.00			5.33		8.15	7-13-0	10
	50	17.70			4.47		8.13	18-9-0	60
5.iii	0	23.60	18.64	22.78	5.07	100	8.12	7-10-2	35
	10	23.40	19.51	24.02	5.44	108	8.14	3-11-0	15
	20	23.20	19.53	24.10	4.78	94	8.13	4-8-4	15
	30	18.20	19.54	25.47	3.98	72	8.09	17-8-0	120
	40	15.70	19.54	26.07	3.92	68	8.11	22-8-5	120
	50	14.60	19.50	26.25	4.04	69	8.11	24-5-1	140
13.iii	0	22.80	18.56	22.90	4.91	95	8.19	7-7-0	0
	10	22.10	19.16	23.92	5.05	97	8.19	6-4-4	0
	20	21.00	19.41	24.56	4.53	86	8.15	9-7-2	15
	30	18.00	19.48	25.44	4.21	76	8.12	15-1-4	35
	40	16.60	19.48	25.79	3.96	70	8.11	20-0-3	60
	50	15.90	19.51	25.97	3.90	68	8.12	22-1-3	55
22.iii	0	22.50	18.73	23.21	4.91	95	8.19	5-0-0	65
	10	21.90	19.18	24.00	4.43	85	8.18	2-4-0	15
	20	21.30	19.33	24.37	4.41	84	8.16	12-0-2	45
	30	19.80	19.56	25.09	4.02	75	8.07	18-0-0	90
	40	16.40	19.51	25.86	3.83	67	8.09	19-17-0	85
	50	15.40	19.50	26.08	3.97	69	8.08	23-8-0	60

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
1956 27.iii	0	22.80	18.59	22.94	5.08	98	8.24	12-0-0	10
	10	21.30	19.17	24.15	4.46	85	8.21	8-18- 15	50
	20	20.70	19.24	24.41	4.37	82	8.18	11-14- 0	30
	30	18.70	19.50	25.29	4.12	75	8.15	15-10- 0	60
	40	15.20	19.50	26.12	3.74	64	8.13	25-0-0	80
	50	14.40	19.46	26.24	4.10	70	8.12	25-0-0	90
4.iv	0	22.40	19.12	23.78	5.24	102	8.11	4-16- 10	5
	10	22.10	19.29	24.09	5.24	101	8.09	4-26-0	5
	20	22.20	19.33	24.12	5.02	97	8.04	6-14-5	10
	30	18.10	19.44	25.36	4.56	83	8.00	15-8-0	80
	40	17.80	19.48	25.48	4.12	74	8.00	15-13- 6	140
	50	16.20	19.42	25.78	4.00	70	8.07	21-12- 0	150
9.iv	0	22.20	18.99	23.65	5.20	100	8.10	2-16- 28	5
	10	21.00	19.19	24.26	4.95	94	8.09	4-18-0	5
	20	20.70	19.24	24.41	5.39	102	8.08	5-22-0	10
	30	18.70	19.37	25.11	4.42	81	7.98	13-16- 0	30
	40	15.70	19.47	25.97	4.27	74	7.99	22-11- 0	80
	50	14.80	19.49	26.20	4.15	71	7.94	26-8-7	80
18.iv	0	20.70	19.30	24.49	4.87	92	8.07	5-23-0	20
	10	19.20	19.40	25.02	4.77	88	8.10	11-21- 0	60
	20	18.50	19.42	25.23	4.65	85	8.10	9-29-0	85
	30	17.40	19.55	25.68	4.29	77	8.07	13-18- 0	120

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
1956 18.iv	40	16.90	19.55	25.80	3.99	71	8.07	17-13-4	100
	50	16.30	19.52	25.90	4.02	71	8.06	27-5-0	120
17.v	0	19.80	19.55	25.07	5.00	93	8.13	11-10-2	0
	10	19.70	19.57	25.13	5.05	94	8.13	10-10-0	5
	20	19.60	19.57	25.15	4.87	91	8.13	10-14-0	5
	30	19.70	19.57	25.13	4.91	91	8.11	6-14-0	0
	40	19.70	19.59	25.16	4.18	78	8.08	12-5-4	5
	50	19.10	19.59	25.31	4.47	82	8.11	14-4-0	5
	23.v	0	20.00	19.59	25.08	5.12	96	8.02	9-20-19
10		19.90	19.59	25.11	5.00	93	8.02	10-24	0
20		19.90	19.58	25.10	5.05	93	8.02	12-26	65
30		19.90	19.58	25.10	5.00	93	8.02	11-32-0	0
40		19.90	19.58	25.10	4.82	90	8.02	7-37-0	0
50		19.80	19.62	25.16	4.77	89	7.99	7-20-31	0
31.v		0	18.50	19.59	25.47	4.90	90	8.10	14-17-0
	10	18.50	19.60	25.48	4.53	83	8.10	15-6-7	0
	20	18.60	19.59	25.44	4.71	86	8.08	14-5-3	0
	30	18.50	19.60	25.48	4.95	90	8.10	13-11-6	0
	40	18.50	19.60	25.48	5.05	92	8.09	15-12-0	0
	50	18.50	19.59	25.47	4.82	88	8.09	13-11-2	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
1956 6.vi	0	19.40	19.59	25.24	4.86	90	8.27	9-0-9	5
	10	19.50	19.59	25.21	4.86	90	8.27	10-0-7	10
	20	19.50	19.59	25.21	4.81	89	8.27	10-5	0
	30	19.40	19.59	25.24	4.81	89	8.27	11-2-5	5
	40	19.40	19.59	25.24			8.27	12-0-0	0
	50	19.40	19.59	25.24	4.38	81	8.27	13-2-0	0
13.vi	0	18.20	19.62	25.57	5.06	92	8.18	12-1-4	10
	10	18.20	19.62	25.57	5.10	93	8.18	12-3-2	10
	20	18.20	19.62	25.57	5.06	92	8.18	13-2-0	10
	30	18.20	19.61	25.56	5.06	92	8.18	12-3-2	5
	40	18.20	19.61	25.56	4.92	89	8.18	12-1-4	10
	50	18.10	19.61	25.59	4.97	90	8.18	12-4-1	10
20.vi	0	18.00	19.62	25.62	3.20	58	8.26	10-5-1	25
	10	18.00	19.61	25.61	5.00	91	8.25	10-6-2	15
	20	18.00	19.61	25.61	4.82	87	8.25	9-7-0	10
	30	17.90	19.62	25.65	4.46	81	8.25	9-18-0	10
	40	17.80	19.61	25.66	4.71	85	8.25	9-21-5	5
	50	17.70	19.61	25.69	3.64	66	8.24	9-26-0	0
27.vi	0	16.90	19.23	25.36	5.39	95	8.24	11-3-1	35
	10	17.20	19.46	25.60	5.05	90	8.20	11-5-0	15
	20	17.40	19.52	25.64	4.59	82	8.20	11-7-4	15
	30	17.60	19.59	25.69	4.53	81	8.20	11-7-0	25
	40	17.60			4.65		8.19	11-5-0	30
	50	17.60	19.59	25.69	4.65	83	8.19	12-4-0	35
3.vii	0	17.10	19.64	25.87	5.05	90	8.13	10-7-5	20
	10	17.10	19.63	25.86	5.05	90	8.13	11-7-4	20
	20	17.00	19.62	25.87	5.05	90	8.15	11-7-4	30
	30	17.00	19.61	25.86	5.00	89	8.14	11-11-0	25
	40	17.00	19.62	25.87	5.12	91	8.14	11-11-0	30
	50	17.10	19.62	25.84	5.05	90	8.14	12-10-0	35

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
1956									
16.vii	0	16.10	19.57	26.01	4.96	87	8.04	12-1-2	35
	10	16.10	19.57	26.01	4.56	80	8.05	11-4-0	45
	20	16.20	19.57	25.99	4.96	87	8.04	12-3-0	35
	30	16.10	19.57	26.01	4.86	85	8.04	11-4-0	35
	40	16.30	19.57	25.97	4.22	74	8.03	12-0-4	55
	50	16.20	19.57	25.99	4.68	82	8.04	12-3-0	50
23.vii	0	16.80	19.60	25.89	5.32	94	8.16	15-0-0	0
	10	16.80	19.59	25.88	5.12	91	8.18	15-0-0	0
	20	16.60	19.58	25.92	5.12	90	8.18	16-1-0	0
	30	16.40	19.58	25.96	5.17	91	8.19	15-2-0	0
	40	16.40	19.58	25.96	5.38	95	8.18	17-0-0	0
	50	16.20	19.55	25.96	5.17	91	8.17	18-4-0	45
6.viii	0	16.50	19.59	25.95	5.35	94	8.17	9-7-0	0
	10	16.40	19.59	25.97	5.35	94	8.19	8-10-0	0
	20	16.40	19.59	25.97	5.41	95	8.16	11-5-2	0
	30	16.40	19.59	25.97	5.35	94	8.16	12-4-2	0
	40	16.40	19.59	25.97	5.35	94	8.16	8-8-2	0
	50	16.40	19.59	25.97	5.35	94	8.13	8-10-0	0
13.viii	0	16.10	19.62	26.08	5.47	96	8.16	11-3-7	0
	10	16.10	19.62	26.08	5.47	96	8.16	11-5-0	0
	20	16.00	19.62	26.10	5.55	97	8.16	11-5-0	0
	30	16.00	19.62	26.10	5.47	96	8.16	11-3-3	0
	40	16.10	19.62	26.08	5.47	96	8.16	11-6-	0
								11	
	50	16.00	19.62	26.10	5.41	95	8.16	11-0-5	5
21.viii	0	15.80	19.62	26.15	5.24	91	8.13	11-8-0	
	10	15.70	19.61	26.16	5.16	90	8.11	13-4-0	
	20	15.60	19.61	26.18	5.06	88	8.11	13-6-0	
	30	15.60	19.59	26.16	5.24	91	8.11	13-6-0	
	40	15.50	19.60	26.19	5.16	89	8.11	13-8-0	
	50	15.50	19.60	26.19	5.11	89	8.11	16-5-0	

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
1956 27.viii	0	15.70	19.63	26.19	5.50	96	8.32	10-0-7	30
	10	16.00	19.63	26.12	5.45	95	8.28	10-3-4	30
	20	15.80	19.63	26.17	5.45	95	8.27	13-0-6	45
	30	15.80	19.62	26.15	5.55	97	8.23	13-0-2	30
	40	15.60	19.58	26.15	5.12	89	8.21	12-1-7	40
	50	15.00	19.58	26.28	5.16	89	8.22	11-8-0	45
10.ix	0	16.00	19.63	26.12	5.50	96	8.07	9-3-4	20
	10	16.20	19.62	26.10	5.45	96	8.09	10-7-3	15
	20	15.60	19.62	26.19	5.45	95	8.06	10-7-1	20
	30	15.60	19.60	26.17	5.37	93	8.03	10-10-0	30
	40	15.00	19.58	26.17	5.17	89	8.03	10-8-5	50
	50	15.10	19.53	26.18	4.94	85	8.00	17-8-4	100
17.ix	0	16.20	19.56	25.98	6.36	112	8.30	4-12-0	5
	10	16.20	19.58	26.01	6.33	111	8.28	4-11-0	5
	20	16.20	19.61	26.04	5.70	100	8.27	5-8-2	5
	30	16.10	19.62	26.08	5.82	102	8.27	5-8-4	5
	40	15.60	19.57	26.13	5.17	90	8.23	12-9-2	25
	50	15.00	19.53	26.20	5.02	86	8.19	12-10-1	40
25.ix	0	16.50	19.62	25.98	5.77	102	8.26	7-4-0	0
	10	16.40	19.62	26.01	5.70	100	8.23	8-8-0	0
	20	16.20	19.61	26.04	5.77	101	8.22	16 *	
	30	16.40	19.62	26.01	5.77	102	8.22	8-9-1	5
	40	16.10			5.70		8.22		
	50	15.80	19.57	26.08	5.38	94	8.19	12-3-0	15
2.x	0	16.40	19.63	26.03	5.50	97	8.26	8-9-1	10
	10	16.20	19.63	26.07	5.45	96	8.31	10-7-1	15
	20	16.20	19.62	26.05	5.50	96	8.32	8-9-3	10
	30	16.20	19.62	26.05	5.55	97	8.23	8-9-1	20
	40	16.20	19.62	26.05	5.50	96	8.24	8-9-0	15
	50	15.90	19.61	26.11	5.50	96	8.19	9-10-2	20
									* Total P.

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
1956 9.x	0	18.10	19.62	25.60	5.37	98	8.16	8-5-0	10
	10	17.70	19.63	25.72	5.37	97	8.16	8-5-0	5
	20	17.20	19.61	25.81	5.55	99	8.17	8-7-0	10
	30	16.30	19.56	25.96	5.50	97	8.17	9-4-0	10
	40	16.00	19.56	26.03	5.60	98	8.17	10-3-4	15
	50	15.90	19.55	26.03	5.55	97	8.17	11-2-0	10
17.x	0	16.90	19.57	25.83	5.70	101	8.23	5-12-0	5
	10	16.60	19.56	25.89	5.55	98	8.24	7-13-0	5
	20	16.00	19.57	26.04	5.45	95	8.20	9-8-0	20
	30	15.30	19.55	26.17	5.12	88	8.18	13-8-0	50
	40	14.30	19.52	26.35	4.67	79	8.14	19-9-0	80
	50	13.90	19.50	26.40	4.40	74	8.11	24-8-0	130
23.x	0	16.70	19.57	25.87	5.76	102	8.04	12-8-0	0
	10	16.50	19.56	25.91	5.88	104	8.04	15-6-0	30
	20	16.40	19.55	25.91	5.82	102	8.04	14-0-0	0
	30	16.00	19.57	26.04	5.76	101	8.05	17-3-1	55
	40	15.40	19.56	26.16	5.11	88	8.05	22-0-3	40
	50	15.00	19.55	26.14	4.96	85	8.05	28-0-2	30
30.x	0	18.30	19.64	25.58	5.55	101	8.21	7-13-0	0
	10	18.20	19.64	25.60	5.55	101	8.21	7-10-0	0
	20	17.90	19.60	25.63	5.65	102	8.20	7-10-3	0
	30	17.40	19.59	25.74	5.37	96	8.17	8-11-4	5
	40	16.70	19.59	25.90	5.02	89	8.18	12-8-3	20
	50	16.30	19.59	26.00	4.73	83	8.18	13-9-5	30
7.xi	0	18.20	19.69	25.68	5.52	101	8.37	3-10-0	10
	10	17.90	19.66	25.71	5.62	102	8.36	5-8-4	0
	20	17.40	19.64	25.80	5.52	99	8.33	5-8-4	0
	30	17.10	19.63	25.86	5.43	97	8.34	5-14-0	5
	40	17.10	19.62	25.84	5.52	98	8.34	5-10-2	0
	50	17.00	19.62	25.87	5.57	99	8.34	6-9-0	5

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
1956 12.xi	0	18.70	19.66	25.51	5.54	102	8.15	7-13-0	0
	10	18.10	19.65	25.65	5.54	101	8.14	7-13-0	15
	20	17.80	19.64	25.70	5.26	95	8.13	9-14-0	45
	30	16.80	19.63	25.93	4.81	85	8.13	13-14-0	30
	40	15.80	19.57	26.08	4.40	77	8.09	16-16-0	45
	50	14.80	19.56	26.30	4.40	75	8.05	20-10-3	95
19.xi	0	18.00	19.59	25.59	4.91	89	8.29	10 *	0
	10	17.70	19.59	25.66	4.61	83	8.25	3-8-4	0
	20	17.30	19.59	25.76	5.47	98	8.25	7-4-0	0
	30	17.00	19.59	25.83	5.44	97	8.25	12-1-4	0
	40	16.20	19.56	25.98	4.82	85	8.20	13-10-0	35
	50	15.60	19.53	26.07	4.54	79	8.21	15-10-0	55
26.xi	0	19.40	19.63	25.29	5.19	96	8.14	6-1-2	0
	10	19.50	19.64	25.27	4.81	89	8.18	7-3-3	0
	20	19.00	19.61	25.36	4.81	89	8.19	10-7-0	0
	30	17.20	19.56	25.75	4.20	75	8.14	16-0-0	20
	40	16.10	19.56	26.00	4.26	75	8.06	16-0-0	50
	50	15.80	19.54	26.04	3.78	66	8.12	21-0-6	55
3.xii	0	19.40	19.61	25.26	5.11	95	8.22	6-17-0	5
	10	19.00	19.61	25.36	4.46	82	8.21	6-10-0	15
	20	18.20	19.61	25.56	4.96	90	8.20	7-12-8	25
	30	17.20	19.60	25.80	4.96	89	8.21	8-10-1	30
	40	16.60	19.59	25.93	4.86	86	8.18	12-9-0	40
	50	16.60	19.58	25.92	4.86	86	8.17	12-13-2	55

* Total P.

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
1956 10.xii	0	20.10	19.64	25.12	5.40	101	8.10	7-9-0	5
	10	19.20	19.64	25.35	4.86	90	8.11	8-8-6	10
	20	15.90	19.60	26.10	4.31	75	8.06	16-5-0	55
	30	15.20	19.58	26.24	4.20	72	8.06	17-10-0	70
	40	14.90	19.56	26.27	4.81	83	8.07	18-8-1	85
	50	14.70	19.54	26.29	4.51	77	8.13	19-9-0	110.
19.xii	0	21.50	19.64	24.74	5.30	102	7.98	3-15-12	0
	10	21.00	19.64	24.87	5.18	98	7.99	3-17-1	0
	20	17.90	19.64	25.68	5.30	96	8.01	7-17-0	0
	30	15.50	19.57	26.15	4.44	77	7.99	19-9-12	75
	40	15.30	19.54	26.16	4.44	77	8.05	21-15-0	90
	50	15.00	19.55	26.23	4.44	76	7.99	18-18-0	85

Station: PORT HACKING

Latitude: 34°05'30" 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
1956 4.i	0	21.70	19.59	24.62	5.71	110	8.25	5-8-0	
	10	21.70	19.60	24.63	5.74	110	8.25	2-15-0	
	20	20.30	19.62	25.03	6.00	113	8.25	3-14-5	
	30	17.20	19.60	25.80	5.50	98	8.18	13-10	
	40	14.60	19.55	26.32	4.44	76	8.16	23-18-5	
	50	14.60	19.55	26.32	4.54	77	8.13	22-13-0	
	75	14.60	19.55	26.32	4.38	75	8.13	24-7-3	
	100	14.60	19.55	26.32	5.12	87	8.11	24-7-0	
10.i	0	20.90	19.51	24.72	6.06	115	8.18	5-7-5	10
	10	20.90	19.62	24.87	5.87	111	8.14	6-8-1	0
	20	19.60	19.69	25.32	5.36	100	8.16	9-3-3	5
	30	19.20	19.70	25.43	5.73	106	8.16	10-4-0	0
	40	19.00	19.70	25.49	5.82	107	8.17	12-2-2	0
	50	18.40	19.68	25.61	5.66	103	8.15	11-6-0	5
	75	17.90	19.70	25.76	5.87	106	8.16	13-0-2	0
	100	17.70	19.67	25.77	5.60	101	8.14	14-4-0	0
16.i	0	22.60	19.70	24.51	5.11	100	8.22	5-7	45
	10	22.20	19.70	24.72	5.11	99	8.22	4-9	0
	20	20.30	19.65	25.08	5.50	103	8.20	5-7-1	0
	30	19.40	19.63	25.29	5.45	101	8.21	6-4-2	0
	40	19.00	19.63	25.39	5.32	98	8.20	6-5-2	0
	50	18.20	19.60	25.55	5.50	100	8.19	5-7-0	0
	75	16.30	19.60	26.01	4.96	87	8.18	11-7-2	0
	100	14.60	19.58	26.37	4.41	75	8.18	18-6-0	25
31.i	0	21.80	19.64	24.65	5.15	99	8.21	3-7-2	5
	10	21.80	19.64	24.65	5.08	98	8.20	3-6-3	10
	20	21.80	19.64	24.65	5.05	97	8.22	3-10-2	10
	30	21.30	19.64	24.79	5.05	97	8.21	4-6-0	10
	40	20.10	19.63	25.10	5.08	95	8.22	6-4-3	15
	50	18.70	19.63	25.47	5.03	92	8.22	7-6-2	15
	75	17.80	19.63	25.69	4.52	82	8.17	14-7-0	60
	100	15.60	19.59	26.16	4.41	77	8.14	17-11-0	90

Station: PORT HACKING

Latitude: 34°05'30" 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
1956 8.ii	0	22.20	19.54	24.41	5.33	103	8.17	3-10-3	0
	10	21.90	19.61	24.58	5.47	106	8.18	4-6-0	0
	20	21.60	19.61	24.67	5.56	107	8.17	4-5-7	0
	30	20.00	19.61	25.10	5.56	104	8.15	6-8-0	5
	40	19.20	19.61	25.31	5.58	103	8.12	9-8-5	25
	50	17.20	19.61	25.81	4.19	75	8.09	20-7-0	75
	75	15.00	19.54	26.22	4.71	81	8.11	24-5-1	140
	100	13.10	19.45	26.50	4.81	80	8.14	27-8-3	140
13.ii	0	24.00	19.49	23.82	5.13	102	8.24	4-9-1	5
	10	23.80	19.49	23.88	5.00	100	8.23	4-12	5
	20	23.80	19.49	23.88	4.87	97	8.22	3-12-0	10
	30	22.30	19.46	24.27	5.00	97	8.22	5-10-1	10
	40	22.00	19.44	24.33	4.76	92	8.20	5-6-4	25
	50	18.60	19.61	25.46	4.76	87	8.19	5-9-4	50
	75	15.40	19.55	26.14	4.15	72	8.17	12-17- 0	120
	100	14.20	19.48	26.31	4.47	76	8.18	16-13- 2	120
21.ii	0	24.20			5.46		8.19	18 *	
	10	23.70			4.98		8.17	3-13-7	10
	20	21.70			5.10		8.15	7-10-0	15
	30	20.10			4.72		8.10	12-9-2	55
	40	18.25			4.87		8.12	14-14- 0	70
	50	17.60			4.63		8.12	15-6- 12	75
	75	15.10			4.57		8.10	19-14- 6	130
	100	14.60			4.98		8.09	22-9-2	160
5.iii	0	24.60	17.67	21.16	5.07	100	8.13	7-10-3	40
	10	23.40	19.52	24.00	4.87	96	8.15	2-9-4	0
	20	23.40	19.52	24.00	4.91	97	8.15	2-11-0	10
	30	22.50	19.57	24.36	4.95	97	8.15	5-6-6	5
	40	20.60	19.60	24.93	4.95	93	8.11	6-15-0	5

* Total P.

Station: PORT HACKING

Latitude: 34°05'30" 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
1956 5.iii	50	19.00	19.61	25.36	4.42	81	8.08	14-0- 11	15
	75	14.30	19.49	26.31	4.04	68	8.09	25-8-2	30
	100	13.20	19.45	26.48	4.38	73	8.12	24-11- 2	190
13.iii	0	22.30	18.81	23.39	4.95	95	8.23	5-25-0	35
	10	22.30	19.12	23.80	4.90	95	8.20	4-5-2	5
	20	22.00	19.21	24.01	4.87	94	8.22	5-5-1	0
	30	18.80	19.56	25.35	4.41	81	8.12	12-9-0	25
	40	16.90	19.54	25.79	4.08	72	8.12	16-2-0	50
	50	16.20	19.54	25.95	4.15	73	8.10	19-0-4	85
	75	14.60	19.46	26.19	4.02	68	8.12	23-0-0	100
	100	13.30	19.41	26.40	4.32	72	8.10	27-0-0	100
22.iii	0	22.20	18.62	23.15	5.01	96	8.18	2-7-3	20
	10	22.00	18.93	23.63	5.01	96	8.19	2-7-0	20
	20	22.10	19.68	24.62	4.91	95	8.19	4-5-4	10
	30	19.70	19.33	24.80	4.61	86	8.19	7-9-1	30
	40	16.95	19.53	25.75	4.12	73	8.13	17-0-0	80
	50	16.00	19.53	25.98	4.15	73	8.10	19-7-0	80
	75	14.70	19.48	26.20	4.06	69	8.09	28-5- 34	140
	100	12.60	19.38	26.50	4.21	69	8.05	27-0-3	160
27.iii	0	22.90	18.92	23.36	4.96	97	8.34	2-7-3	15
	10	22.80	18.92	23.39	4.90	95	8.32	2-7-0	15
	20	22.50	19.17	23.82	4.71	91	8.29	3-4-2	20
	30	18.80	19.53	25.30	4.10	75	8.25	13-5-0	90
	40	17.30	19.58	25.75	3.91	70	8.23	18-0-0	65
	50	16.10	19.57	26.01	3.85	67	8.19	21-1-1	70
	75	14.00	19.47	26.34	3.91	66	8.17	25-0-0	130
	100	13.20	19.34	26.32	3.94	65	8.18	29-0-7	110

Station: PORT HACKING

Latitude: 34°05'30" 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
1956 4.iv	0	22.20	19.15	23.87	5.24	101	8.02	3-21-0	0
	10	21.80	19.17	24.01	5.21	100	7.98	3-25-0	0
	20	19.70	19.54	24.09	4.16	77	7.95	11-19- 3	50
	30	18.30	19.54	25.45	4.10	75	7.96	17-22- 1	80
	40	17.20	19.54	25.72	3.97	71	7.97	17-17- 3	120
	50	17.10	19.54	25.74	3.97	71	7.95	20-19- 1	170
	75	14.80	19.45	26.14	4.26	73	7.95	24-19- 1	160
	100	13.60	19.44	26.38	4.26	71	8.03	27-13- 1	170
	9.iv	0	24.60	19.39	23.50	5.05	102	8.22	3-18-6
10		24.60	19.39	23.50	5.05	102	8.20	3-19	0
20		24.00	19.37	23.66	5.49	110	8.09	3-15-0	0
30		22.30	19.37	23.86	5.45	106	8.08	2-16	0
40		22.00	19.39	24.26	5.45	105	8.01	5-18-0	0
50		18.90	19.42	25.12	4.65	85	7.97	14-14- 0	40
75		16.00	19.42	25.83	4.15	72	7.87	24-9- 10	120
100		13.90	19.39	26.25	4.15	70	7.87	25-7-0	120
18.iv	0	23.10	19.50	24.10	4.89	96	8.01	1-20-5	0
	10	23.00	19.55	24.19	5.00	98	8.05	2-21-1	20
	20	22.90	19.54	24.21	4.77	94	8.07	5-16-5	10
	30	22.50	19.55	24.33	4.56	89	8.06	4-19- 14	25
	40	20.50	19.52	24.85	4.56	86	8.07	8-20-1	55
	50	18.80	19.52	25.29	4.32	79	8.06	13-18	75
	75	17.00	19.50	25.71	4.08	72	8.03	17-20- 9	100
	100	14.50	19.52	26.30	4.15	71	8.04	20-15- 1	130

Station: PORT HACKING

Latitude: 34°05'30" 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
1956 17.v	0	21.00	19.65	24.89	4.72	90	8.14	9-3-0	0
	10	21.00	19.66	24.90	4.59	87	8.14	9-6-0	0
	20	21.10	19.67	24.89	4.87	93	8.14	9-14-0	0
	30	21.10	19.66	24.88	4.91	94	8.14	8-4-0	10
	40	21.10	19.65	24.87	4.95	94	8.14	4-7-0	0
	50	20.90	19.63	24.89	4.65	88	8.07	9-9	25
	75	19.80	19.65	25.21	4.95	92	8.11	10-3	0
	100	17.20	19.62	25.82	4.08	73	8.05	17-8-0	35
23.v	0	20.40	19.60	24.99	4.95	93	8.05	8-21-0	0
	10	20.40	19.62	25.01	4.72	89	8.05	8-11-	0
	20	20.30	19.63	25.05	3.07	58	8.06	21 8-10	0
	30	20.10	19.63	25.10	4.95	93	8.06	12-18-	95
	40	20.00	19.63	25.13	4.95	93	8.06	5 10-19	0
	50	19.90	19.60	25.12	5.00	93	8.06	11-6-	10
	75	19.10	19.63	25.37	4.42	82	8.00	18 17-14-	55
	100	17.80					8.01	16 20-9- 23	50
31.v	0	18.70	19.47	25.25	5.29	97	8.08	11-17-	0
	10	18.80	19.57	25.36	5.05	93	8.08	0 16-4-0	5
	20	18.80	19.57	25.36	5.05	93	8.08	9-15-0	5
	30	18.80	19.60	25.40	5.05	93	8.08	11-8-	5
	40	18.90	19.58	25.35	4.95	91	8.08	15 11-17-	0
	50	18.80	19.60	25.40	5.05	93	8.08	4 11-18-	5
	75	18.20	19.61	25.56	4.95	90	8.09	1 12-18-	5
	100	18.00	19.61	25.61	5.12	93	8.09	8 13-15- 0	0

Station: PORT HACKING

Latitude: 34°05'30" 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
1956 6.vi	0	19.60	19.58	25.17	4.92	91	8.30	12-2-4	10
	10	19.60	19.58	25.17	5.01	93	8.29	13-1-1	10
	20	19.70	19.60	25.17	4.97	93	8.28	13-0-7	10
	30	19.60	19.60	25.20	4.97	92	8.27	12-2-6	10
	40	19.60	19.60	25.20	5.06	94	8.27	10-4-3	0
	50	19.40	19.61	25.26	5.06	94	8.27	8-3-3	10
	75	19.20	19.61	25.31	4.97	92	8.27	11-4-2	40
	100	18.70	19.61	25.44	4.86	89	8.26	15-0-5	20
12.vi	0	18.20	19.65	25.62	4.81	87	8.02	10-3-1	5
	10	18.00	19.61	25.61	5.10	92	8.01	13-2-2	5
	20	18.20	19.60	25.55	4.81	87	8.00	14-1-4	15
	30	18.00	19.58	25.58	5.06	92	7.99	12-5-1	10
	40	18.00	19.59	25.59	5.06	92	8.00	9-4-7	10
	50	18.00	19.61	25.61	4.81	87	8.01	9-8-0	10
	75	17.90	19.61	25.64	4.86	88	7.98	10-3-9	20
	100	17.90	19.61	25.64	4.92	89	7.98	9-4-4	30
20.vi	0	18.30	19.62	25.55	5.05	92	8.24	9-7-2	5
	10	18.30	19.62	25.55	5.05	92	8.24	9-9-0	5
	20	18.20	19.62	25.57	4.71	86	8.25	10-6-0	10
	30	17.70	19.61	25.69	5.05	91	8.24	13-6-0	15
	40	17.60	19.61	25.71	5.20	94	8.21	10-4-5	75
	50	17.50	19.61	25.74	5.05	91	8.22	9-7-0	10
	75	17.40	19.61	25.76	5.12	92	8.24	10-7-0	15
	100	17.20	19.61	25.81	5.39	96	8.24	10-6-0	10
27.vi	0	17.00	19.46	25.65	5.20	92	8.20	11-5-0	25
	10	17.10	19.46	25.62	5.29	94	8.19	11-4-5	35
	20	17.20	19.46	25.60	5.20	93	8.19	10-7-0	40
	30	17.30	19.48	25.61	4.90	88		11-11-	75
								1	
	40	17.30	19.52	25.67	5.20	93	8.23	11-4-0	35
	50	17.60	19.59	25.69	4.95	89	8.20	12-5-0	65
	75	16.00	19.56	26.03	4.01	70	8.14	16-6-3	100
	100	15.70	19.54	26.07	4.32	75	8.13	20-5-8	110

Station: PORT HACKING

Latitude: 34°05'30" 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	
1956 3.vii	0	17.00	19.56	25.79	4.86	86	8.14	10-8-0	30	
	10	17.10	19.62	25.84	4.90	87	8.14	10-7-0	20	
	20	17.10	19.64	25.87	5.12	91	8.14	10-10-0	35	
	30	17.10	19.63	25.86	5.05	90	8.14	10-10-0	30	
	40	17.00	19.62	25.87	4.71	84	8.14	10-8-4	25	
	50	17.00	19.63	25.89	5.12	91	8.14	10-12-0	30	
	75	17.10	19.63	25.86	5.05	90	8.14	15-8-11	45	
	100	16.80	19.61	25.90	4.77	85	8.13	14-7-0	30	
	11.vii	0	16.40	19.44	25.76	5.32	93	8.08	12-5-3	35
		10	16.40	19.48	25.82	4.91	86	8.06	13-9-0	30
20		16.40	19.49	25.84	5.12	90	8.06	13-9-0	20	
30		16.40	19.54	25.90	3.75	66	8.06	13-7-0	35	
40		16.40	19.58	25.96	4.85	85	8.02	15-6-0	50	
50		16.20	19.58	26.01	4.19	74	7.94	16-4-0	55	
75		16.20	19.58	26.01	4.79	84	7.94	16-4-0	60	
100		15.80	19.58	26.10	5.12	89	7.94	16-4-2	70	
16.vii	0	16.30	19.60	26.01	4.96	87	8.09	12-4	35	
	10	16.40	19.60	25.99	3.70	65	8.07	13-1-0	50	
	20	16.30	19.60	26.01	5.12	90	8.07	13-0-4	25	
	30	16.30	19.60	26.01	5.12	90	8.07	13-0-4	55	
	40	16.30	19.59	26.00	5.24	92	8.07	13-1-0	45	
	50	16.20	19.58	26.01	4.26	75	8.08	13-0-4	45	
	75	16.00	19.57	26.04	5.12	89	8.08	13-0-0	55	
	100	15.90	19.57	26.06	4.76	83	8.06	17-0-0	45	
23.vii	0	17.40	19.63	25.79	5.35	96	8.17	11-3-1	0	
	10	17.40	19.63	25.79	5.41	97	8.17	11-4-0	0	
	20	17.40	19.63	25.79	5.41	97	8.18	12-2-3	0	
	30	17.30	19.62	25.79	5.41	97	8.18	12-0-2	0	
	40	17.10	19.62	25.84	5.60	100	8.18	13-0-0	0	

Station: PORT HACKING

Latitude: 34°05'30" 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
1956									
23.vii	50	16.60	19.58	25.92	5.26	93	8.17	15-2-0	0
	75	16.40	19.55	25.91	4.94	87	8.17	16-1-0	0
	100	16.00	19.55	26.01	4.94	86	8.15	21-3-0	0
6.viii	0	16.70	19.49	25.77	5.25	93	8.15	9-5-2	0
	10	16.70	19.51	25.79	5.41	95	8.15	9-12-7	0
	20	16.60	19.56	25.89	5.01	88	8.15	9-5-0	0
	30	16.60	19.62	25.96	5.25	93	8.15	9-7-2	0
	40	16.60	19.63	25.98	5.41	95	8.15	10-6-0	0
	50	16.70	19.63	25.96	5.30	94	8.15	10-6-0	0
	75	16.60	19.63	25.98	5.30	93	8.18	10-6-0	0
	100	15.00	19.54	26.22	4.54	78	8.15	20-6-0	0
13.viii	0	16.50	19.65	26.03	5.47	96	8.15	11-5-5	0
	10	16.40	19.65	26.06	5.35	94	8.15	11-12-0	0
	20	16.40	19.65	26.06	5.35	94	8.15	11-5-5	0
	30	16.40	19.65	26.06	5.35	94	8.15	11-8-0	0
	40	16.40	19.64	26.04	5.30	93	8.15	10-6-1	0
	50	16.20	19.63	26.07	5.30	93	8.15	11-6-6	5
	75	15.90	19.60	26.10	5.35	93	8.14	10-4-5	0
	100	15.80	19.60	26.13	5.35	93	8.14	12-3-4	0
21.viii	0	15.80	19.60	26.13	5.11	89	8.15	11-3-5	
	10	15.80	19.60	26.13	5.24	91	8.15	11-8-0	
	20	15.80	19.60	26.13	5.31	93	8.15	11-10-1	
	30	15.60	19.60	26.17	5.31	92	8.15	11-6-0	
	40	15.60	19.60	26.17	5.31	92	8.16	11-6-0	
	50	15.60	19.60	26.17	5.16	90	8.17	11-6-5	
	75	15.70	19.59	26.14	5.16	90	8.18	11-11-1	
	100	15.20	19.57	26.22	5.11	88	8.18	14-0-4	

Station: PORT HACKING

Latitude: 34°05'30" 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
1956 27.viii	0	15.90	19.63	26.14	5.31	93	8.27	12-0-3	25
	10	15.90	19.63	26.14	5.31	93	8.27	10-2-0	25
	20	15.60	19.63	26.21	5.31	92	8.23	10-5-0	5
	30	15.40	19.63	26.23	5.45	94	8.24	10-3-4	5
	40	15.20			5.38		8.24	12	20
	50	15.50	19.61	26.20	5.24	91	8.24	12-5-1	35
	75	15.60	19.58	26.22	5.24	91	8.23	17 *	
	100	15.10	19.60	26.29	5.24	90	8.23	12-5-0	50
10.ix	0	16.60	19.63	25.98	5.37	95	8.18	6-3-6	25
	10	16.60	19.63	25.98	5.50	97	8.16	6-1-8	5
	20	16.60	19.65	26.01	5.50	97	8.16	7-2-2	15
	30	16.00	19.63	26.12	5.60	98	8.15	7-0-4	15
	40	16.30	19.66	26.09	5.65	99	8.15	7-4-0	25
	50	16.30	19.60	26.24	5.06	89	8.10	11-5-1	55
	75	13.60	19.50	26.46	4.67	78	8.07	17-5-7	85
	100	12.80	19.48	26.60	5.06	83	8.06	17-11-0	60
17.ix	0	16.40	19.61	26.00	6.26	110	8.30	2-10-1	5
	10	16.20	19.62	26.05			8.30	3-20-2	5
	20	16.20	19.62	26.05	6.18	108	8.29	4-14-5	5
	30	16.10	19.62	26.08	5.94	104	8.27	8-5-7	5
	40	16.00	19.62	26.10	5.66	99	8.27	9-13-3	20
	50	15.20	19.54	26.18	4.91	85	8.19	16-10-3	45
	75	13.00	19.44	26.50	5.86	80	8.18	23-6-4	130
	100	12.70	19.41	26.52	4.79	79	8.17	24-10-8	130
25.ix	0	16.40	19.63	26.03	5.60	99	8.20	7-6-0	5
	10	16.40	19.63	26.03	5.77	102	8.20	7-4-2	5
	20	16.10	19.62	26.08	5.66	99	8.21	7-5-0	5
	30	15.90	19.60	26.10	5.32	93	8.20	10-2-5	25
	40	15.70	19.57	26.11	5.06	88	8.17	13-2-6	35
	50	15.30	19.52	26.13	4.62	80	8.12	20-1-0	100
	75	13.50	19.38	26.32	4.62	77	8.13	20-3-0	100
	100	13.40	19.46	26.45	4.67	78	8.10	20-9-0	100
							* Total	P.	

Station: PORT HACKING

Latitude: 34°05'30" 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	
1956 2.x	0	16.20	19.61	26.04	5.45	96	8.22	8-9-2	5	
	10	16.20	19.61	26.04	5.55	97	8.22	8-9-1	20	
	20	16.00	19.61	26.09	5.55	97	8.22	9-9-0	15	
	30	15.40	19.59	26.20	5.31	92	8.20	12-7-4	40	
	40	14.80	19.57	26.31	5.06	87	8.19	14-8-1	60	
	50	14.80	19.57	26.31	4.85	83	8.18	16-9-0	70	
	75	14.10	19.54	26.42	4.67	79	8.14	19-11-0	85	
	100	13.80	19.50	26.42	4.56	77	8.13	22-5-2	100	
	9.x	0	18.00	19.65	25.67	5.37	97	8.20	8-5-2	0
		10	17.90	19.70	25.76	5.45	99	8.20	9-4-0	5
20		17.90	19.68	25.73	5.37	97	8.19	13 *	0	
30		16.90	19.63	25.91	5.55	99	8.18	9-3-0	5	
40		16.60	19.63	25.98	5.53	98	8.18	9-4-4	5	
50		16.40	19.62	26.01	5.45	96	8.17	9-7-0	5	
75		15.60	19.56	26.12	4.67	81	8.08	18-9-2	100	
100		14.80	19.51	26.22	4.44	76		22-9-0	100	
17.x	0	17.00	19.57	25.80	5.73	102	8.20	5-22-3	5	
	10	16.90	19.58	25.85	6.01	107	8.22	5-15-0	0	
	20	16.60	19.58	25.92	6.01	106	8.23	7-13-0	5	
	30	16.60	19.58	25.92	5.55	98	8.22	6-14-0	5	
	40	16.00	19.58	26.06	5.09	89	8.20	12-8-3	25	
	50	14.50	19.54	26.33	4.61	78	8.13	23-10-0	100	
	75	13.70	19.49	26.43	4.29	72	8.11	24-6-0	110	
	100	13.30	19.49	26.52	4.35	73	8.09	27-13-0	150	
30.x	0	18.50	19.65	25.55	5.45	100	8.21	7-10-0	0	
	10	18.50	19.64	25.53	5.45	100	8.21	8-7-2	25	
	20	18.50	19.65	25.55	5.45	100	8.21	8-9-0	0	
	30	18.50	19.64	25.53	5.45	100	8.21	8-7-0	5	
	40	17.90	19.62	25.65	5.16	93	8.20	10-5-0	5	

* Total P.

Station: PORT HACKING

Latitude: 34°05'30" 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
1956 30.x	50	16.30	19.61	26.02	4.79	84	8.17	15-6-2	45
	75	14.70	19.54	26.29	4.56	78	8.14	22-11-0	80
	100	13.60	19.47	26.42	3.97	66	8.10	28-0-0	120
7.xi	0	18.70	19.71	25.58	5.53	102	8.32	5-8-0	0
	10	18.20	19.71	25.71	5.57	101	8.32	5-5-3	0
	20	18.20	19.71	25.71	5.53	101	8.32	7-4-2	0
	30	18.10	19.71	25.73	5.57	101	8.33	7-6-0	0
	40	17.90	19.68	25.73	5.47	99	8.30	7-6-2	0
	50	17.80	19.66	25.73	5.47	99	8.30	7-6-0	0
	75	15.60	19.60	26.17	4.72	82	8.31	16-4-3	60
	100	14.50	19.60	26.41	4.94	84	8.34	18-4-3	60
12.xi	0	18.50	19.66	25.56	5.40	99	8.31	4-9-0	0
	10	18.35	19.66	25.60	5.49	100	8.18	4-11-0	0
	20	18.20	19.66	25.63	5.26	96	8.17	5-7-3	0
	30	16.80	19.62	25.91	4.86	86	8.13	11-8-0	5
	40	15.90	19.57	26.06	4.86	85	8.06	17-6-0	120
	50	14.80	19.55	26.28	4.40	75	8.05	21-6-3	130
	75	14.40	19.53	26.33	4.81	82	8.06	20-3-0	85
	100	13.60	19.50	26.46	4.91	82	8.05	22-10-0	90
19.xi	0	18.20	19.56	25.50	5.52	100	8.23	3-7-3	0
	10	18.10	19.56	25.53	5.69	103	8.23	3-10-0	0
	20	18.00	19.56	25.55	5.76	104	8.23	5-7-1	0
	30	17.50	19.56	25.67	5.69	102	8.24	6-12-0	0
	40	17.20	19.56	25.75	5.47	98	8.21	8-16-0	0
	50	16.80	19.56	25.84	5.23	93	8.19	10-14-4	5
	75	16.10	19.54	25.97			8.16	15-13-1	30
	100	14.40	19.49	26.29	4.32	73	8.18	27-14-49	65

Station: PORT HACKING

Latitude: 34°05'30" 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
1956 26.xi	0	19.60	19.64	25.25	5.40	101	8.25	7-0-3	0
	10	18.90	19.64	25.43	5.19	96	8.25	7-2-0	0
	20	18.70	19.64	25.48	5.54	102	8.24	8-0-0	0
	30	18.40	19.63	25.54	5.64	103	8.24	8-2-0	0
	40	18.10	19.62	25.60	5.82	106	8.23	8-1-1	0
	50	16.60	19.56	25.89	4.81	84	8.23	15-2-0	40
	75	15.80	19.56	26.07	5.50	96	8.24	15-0-0	30
	100	14.70	19.50	26.23					
3.xii	0	19.80	19.63	25.18	5.34	99	8.19	5-5-5	35
	10	19.40	19.63	25.29	5.45	101	8.21	5-8-4	15
	20	19.10	19.63	25.37	5.19	96	8.21	6-7-0	10
	30	19.30	19.63	25.31	5.34	99	8.21	7-9-0	0
	40	18.30	19.62	25.55	5.40	98	8.22	6-1-6	10
	50	17.50	19.62	25.75	5.01	90	8.23	7-2-4	10
	75	16.20	19.55	25.96	4.58	80	8.17	17-3-0	60
	100	15.10	19.53	26.18					
10.xii	0	20.00	19.68	25.20	5.19	97	8.17	4-6-0	5
	10	19.60	19.66	25.28	5.26	98	8.02	7-1-6	5
	20	19.20	19.66	25.38	5.26	97	7.87	7-0-7	5
	30	18.10	19.68	25.68	5.26	96	8.10	7-13-2	0
	40	17.20	19.66	25.88	4.87	87	8.11	18 *	
	50	16.00	19.59	26.07	4.58	80	8.06	17-7-4	60
	75	14.30	19.52	26.35	4.46	76	8.07	21-3-2	95
	100	13.60	19.48	26.43	4.46	75	8.08	23-6-0	105
19.xii	0	21.20	19.65	24.84	5.23	100	8.03	7-1-2	0
	10	20.80	19.64	24.93	5.18	98	8.04	5-3-2	0
	20	17.70	19.65	25.75	5.23	94	7.95	7-1-2	0
	30	17.40	19.63	25.79	4.72	85	7.98	11-5-6	15
	40	16.40	19.60	25.99	4.44	78	8.04	17-13- 2	50
	50	15.90	19.59	26.09	4.27	75	7.98	19-11- 10	70
								* Total P.	

Station: PORT HACKING

Latitude: 34°05'30" 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
1956 19.xii	75	14.20	19.58	26.45	4.49	76	8.03	17-13- 0	80
	100	14.00	19.51	26.39	4.38	74	8.10	22-13- 0	100

Station: ULLADULLA

Latitude: 35°22' S.

Longitude: 150°35' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	Total P	NO ₃ -N
1956 9.ii	0	20.40	19.61	25.00	5.37	101		10	
	10	20.40	19.62	25.01	4.93	93		13	
	20	18.40	19.59	25.49	5.07	92		13	
	30	15.40	19.56	26.16	4.59	79		21	
	40	14.80	19.52	26.24	4.41	76		25	
	50	13.70	19.49	26.43	4.47	75		18	
7.iii	0	22.50	19.13	23.76	4.43	86		9	
	10	19.60	19.38	24.90	4.42	82		16	
	20	15.40	19.49	26.07	4.18	72		19	
	30	15.00	19.49	26.16	4.22	73		23	
	40	14.00	19.45	26.31	4.46	75		23	
	50	13.90	19.47	26.36	4.38	74		22	
6.iv	0	20.00	19.21	24.56	5.64	105		12	
	10	19.60	19.29	24.77	5.94	110		14	
	20	17.10	19.36	25.49	4.88	87		22	
	30	15.20	19.43	26.03	4.26	73		28	
	40	13.60	19.42	26.35	4.02	67		34	
	50	13.60	19.45	26.40	4.10	69		32	
5.vi	0	18.90	19.63	25.42	4.38	81		14	
	10	18.60	19.63	25.49	5.01	92		16	
	20	18.20	19.64	25.60	4.86	89		14	
	30	18.10	19.60	25.58	5.01	91		17	
	40	18.00	19.60	25.60	5.01	91		14	
	50	18.00	19.60	25.60	4.97	90		14	
4.vii	0	16.50	19.60	25.96	5.06	89		20	
	10	16.50	19.59	25.95	5.13	90		18	
	20	16.50	19.59	25.95	5.13	90		18	
	30	16.50	19.59	25.95	5.13	90		20	
	40	16.20	19.57	25.99	5.30	93		20	
	50	16.10	19.56	26.00	5.22	91		17	

Station: ULLADULLA

Latitude: 35°22' S.

Longitude: 150°35' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ %	pH	Total P	NO ₃ -N
1956 16.viii	0	14.30	19.57	26.41	5.82	99		15	
	10	14.20	19.57	26.43	5.55	94		17	
	20	14.10	19.57	26.46	5.60	95		17	
	30	14.20	19.57	26.43	5.60	95		18	
	40	14.20	19.57	26.43	5.60	95		13	
	50	14.20	19.61	26.49	5.78	98		13	
3.ix	0	13.10	19.53	26.60	5.94	98		9	
	10	13.00			6.01				
	20	12.90	19.54	26.66	5.81	96		17	
	30	13.00	19.54	26.64	5.87	97		16	
	40	12.90	19.55	26.67	5.81	96		19	
	50	13.00	19.55	26.65	5.87	97		16	
2.x	0	15.70	19.55	26.08	6.24	109		15	
	10	15.40	19.56	26.16	6.18	107		15	
	20	15.30	19.55	26.17	6.18	107		18	
	30	15.00	19.55	26.23	6.06	104		17	
	40	14.70	19.57	26.33	6.01	103		16	
	50	14.60	19.56	26.34	6.13	105		17	
31.x	0	17.18	19.61	25.81	5.31	95		16	
	10	16.80	19.61	25.90	5.94	105		11	
	20	16.75	19.61	25.92	5.17	92		11	
	30	16.65	19.61	25.94	5.66	100		14	
	40	16.65	19.61	25.94	5.50	97		14	
	50	16.00	19.58	26.06	5.22	91		14	
4.xii	0	18.70	19.63	25.47	5.50	101		13	
	10	18.70	19.63	25.47	5.40	99		15	
	20	18.10	19.63	25.62	5.45	99		15	
	30	17.70	19.65	25.75	5.50	99		15	
	40	16.40	19.57	25.94	4.76	84		22	
	50	15.10	19.58	26.26	4.81	83		37	

Station: EDEN

Latitude: 37°04' S.

Longitude: 150°05' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ %	pH	Total P	NO ₃ -N
1956									
11.i	0	18.00	19.43	25.37	6.19	112	8.08	11	
	10	16.70	19.57	25.87	5.76	102	8.09	9	
	20	16.50	19.55	25.89	5.30	93	8.09	7	
	30	16.10	19.52	25.95	5.66	99	8.10	14	
	40	16.20	19.53	25.93	5.85	103	8.10		
	50	16.10	19.53	25.95	5.93	104	8.10	7	
9.ii	0	20.40	19.55	24.91	5.32	100		13	
	10	19.10	19.56	25.27	5.47	101		12	
	20	15.60	19.54	26.09	5.21	90		17	
	30	14.50	19.54	26.33	4.87	83		18	
	40	14.00	19.52	26.41	4.64	78		27	
	50	14.00	19.51	26.39	4.69	79		74	
7.iii	0	21.20	18.22	22.88	5.53	104		14	
	10	13.40	19.33	26.26	4.33	71		28	
	20	11.60	19.30	26.58	4.49	72		34	
	30	11.50	19.29	26.58	4.57	74		31	
	40	11.40	19.29	26.60	4.45	71		31	
	50	11.40	19.29	26.60	4.56	73		30	
5.iv	0	16.30	19.23	25.50	6.77	119		20	
	10	15.20	19.41	26.00	5.38	93		21	
	20	14.50	19.44	26.19	4.67	79		24	
	30	14.20	19.44	26.25	4.83	82		25	
	40	13.70	19.45	26.38	4.40	74		28	
	50	13.70	19.44	26.36	4.23	71		30	
4.v	0	17.00	19.49	25.70	4.95	88		21	
	10	17.00	19.49	25.70	5.17	92		20	
	20	16.90	19.49	25.72	5.08	90		19	
	30	16.80	19.49	25.75	5.08	90		18	
	40	16.60	19.48	25.77	5.02	89		18	
	50	16.40	19.44	25.76	4.98	88		18	

Station: EDEN

Latitude: 37°04' S.

Longitude: 150°05' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	Total P	NO ₃ -N
1956 6.vi	0	15.50	19.05	25.42	5.49	95		17	
	10	16.40	19.47	25.81	5.33	94		17	
	20	15.40	19.43	25.98	5.45	94		18	
	30	15.00	19.43	26.07	5.49	94		19	
	40	15.20	19.45	26.06	5.55	96		19	
	50	15.10	19.44	26.06	5.59	96		20	
	5.vii	0	13.20	19.39	26.39	6.04	100		18
10		13.20	19.39	26.39	5.99	100		20	
20		13.30	19.43	26.43	5.87	98		17	
30		13.30	19.44	26.44	5.81	97		16	
40		13.30	19.44	26.44	5.81	97		20	
50		13.30	19.45	26.46	5.87	98		19	
16.viii	0	12.30	19.52	26.76	6.00	98		13	
	10	12.20	19.52	26.78	6.00	98		14	
	20	12.20	19.52	26.78	5.93	97		20	
	30	12.00	19.52	26.81	6.00	98		12	
	40	12.00	19.54	26.84	6.00	98		14	
	50	12.00	19.54	26.84	6.00	98		16	
4.ix	0	12.10	19.48	26.73	6.50	106		16	
	10	12.10	19.48	26.73	6.41	104		16	
	20	11.90	19.48	26.77	6.30	102		16	
	30	12.00	19.51	26.79	6.13	100		16	
	40	12.00	19.53	26.82	6.13	100		17	
	50	12.00	19.51	26.79	6.01	98		15	
3.x	0	15.20	19.60	26.26	6.13	106		13	
	10	14.70	19.56	26.32	6.24	107		15	
	20	14.40	19.54	26.35	6.18	105		13	
	30	14.10	19.51	26.37	6.06	103		17	
	40	13.60	19.47	26.42	6.01	101		17	
	50	13.30	19.49	26.52	5.93	99		50	
10.x		See "Derwent Hunter" 18/56.							

Station: EDEN

Latitude: 37°04' S.

Longitude: 150°05' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ %	pH	Total P	NO ₃ -N
1956 1.xi	0	15.20	19.46	26.06	5.81	100		11	
	10	14.25	19.46	26.27	5.69	96		10	
	20	14.60			5.69				
	30	14.00	19.43	26.28	5.76	97		14	
	40	14.00	19.46	26.32	5.62	95		13	
	50	14.00	19.47	26.34	5.29	89		17	
25.xi	0	16.90	19.55	25.80	5.70	101		15	
	10	15.20	19.55	26.19	5.63	97		15	
	20	14.80	19.55	26.28	5.54	95		17	
	30	14.80	19.55	26.28	5.54	95		15	
	40	14.80	19.55	26.28	5.26	90		12	
	50	14.75	19.55	26.29	5.64	96		13	

Station: ST. HELENS

Latitude: 41°18' S.

Longitude: 148°30' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	Total P	NO ₃ -N
1956									
19.iii	0	18.00	19.22	25.07				11	
	25	17.00	19.28	25.40				23	
	50	16.70	19.28	25.47				17	
26.iv	0	16.00	19.49	25.93				24	20
	25	16.20	19.48	25.87				38	15
	50	16.00	19.48	25.91				18	15
18.vii	0	12.10	19.46	26.70	6.45	105		19	20
	25	11.50	19.44	26.79				17	25
	50	11.10	19.45	26.89				20	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
1956									
27.i	0	16.40	19.42	25.73	6.01	106		4-7	0
	20	16.40	19.44	25.76	5.60	98		8-2	10
	50	14.70	19.35	26.02	5.82	99		4-8	15
	100	13.10	19.42	26.45	5.64	94		12-0	85
12.ii	0	17.40	19.42	25.50				12 *	
	20	16.10	19.43	25.82				12 *	
	50	13.40	19.41	26.38				18 *	
	100	12.60	19.39	26.51				14 *	
29.iii	0	18.40	19.47	25.33	5.23	95		10 *	
	20	18.20	19.46	25.36	5.18	94		9 *	
	50	16.20	19.39	25.74	4.84	85		12 *	
	100	14.00	19.43	26.28	4.84	82		11 *	
28.iv	0	15.50	19.50	26.05	5.23	91		10-6	11
	20	15.60	19.50	26.03	5.07	88		11-7	14
	50	15.40	19.48	26.05	5.23	90		11-12	14
29.v	0	14.40	19.40	26.15	5.55	94		5-14	5
	20	14.40	19.42	26.18	5.60	95		6-12	0
	50	14.40	19.42	26.18	5.50	93		7-11	0
	100	14.40	19.42	26.18	5.55	94		6-12	5
20.vi	0	13.20	19.40	26.40	5.73	95		11 *	45
	20	13.20	19.36	26.35	5.60	93		8 *	45
	50	13.20	19.40	26.40	5.73	95		20 *	35
	100	13.20							
11.vii	0	12.80	19.49	26.62	5.84	96		10-14	25
	20	13.00	19.50	26.60	5.76	96		10-12	30
	50	13.00	19.52	26.62	5.73	96		11-7	25
	95	12.90	19.52	26.64	5.79	96		9-9	15
								* Total P.	

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
1956									
7.viii	0	12.20	19.44	26.66	5.97	97	8.27	12-2	35
	20	12.20	19.49	26.74	6.00	98	8.27	7-8	35
	50	12.20	19.51	26.76	5.97	97	8.26	11-0	35
	100	12.20	19.51	26.76	5.94	97	8.25	11-11	40
4.ix	0	11.90	19.42	26.69	6.00	97	8.24	12-0	35
	20	11.90	19.45	26.74	5.93	96	8.19	13-0	35
	50	11.90	19.44	26.72	6.00	97	8.17	12-0	45
	95	11.90	19.44	26.72	5.93	96	8.15	13-0	35
9.x	0	12.40	19.42	26.59	6.32	103		12-4	0
	10	12.40	19.44	26.62	6.37	104		12-7	0
	20	12.10	19.42	26.65	6.37	104		12-6	0
	30	12.00	19.45	26.72	6.25	101		14-2	10
	40	11.80	19.48	26.79	6.00	97		17-5	30
	50	11.80	19.47	26.78	5.94	96		17-3	45
7.xi	0	12.50	19.42	26.57	6.15	100		11-2	0
	10	12.10	19.41	26.64	6.15	100		11-2	0
	20	12.10	19.41	26.64	6.15	100		12-1	10
	30	12.00	19.41	26.66	6.15	100		14-0	20
	40	12.00	19.42	26.67	6.08	98		14-1	30
	50	12.00	19.43	26.69	6.08	98		14-1	20
18.xii	0	13.10	19.40	26.42	5.95	98		11-4	20
	10	13.10	19.39	26.41	5.95	98		14-2	20
	20	13.00	19.39	26.43	5.95	98		13-5	20
	30	12.90	19.37	26.43	5.95	98		16-0	30
	40	12.80	19.37	26.45	5.87	96		16-0	45
	50	12.40	19.39	26.55	5.95	97		13-1	45

Station: ROTTNEST ISLAND

Latitude: 32°00' S.

Longitude: 115°25' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1956 10.i	0	21.50	19.72	24.85	5.27	101	8.23	0-3	0
	10	21.15	19.66	24.86	5.32	102	8.23	0-0	0
	20	20.90	19.65	24.92	5.32	101	8.23	0-0	0
	30	20.85	19.68	24.97	5.37	102	8.23	3-12	0
	40	20.85	19.66	24.94	5.70	108	8.23	0-7	0
	50	20.80	19.67	24.97	5.32	101	8.23	3-0	0
24.i	0	22.70	19.78	24.60	5.32	105	8.23	0-7	0
	10	22.05	19.78	24.78	4.79	93	8.24	0-8	0
	20	22.05	19.81	24.82	5.32	103	8.25	1-8	0
	30	22.00	19.80	24.82	5.56	108	8.24	0-8	0
	40	22.00	19.82	24.85	5.61	109	8.26	1-14	0
	50	21.55	19.76	24.89	5.37	103	8.25	0-11	0
8.ii	0	22.95	19.75	24.48	5.09	100	8.28	2-6	0
	10	22.65	19.72	24.53	5.00	98	8.28	2-11	0
	20	22.55	19.72	24.56	5.05	99	8.27	1-9	0
	30	22.45	19.72	24.58	5.17	101	8.28	2-10	0
	40	22.35	19.72	24.61	5.24	102	8.27	3-8	0
	50	22.35	19.72	24.61	4.98	97	8.27	5-7	0
22.ii	0	22.45	19.71	24.57	4.92	96	8.28	0-1	0
	10	22.40	19.80	24.71	5.07	99	8.27	2-0	0
	20	22.05	19.81	24.82	5.30	103	8.27	0-0	0
	30	21.95	19.83	24.87	5.05	98	8.27	1-0	0
	40	22.00	19.84	24.87	5.30	103	8.28	2-0	0
	50	21.70	19.80	24.91	5.05	98	8.27	1-0	0
8.iii	0	21.20	19.77	25.00	5.16	99	8.29	6-0	0
	10	20.80	19.76	25.10	5.11	97	8.29	2-0	0
	20	20.80	19.77	25.11	5.16	98	8.28	3-0	0
	30	20.70	19.73	25.08	5.23	100	8.28	3-0	0
	40	20.70	19.71	25.06	5.16	98	8.28	2-0	0
	50	20.70	19.74	25.10	5.14	98	8.28	5-0	0
22.iii	0	21.75	19.81	24.90	5.20	101	8.28	0-0	0
	10	21.70	19.86	24.98	5.11	99	8.26	3-2	0
	20	21.50	19.76	24.90	5.33	103	8.29	2-5	0

Station: ROTTNEST ISLAND

Latitude: 32°00' S.

Longitude: 115°25' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1956									
22.iii	30	21.30	19.80	25.02	5.00	96	8.29	4-2	0
	40	21.50	19.83	25.00	5.07	98	8.28	2-4	0
	50	21.45	19.81	24.99	5.20	100	8.30	4-3	0
1.v	0	21.65	19.57	25.18	5.06	97	8.27	5-0	0
	10	21.65	19.57	25.19	4.99	96	8.28	6-0	0
	20	21.65	19.56	25.17	4.95	95	8.28	5-0	0
	30	21.60	19.58	25.20	5.06	97	8.26	7-0	0
	40	21.55	19.58	25.20	5.10	98	8.28	8-0	0
	50	21.55	19.57	25.18	5.06	97	8.28	5-0	0
17.v	0	20.60	19.54	24.85	5.16	98		2-0	0
	10	20.55	19.54	24.87	5.10	96		4-0	0
	20	20.55	19.53	24.85	5.25	99		4-0	0
	30	20.55	19.54	24.87	5.25	99		1-3	0
	40	20.60	19.53	24.83	5.25	99		2-2	0
	50	20.55	19.52	24.84	5.10	96		4-0	0
31.v	0	19.85	19.55	25.06	5.30	99	8.27	3-0	0
	10	19.90	19.57	25.08	5.30	99	8.27	2-2	0
	20	19.90	19.57	25.08	5.08	95	8.27	1-3	0
	30	19.40	19.56	25.20	5.23	98	8.27	3-0	0
	40	19.00	19.58	25.33	5.23	97	8.28	4-3	0
	50	18.90	19.57	25.33	5.23	96	8.28	2-2	0
20.vi	0	20.90	19.48	24.68	5.24	101		9-0	0
	10	20.85	19.50	24.73	5.24	99		7-0	0
	20	20.70	19.51	24.78	5.30	100		6-2	0
	30	20.75	19.55	24.82	5.30	101		6-0	0
	40	20.50	19.51	24.83	5.18	98		9-0	0
	50	20.70	19.53	24.81	5.30	100		7-0	0
5.vii	0	19.90	19.52	25.01	5.26	98	8.35	0-4	0
	10	19.80	19.54	25.06	5.36	100	8.35	1-4	0
	20	19.75	19.48	24.99	5.23	97	8.35	0-4	0
	30	19.10	19.57	25.28	5.23	97	8.36	2-0	0
	40	18.50	19.51	25.35	5.36	98	8.36	0-5	0
	50	18.50	19.55	25.41	5.49	100	8.36	0-5	0

Station: ROTTNWEST ISLAND

Latitude: 32°00' S.

Longitude: 115°25' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1956 7.viii	0	18.15	19.36	25.24	5.51	100	8.33	0-6	0
	10	18.15	19.42	25.31	5.66	103	8.33	0-6	0
	20	18.15	19.44	25.34	5.57	101	8.34	0-3	0
	30	18.05	19.44	25.37	5.54	100	8.34	4-0	0
	40	17.80	19.46	25.46	5.63	102	8.34	0-4	0
	50	17.70	19.45	25.47	5.66	102	8.34	0-9	0
22.viii	0	18.95	19.58	25.34	5.48	101		4-5	0
	10	18.95	19.60	25.37	5.57	103		4-2	0
	20	18.95	19.60	25.37	5.47	101		3-3	0
	30	18.95	19.59	25.35	5.43	100		5-3	0
	40	18.95	19.61	25.38	5.39	100		2-9	0
	50	19.00	19.60	25.35	5.39	100		2-6	0
6.ix	0	18.20	19.44	25.33	5.43	99		3-1	
	10	18.20	19.44	25.33	5.49	100		5-2	
	20	18.15	19.45	25.36	5.55	101		4-1	
	30	18.15	19.47	25.39	5.52	100		5-2	
	40	18.00	19.49	25.46	5.43	98		4-1	
	50	17.80	19.50	25.51	5.40	98		6-2	
20.ix	0	18.85	19.57	25.35	5.42	100		2-2	0
	10	18.80	19.59	25.39	5.54	102		3-3	0
	20	18.75	19.59	25.40	5.54	102		2-2	0
	30	18.75	19.58	25.39	5.54	102		3-2	0
	40	18.75	19.60	25.42	5.54	102		4-1	0
	50	18.75	19.58	25.39	5.54	102		4-1	0
2.x	0	18.60	19.51	25.33	5.49	100		0-2	0
	10	18.55	19.59	25.45	5.51	101		0-4	0
	20	18.30	19.59	25.51	5.64	103		0-4	0
	30	18.25	19.61	25.55	5.54	101		0-6	0
	40	18.10	19.60	25.58	5.49	100		0-5	0
	50	18.20	19.57	25.51	5.54	101		0-5	0

Station: ROTTNEST ISLAND

Latitude: 32°00' S.

Longitude: 115°25' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1956									
15.x	0	19.10	19.49	25.18	5.33	98		4-1	0
	10	18.75	19.52	25.30	5.36	98		5-0	0
	20	18.60	19.56	25.40	5.16	94		4-4	0
	30	18.60	19.64	25.50	5.27	97		3-2	0
	40	18.55	19.63	25.51	5.12	94		5-0	0
	50	18.55	19.61	25.48	5.24	96		5-0	0
30.x	0	19.70	19.51	25.03	5.44	101		2-6	0
	10	19.50	19.46	25.03	5.55	103		3-5	0
	20	19.20	19.56	25.25	5.48	102		4-5	0
	30	19.05	19.59	25.32	5.48	101		2-5	0
	40	19.00	19.58	25.33	5.36	99		2-6	0
	50	18.95	19.58	25.34	5.59	103		3-5	0
9.xi	0	19.15	19.54	25.23	5.34	99		2-7	0
	10	19.20	19.54	25.22	5.41	100		3-6	0
	20	19.00	19.55	25.28	5.44	100		2-8	0
	30	19.10	19.55	25.25	5.38	99		2-9	0
	40	19.00	19.56	25.30	5.28	97		2-8	0
	50	19.05	19.57	25.30	5.41	100		5-5	0
15.xi	0	20.00	19.57	25.05	5.29	99		3-6	0
	10	19.75	19.57	25.12	5.34	100		1-8	0
	20	19.80	19.57	25.10	5.46	102		3-11	0
	30	19.70	19.58	25.15	5.35	100		2-6	0
	40	19.70	19.58	25.15	5.23	97		1-5	0
	50	19.55	19.53	25.11	5.35	99		1-7	0
21.xi	0	20.45	19.56	24.92	5.52	104		5-0	0
	10	19.90	19.56	25.07	5.36	100		4-0	0
	20	19.70	19.61	25.18	5.55	104		3-2	0
	30	19.70	19.60	25.17	5.49	102		6-0	0
	40	19.70	19.59	25.16	5.46	102		5-0	0
	50	19.70	19.60	25.17	5.45	102		5-3	0

Station: ROTNEST ISLAND

Latitude: 32°00' S.

Longitude: 115°25' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1956 4.xii	0	20.30	19.58	24.99	5.22	98		1-1	
	10	20.25	19.56	24.97	5.25	99		1-2	
	20	20.10	19.56	25.01	5.28	99		0-5	
	30	20.20	19.58	25.01	5.35	100		1-4	
	40	20.00	19.56	25.04	4.98	93		0-10	
	50	19.95	19.61	25.12	5.01	94		2-9	
11.xii	0	20.40	19.57	24.94	5.02	95		7-0	
	10	20.25	19.59	25.01	5.04	95		7-0	
	20	20.05	19.60	25.08	5.30	100		5-0	
	30	19.65	19.61	25.20	5.44	101		5-2	
	40	19.30	19.59	25.26	5.30	98		6-0	
	50	19.20	19.56	25.25	5.30	98		4-0	
18.xii	0	20.45	19.60	24.98	5.07	96		3-6	
	10	20.60	19.59	24.92	5.16	93		4-5	
	20	20.50	19.63	25.00	5.24	101		2-12	
	30	19.95	19.58	25.08	5.38	101		0-5	
	40	19.70	19.57	25.13	5.34	100		1-8	
	50	19.50	19.56	25.17	5.41	100		2-3	

Station: FREMANTLE TO ROTTNESST ISLAND

Latitude:

Longitude:

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1956									
10.i									
Stn. 2	0	22.00	19.82	24.85	5.37	104	8.26	0-3	0
	10	21.50	19.82	24.99	5.44	105	8.24	1-1	0
Stn. 5	0	21.65	19.76	24.86	5.44	105	8.24	0-5	0
	20	21.60	19.76	24.88	5.62	108	8.24	0-6	0
24.i									
Stn. 2	0	22.95	19.95	24.75	5.32	105	8.27	0-8	0
	10	22.70	19.92	24.79	5.44	107	8.27	0-10	0
Stn. 5	0	22.15	19.79	24.76	5.17	101	8.23	0-11	0
	20	22.00	19.80	24.82	5.17	100	8.23	2-10	0
8.ii									
Stn. 2	0	23.30	19.70	24.31	4.98	99	8.30	2-13	0
	10	23.30	19.82	24.48	5.17	102	8.30	2-10	0
Stn. 5	0	22.90	19.80	24.57	5.17	102	8.29	6-3	0
	20	22.85	19.80	24.58	5.17	102	8.29	1-9	0
22.ii									
Stn. 2	0	22.50	20.13	25.14	4.95	97	8.30	3-0	0
	10	22.50	20.05	25.02	4.95	97	8.31	3-2	0
Stn. 5	0	22.15	19.91	24.93	5.00	98	8.28	2-0	0
	20	22.05	19.96	25.02	4.90	95	8.28	0-6	0
8.iii									
Stn. 2	0	22.20	20.06	25.12	4.97	97	8.31	1-0	0
	10	21.95	20.05	25.18	5.30	103	8.31	3-0	0
Stn. 5	0	21.75	19.95	25.09	5.08	99	8.28	2-1	0
	20	21.65	19.94	25.11	5.11	99	8.29	2-0	0
22.iii									
Stn. 2	0	22.25	20.28	25.41	5.00	98	8.28	0-0	0
	10	22.20	20.29	25.44	5.20	102	8.27	0-0	0
Stn. 5	0	21.60	20.00	25.21	5.07	98	8.26	0-0	0
	20	21.60	19.99	25.19	5.16	100	8.27	0-0	0

Station: FREMANTLE TO ROTTNEST ISLAND

Latitude:

Longitude:

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1956									
1.v									
Stn. 2	0	20.00	19.67	25.31	5.31	99	8.29	5-1	0
	10	19.90	19.68	25.31	5.10	95	8.30	5-0	0
Stn. 5	0	21.00	19.59	25.21	4.93	94	8.31	3-1	0
	20	21.10	19.61	25.23	5.06	96	8.31	4-2	0
17.v									
Stn. 2	0	18.70	19.56	25.37	5.25	96		6-0	0
	10	17.30	19.58	25.75	5.44	98		5-0	0
Stn. 5	0	19.95	19.54	25.03	5.25	98		3-0	0
	20	19.90	19.54	25.04	5.31	99		3-0	0
31.v									
Stn. 2	0	17.95	19.61	25.63	5.53	100	8.28	2-1	0
	10	17.80	19.61	25.66	5.44	99	8.28	2-0	0
Stn. 5	0	18.40	19.58	25.48	5.42	99	8.28	4-0	0
	20	18.25	19.54	25.46	5.46	99	8.29	2-0	0
20.vi									
Stn. 2	0	17.55	19.58	25.69	5.59	101		6-0	0
	10	17.00	19.55	25.77	5.74	102		5-0	0
Stn. 5	0	18.95	19.55	25.29	5.80	103		6-0	0
	20	18.00	19.57	25.56	5.66	103		6-0	0
5.vii									
Stn. 2	0	17.00	19.51	25.72	5.71	101	8.36	2-1	0
	10	16.50	19.40	25.68	5.74	99	8.35	0-3	0
Stn. 5	0	18.15	19.54	25.49	5.54	101	8.37	3-0	0
	20	17.30	19.49	25.63	5.57	99	8.38	4-0	0
22.viii									
Stn. 2	0	15.50	18.92	25.26	6.18	106		3-8	0
	10	16.30	19.20	25.45	5.98	105		3-6	0
Stn. 5	0	16.10	19.36	25.73	5.72	100		4-7	0
	20	16.10	19.36	25.73	5.72	100		5-4	0

Station: FREMANTLE TO ROTTNEST ISLAND

Latitude:

Longitude:

Date	Depth (m)	Temp. °C	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1956									
6.ix									
Stn. 2	0	15.50	19.27	25.74	5.75	98		4-2	
	10	15.60	19.34	25.81	5.87	100		4-6	
Stn. 5	0	15.90	19.38	25.80	5.75	100		4-2	
	20	15.95	19.43	25.85	5.68	99		3-1	
20.ix									
Stn. 2	0	17.10	19.54	25.74	5.76	102		3-0	0
	10	16.95	19.55	25.79	5.76	102		3-4	0
Stn. 5	0	17.20	19.56	25.75	5.84	104		2-2	0
	20	17.20	19.54	25.72	5.91	105		2-2	0
2.x									
Stn. 2	0	17.55	19.48	25.55	5.64	101		0-3	0
	10	17.70	19.58	25.65	5.66	102		0-4	0
Stn. 5	0	17.60	19.61	25.71	5.73	103		0-5	0
	20	17.60	19.56	25.65	5.68	102		0-4	0
15.x									
Stn. 2	0	16.70	19.24	25.42	5.48	96		2-4	0
	10	16.40	19.41	25.73	5.50	97		6-1	0
Stn. 5	0	17.10	19.57	25.78	5.48	98		4-2	0
	20	16.95	19.46	25.56	5.45	97		4-1	0
30.x									
Stn. 2	0	18.25	19.39	25.25	5.72	104		1-6	0
	10	18.20	19.49	25.41	5.61	102		2-6	0
Stn. 5	0	18.70	19.52	25.32	5.87	108		2-7	0
	20	18.75	19.55	25.34	5.82	107		2-5	0
9.xi									
Stn. 2	0	18.55	19.34	25.11	5.41	99		1-6	0
	10	18.15	19.37	25.25	5.56	101		2-5	0
Stn. 5	0	18.40	19.40	25.22	5.70	104		2-10	0
	20	18.35	19.41	25.25	5.73	104		3-8	0

Station: FREMANTLE TO ROTTNESST ISLAND

Latitude:

Longitude:

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1956									
15.xi									
Stn. 2	0	19.40	19.49	25.10	5.60	104		2-7	0
	10	18.90	19.50	25.24	5.45	101		2-9	0
Stn. 5	0	19.20	19.52	25.19	5.60	104		1-7	0
	20	19.00	19.55	25.28	5.67	105		1-8	0
21.xi									
Stn. 2	0	20.40	19.45	24.78	5.27	99		3-1	0
	10	19.80	19.52	25.03	5.67	106		4-0	0
Stn. 5	0	20.20	19.59	25.02	5.46	103		4-0	0
	20	20.00	19.49	24.94	5.49	103		5-0	0
4.xii									
Stn. 2	0	20.70	19.44	24.68	5.18	98		0-3	
	10	20.65	19.45	24.71	5.10	96		1-1	
Stn. 5	0	20.50	19.58	24.93	5.38	101		2-0	
	20	20.60	19.60	24.94	5.41	102		1-8	
11.xii									
Stn. 2	0	20.80	19.39	24.59	5.40	102		3-3	
	10	20.65	19.46	24.72	5.55	105		4-4	
Stn. 5	0	20.50	19.45	24.75	5.46	103		4-3	
	20	20.50	19.50	24.82	5.40	102		4-1	
18.xii									
Stn. 5	0	20.60	19.58	24.91	5.27	100		4-2	
	20	20.60	19.58	24.91	5.38	102		2-5	

Station: ALBANY

Latitude: 35°05' S.

Longitude: 118°03' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1956 12.i	0	20.60	19.81	25.22	5.44	103	8.24	5-0	0
	10	20.50	19.83	25.27	5.80	110	8.24	4-0	0
	20	20.45	19.83	25.29	5.62	106	8.25	3-0	0
	30	20.25	19.83	25.34	5.57	105	8.25	3-0	0
	40	20.20	19.84	25.36	5.59	105		3-0	0
	50	20.20	19.84	25.36	5.44	102	8.24	3-0	0
2.ii	0	20.95	19.81	25.12	5.24	100	8.26	0-11	0
	10	20.90	19.82	25.15	5.37	102	8.28	0-12	0
	20	20.70	19.84	25.23	5.37	102	8.28	0-13	0
	30	20.25	19.84	25.25	5.48	104	8.29	0-9	0
	40	20.20	19.84	25.36	5.44	103	8.28	0-10	0
	50	19.80	19.84	25.45	5.24	98	8.29	0-10	0
28.ii	0	20.60	19.86	25.29	5.11	97	8.22	0-0	0
	10	20.55	19.89	25.34	5.30	101	8.21	0-0	0
	20	20.50	19.89	25.36	5.30	101	8.22	0-7	0
	30	20.50	19.95	25.43	5.30	101	8.22	2-1	0
	40	20.50	19.84	25.28	5.20	98	8.23	0-0	0
	50	20.40	19.95	25.46	5.05	96	8.24	0-1	0
1.iv	0	20.75	19.68	25.00	5.09	97	8.41	0-5	0
	10	20.75	19.68	25.00	5.24	100	8.41	0-4	0
	20	20.75	19.66	24.97	5.27	100	8.40	0-5	0
	30	20.75	19.67	24.99			8.40	0-5	0
	40	20.75	19.67	24.99	5.27	100	8.41	0-7	0
	50	20.75	19.67	24.99	5.20	99	8.40	0-12	0
24.iv	0	20.55	19.62	25.24	5.33	101	8.31	4-0	0
	10	20.60	19.66	25.29	5.17	98	8.33	3-1	0
	20	20.55	19.63	25.26	5.03	95	8.32	2-1	0
	30	20.55	19.63	25.26	5.33	101	8.33	3-3	0
	40	20.55	19.64	25.26	5.21	99	8.33	4-0	0
	50	20.55	19.64	25.26	5.26	99	8.33	2-0	0

Station: ALBANY

Latitude: 35°05' S.

Longitude: 118°03' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1956 31.v	0	18.60	19.63	25.49	5.33	98	8.28	2-2	0
	10	18.65	19.66	25.52	5.42	99	8.28	0-3	0
	20	18.60	19.66	25.53	5.58	102	8.29	1-0	0
	30	18.65	19.66	25.52	5.46	100	8.29	1-0	0
	40	18.60	19.63	25.49	5.38	99	8.29	1-4	0
	50	18.65	19.65	25.51	5.46	100	8.29	3-0	0
5.vii	0	18.90	19.48	25.21	5.69	105		0-9	0
	10	18.75	19.50	25.28	5.39	99		7-0	0
	20	18.75	19.53	25.31	5.42	99		4-3	0
	30	18.75	19.52	25.30	5.45	100		3-6	0
	40	18.70	19.49	25.28	5.33	98		2-1	0
	50	18.75	19.54	25.33	5.39	99		1-3	0
2.viii	0	16.75	19.49	25.76	5.63	100		6-2	0
	10	16.75	19.54	25.82	5.63	100		6-0	0
	20	16.75	19.56	25.85	5.63	100		6-2	0
	30	16.75	19.57	25.87	5.68	101		8-1	0
	40	16.75	19.58	25.88	5.60	99		5-0	0
	50	16.75	19.55	25.83	5.66	100		6-0	0
29.viii	0	16.90	19.62	25.89	5.59	98		5-1	0
	10	16.90	19.64	25.92	5.64	100		3-1	0
	40	16.70	19.61	25.93	5.82	103		3-2	0
	50	16.75	19.59	25.89	5.75	102		3-5	0
28.ix	0	17.50	19.52	25.62	5.54	99		1-4	0
	10	17.45	19.58	25.71	5.66	102		0-4	0
	20	17.45	19.57	25.69	5.60	101		0-6	0
	30	17.40	19.61	25.76	5.70	102		0-5	0
	40	17.40	19.64	25.80	5.66	101		0-4	0
	50	17.25	19.60	25.79	5.68	102		0-5	0
25.x	0	17.85	19.52	25.53	5.44	98		4-3	0
	10	17.80	19.53	25.55	5.48	99		4-2	0
	20	17.85	19.56	25.59	5.60	101		2-3	0
	30	17.80	19.59	25.63	5.50	99		4-1	0

Station: ALBANY

Latitude: 35°05' S.

Longitude: 118°03' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1956 25.x	40	17.75	19.60	25.67	5.50	99		3-1	0
	50	17.75	19.62	25.68	5.50	99		3-4	0
30.xi	0	18.75	19.60	25.42	5.38	99		2-6	
	10	18.65	19.59	25.42	5.47	100		6-0	
	20	18.50	19.59	25.46	5.47	102		4-0	
	30	18.65	19.59	25.42	5.47	100		3-0	
	40	18.50	19.58	25.45	5.47	100		3-0	
	50	18.70	19.56	25.47	5.55	102		4-0	

F.R.V. "Derwent Hunter"
Cruise 1

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1956	1/56	33°52' S. 152°00' E.	*			
5.ix			0	17.50	19.72	35.62
			25	17.45	19.71	35.61
			50	17.45	19.71	35.61
			75	17.65	19.71	35.61
			100	17.40	19.71	35.61
			150	17.50	19.71	35.61
			200	17.55	19.71	35.61
			300	14.43	19.57	35.35
			* Wire depths only.			

F.R.V. "Derwent Hunter"
Cruise 1

σ_t	O ₂	O ₂ %	pH	Total P	NO ₃ N
25.89	5.23	94		12	
25.89	5.31	95		13	
25.89	5.23	94		13	
25.84	5.17	93		13	
25.90	4.96	89		13	
25.88	5.11	92		16	
25.87	4.91	88		16	
26.39	4.29	73		19	

F.R.V. "Derwent Hunter
Cruise 2

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1956 13.ix	2/56	34°00' S. 151°25' E.	0	16.48	19.70	35.59
			25	15.86	19.66	35.52
			50	15.40	19.63	35.46
			73	15.35	19.63	35.46
			97	13.16	19.52	35.26
			145		19.49	35.21
14.ix	3/56	34°21' S. 153°17' E.	0	17.51	19.73	35.64
			23	17.50	19.75	35.68
			46	17.49	19.72	35.62
			68	17.49	19.72	35.62
			85	17.40	19.72	35.62
			123	17.41	19.72	35.62
			160	17.51	19.71	35.61
			225	17.51	19.73	35.64
			322	14.52	19.55	35.32
			445	11.40	19.38	35.01
528	8.99	19.22	34.72			
15.ix	4/56	34°28' S. 154°14' E.	0	18.67	19.71	35.61
			27	18.77	19.70	35.59
			55	17.11	19.65	35.50
			85	16.53	19.68	35.55
			110	16.25	19.68	35.55
			159	14.40	19.55	35.32
			215	13.29	19.48	35.19
			320	11.26	19.38	35.01
			498	8.57	19.20	34.69
			795	5.48	19.11	34.52
15.ix	5/56	34°01'36" S. 152°48'24" E.	0	17.65	19.72	35.62
			25	17.50	19.72	35.62
			50	17.51	19.72	35.62
			74	17.50	19.71	35.61
			95	17.45	19.71	35.61
			146	17.55	19.71	35.61
			185	17.55	19.71	35.61

F.R.V. "Derwent Hunter
Cruise 2

σ_t	O ₂	O ₂ %	pH	Total P.	NO ₃ N
26.10	4.91	87		13	
26.19	5.32	93		14	
26.26	4.74	82		17	
26.27	4.29	74		18	
26.58	4.85	81		18	
	4.85			24	
25.90	5.21	94		12	
25.93	5.09	92		12	
25.89	4.91	88		14	
25.89	5.12	92		12	
25.91	4.61	83		14	
25.91	4.74	85		12	
25.88	4.97	89		13	
25.90	4.79	86		11	
26.34	3.60	60		20	
26.73	4.29	69		32	
26.92	4.40	67		37	
25.59	4.56	84		17	
25.54	4.97	91		14	
25.89	4.45	79		16	
26.06	5.06	89		15	
26.13	5.06	89		14	
26.36	4.16	71		23	
26.50	4.40	73		26	
26.76	4.45	71		24	
26.96	4.34	66		37	
27.26	4.29	61		44	
				13	
25.85	5.02	90		14	
25.89	4.68	84		14	
25.89	4.97	89		12	
25.88	5.02	90		12	
25.89	5.12	92		12	
25.87	5.06	91		12	
25.87	5.02	90		11	

F.R.V. "Derwent Hunter"
Cruise 2

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1956 15.ix	5/56	34°01'36" S. 152°48'24" E.	275	17.52	19.71	35.61
			463	12.78	19.43	35.10
			690	8.70	19.18	34.65
			916	6.47	19.06	34.43
15.ix	6/56	33°53' S. 152°21' E.	0	17.51	19.72	35.62
			25	17.50	19.72	35.62
			50	17.51	19.72	35.62
			74	17.50	19.72	35.62
			100	17.45	19.71	35.61
			150	17.52	19.72	35.62
			200	17.50	19.72	35.62
			300	15.96	19.61	35.43
			498	12.02	19.48	35.19
			739	8.50	19.20	34.69
980	6.01	19.08	34.47			
16.ix	7/56	33°46'18" S. 152°02'30" E.	0	17.60	19.70	35.59
			25	17.65	19.70	35.59
			50	17.44	19.70	35.59
			73	17.35	19.70	35.59
			104	16.97	19.70	35.59
			156	16.15	19.65	35.50
			207	15.63	19.62	35.44
			310	12.54	19.43	35.10
			514	9.83	19.26	34.79
			757	7.44	19.20	34.69
			1005	5.55	19.08	34.47
16.ix	8/56	33°38' S. 151°55' E.	0	17.53	19.70	35.59
			26	17.28	19.72	35.62
			53	16.84	19.69	35.57
			80	16.22	19.66	35.52
			107	16.11	19.65	35.50
			160	15.04	19.58	35.37
			213	12.12	19.45	35.14

F.R.V. "Derwent Hunter"
Cruise 2

σ_t	O ₂	O ₂ %	pH	Total P	NO ₃ N
25.88	4.91	88		11	
26.54	4.85	80		23	
26.91	4.61	70		37	
27.06	4.10	59		51	
25.89	5.06	91		14	
25.89	5.24	94		18	
25.89	4.97	89		11	
25.89	4.97	89		12	
25.89	4.97	89		12	
25.89	4.91	88		12	
25.89	5.06	91		11	
26.10	4.20	73		18	
26.65	5.21	85		18	
26.97	4.56	69		23	
27.15	4.29	61		48	
25.84	5.24	94		13	
25.85	5.17	93		12	
25.88	4.91	88		13	
25.90	4.91	88		11	
25.99	4.68	83		14	
26.12	4.79	84		15	
26.18	4.97	86		15	
26.58	4.45	73		26	
26.84	4.56	71		34	
27.13	4.45	66		45	
27.21	4.16	59		52	
25.85	5.55	100		14	
25.94	5.06	91		14	
26.01	5.50	98		12	
26.11	5.12	90		15	
26.12	5.12	90		11	
26.27	4.91	85		22	
26.69	5.12	83		22	

F.R.V. "Derwent Hunter"
Cruise 3

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1956 19.ix	9/56	33°58' S. 151°50' E.	0	17.19	19.68	35.55
			22	17.18	19.69	35.57
			44	17.00	19.68	35.55
			67	16.60	19.66	35.52
			90	16.20	19.66	35.52
			135	15.90	19.65	35.50
			183	14.56	19.55	35.32
			280	11.93	19.43	35.10
			411	10.10	19.29	34.85
20.ix	10/56	34°09' S. 153°45' E.	0	17.28	19.68	35.55
			22	17.20	19.67	35.53
			45	17.20	19.68	35.55
			67	16.98	19.71	35.61
			90	16.69	19.67	35.53
			138	16.13	19.63	35.46
			180	15.39	19.60	35.41
			271	12.93	19.43	35.10
			446	10.69	19.30	34.87
			681	7.90	19.10	34.51
			921	5.82	19.10	34.51
21.ix	11/56	34°42' S. 153°49' E.	0	16.84	19.66	35.52
			23	16.89	19.66	35.52
			44	16.81	19.67	35.53
			65	16.78	19.67	35.53
			88	16.04	19.62	35.44
			131	15.56	19.62	35.44
			173	14.84	19.56	35.34
			258	12.49	19.40	35.05
			292	11.31	19.32	34.90
			495	8.86	19.19	34.67
			694	6.93	19.09	34.49
27.ix	12/56	35°12' S. 151°12' E.	0	16.58	19.68	38.55
			25	16.40	19.68	38.55
			50	16.20	19.67	35.53
			75	16.04	19.67	35.53

F.R.V. "Derwent Hunter"
Cruise 3

σ_t	O ₂	O ₂ %	pH	Total P	NO ₃ N
25.91	5.60	100		12	
25.93	5.23	93		12	
25.95	5.60	100		10	
26.02	5.45	96		12	
26.11	5.38	95		10	
26.17	5.06	88		13	
26.33	4.79	82		17	
26.70	4.91	80		20	
26.83	4.79	75		28	
25.88	5.38	96		8	
25.89	5.17	92		12	
25.90	5.17	92		12	
26.01	5.45	97		12	
26.01	5.17	92		14	
26.09	5.02	88		16	
26.22	5.02	87		15	
26.51	4.40	73		25	
26.76	4.76	75		27	
26.92	4.40	65		42	
27.21	4.29	61		53	
25.96	5.50	98		12	
25.95	5.45	97		20	
25.99	5.45	97		13	
25.99	5.45	97		14	
26.09	5.38	94		18	
26.20	5.31	92		14	
26.29	4.90	85		17	
26.54	4.67	77		27	
26.66	4.56	73		33	
26.90	4.79	73		37	
27.04	4.90	71		45	
26.05	5.55	98		10	
26.09	4.36	77		10	
26.13	5.16	91		13	
26.17	5.11	89		13	

F.R.V. "Derwent Hunter"
Cruise 3

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1956 27.ix	12/56	35°12' S. 151°12' E.	100	16.10	19.66	35.52
			128	15.56	19.62	35.44
			182	13.15	19.48	35.19
			289	11.32	19.38	35.01
			510	10.34	19.37	34.99
			752	7.22	19.12	34.54
			966	5.22	19.08	34.47
			28.ix	13/56	35°32' S. 152°21' E.	0
25	15.82	19.65				35.50
52	15.75	19.65				35.50
78	15.70	19.64				35.48
105	15.65	19.64				35.48
158	15.29	19.62				35.44
215	14.19	19.56				35.34
352	12.55	19.48				35.19
524	9.69	19.23				34.74
760	7.09	19.10				34.51
1000	5.59	19.07				34.45
29.ix	14/56	35°06' S. 152°26' E.	0	15.62	19.61	35.43
			23	15.55	19.61	35.43
			47	15.49	19.61	35.43
			70	14.99	19.61	35.43
			93	15.20	19.60	35.41
			140	13.75	19.49	35.21
			190	13.57	19.51	35.25
			290	12.36	19.43	35.10
			420	10.67	19.31	34.88
			630 *	7.86	19.11	34.52
			840 *	6.05	19.03	34.38
1.x	15/56	33°06' S. 153°15' E.	0	19.90	19.66	35.52
			25	19.75	19.66	35.52
			50	18.75	19.70	35.59
			75	18.78	19.70	35.59
			100	18.61	19.70	35.59
* Estimated depths.						

F.R.V. "Derwent Hunter"
Cruise 3

σ_t	O ₂	O ₂ %	pH	Total P	NO ₃ N
26.14	5.23	92		13	
26.20	4.75	82		15	
26.53	4.73	79		21	
26.75	4.67	75		25	
26.91	4.93	78		28	
27.05	4.85	71		42	
27.25	4.95	70		55	
	5.50			15	
26.19	5.55	97		12	
26.21	5.60	98		12	
26.20	5.37	93		12	
26.21	5.45	95		12	
26.26	5.20	90		13	
26.43	5.02	85		14	
26.65	5.45	89		18	
26.82	4.49	69		35	
27.04	4.29	63		38	
27.19	4.06	58		38	
26.18	5.37	93		15	
26.19	5.34	93		13	
26.21	5.41	94		15	
26.32	5.17	89		15	
26.26	4.22	75		15	
26.42	4.75	80		18	
26.48	3.97	66		16	
26.62	5.11	84		18	
26.76	4.67	74		25	
26.94	4.29	64		42	
27.08	4.16	60		52	
25.20	4.75	89		12	
25.24	4.66	87		12	
25.55	4.96	91		10	
25.54	5.06	93		8	
25.58	4.96	91		14	

F.R.V. "Derwent Hunter"
Cruise 3

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1956 1.x	15/56	33°06' S. 153°15' E.	150	17.36	19.70	35.59
			200	16.07	19.59	35.39
			294	14.44	19.51	35.25
			509	10.89	19.30	34.87
			755	8.44	19.14	34.58
			1006	4.98	19.06	34.43
			2.x	16/56	33°20' S. 154°39' E.	0
25	18.75	19.72				35.62
48	18.68	19.72				35.62
72	18.40	19.72				35.62
96	18.40	19.72				35.62
145	18.75	19.71				35.61
195	18.70	19.71				35.61
294	16.88	19.65				35.50
472	15.15	19.54				35.30
695	10.46	19.28				34.83
911	7.61	19.11				34.52
4.x	17/56	33°48' S. 152°10' E.	0	18.75	19.70	35.59
			23	18.75	19.70	35.59
			46	18.55	19.69	35.57
			71	18.60	19.69	35.57
			92	18.60	19.70	35.57
			138	17.80	19.67	35.53
			185	17.28	19.64	35.48
			299	15.15	19.58	35.37
			473	11.70	19.38	35.01
			707	8.59	19.17	34.63
			941	6.02	19.07	34.45

F.R.V. "Derwent Hunter"
Cruise 3

σ_t	O ₂	O ₂ ‰	pH	Total P	NO ₃ N
25.89	4.67	84		17	
26.05	4.56	80		17	
26.30	4.67	79		20	
26.71	4.40	70		32	
26.90	4.16	63		38	
27.25	4.06	57		57	
25.55	5.11	94		12	
25.58	5.02	92		13	
25.60	4.91	90		13	
25.67	4.08	75		13	
25.67	4.40	80		14	
25.57	4.91	90		16	
25.58	4.91	90		14	
25.94	4.91	87		22	
26.19	4.09	70		25	
26.76	4.16	65		37	
26.98	4.29	63		50	
25.55	5.11	94		13	
25.55	5.16	95		12	
25.59	5.16	94		13	
25.58	5.11	94		13	
25.59	5.16	95		15	
25.75	4.61	83		18	
25.83	4.79	86		18	
26.25	4.40	76		27	
26.68	4.29	69		32	
26.92	4.47	68		43	
27.13	4.29	61		60	

F.R.V. "Derwent Hunter"
Cruise 4

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1956 10.x	18/56	37°04' S. 150°05' E.	0	14.97	19.57	35.35
			30	14.94	19.57	35.35
			62	12.51	19.48	35.19
10.x	19/56	37°07' S. 150°23' E.	0	15.30	19.62	35.44
			24	15.00	19.62	35.44
			47	14.60	19.60	35.41
			71	13.25	19.50	35.23
			94	12.96	19.49	35.21
			141	12.10	19.43	35.10
			188	11.69	19.40	35.05
			282	10.11	19.27	34.81
			469	8.51	19.16	34.61
11.x	20/56	38°07' S. 150°25' E.	0	15.50	19.64	35.48
			23	15.49	19.63	35.46
			46	15.35	19.63	35.46
			70	15.30	19.64	35.48
			93	15.20	19.61	35.43
			140	14.59	19.60	35.41
			187	13.68	19.53	35.28
			280	11.75	19.38	35.01
			468	9.22	19.20	34.69
			702	7.08	19.10	34.51
936	5.35	19.08	34.47			
11.x	21/56	38°50' S. 150°52' E.	0	15.04	19.62	35.44
			15	15.04	19.62	35.44
			29	14.98	19.61	35.43
			43	15.00	19.61	35.43
			57	14.83	19.60	35.41
			84	14.02	19.54	35.30
			120	13.61	19.51	35.25
			132	12.29		

F.R.V. "Derwent Hunter"
Cruise 4

σ_t	O ₂	O ₂ %	pH	Total P	NO ₃ N
26.27	5.34	92		12	
26.27	5.81	100		14	
26.65	5.13	84		17	
26.26	5.17	89		11	
26.32	5.23	90		13	
26.39	5.02	86		12	
26.54				15	
26.59	5.02	83		17	
26.67	4.79	78		24	
26.70				79	
26.81	4.45	72		79	
26.92	4.50	68		45	
26.24	5.37	93		17	
26.24	5.50	95		17	
26.27	5.37	93		18	
26.29	5.45	94		20	
26.27	5.45	94		15	
26.39	5.24	89		15	
26.48	5.55	93		23	
26.67	4.49	73		23	
26.85	3.40	52		43	
27.04	3.85	56		40	
27.24				45	
26.32	5.69	98		16	
26.32	5.57	96		14	
26.32	5.62	97		17	
26.31	5.93	102		18	
26.34	5.69	97		14	
26.43	5.47	92		17	
26.47	5.34	89		18	

F.R.V. "Derwent Hunter"
Cruise 4

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1956 13.x	22/56	38°34' S. 149°30' E.	0	15.00	19.62	35.44
			25	15.00	19.63	35.46
			50	15.00	19.64	35.48
			77	14.90	19.62	35.44
			102	14.90	19.62	35.44
			154	13.57	19.50	35.23
			204	12.87	19.47	35.17
			306	12.26	19.44	35.12
			510	9.93	19.30	34.87
			765	8.43	19.20	34.69
		1020	5.35	19.06	34.43	
13.x	23/56	38°28' S. 148°41' E.	0	15.19	19.61	35.43
			25	15.19	19.63	35.46
			50	15.10	19.62	35.44
			75	13.88	19.54	35.30
			102	13.27	19.50	35.23
			153	12.67	19.47	35.17
			204	12.07	19.43	35.10
			306	11.06	19.35	34.96
13.x	24/56	38°45' S. 147°31' E.	0	13.55		
			25	12.90	19.74	35.66
			51	12.90	19.72	35.62
14.x	25/56	39°14' S. 147°27' E.	0	12.80	19.64	35.48
			25	12.40	19.61	35.43
			51	12.60	19.71	35.61
14.x	27/56	39°26' S. 146°37' E.	0	12.90	19.70	35.59
			21	12.90	19.70	35.59
			42	12.90	19.68	35.55
15.x	28/56	39°48' S. 146°09' E.	0	13.00	19.71	35.61
			27	13.00	19.71	35.61
			53	13.00	19.71	35.61

F.R.V. "Derwent Hunter"
Cruise 4

σ_t	O ₂	O ₂ ‰	pH	Total P	NO ₃ N
26.32	5.57	96		17	
26.34	5.69	98		13	
26.35	5.62	97		13	
26.35	5.76	99		17	
26.35	5.52	95		19	
26.47	5.13	86		22	
26.57	5.30	87		22	
26.65	5.07	83		19	
26.88	4.94	77		33	
26.98	4.72	71		46	
27.21	4.22	60		46	
26.27	4.40	76		15	
26.30	5.37	93		11	
26.30	5.45	94		16	
26.46	4.62	78		13	
26.53	4.96	83		21	
26.61	4.85	80		22	
26.67	5.37	87		17	
26.75	5.11	82		27	
	5.93				
26.94	5.22	87		11	
26.92	5.62	93		11	
26.82	5.76	95		11	
26.86	5.76	95		12	
26.96	5.70	94		12	
26.89	5.12	85		12	
26.89	5.37	89		16	
26.86	5.60	93		14	
26.88	5.52	92		17	
26.88	5.22	87		18	
26.88	5.88	98		12	

F.R.V. "Derwent Hunter"
Cruise 4

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1956						
15.x	29/56	40°25' S. 146°14' E.	0 32 64	12.58 12.60 12.39	19.66 19.66 19.66	35.52 35.52 35.52
16.x	30/56	40°27' S. 146°52' E.	0 31 62	12.34 12.39 11.89	19.55 19.56 19.60	35.32 35.34 35.41
16.x	31/56	40°27' S. 147°32' E.	0 25	12.75 12.60	19.50 19.52	35.23 35.26
16.x	32/56	39°59' S. 147°03' E.	0 32 63	13.00 12.60 12.39	19.70 19.70 19.70	35.59 35.59 35.59
17.x	33/56	41°00' S. 146°45' E.	0 31	12.90 12.20	19.13 19.43	34.56 35.10
18.x	34/56	40°55' S. 145°55' E.	0 41	12.60 11.80	19.31 19.58	34.88 35.37
18.x	35/56	40°33' S. 145°27' E.	0 31	12.40 12.00	19.45 19.48	35.14 35.19
19.x	37/56	39°21' S. 144°38' E.	0 27 53	13.10 13.10 13.20	19.68 19.70 19.69	35.55 35.59 35.57
20.x	38/56	38°57' S. 143°34' E.	0 32	13.30 13.30	19.61 19.62	35.43 35.44
20.x	39/56	39°20' S. 143°32' E.	0 26 52 83	13.46 13.30 13.30 13.20	19.69 19.68 19.68 19.71	35.57 35.55 35.55 35.61
21.x	41/56	38°30' S. 142°16' E.	0 31	13.10 13.10	19.57 19.56	35.35 35.34

F.R.V. "Derwent Hunter"
Cruise 4°

σ_t	O ₂	O ₂ ‰	pH	Total P	NO ₃ N
26.89	5.76	95		12	
26.89	5.82	96		15	
26.93	6.12	100		17	
26.78	6.03	99		13	
26.79	6.03	99		9	
26.95	6.88	95		9	
26.64	4.45	73		11	
26.70	5.82	96		14	
26.86	5.62	93		11	
26.94	5.88	97		12	
26.99	5.99	98		14	
26.09	5.50	90		12	
26.65	5.37	88		15	
26.40	5.88	97		11	
26.94	5.52	89		16	
26.64	5.52	90		18	
26.75	5.88	96		15	
26.81	5.88	98		15	
26.84	5.99	100		15	
26.81	5.93	99		18	
26.68	5.93	99		12	
26.69	5.57	93		18	
26.76	5.37	90		13	
26.77	5.65	94		13	
26.77	5.60	93		13	
26.84	5.70	95		11	
26.66	5.93	99		14	
26.65	5.69	95		14	

F.R.V. "Derwent Hunter"
Cruise 4

Date	Station	Position	Depth. (m)	Temp. °C	Cl ‰	S ‰
1956 21.x	42/56	39°07' S. 142°09' E.	0	13.00	19.57	35.35
			21	13.00	19.59	35.39
			40	13.00	19.58	35.37
			63	13.00	19.58	35.37
			84	13.00	19.57	35.35
			126	13.00	19.58	35.37
			168	13.00	19.58	35.37
			252	12.60	19.53	35.28
			422	10.05	19.29	34.85
21.x	43/56	39°55' S. 143°10' E.	0	12.70	19.56	35.34
			25	12.80	19.57	35.35
			50	12.80	19.58	35.37
			74	12.80	19.57	35.35
			90	12.80	19.57	35.35
			132	12.81	19.57	35.35
			177	12.81	19.57	35.35
			265	12.70	19.56	35.34
			442	9.34	19.21	34.70
22.x	44/56	40°34' S. 143°50' E.	0	12.75	19.60	35.41
			26	12.80	19.59	35.39
			52	12.80	19.58	35.37
			79	12.80	19.58	35.37
22.x	46/56	40°09' S. 144°54' E.	0	12.55	19.37	34.99
			25	12.30	19.37	34.99
23.x	47/56	39°10' S. 145°39' E.	0	13.47	19.66	35.52
			25	13.41	19.68	35.55
			50	13.00	19.68	35.55

F.R.V. "Derwent Hunter"
Cruise 4

σ_t	O ₂	O ₂ %	pH	Total P	NO ₃ N
26.68	5.88	98		16	
26.71	6.21	103		21	
26.70	6.03	100		17	
26.70	6.03	100		17	
26.68	6.27	104		13	
26.70	5.93	98		15	
26.70	5.99	99		17	
26.70	6.03	99		20	
26.84	5.81	91		30	
26.73	4.86	80		21	
26.72	5.81	96		23	
26.74	5.88	97		19	
26.72	5.52	91		19	
26.72	5.57	92		19	
26.72	5.01	83		19	
26.72	5.76	95		19	
26.73	5.60	92		32	
26.85	5.60	86		40	
26.78	5.88	97		11	
26.75	5.76	95		12	
26.74	5.76	95		12	
26.74	5.76	95		15	
26.49	5.76	94		12	
26.54	5.94	97		11	
26.71	4.79	80		15	
26.75	5.17	86		18	
26.83	4.35	72		14	

OCEANOGRAPHICAL STATION LISTS

1. Hydrological and planktological observations by F.R.V. *Warreen* in south-eastern Australian waters, 1938-39
2. Hydrological and planktological observations by F.R.V. *Warreen* in south-eastern Australian waters, 1940-42
3. Hydrological and planktological observations by F.R.V. *Warreen* in south-western Australian waters, 1947-50
4. *Onshore hydrological investigations in eastern Australia, 1942-50*
5. Estuarine hydrological investigations in eastern Australia, 1940-50. Queensland: Nerang and Coomera Rivers, Moreton Bay and Brisbane River, Logan River, Dunwich Oyster Lease; New South Wales: Richmond River, Clarence River, Macleay River, Hastings River, Manning River, Port Stephens, Tilligerry Creek, Hawkesbury River
6. Estuarine hydrological investigations in eastern Australia, 1940-50. New South Wales: Middle Harbour and Port Jackson, Georges River-Botany Bay
7. Estuarine hydrological investigations in eastern Australia, 1940-50. New South Wales: Port Hacking, Lake Illawarra, Shoalhaven River, Jervis Bay, Clyde River, Moruya River, Tuross River, Wagonga Inlet; Victoria: Port Phillip; Tasmania: Tamar River, Derwent River, Huon River, D'Entrecasteaux Channel, Pittwater, Lake Dobson (freshwater), Penna Dam (freshwater)
8. Hydrological investigations in south-western Australia, 1944-50
9. Records of twenty-four hourly hydrological observations at selected stations in eastern Australian estuarine systems, 1942-50. Queensland: Logan River; New South Wales: Richmond River, Clarence River, Macleay River, Hastings River, Manning River, Port Stephens, Hawkesbury River, Georges River, Port Hacking, Clyde River, Tuross River; Tasmania: Tamar River, Derwent River
10. Records of twenty-four hourly hydrological observations at Shell Point, Georges River, New South Wales, 1942-50
11. Analyses of bottom deposits in eastern Australia, 1946-50
12. Estuarine hydrological investigations in eastern and south-western Australia, 1951
13. Analysis of bottom deposits in eastern and south-western Australia, 1951 and records of twenty-four hourly hydrological observations at selected stations in eastern Australian estuarine systems, 1951
14. Onshore hydrological investigations in eastern and south-western Australia, 1951
15. Estuarine hydrological investigations in eastern and south-western Australia, 1952
16. Analysis of bottom deposits in eastern and south-western Australia, 1952 and records of twenty-four hourly hydrological observations at selected stations in eastern Australian estuarine systems, 1952
17. Onshore hydrological investigations in eastern and south-western Australia, 1952
18. Onshore hydrological investigations in eastern and south-western Australia, 1953
19. Onshore planktological investigations in eastern Australia, 1945-54
20. Surface sampling in the Tasman Sea, 1953
21. Estuarine hydrological investigations in eastern and south-western Australia, 1953
22. Further onshore planktological investigations in eastern Australia, 1945-54
23. Planktological investigations made by F.R.V. *Derwent Hunter* in eastern Australian waters, 1952-54
24. Onshore hydrological investigations in eastern and south-western Australia, 1954
25. Surface sampling in the Tasman Sea, 1954
26. Estuarine hydrological investigations in eastern and south-western Australia, 1954
27. Onshore and oceanic hydrological investigations in eastern and south-western Australia, 1955
28. Surface sampling in the Tasman and Coral Seas, 1955

OCEANOGRAPHICAL STATION LISTS

(Continued)

29. Estuarine hydrological investigations in eastern and south-western Australia, 1955
30. Onshore and oceanic hydrological investigations in eastern and south-western Australia,
1956