

OCEANOGRAPHICAL STATION LIST

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

Volume 24

Onshore Hydrological Investigations in
Eastern and South-western Australia, 1954

Compiled by *D. J. Rochford*

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH
ORGANIZATION, AUSTRALIA
MELBOURNE 1956

OCEANOGRAPHICAL STATION LIST

ONSHORE HYDROLOGICAL INVESTIGATIONS IN EASTERN AND SOUTH-WESTERN
AUSTRALIA, 1954

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I. INTRODUCTION

In this volume the results of the analyses of coastal waters in eastern and south-western Australia during 1954 are given.

The oceanographical data collected by F.R.V. *Derwent Hunter* on a series of special cruises in the south-west Tasman Sea and Bass Strait during 1954 are also given.

Included in this volume also are the surface temperature and chlorinity of water samples collected by T.S.S. *Taroona* on monthly passages from Melbourne to Launceston during 1954.

The results of slope water sampling off Eden in March 1954 by H.M.A.S. *Warrego* are included.

II. METHODS AND UNITS

The methods and units are those given by Rochford (1951). The temperatures observed on the special cruises of F.R.V. *Derwent Hunter* have been corrected for pressure effect, and except on cruise 9 part 2 true depths have been calculated by use of unprotected thermometers.

III. PERSONNEL

The overall planning and execution of the coastal and oceanic programme have been the responsibility of Mr. D. J. Rochford. Messrs. R. Spencer, H. Jitts, A. Middleton, A. B. Jack, P. Davis, and C. Walker and the laboratory staff at Cronulla, Perth, and Hobart have been concerned with the laboratory analysis. Field collections have been carried out by Messrs. K. Champion, C. Wirrell, G. Kitchen, and C. Heath.

The T.S.S. *Taroona* samplings have been made by the engineer officers, to whom our thanks are due. R.A.N. officers carried out the sampling from H.M.A.S. *Warrego* and grateful acknowledgment is made of this service.

Misses O. Jacobsen, J. Pincombe, S. Walden, and E. Mayman have been responsible for the considerable work involved in the processing of the data and for the preparation of the typed data sheets prior to printing.

IV. REFERENCE

ROCHFORD, D. J. (1951).—Onshore hydrological investigations in eastern Australia, 1942-50. C.S.I.R.O. Aust. Div. Fish. Oceanogr. Sta. List 4: 4.



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	PO ₄ -P	NO ₃ -N
1954									
23.i	0	23.20	19.66	24.28	4.92	97	8.17	5-6-0	1
	10	22.40	19.63	24.47	4.77	93	8.15	5-6-0	21
	20	20.20	19.62	25.06	4.31	81	8.11	9-2-2	53
	30	19.00	19.63	25.39	4.16	77	8.09	14-8-1	87
	40	17.70	19.60	25.68	4.00	74	8.13	18-3-5	137
	50	17.80	19.60	25.65	4.03	75	8.20	15-2-6	97
7.iii	0	24.80	17.29	20.59	5.26	104	8.18	4-9-0	0
	10	24.70	18.34	22.04	5.03	100	8.17	6-7-48	3
	20	24.60	18.59	22.42	5.20	104	8.17	4-9-0	5
	30	24.20	18.60	22.54	4.87	97	8.17	4-4-0	5
	40	23.70	18.80	22.96	4.32	85	8.14	25-0-	22
	50	23.70	18.86	23.05	4.44	88	8.16	31 20-0- 24	25
4.iv	0	25.00	19.58	23.65	5.22	106	8.24	0-10-0	9
	10	24.00	19.59	23.96	5.17	103	8.21	4-7-0	8
	20	23.00	19.60	24.26	4.78	94	8.18	9-3-4	28
	30	22.80	19.60	24.32	4.57	90	8.16	8-8-0	13
	40	22.80	19.60	24.32	4.57	90	8.10	8-4-4	10
	50	22.40	19.60	24.43	4.45	87	8.02	8-7-2	30
22.v	0	22.40	19.51	24.31	5.26	102	8.10	6-6-0	0
	10	22.40	19.52	24.33	5.29	103	8.15	6-3-1	0
	20	22.40	19.45	24.23	5.24	102	8.18	6-6-0	0
	30	22.40	19.48	24.27	5.33	104	8.20	7-5-3	0
	40	22.40	19.52	24.33	5.26	102	8.14	7-8-1	0
	50	22.40	19.55	24.36	5.24	102	8.09	9-6-0	10
18.vi	0	20.40	19.65	25.06	4.77	90	8.19	5-11-0	50
	10	20.40	19.65	25.06	4.66	88	8.19	13-3-0	77
	20	20.40	19.64	25.04	4.58	86	8.16	13-4-0	83
	30	20.40	19.65	25.06	4.71	89	8.20	7-5-2	80
	40	20.20	19.61	25.05	4.77	89	8.19	13-1-6	57
	50	19.65	19.49	25.06	4.95	92	8.26	11-3- 24	94

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	PO ₄ -P	NO ₃ -N
1954									
25.vii	0	19.60	18.71	23.97	5.26	97	8.25	2-13-2	0
	10	18.80	18.73	24.20	5.43	99	8.30	1-12-5	0
	20	18.80	18.99	24.56	5.04	92	8.26	1-11-6	0
	30	20.00	19.57	25.05	4.52	84	8.25	12-2-4	0
	40	20.00	19.58	25.07	4.46	83	8.24	13-2-5	0
	50	20.00	19.58	25.07	4.42	83	8.23	15-1-13	0
21.viii	0	19.80	19.37	24.83	5.28	98	8.26	4-6-6	7
	10	19.40	19.37	24.93	5.35	99	8.25	6-4-1	7
	20	19.40	19.44	25.03	5.03	93	8.25	7-7-1	9
	30	19.40	19.56	25.20	4.59	85	8.22	11-6-0	17
	40	20.00	19.57	25.05	4.34	81	8.20	11-12-15	20
	50	20.00	19.56	25.04	4.34	81	8.16	16-9-20	33
24.ix	0	20.60	19.53	24.83	5.35	101	8.20	5-20-4	59
	10	20.70	19.57	24.86	5.35	101	8.21	7-0-4	7
	20	20.60	19.56	24.88	5.35	101	8.20	7-5-3	4
	30	20.50	19.55	24.89	5.19	98	8.19	5-2-9	5
	40	20.10	19.55	24.99	5.07	95	8.18	6-3-62	1
	50	20.00	19.55	25.02	4.92	92	8.18	13-0-0	16
21.x	0	19.40	19.57	25.21	5.45	101	8.20	8-0-2	13
	10	19.20	19.57	25.26	5.55	103	8.16	7-3-9	29
	20	17.90	19.56	25.57	5.35	97	8.14	12-0-5	63
	30	17.40	19.53	25.65	5.55	99	8.15	14-0-12	93
	40	17.20	19.51	25.67	4.74	84	8.16	11-10-1	73
	50	17.20	19.51	25.67	4.57	81	8.16	14-7-7	96
10.xii	0	23.00	19.65	24.33	5.18	102	8.15	6-11-0	
	10	22.50	19.65	24.48	5.18	101	8.15	11-2-0	
	20	22.00	19.64	24.60	5.20	101	8.17	3-6-2	
	30	20.20	19.64	25.09	5.30	100	8.13	5-8-2	
	40	18.80	19.64	25.45	4.61	85	8.12	7-12-1	
	50	18.60	19.64	25.50	4.38	80	8.10	10-9-3	

Station: COFF'S HARBOUR

Latitude: 30°17' S.

Longitude: 150°16' E.

Date	Depth (m.)	Temp. °C.	Cl °/oo	σ _t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1954 25.i	0	25.20	19.64	23.66	4.92	101	8.18	0-7	0
	10	24.90	19.65	23.77	4.87	99	8.16	1-8	0
	20	24.40	19.65	23.92	4.84	98	8.17	1-7	0
	30	23.00	19.65	24.33	4.77	94	8.16	3-10	1
	40	21.50	19.68	24.79	4.87	93	8.13	3-8	3
	50	20.20	19.68	25.14	4.13	78	8.14	12-6	33
8.iii	0	24.80	19.35	23.39	4.84	98	8.20	6-5	0
	10	24.50	19.35	23.48	4.75	95	8.20	5-8	1
	20	23.20	19.31	23.81	4.38	86	8.12	10-9	25
	30	21.70	19.45	24.43	3.95	76	8.10	16-7	25
	40	20.00	19.55	25.02	3.78	71	8.08	17-11	92
	50	19.70	19.54	25.05	3.54	66	8.07	18-9	106
1.iv	0	24.60	19.52	23.69	5.16	104	8.19	3-2	25
	10	24.60	19.54	23.71	5.22	105	8.13	3-3	7
	20	24.60	19.53	23.69	5.22	105	8.20	3-0	7
	30	23.50	19.51	23.99	5.26	104	8.20	3-5	6
	40	23.20	19.55	24.13	5.29	104	8.21	5-0	5
	50	22.90	19.55	24.22	5.22	103	8.20	4-4	9
20.v	0	23.80	19.54	23.95	5.33	106	8.15	7-0	0
	10	23.10	19.55	24.16	5.33	105	8.18	5-3	0
	20	23.00	19.55	24.19	5.29	104	8.17	5-3	21
	30	22.60	19.55	24.31	5.33	104	8.10	5-1	0
	40	22.50	19.58	24.38	5.29	103	8.06	4-2	5
	50	22.10	19.59	24.51	4.83	93	7.91	8-1	35
19.vi	0	21.30	19.52	24.63	5.22	100	8.20	7-3	90
	10	21.20	19.56	24.72	5.24	100	8.20	7-15	9
	20	21.20	19.58	24.75	5.16	98	8.18	7-5	27
	30	21.20	19.59	24.76	5.19	99	8.17	4-6	17
	40	20.80	19.59	24.87	5.22	99	8.25	6-8	16
	50	20.60	19.60	24.93	5.22	98	8.22	7-4	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	PO ₄ -P	NO ₃ -N
1954									
26.vii	0	19.00	19.02	24.55	5.40	99	8.22	5-6	0
	10	18.80	19.25	24.92	5.33	97	8.35	3-6	0
	20	18.80	19.47	25.22	5.33	98	8.32	3-7	0
	30	19.60	19.54	25.11	5.17	96	8.26	4-13	0
	40	20.10	19.56	25.01	4.99	93	8.10	5-15	47
	50	19.00	19.56	25.30	4.43	82	8.28	6-16	4
19.viii	0	18.80	19.51	25.27	5.24	96	8.28	6-4	21
	10	18.80	19.53	25.30	5.28	97	8.28	7-5	24
	20	18.80	19.51	25.27	5.24	96	8.25	8-17	20
	30	18.80	19.49	25.25	5.31	97	8.20	5-8	17
	40	18.80	19.51	25.27	5.31	97	8.12	5-9	20
	50	18.80	19.53	25.30	5.28	97	8.01	3-11	26
26.ix	0	20.70	19.52	24.80	5.35	101	8.24	6-9	0
	10	20.70	19.54	24.82	5.30	100	8.23	4-8	0
	20	20.60	19.54	24.85	5.16	97	8.23	8-10	0
	30	20.00	19.50	24.95	4.64	87	8.20	5-6	0
	40	19.50	19.56	25.17	4.63	86	8.18	8-11	7
	50	19.20	19.58	25.28	4.53	84	8.17	11-7	14
23.x	0	20.60	19.63	24.97	5.82	110	8.23	4-16	7
	10	20.60	19.63	24.97	6.06	115	8.23	5-6	7
	20	20.60	19.63	24.97	5.82	110	8.21	4-9	10
	30	20.50	19.63	25.00	5.76	109	8.21	14-0	7
	40	20.20	19.63	25.08	5.76	108	8.18	5-6	16
	50	19.10	19.63	25.37	4.86	90	8.15	8-12	81
9.xii	0	24.30	19.66	23.96	4.84	97	8.10	0	
	10	23.80	19.65	24.10	4.84	96	8.13	0-15	
	20	22.70	19.66	24.43	4.90	96	8.13	2-11	
	30	20.60	19.66	25.01	4.47	84	8.12	4-7	
	40	18.70	19.71	25.58	4.11	76	8.07	6-0	
	50	17.80	19.66	25.73	4.01	73	8.11	6-1	

ation: 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
1954									
7.1	0	21.00			5.80		8.13		
	10	18.80			4.76		8.06	22-0-4	
	20	18.80	19.45	25.20	4.49	82	8.03	22-10-0	153
	30	18.00	19.40	25.32	4.54	82	8.05	23-9-0	160
	40	18.00	19.40	25.32	4.57	83	8.11	24-7-0	182
	50	17.80	19.41	25.39	4.57	82	8.07	24-3-0	180
3.111	0	24.60	17.61	21.08	4.94	98	8.22	4-0-6	21
	10	25.00	18.81	22.60	4.94	99	8.20	4-0-0	8
	20	24.60	18.91	22.85	4.94	99	8.19	5-0-8	11
	30	22.50	19.58	24.38	4.32	84	8.16	12-6-0	30
	40	21.00	19.44	24.60	4.13	78	8.16	14-1-4	30
	50	21.00	19.51	24.70	4.03	76	8.15	14-1-0	28
1.111	0	23.80	19.50	23.89	6.78	135	8.17	5-5-0	3
	10	23.80	19.50	23.89	5.83	116	8.20	3-6-3	5
	20	23.80	19.51	23.90	6.11	121	8.17	5-6-0	3
	30	23.80	19.52	23.92	6.11	121	8.20	3-5-5	5
	40	23.60	19.52	23.98	5.55	110	8.19	0-10-6	5
	50	23.60	19.50	23.95	5.78	115	8.14	0-16-0	7
8.v	0	22.80	19.58	24.30	5.29	104	8.07	6-5-1	3
	10	22.60	19.58	24.36	5.26	103	8.06	4-5-0	5
	20	22.60	19.59	24.37	5.24	102	8.06	5-9-0	6
	30	22.60	19.58	24.36	5.24	102	8.03	5-5-2	5
	40	22.40	19.58	24.41	5.16	101	8.04	6-6-0	9
	50	22.00	19.56	24.50	5.03	97	8.05	6-8-0	5
10.vi	0	19.20	19.59	25.29	4.88	90	8.13	10-0-3	30
	10	19.20	19.58	25.28	4.77	88	8.13	10-0-0	56
	20	19.20	19.61	25.31	4.74	88	8.13	12	62
	30	19.00	19.62	25.37	4.82	89	8.13	12-4-2	81
	40	19.00	19.60	25.35	4.58	84	8.13	12-2-2	80
	50	18.80	19.61	25.41	4.53	83	8.14	14-0-4	80

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
1954									
23.vii	0	19.00	19.62	25.37	5.20	96	8.28	13-0-3	149
	10	18.70	19.63	25.47	5.20	95	8.28	9-1-3	5
	20	18.60	19.63	25.49	5.04	92	8.28	13-2-0	25
	30	18.20	19.62	25.57	4.76	87	8.29	16-1-4	38
	40	17.70	19.62	25.70	4.25	77	8.24	14-7-0	8
	50	17.60	19.62	25.72	4.12	74	8.25	14-7-0	29
18.viii	0	18.80	19.48	25.23	5.32	98	8.28	11-10- 12	12
	10	18.80	19.49	25.25	5.24	96	8.28	9-18-0	21
	20	18.70	19.49	25.28	5.28	97	8.29	9-3-13	16
	30	18.80	19.49	25.25	5.21	95	8.30	8-0-31	21
	40	18.70	19.50	25.29	5.16	95	8.29	8-1-7	22
	50	18.00	19.57	25.56	4.32	78	8.28	10-0-5	33
27.ix	0	19.30	19.27	24.82	5.06	93	8.23	11-0- 12	16
	10	19.20	19.26	24.83	5.07	93	8.23	9-10-3	17
	20	19.40	19.32	24.86	5.20	96	8.23	10-18- 7	22
	30	19.50	19.47	25.05	4.76	88	8.20	8-24-3	26
	40	18.90	19.48	25.21	4.76	88	8.20	13-16- 0	19
	50	18.20	19.41	25.29	4.90	89	8.21	12-10- 1	4
25.x	0	22.20	19.64	24.54	5.02	97	8.25	2-0-0	7
	10	22.20	19.63	24.53	4.92	95	8.25	3-0-3	9
	20	22.20	19.63	24.53	5.04	98	8.25	5-0-3	8
	30	22.20	19.63	24.53	5.02	97	8.25	1-5-1	13
	40	22.20	19.62	24.51	5.02	97	8.24	2-0-0	11
	50	21.40	19.61	24.72	4.86	93	8.23	3-0-8	23

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
1954									
8.xii	0	21.80	19.66	24.68			8.14	3-12-0	
	10	19.70	19.66	25.25	4.81	90	8.12	8-11-3	
	20	18.20	19.67	25.65	4.54	83	8.13	12-0-	
	30	18.20	19.65	25.62	4.54	83	8.12	10-14-	
								0	
	40	18.20	19.65	25.62	4.54	83	8.08	12-7-6	
	50	18.20	19.64	25.60	4.52	82	8.09	10-9-1	

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
1954									
12.1	0	21.05	19.66	24.89	5.21	99		5-7	0
	10	20.90	19.67	24.94	5.25	100		3-9	2
	20	21.00	19.67	24.92	5.30	101		3-9	2
	30	20.70	19.69	25.03	5.33	101		3-16	0
	40	20.25	19.64	25.08	5.16	97		9-6	0
	50	19.10	19.66	25.41	4.67	86		10-10	8
19.1	0	22.00	19.64	24.60	5.19	100	8.17	2-4	0
	10	21.10	19.65	24.87	5.13	98	8.17	4-5	2
	20	15.70	19.58	26.13	4.42	77	8.17	15-2	65
	30	14.20	19.51	26.35	4.42	75	8.19	22-5	100
	40	13.80	19.49	26.41	4.42	74	8.20	21-0	90
	50	13.80	19.49	26.41	4.37	73	8.21	22-6	101
1.111	0	23.20	18.23	22.33	5.16	100	8.20	5-6	13
	10	22.70	19.25	23.87	5.29	103	8.21	3-17	7
	20	22.00	19.45	24.35	5.11	98	8.20	9-3	6
	30	22.00	19.50	24.41	4.96	96	8.19	13-0	0
	40	21.70	19.49	24.48	4.94	95	8.20	10-0	2
	50	21.20	19.54	24.69	4.75	90	8.20	11-5	11
29.111	0	22.60	19.42	24.13	6.26	122	8.19	1-7	3
	10	22.50	19.48	24.24	6.26	122	8.19	0-8	14
	20	22.30	19.46	24.27	6.39	124	8.11	4-2	6
	30	21.20	19.54	24.69	5.99	114	8.18	3-7	15
	40	20.20	19.62	25.06	5.69	107	8.17	5-8	16
	50	19.80	19.64	25.19	5.55	104	8.15	7-7	37
25.v	0	19.00	19.67	25.45	5.29	98	8.04	7-1	10
	10	19.00	19.68	25.46	5.24	97	8.04	6-3	16
	20	19.00	19.68	25.46	5.24	97	8.04	7-3	13
	30	18.40	19.68	25.61	5.24	96	8.05	8-1	11
	40	18.20	19.68	25.66	5.26	96	8.00	9-2	15
	50	18.20	19.69	25.68	5.54	101	8.00	10-1	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
1954									
22.vi	0	18.60	19.66	25.53	5.70	105	8.18	3-7	34
	10	18.10	19.67	25.67	5.65	102	8.14	7-4	40
	20	18.00	19.68	25.71	5.56	101	8.14	7-7	53
	30	18.00	19.67	25.70	5.45	99	8.14	8-4	57
	40	17.80	19.67	25.75	5.36	97	8.15	8-5	86
	50	17.60	19.66	25.78	5.45	98	8.15	10-6	38
22.vii	0	18.60	19.63	25.49	5.20	95	8.28	3-7	0
	10	18.60	19.62	25.47	5.20	95	8.32	7-3	0
	20	18.60	19.62	25.47	5.20	95	8.30	6-5	32
	30	18.60	19.62	25.47	5.18	95	8.30	6-6	50
	40	18.00	19.60	25.60	5.15	93	8.29	6-8	34
	50	17.50	19.56	25.67	5.08	91	8.25	6-8	15
16.viii	0	18.20	19.59	25.54	5.41	98	8.27	4-4	17
	10	18.00	19.59	25.59	5.28	96	8.26	6-4	15
	20	17.90	19.58	25.60	5.44	98	8.31	6-4	14
	30	17.60	19.58	25.68	5.19	93	8.19	8-9	30
	40	16.90	19.57	25.83	5.16	92	8.19	8-11	34
	50	16.70	19.58	25.89	5.19	92	8.62	11-2	32
28.ix	0	18.20	18.58	24.14	5.66	101	8.24	3-11	4
	10	19.90	19.48	24.95	5.40	101	8.23	4-3	0
	20	19.30	19.50	25.14	5.55	103	8.20	4-6	0
	30	19.00	19.50	25.21	5.47	101	8.20	5-4	1
	40	17.70	19.54	25.59	5.30	95	8.16	9-3	15
	50	17.10	19.55	25.75	5.07	90	8.16	13-2	22
26.x	0	18.50	19.53	25.38	5.75	105	8.22	7-20	17
	10	17.80	19.52	25.54	5.44	98	8.20	9-9	13
	20	17.30	19.52	25.67	5.56	99	8.20	13-0	28
	30	16.90	19.52	25.76	5.49	97	8.16	14-9	61
	40	16.70	19.52	25.81	5.39	95	8.17	15-4	58
	50	16.20	19.52	25.94	5.06	89	8.17	18-10	79

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
1954 29.vi	0	15.80	19.65	26.20	7.20	125	8.11	10-4	12
	10	15.90	19.68	26.21	6.73	117	8.09	6-6	15
	20	15.80	19.65	26.20	6.94	121	8.11	4-9	20
	30	15.80	19.66	26.21	6.75	118	8.10	5-9	15
	40	15.90	19.66	26.18	6.56	114	8.10	3-8	19
	50	15.60	19.68	26.28	6.20	108	8.08	5-6	13
16.ix	0	16.00	19.59	26.07	6.25	109	8.32	4-11	
	10	15.80	19.60	26.13	6.18	108	8.29	4-8	
	20	15.60	19.59	26.16	6.18	107	8.28	3-9	
	30	15.40	19.59	26.20	6.25	108	8.26	6-7	
	40	14.60	19.60	26.39	5.82	99	8.23	9-9	
	50	14.50	19.58	26.39	5.76	98	8.23	12-4	
11.x	0	17.90	19.59	25.61	5.63	102	8.23	6-9	0
	10	17.30	19.59	25.76	6.00	107	8.23	4-5	0
	20	16.40	19.59	25.97	5.78	102	8.20	5-7	0
	30	15.20	19.58	26.24	3.87	67	8.16	14-12	26
	40	14.80	19.58	26.33	4.72	84	8.13	13-6	44
	50	14.20	19.57	26.43	4.05	69	8.22	14-1	19
8.xi	0	20.20	18.81	23.96	5.45	101	8.15	5-39	10
	10	19.60	19.43	24.96	5.37	100	8.11	4-28	3
	20	18.20	19.48	25.39	4.91	89	8.26	12-3	26
	30	18.20	19.49	25.41	4.91	89	8.23	9-26	23
	40	17.30	19.43	25.64	5.23	93	8.29	6-17	8
	50	17.00	19.49	25.70	5.55	99	8.21	14-6	38
9.xii	0	21.00	19.61	24.83	5.15	98	8.25	2-9	
	10	20.60	19.59	24.92	5.15	97	8.22	1-16	
	20	20.60	19.55	24.86	5.11	96	8.19	5-13	
	30	19.80	19.54	25.06	5.02	94	8.18	6-6	
	40	19.10	19.54	25.24	4.88	90	8.17	7-6	
	50	16.00	19.53	25.98	4.06	71	8.14	17-3	

ation: 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
1954 8.i	0	21.60	19.69	24.78	5.26	101	8.19	4-0-0	26
	10	20.20	19.66	25.12	5.27	99	8.20	5-0-0	35
	20	20.10	19.65	25.14	5.32	100	8.21	4-0-2	35
	30	20.00	19.66	25.17	5.22	98	8.20	4-0-0	21
	40	20.00	19.66	25.17	5.30	99	8.20	3-0-3	26
	50	20.00	19.67	25.19	5.18	97	8.21	5-5-0	21
3.i	0	20.90	19.65	24.92	5.34	101	8.09	5-7-0	6
	10	20.70	19.66	24.98	5.28	100	8.12	3-9-0	0
	20	20.50	19.65	25.03	5.20	98	8.07	8-10-0	5
	30	19.70	19.65	25.24	4.86	91	8.06	9-11-0	22
	40	19.40	19.67	25.34	5.04	94	8.09	11-11-0	22
	50	18.80	19.64	25.45	4.86	89	8.10	12-9-0	22
19.i	0	21.90	19.68	24.68	5.32	103	8.12	0-6-0	3
	10	20.80	19.66	24.96	5.52	105	8.15	2-12-0	0
	20	19.10	19.66	25.41	5.34	99	8.05	4-8-0	4
	30	17.20	19.63	25.84	4.68	84	8.12	12-1-4	41
	40	16.30	19.65	26.08	4.51	79	8.11	12-3-3	44
	50	16.00	19.65	26.15	4.38	77	8.10	18-2-4	60
4.ii	0	21.80	19.61	24.61	5.49	106	8.01	0-18-0	0
	10	21.60	19.64	24.71	5.49	106	8.01	0-14-0	0
	20	17.20	19.57	25.76	5.21	93	8.11	5-21-10	14
	30	16.00	19.59	26.07	4.54	79	8.17	14-12-3	56
	40	15.80	19.59	26.11	4.49	78	8.28	12-14-4	59
	50	15.60	19.63	26.21	4.52	78	8.28	9-14-2	57
9.ii	0	22.60	19.63	24.42	4.60	90	8.21	46-18-0	5
	10	22.60	19.66	24.46	4.96	97	8.17	3-4-4	13
	20	20.60	19.68	25.04	4.16	79	8.12	8-9-4	55
	30	18.90	19.65	25.45	4.03	74	8.14	11-2-0	68
	40	17.40	19.61	25.76	4.19	75	8.16	14-2-0	77
	50	16.60	19.59	25.93	4.09	72	8.16	17-0-0	77

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
1954									
29.vi	0	15.80	19.65	26.20	7.20	125	8.11	10-4	12
	10	15.90	19.68	26.21	6.73	117	8.09	6-6	15
	20	15.80	19.65	26.20	6.94	121	8.11	4-9	20
	30	15.80	19.66	26.21	6.75	118	8.10	5-9	15
	40	15.90	19.66	26.18	6.56	114	8.10	3-8	19
	50	15.60	19.68	26.28	6.20	108	8.08	5-6	13
16.ix	0	16.00	19.59	26.07	6.25	109	8.32	4-11	
	10	15.80	19.60	26.13	6.18	108	8.29	4-8	
	20	15.60	19.59	26.16	6.18	107	8.28	3-9	
	30	15.40	19.59	26.20	6.25	108	8.26	6-7	
	40	14.60	19.60	26.39	5.82	99	8.23	9-9	
	50	14.50	19.58	26.39	5.76	98	8.23	12-4	
11.x	0	17.90	19.59	25.61	5.63	102	8.23	6-9	0
	10	17.30	19.59	25.76	6.00	107	8.23	4-5	0
	20	16.40	19.59	25.97	5.78	102	8.20	5-7	0
	30	15.20	19.58	26.24	3.87	67	8.16	14-12	26
	40	14.80	19.58	26.33	4.72	84	8.13	13-6	44
	50	14.20	19.57	26.43	4.05	69	8.22	14-1	19
8.xi	0	20.20	18.81	23.96	5.45	101	8.15	5-39	10
	10	19.60	19.43	24.96	5.37	100	8.11	4-28	3
	20	18.20	19.48	25.39	4.91	89	8.26	12-3	26
	30	18.20	19.49	25.41	4.91	89	8.23	9-26	23
	40	17.30	19.43	25.64	5.23	93	8.29	6-17	8
	50	17.00	19.49	25.70	5.55	99	8.21	14-6	38
9.xii	0	21.00	19.61	24.83	5.15	98	8.25	2-9	
	10	20.60	19.59	24.92	5.15	97	8.22	1-16	
	20	20.60	19.55	24.86	5.11	96	8.19	5-13	
	30	19.80	19.54	25.06	5.02	94	8.18	6-6	
	40	19.10	19.54	25.24	4.88	90	8.17	7-6	
	50	16.00	19.53	25.98	4.06	71	8.14	17-3	

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
1954 8.1	0	21.60	19.69	24.78	5.26	101	8.19	4-0-0	26
	10	20.20	19.66	25.12	5.27	99	8.20	5-0-0	35
	20	20.10	19.65	25.14	5.32	100	8.21	4-0-2	35
	30	20.00	19.66	25.17	5.22	98	8.20	4-0-0	21
	40	20.00	19.66	25.17	5.30	99	8.20	3-0-3	26
	50	20.00	19.67	25.19	5.18	97	8.21	5-5-0	21
13.1	0	20.90	19.65	24.92	5.34	101	8.09	5-7-0	6
	10	20.70	19.66	24.98	5.28	100	8.12	3-9-0	0
	20	20.50	19.65	25.03	5.20	98	8.07	8-10-0	5
	30	19.70	19.65	25.24	4.86	91	8.06	9-11-0	22
	40	19.40	19.67	25.34	5.04	94	8.09	11-11-0	22
	50	18.80	19.64	25.45	4.86	89	8.10	12-9-0	22
19.1	0	21.90	19.68	24.68	5.32	103	8.12	0-6-0	3
	10	20.80	19.66	24.96	5.32	105	8.15	2-12-0	0
	20	19.10	19.66	25.41	5.34	99	8.05	4-8-0	4
	30	17.20	19.63	25.84	4.68	84	8.12	12-1-4	41
	40	16.30	19.65	26.08	4.51	79	8.11	12-3-3	44
	50	16.00	19.65	26.15	4.38	77	8.10	18-2-4	60
4.11	0	21.80	19.61	24.61	5.49	106	8.01	0-18-0	0
	10	21.60	19.64	24.71	5.49	106	8.01	0-14-0	0
	20	17.20	19.57	25.76	5.21	93	8.11	5-21-10	14
	30	16.00	19.59	26.07	4.54	79	8.17	14-12-3	56
	40	15.80	19.59	26.11	4.49	78	8.28	12-14-4	59
	50	15.60	19.63	26.21	4.52	78	8.28	9-14-2	57
9.11	0	22.60	19.63	24.42	4.60	90	8.21	46-18-0	5
	10	22.60	19.66	24.46	4.96	97	8.17	3-4-4	13
	20	20.60	19.68	25.04	4.16	79	8.12	8-9-4	55
	30	18.90	19.65	25.45	4.03	74	8.14	11-2-0	68
	40	17.40	19.61	25.76	4.19	75	8.16	14-2-0	77
	50	16.60	19.59	25.93	4.09	72	8.16	17-0-0	77

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
1954									
23.11	0	22.90	19.32	23.91	5.14	101	8.25	48-52-8	34
	10	22.50	19.63	24.45	5.55	108	8.25	4-18-0	8
	20	22.40	19.68	24.54	5.33	104	8.25	14-0-0	3
	30	22.40	19.66	24.51	5.35	104	8.24	13-0-2	11
	40	22.40	19.67	24.53	5.30	103	8.24	7-6-4	0
	50	22.40	19.68	24.54	5.26	103	8.24	7-15-0	0
4.111	0	23.10	18.96	23.29	5.30	104	8.17	23-19-1	0
	10	22.90	19.06	23.52	5.48	107	8.17	0-13-0	0
	20	22.30	19.53	24.36	4.96	96	8.18	0-9-5	0
	30	20.90	19.59	24.84	4.67	88	8.14	8-12-0	6
	40	19.00	19.61	25.36	4.37	81	8.22	13-10-0	62
	50	18.70	19.59	25.41	4.31	79	8.02	14-5-0	62
19.111	0	21.50	19.61	24.70	5.29	102	8.22	14-1-20	0
	10	21.30	19.62	24.76	5.36	102	8.23	4-15-1	0
	20	21.30	19.62	24.76	5.29	101	8.23	3-7-2	0
	30	20.70	19.62	24.92	5.11	97	8.21	6-5-1	6
	40	19.60	19.63	25.24	4.57	85	8.17	14-3-71	48
	50	19.00	19.63	25.39	4.52	83	8.12	12-5-0	13
24.111	0	21.60	19.65	24.73	5.20	100	8.22	10-10-6	10
	10	21.30	19.65	24.81	5.39	103	8.22	0-9-4	0
	20	21.30	19.65	24.81	5.27	101	8.22	0-13-1	0
	30	21.10	19.65	24.87	5.20	99	8.21	2-12-0	0
	40	20.80	19.63	24.92	5.15	98	8.21	3-11-1	9
	50	20.70	19.66	24.98	5.07	96	8.22	4-13-0	2

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
1954 1.1v	0	20.80	19.62	24.90	5.39	102	8.20	5-9-6	7
	10	20.60	19.66	25.01	5.45	103	8.21	5-13	6
	20	20.50	19.66	25.04	5.45	103	8.21	3-16-0	6
	30	20.40	19.65	25.06	5.39	102	8.22	5-9-2	5
	40	20.10	19.65	25.13	5.33	100	8.20	5-15-4	15
	50	19.80	19.66	25.22	5.35	100	8.18	7-10-1	12
8.1v	0	21.10	19.62	24.82	5.48	104	8.16	6-7-4	13
	10	20.60	19.62	24.95	5.20	98	8.14	6-8-0	12
	20	20.10	19.62	25.09	5.03	94	8.13	8-6-0	14
	30	19.90	19.62	25.14	5.03	94	8.13	8-6-0	12
	40	19.50	19.62	25.24	4.86	90	8.14	11-0-0	
	50	19.00	19.62	25.37	4.95	91	8.16	9-4-0	21
20.1v	0	20.10	19.65	25.14	5.53	104	8.23	8-5-8	8
	10	20.00	19.65	25.16	5.58	104	8.23	5-2-6	7
	20	20.00	19.67	25.19	5.50	103	8.24	6-4-7	10
	30	19.90	19.67	25.21	5.45	102	8.19	5-5-1	12
	40	19.80	19.66	25.22	5.39	101	8.14	7-0-3	16
	50	19.80	19.68	25.25	5.39	101	8.26	9-1-1	25
29.1v	0	19.90	19.66	25.20	5.61	105	8.27	5-6-4	10
	10	19.50	19.65	25.29	5.72	106	8.24	7-3-10	4
	20	19.30	19.65	25.34	5.30	98	8.16	7-11-0	11
	30	19.30	19.65	25.34	5.43	101	8.24	8-5-4	13
	40	18.80	19.65	25.47	5.19	95	8.28	9-10-0	7
	50	18.70	19.64	25.48	5.19	95	8.27	9-6-2	50
14.v	0	18.80	19.69	25.53	5.78	106		10-0-3	4
	10	18.70	19.70	25.56	5.61	103		7-4-3	0
	20	18.70	19.69	25.55	5.61	103		8-7-24	28
	30	18.70	19.67	25.52	5.65	104		8-4-2	7
	40	18.60	19.68	25.56	5.71	105		8-4-9	17
	50	18.60	19.67	25.55	5.67	104		7-4-2	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
1954 26.v	0	17.60	19.67	25.80	5.19	94		11-10- 11	49
	10	17.60	19.66	25.78	5.76	104		9-27-0	10
	20	17.70	19.68	25.78	5.76	104	8.23	7-9-5	12
	30	17.60	19.67	25.80	5.81	105	8.26	10-5-0	55
	40	17.50	19.67	25.82	5.78	104	8.27	8-5-0	18
	50	17.50	19.68	25.83	5.76	104	8.27	6-7-0	17
1.vi	0	17.70	19.69	25.80	5.58	101	8.12	7-7-0	12
	10	17.80	19.69	25.78	5.56	101	8.10	6-9	17
	20	17.70	19.68	25.78	5.53	100	8.12	6-11-0	9
	30	17.50	19.68	25.83	5.50	99	8.08	10-7-0	13
	40	17.00	19.68	25.95	5.13	91	8.08	10-12- 3	49
	50	16.90	19.67	25.96	5.12	91	8.09	11-14- 9	55
9.vi	0	16.80	19.65	25.96	5.77	102	8.14	8-3-4	10
	10	16.80	19.64	25.94	5.79	103	8.13	7-4-1	12
	20	16.70	19.68	26.02	5.71	101	8.12	8-6-1	11
	30	16.60	19.64	25.99	5.74	101		8-6-1	12
	40	16.70	19.67	26.01	5.71	101	8.15	8-6-1	12
	50	16.60	19.68	26.05	5.74	102	8.14	8-5-2	12
24.vi	0	15.80	19.67	26.22	5.93	103	8.14	11-1-0	21
	10	16.10	19.68	26.16	5.87	103	8.13	6-1-5	14
	20	16.10	19.68	26.16	5.99	105	8.18	7-3-0	18
	30	16.30	19.66	26.09	5.93	104	8.20	8-10-0	14
	40	16.00	19.66	26.16	5.93	104	8.19	8-0-4	10
	50	17.00	19.67	25.94	5.87	104	8.17	8-3-0	22
30.vi	0	15.90	19.69	26.23	6.45	113	7.92	8-12- 14	41
	10	15.70	19.69	26.27	6.40	111	7.94	10-0-0	43
	20	15.90	19.70	26.24	6.25	109	8.06	10-0-0	28
	30	15.70	19.70	26.28	6.39	112	8.06	7-0-0	43
	40	15.60	19.68	26.28	6.50	113	8.07	8-0-4	27
	50	15.60	19.69	26.30	6.46	112	8.13	7-0-6	22

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
1954									
21.vii	0	17.30	19.68	25.88	5.33	95		6-3-6	12
	10	17.40	19.64	25.80	5.40	97		8-2-3	16
	20	17.50	19.65	25.80	5.40	97		8-1-5	32
	30	17.50	19.65	25.80	5.37	96		8-3-4	13
	40	17.60	19.66	25.78	5.31	97		8-1-3	19
	50	16.30	19.58	25.99	5.26	92		9-0-0	31
10.viii	0		19.64		5.87			8-3-0	0
	10		19.64		5.88			9-1-8	6
	20		19.64		6.18			8-7-1	4
	30		19.63		5.24			9-6-2	0
	40		19.64		5.80			7-8-2	9
	50		19.64		5.83			10-5-3	9
3.ix	0	14.90	19.60	26.33	5.65	97	8.26	7-10-4	9
	10	14.80	19.60	26.35	5.55	95	8.22	8-8-0	9
	20	14.80	19.60	26.35	5.55	95	8.22	13-4-1	7
	30	14.90	19.60	26.33	5.60	96	8.22	9-9-4	11
	40	14.80	19.61	26.36	5.55	95	8.21	9-39-0	7
	50	14.80	19.60	26.35	5.55	95	8.21	13-5-0	12
16.ix	0	16.10	19.60	26.06	6.55	115	8.34	5-5-7	
	10	16.00	19.59	26.07	6.25	109	8.30	7-2-1	
	20	16.00	19.59	26.07	6.42	112	8.29	5-5-0	
	30	16.00	19.59	26.07	6.25	109	8.28	7-2-10	
	40	15.60	19.59	26.16	6.50	113	8.30	3-9-2	
	50	16.00	19.60	26.08	6.13	107	8.25	7-7-10	
24.ix	0	17.40	19.60	25.75	6.25	112	8.14	8-8-0	0
	10	17.00	19.60	25.85	6.27	112	8.18	6-9-4	1
	20	16.90	19.60	25.87	5.83	104	8.17	5-14-3	3
	30	16.80	19.60	25.89	6.25	111	8.18	5-13-0	2
	40	16.10	19.60	26.06	6.00	105	8.17	9-7-0	0
	50	15.60	19.59	26.16	5.72	99	8.16	10-11-8	0

CORRIGENDUM

Page 20. On 24.vi the temperature at 50 m depth should read 16.00 instead of 17.00 and the σ_t value should read 26.18 instead of 25.94.

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
1954									
1.x	0	18.00	19.64	25.65	4.74	86	8.17	6-4-3	7
	10	17.70	19.64	25.73			8.18	7-2-6	14
25	20	17.00	19.64	25.92	5.56	99	8.15	10-6-5	22
	30	16.80	19.62	25.91	5.32	94	8.14	13-4-0	33
	40	14.80	19.60	26.35	5.55	95	8.17	16-0-0	45
	50	14.80	19.59	26.34	5.16	88	8.16	14-6-2	74
11.x	0	18.00	19.64	25.65	5.89	107	8.34	7-8-22	0
	10	17.90	19.58	25.60	5.47	99	8.22	4-12-0	0
	20	17.50	19.58	25.70	6.44	115	8.19	6-9-3	0
26	30	15.60	19.57	26.13	5.30	92	8.18	10-9-6	8
	40	15.40	19.57	26.17	5.60	97	8.16	10-16-	11
								15	
	50	14.60	19.57	26.35	4.98	85	8.17	14-30-	38
								0	
26.x	0	17.30	19.55	25.70	5.86	105	8.19	4-4-2	21
	10	16.50	19.55	25.89	5.50	97	8.16	8-10-0	29
	20	16.00	19.52	25.97	5.55	97	8.13	10-12-	50
27								0	
	30	14.80	19.53	26.25	5.46	93	8.12	15-11-	86
								1	
	40	14.50	19.50	26.27	5.47	93	8.12	19-13-	156
								0	
	50	14.00	19.49	26.37	5.10	86	8.13	18-5-6	133
2.xi	0	19.60	19.39	24.90	5.47	101	8.30	2-5-6	20
	10	19.00	19.52	25.24	5.57	103	8.30	4-3-3	8
	20	17.10	19.50	25.68	5.45	97	8.14	10-0-1	11
28	30	16.80	19.50	25.76	5.18	92	8.15	11-3-0	36
	40	15.80	19.50	25.99	5.03	87	8.15	15-0-0	84
	50	15.20	19.50	26.12	4.28	75	8.12	20-8-0	137

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
1954									
18.xi	0	19.80	19.42	24.89	5.57	104	8.24	4-7-4	12
	10	19.10	19.45	25.12	5.50	101	8.22	8-46-2	18
	20	16.90	19.48	25.70	4.91	87	8.10	14-7-1	51
	30	16.40	19.49	25.84	4.45	78	7.93	17-5-2	82
	40	14.70	19.48	26.20	4.36	74	8.17	21-9-0	146
	50	14.70	19.48	26.20	4.22	72	8.12	20-10-4	143
26.xi	0	20.80	19.69	25.00	5.30	100	8.22	3-7-0	14
	10	20.60	19.69	25.06	5.39	102	8.21	0-11-0	0
	20	20.50	19.69	25.08	5.30	100	8.21	3-9-1	0
	30	20.00	19.69	25.22	5.46	102	8.24	2-6-4	0
	40	19.80	19.70	25.28	5.22	98	8.24	0-9-2	8
	50	19.20	19.70	25.43	4.90	91	8.24	5-10-4	6
1.xii	0	21.90	19.62	24.59	5.17	100	8.24	4-3-0	22
	10	21.20	19.58	24.75	5.22	100	8.25	3-2-3	23
	20	19.80	19.58	25.12	5.17	96	8.25	5-0-2	22
	30	18.20	19.58	25.53	4.72	86	8.27	3-5-0	34
	40	17.50	19.59	25.71	4.33	80	8.17	14-5-1	110
	50	17.00	19.59	25.83	4.20	75	8.15	16-5-2	137
9.xii	0	20.90	19.62	24.87	5.26	100	8.19	2-15-35	
	10	20.80	19.60	24.88	5.23	99	8.19	6-56-21	
	20	20.50	19.59	24.95	5.26	99	8.19	8-15-0	
	30	19.60	19.59	25.18	5.18	96	8.17	4-19-0	
	40	18.40	19.58	25.48	4.81	88	8.16	9-16-2	
	50	16.40	19.58	25.96	4.33	76	8.16	19-70-46	

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
1954									
13.i	0	21.00	19.67	24.92	5.28	100	8.07	6-9-28	0
	10	21.00	19.68	24.93	5.28	100	8.07	6-3-3	0
	20	21.00	19.68	24.93	5.40	103	8.06	6-10-0	0
	30	20.50	19.68	25.06	5.33	101	8.06	5-8-9	2
	40	19.70	19.66	25.25	5.22	97	8.08	5-2-11	4
	50	19.30	19.63	25.31	5.00	94	8.11	8-15-0	1
19.i	0	21.70	19.70	24.77	5.34	103	8.11	2-3-0	0
	10	21.00	19.71	24.98	5.40	103	8.12	9-0-5	0
	20	19.90	19.69	25.24	5.26	98	8.19	6-3-0	0
	30	18.60	19.70	25.59	5.03	92	8.08	8-0-0	0
	40	15.90	19.66	26.18	5.71	100	8.08	15-0-0	44
	50	15.60	19.65	26.24	4.41	77	8.19	19-0-0	72
4.11	0	22.00	19.63	24.59	5.46	105	8.22	0-15-0	0
	10	21.90	19.63	24.61	5.56	107	8.22	0-18-0	2
	20	21.60	19.64	24.71	5.49	106	8.19	5-12-0	9
	30	18.50	19.57	25.44	5.83	106	8.22	8-9-5	17
	40	16.60	19.57	25.90	4.97	88	8.14	14-10-	37
	50	15.80	19.57	26.08	4.67	82	8.09	4 17-12-0	58
9.11	0	22.70	19.67	24.44	4.86	95	8.16		27
	10	22.40	19.67	24.53	4.90	96	8.17	3-3-7	14
	20	21.90	19.67	24.67	4.54	87	8.12	6-6-0	22
	30	18.90	19.67	25.47	4.03	74	8.15	9-15-1	71
	40	17.70	19.63	25.72	4.03	73	8.16	12-10-	29
	50	16.80	19.62	25.91	4.14	73	8.17	0 16-7-0	66
23.11	0	23.20	19.26	23.74	5.01	98	8.26	137-37	7
	10	22.50	19.64	24.46	5.20	102	8.20	-41 3-10-0	0
	20	22.40	19.66	24.51	5.30	103	8.20	3-9-8	11
	30	22.40	19.65	24.50	5.30	103	8.19	3-14-0	50
	40	22.30	19.63	24.50	5.20	101	8.19	3-7-0	7
	50	22.40	19.64	24.48	5.30	103	8.15	3-9-0	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
1954 4.iii	0	23.20	19.59	24.19	5.14	101	8.17	9-3-0	6
	10	22.80	19.32	23.94	5.65	111	8.23	0-3-6	0
	20	22.40	19.43	24.20	5.20	101	8.16	3-12-0	0
	30	21.90	19.53	24.47	4.67	90	8.15	7-7-0	19
	40	21.70	19.55	24.56	4.64	89	8.15	7-4-9	39
	50	21.10	19.60	24.80	4.45	85	8.19	11-9-0	93
19.iii	0	21.40	19.65	24.78	4.81	92	8.26	36-0- 40	1
	10	21.30	19.63	24.78	5.39	103	8.16	0-12-0	4
	20	21.20	19.61	24.78	5.26	100	8.23	0-11-4	4
	30	20.40	19.62	25.01	4.98	94	8.26	7-10-0	8
	40	19.30	19.62	25.29	4.64	86	8.17	11-8-3	60
	50	18.60	19.62	25.47	4.34	79	8.19	13-9-0	76
24.iii	0	21.50	19.66	24.77	5.53	106	8.21	7-15-4	10
	10	21.30	19.66	24.82	5.53	106	8.19	2-7-0	0
	20	21.30	19.66	24.82	5.49	105	8.19	2-6-1	3
	30	21.30	19.66	24.82	5.56	106	8.14	2-12-0	0
	40	21.30	19.66	24.82	5.53	106	8.08	2-7-0	0
	50	20.90	19.67	24.94	5.45	103	8.08	5-5-0	0
1.iv	0	20.90	19.67	24.94	5.37	102	8.25	11-6-3	8
	10	20.80	19.68	24.98	5.58	106	8.23	4-10-0	5
	20	20.70	19.67	25.00	5.58	105	8.23	3-18-0	10
	30	20.60	19.66	25.01	5.58	105	8.23	4-12-3	12
	40	20.50	19.66	25.04	5.61	106	8.22	4-12-6	6
	50	20.50	19.66	25.04	5.58	105	8.22	4-21-0	9
8.iv	0	21.10	19.68	24.90	5.42	103	8.17	7-16-1	10
	10	21.00	19.65	24.89	5.59	106	8.18	3-5-8	26
	20	20.90	19.67	24.94	5.49	104	8.18	4-16-2	28
	30	20.60	19.66	25.01	5.41	102	8.16	3-10-0	18
	40	20.30	19.67	25.11	5.30	100	8.15	4-9-7	12
	50	19.50	19.69	25.35	5.06	94	8.17	7-13-0	5

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
1954 20.iv	0	20.00	19.72	25.26	4.93	92	8.35	13-20-6	22
	10	20.00	19.70	25.23	5.53	103	8.24	6-0-1	4
	20	20.00	19.71	25.25	5.65	106	8.22	6-0-6	6
	30	20.00	19.72	25.26	5.65	106	8.20	5-0-2	7
	40	19.90	19.72	25.28	5.65	106	8.16	5-3-3	8
	50	20.00	19.71	25.25	5.58	104	8.09	7-0-0	8
29.iv	0	19.90	19.65	25.19	5.78	108	8.35	9-5-3	26
	10	19.80	19.65	25.21	5.72	107	8.32	4-5-6	74
	20	19.80	19.65	25.21	5.78	108	8.28	3-4	4
	30	19.10	19.63	25.37	5.30	98	8.27	4-6-0	4
	40	18.90	19.65	25.45	5.30	98	8.19	6-4-0	9
	50	18.60	19.63	25.49	5.12	94	8.21	5-18-0	23
26.v	0	17.90	19.66	25.71	5.77	105	8.33	11-7-3	19
	10	17.80	19.66	25.73	5.70	103	8.28	7-5-0	56
	20	17.80	19.67	25.75	5.70	103	8.31	7-4-1	16
	30	17.80	19.67	25.75	5.70	103	8.33	7-5-0	18
	40	17.80	19.67	25.75	5.75	104	8.33	8-6-4	14
	50	17.70	19.66	25.76	5.70	103	8.33	7-7-0	9
1.vi	0	17.90	19.69	25.75	5.62	102	8.08	6-14-0	9
	10	17.80	19.68	25.76	5.70	103	8.08	3-14-0	6
	20	17.80	19.68	25.76	5.70	103	8.08	5-12-0	6
	30	17.80	19.70	25.79	5.70	103	8.08	3-11-1	6
	40	17.70	19.68	25.78	5.65	102	8.15	6-10-0	8
	50	17.60	19.68	25.81	5.62	101	7.96	4-12-2	17
9.vi	0	16.80	19.65	25.96	5.77	102	8.25	9-8-2	16
	10	16.70	19.66	26.00	5.79	102	8.20	9-5-1	12
	20	16.50	19.65	26.03	5.84	103	8.20	9-5-1	12
	30	16.50	19.68	26.07	5.71	101	8.22	8-7-0	12
	40	16.60	19.67	26.04	5.67	100	8.24	8-3-3	15
	50	16.60	19.68	26.05	5.71	101	8.23	9-2-0	17

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
1954									
24.vi	0	16.10	19.66	26.14	5.99	104	8.19	7-6-0	21
	10	16.10	19.66	26.14	5.99	105	8.16	6-5-0	21
	20	16.10	19.66	26.14	5.93	104	8.16	3-4-4	9
	30	16.30	19.66	26.09	5.93	104	8.13	7-1-0	24
	40	16.10	19.67	26.15	6.02	105	8.13	5-0-3	13
	50	17.10	19.78	26.07	5.93	106	8.12	4-4-4	16
30.vi	0	15.80	19.72	26.29	6.25	109	7.92	10-4-8	56
	10	15.90	19.70	26.24	6.74	118	7.92	10-0-0	30
	20	15.90	19.70	26.24	6.83	119	7.96	8-12-0	33
	30	15.80	19.70	26.26	6.39	112	7.98	8-0-0	40
	40	15.70	19.68	26.25	6.60	115	7.94	8-0-0	30
	50	15.70	19.70	26.28	6.45	112	7.94	10-0-0	40
24.ix	0	17.40	19.58	25.73	5.83	104	8.19	5-14-	13
								10	
	X 10	17.10	19.53	25.72	6.20	110	8.20	2-17-0	0
	20	16.90	19.58	25.85	6.25	111	8.19	6-10-1	0
	30	16.60	19.58	25.92	6.26	110	8.19	8-13-0	0
	40	15.50	19.59	26.18	5.93	103	8.20	5-4-3	0
	50	15.40	19.60	26.22	6.25	108	8.15	9-8-0	0
	75	14.90	19.61	26.34	5.54	95	8.14	12-11-	7
							0		
X 100	13.80	19.59	26.35	6.25	105	8.11	11-13-	20	
							0		
1.x	0	18.10	19.63	25.62	5.69	103	8.20	10-0-4	0
	10	17.80	19.62	25.67	5.64	102	8.19	13-1-1	0
	20	17.20	19.62	25.82	5.51	98	8.18	13-2-0	1
	30	17.20	19.53	25.70	5.60	100	8.16	11-5-9	22
	40	15.80	19.63	26.17	5.80	101	8.17	9-11-0	15
	50	15.40	19.57	26.17	5.16	89	8.11	16-9-0	67
	75	14.20	19.57	26.43	4.91	83	8.17	22-3-3	92
	100	13.40	19.53	26.54	4.79	80	8.17	22-7-	104
							11		

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
1954 12.x	0	18.20	19.62	25.57	5.72	104	8.24		
	10	17.10	19.59	25.81	6.00	107	8.15	9-5-1	0
	20	16.90	19.59	25.86	5.82	103	8.19	8-8-5	0
	30	15.90	19.61	26.11	4.22	74	8.15	7-9-0	0
	40	15.50	19.60	26.19	5.82	101	8.23	19-3-0	41
	50	13.50	19.57	26.58	4.28	72	8.14	8-3-3	0
	75	13.20	19.52	26.58	4.54	76	8.11	24-4-0	30
	100	13.00	19.50	26.59	4.65	77	8.09	24-7-0	23
								25-5-0	25
	26.x	0	17.20	19.53	25.70	5.95	106	8.21	4-24
10		16.90	19.55	25.80	5.53	98	8.20	7-5-1	21
20		16.60	19.56	25.89	5.30	93	8.20	9-6-3	17
30		16.60	19.56	25.89	5.90	104	8.23	4-15-2	21
40		16.50	19.56	25.91	5.30	93	8.18	7-15-	27
50		15.90	19.56	26.05	5.87	102	8.22	30	
75		13.40	19.49	26.50	4.44	74	8.13	4-13	9
100		13.00	19.49	26.58	4.65	77	8.16	19-7-0	124
								20-7-0	64
2.xi		0	20.90	19.60	24.85	5.11	97	8.16	2-11-0
	10	20.00	19.55	25.02	5.55	104	8.22	1-12-0	1
	20	18.60	19.55	25.38	5.01	92	8.17	9-4-1	24
	30	18.60	19.57	25.41	5.18	95	8.21	3-11-2	4
	40	18.60	19.54	25.37	5.69	104	8.24	1-17-0	2
	50	16.30	19.51	25.88	4.82	85	8.18	13-2-	35
	75	14.00	19.48	26.35	3.83	65	8.09	10	
	100	13.40	19.48	26.48	4.91	82	8.09	24-15-	121
								15	
	8.xi	0	20.40	19.32	24.60	4.77	89	8.26	25-8-0
10		19.70	19.49	25.02	4.85	90	8.21	6-12-3	3
20		17.80	19.49	25.50	4.82	87	8.25	6-5-2	28
30		16.90	19.48	25.70	4.61	82	8.22	15-3-0	37
40		16.20	19.48	25.87	4.15	73	8.18	17-2-0	56
50		15.60	19.47	25.99	4.67	81	8.20	20-2-1	110
75		14.10	19.47	26.32	4.73	80	8.04	19-4-2	100
100		13.80	19.45	26.36	4.61	77	8.19	13-9-1	148
								22-3-0	142

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
1954 26.xi	0	20.80	19.67	24.97	5.22	99	8.27	0-11-6	0
	10	20.60	19.68	25.04	5.30	100	8.25	2-9-8	4
	20	20.70	19.68	25.01	5.30	100	8.24	2-12-0	0
	30	19.80	19.69	25.27	5.22	98	8.24	6-8-1	7
	40	19.80	19.69	25.27	5.22	98	8.23	5-7-5	50
	50	19.20	19.68	25.40	4.84	90	8.20	10-4-	11
								10	
	75	17.50	19.67	25.82	4.48	80	8.18	11-12-	33
								0	
	100	15.20	19.56	26.21	4.20	72	8.15	22-0-0	78
1.xii	0	21.80	19.65	24.67	5.20	100	8.20	5-2-0	35
	10	20.60	19.63	24.97	5.36	101	8.21	4-3-2	24
	20	20.80	19.63	24.92	5.26	100	8.20	4-5-0	27
	30	19.40	19.62	25.27	5.46	101	8.21	5-3-0	23
	40	19.30	19.62	25.29	5.36	99	8.21	2-3-6	24
	50	17.70	19.62	25.70	4.72	85	8.19	7-17-0	53
	75	15.40	19.56	26.16	5.95	103	8.15	21-4-0	225
	100	14.60	19.59	26.38	5.68	100	8.18	16-3-6	165
9.xii	0	21.50	19.68	24.79	4.87	93	8.22	2-40-0	
	10	21.20	19.66	24.85	5.20	99	8.23	4-26-	
								11	
	20	21.20	19.67	24.87	5.15	98	8.25	4-33-0	
	30	18.90	19.67	25.47	4.84	89	8.19	4-16-1	
	40	18.20	19.64	25.60	4.66	85	8.20	9-11-0	
	50	17.60	19.64	25.75	4.49	81	8.13	11-5-9	
	75	15.90	19.59	26.09	4.27	75	8.12	19-19-	
							0		
100	15.10	19.59	26.27	4.33	75	8.13	17-8-0		

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
1954 5.1	0	19.30	19.69	25.40					
	10	19.30	19.70	25.41				3-9	12
	20	19.30	19.69	25.40				4-8	10
	30	19.30	19.69	25.40				4-8	13
	40	19.30	19.69	25.40				4-4	0
	50	19.30	19.69	25.40				4-11 2-7	21 38
7.1	0	19.50	19.68	25.33	5.56	103	8.20	4-11	24
	10	19.30	19.68	25.38	5.57	105	8.22	5-5	6
	20	19.20	19.69	25.42	5.57	103	8.22	6-4	23
	30	19.10	19.70	25.46	5.53	102	8.21	3-7	22
	40	19.10	19.69	25.45	5.46	101	8.21	5-10	22
	50	19.00	19.69	25.48	5.34	99	8.19	6-6	24
9.11	0	21.10	19.59	24.78	5.52	105	8.14	3-6	1
	10	21.10	19.58	24.77	5.52	105	8.14	5-4	1
	20	20.70	19.57	24.86	5.64	107	8.15	5-5	0
	30	19.30	19.56	25.22	5.72	106	8.17	5-5	5
	40	18.00	19.56	25.55	5.64	102	8.16	10-3	8
	50	17.50	19.56	25.67	5.64	101	8.19	9-1	12
9.111	0	21.90	19.58	24.55	5.31	102	8.14	6-8	29
	10	21.90	19.60	24.57	5.29	102	8.17	4-6	3
	20	21.70	19.60	24.63	5.29	102	8.19	6-5	6
	30	20.30	19.62	25.03	5.03	95	8.17	7-5	22
	40	20.10	19.64	25.11	4.97	93	8.17	6-8	42
	50	20.10	19.62	25.08	5.11	96	8.16	3-10	9
6.1v	0	20.90	19.65	24.92	5.57	106	8.17	3-0	25
	10	20.70	19.63	24.94	5.59	106	8.19	3-5	0
	20	20.30	19.65	25.08	5.63	106	8.19	3-0	0
	30	19.90	19.65	25.19	5.61	105	8.18	6-3	9
	40	19.80	19.66	25.22	5.59	104	8.13	5-1	10
	50	19.60	19.70	25.33	5.65	105	8.06	5-5	8

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
1954									
4.v	0	19.60	19.67	25.29	5.59	104	8.15	3-8	4
	10	19.60	19.68	25.30	5.62	105	8.15	5-4	7
	20	19.60	19.67	25.29	5.57	104	8.17	5-1	4
	30	19.50	19.67	25.32	5.53	103	8.11	4-2	6
	40	18.90	19.67	25.47	5.53	102	8.08	3-9	10
	50	18.20	19.68	25.66	5.56	101	8.07	3-6	6
5.vii	0	14.60	19.60	26.39			8.31	5	0
	10	14.60	19.60	26.39	6.73	115	8.31	5-9	13
	20	13.80	19.55	26.49	6.22	105	8.29	11-2	20
	30	13.40	19.54	26.56	6.32	106	8.27	10-4	13
	40	13.40	19.55	26.57	6.45	108	8.23	9-3	24
	50	13.30	19.55	26.59	6.56	110	8.21	0-14	19
2.viii	0	14.80	19.64	26.40	5.66	97	8.23	6-0	30
	10	15.00	19.61	26.31	5.58	96	8.24	12-0	21
	20	15.00	19.64	26.35	5.41	93	8.26	14-0	13
	30	14.80	19.63	26.39	5.62	96	8.21	13-1	13
	40	14.30	19.57	26.41	5.38	91	8.17	16-1	43
	50	14.20	19.56	26.42	5.24	89	8.12	16-3	60
8.ix	0	14.40	19.61	26.45	5.94	101	8.22	15-5	0
	10	14.10	19.60	26.50	6.25	106	8.22	13-6	0
	20	14.10	19.59	26.49	5.76	97	8.20	20-0	0
	30	14.00	19.59	26.51	6.00	101	8.20	7-15	0
	40	14.00	19.58	26.50	6.00	101	8.21	4-22	14
	50	14.00	19.60	26.52	4.91	83	8.17	10-15	0
7.x	0	14.80	19.57	26.31	5.82	100	8.15	8-6	50
	10	13.40	19.46	26.45	5.96	99	8.10	16-2	97
	20	13.20	19.53	26.58	5.07	84	8.11	17-3	130
	30	13.40	19.53	26.54	5.52	92	8.10	14-4	109
	40	12.20	19.50	26.75	5.12	84	8.09	20-0	122
	50	12.20	19.50	26.75	5.28	86	8.06	20-0	111

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
1954									
4.xi	0	17.70	19.55	25.60	5.60	101	8.20	6-5	2
	10	17.80	19.55	25.58	5.66	102	8.20	4-7	1
	20	17.70	19.55	25.60	5.50	99	8.20	5-7	0
	30	17.80	19.55	25.58	5.45	98	8.20	3-11	19
	40	17.00	19.55	25.77	5.60	100	8.17	6-11	0
	50	16.80	19.55	25.82	5.53	98	8.09	6-7	9
29.xi	0	19.80	19.59	25.13	5.52	103	8.23	5-6	16
	10	19.70	19.59	25.16	5.46	102	8.23	5-4	11
	20	19.50	19.57	25.18	5.46	101	8.20	7-4	11
	30	19.80	19.58	25.12	5.30	99	8.18	7-3	9
	40	16.80	19.57	25.85	4.72	84	8.16	16-0	60
	50	16.70	19.57	25.87	4.84	86	8.17	15-0	48

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
1954									
3.1	0	19.25	19.66	25.37				3-12	5 44
	10	19.25	19.70	25.42				12-0	12 21
	20	19.25	19.70	25.42				9-10	19 0
	30	19.25	19.69	25.41				8-2	10 19
	40	18.00	19.67	25.70				10-0	10 2
	50	17.30	19.66	25.85				9-10	19 8
6.1	0	18.70	19.70	25.56	5.46	100	8.19	3-7	10 16
	10	18.70	19.68	25.53	5.52	101	8.19	6-2	8 19
	20	18.70	19.70	25.56	5.51	101	8.20	5-6	11 14
	30	18.70	19.69	25.55	5.47	101	8.21	3-9	14 21
	40	18.70	19.69	25.55	5.46	100	8.22	6-6	12 21
	50	17.30	19.64	25.82	5.40	97	8.23	7-8	15 31
12.11	0	21.10	19.66	24.88	5.30	101	8.16	4-4	8 0
	10	21.10	19.65	24.87	5.36	102	8.19	3-3	6 0
	20	19.30	19.60	25.27	5.56	103	8.22	1-8	9 2
	30	19.30	19.57	25.23	5.72	110	8.22	3-6	9 11
	40	19.30	19.53	25.17	5.46	101	8.16	11-4	15 0
	50	19.30	19.63	25.17	5.16	96	8.22	4-6	10 0
9.111	0	20.20	19.61	25.05	5.64	106	8.15	8-11	14 0
	10	19.90	19.60	25.12	5.94	111	8.15	8-2	10 0
	20	18.90	19.59	25.36	5.51	101	8.16	11-4	15 0
	30	18.30	19.60	25.53	5.99	109	8.17	11-3	14 0
	40	18.00	19.60	25.60	5.16	93	8.17	13-7	20 36
	50	17.60	19.59	25.69	5.20	93	8.11	13-7	10 67
6.v	0	18.40	19.70	25.64	5.84	107	8.18	1-9	10 7
	10	18.40	19.69	25.63	5.82	106	8.16	2-6	8 7
	20	18.30	19.69	25.65	5.82	106	8.16	2-4	6 4
	30	17.80	19.67	25.75	5.75	104	8.15	5-6	11 7
	40	17.20	19.65	25.87	5.62	100	8.16	7-6	13 19
	50	17.00	19.66	25.93	5.57	99	8.13	7-6	13 19

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.
1954									
4.viii	0	12.30	19.53	26.76	6.15	101	8.23	11-1	12 C
	10	12.30	19.52	26.75	6.11	100	8.23	14-0	14 C
	20	12.30	19.51	26.74	6.24	102	8.24	15-0	15 C
	30	12.30	19.51	26.74	6.28	103	8.25	13-2	15 C
	40	12.30	19.51	26.74	6.15	101	8.24	13-0	13 C
	50	12.40	19.52	26.74	6.10	100	8.22	12-4	16 C
8.ix	0	12.20	19.53	26.78	5.31	87	8.19	9-15	24 20
	10	12.10	19.51	26.77	6.13	100	8.00	7-8	15 6
	20	12.20	19.56	26.74	6.06	99	8.21	11-12	13 0
	30	12.20	19.50	26.75	6.00	98	8.21	9-10	19 0
	40	12.20	19.55	26.81	6.06	99	8.19	17-0	17 0
	50	12.10	19.55	26.83	6.13	100	8.17	13-6	19 0
6.x	0	13.80	19.57	26.52	6.50	110	8.11	0-13	13 34
	10	13.80	19.57	26.52	6.80	115	8.12	6-5	14 44
	20	13.60	19.55	26.53	6.19	104	8.12	4-10	14 35
	30	12.80	19.54	26.68	5.85	97	8.12	4-12	16 37
	40	12.40	19.53	26.74	6.00	98	8.12	12-4	16 63
	50	12.40	19.53	26.74	6.07	100	8.09	15-6	17 52
23.xi	See "Derwent Hunter" 158/54.								
	<i>See page 80</i>								

Station: PADDOCK

Latitude: 38°47' S.

Longitude: 149°10' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1954									
2.i	0	16.60	19.65	26.01					
	20	16.60	19.61	25.95				8-8	22
	40	16.00	19.62	25.96				7-1	28
	50	15.80	19.61	26.14				9-4	22
	75	15.40	19.63	26.26				10-0	18
	100	14.80	19.59	26.34				12-1	36
								13-0	48
26.iii		See	"Derwent Hunter" 88/54						
19.xi		See	"Derwent Hunter" 155/54						

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
1954 20.iv	0	16.20	19.61	26.04	5.76	101			
	10	16.20	19.62	26.05	5.82	102		7-3	4
	20	15.90	19.61	26.14	5.60	98		4-5	17
	30	15.60	19.61	26.18	5.80	101		0-11	26
	40	16.10	19.59	26.04	5.57	98		0-8	28
	50	16.10	19.60	26.06	5.70	100		0-13	7
14.v	0	15.50	19.59	26.18	5.79	100		0-10	30
	10	15.50	19.60	26.19	6.05	105	3		13
	20	15.45	19.59	26.17	5.77	100	8		11
	30	15.25	19.59	26.24	5.77	100	6		28
	40	15.30	19.61	26.25	5.87	101	6		11
	50	15.25	19.61	26.26	6.10	105	8		9
							6		9

Station: PORT FAIRY WIDE

Latitude: 39°01' S.

Longitude: 142°25' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1954									
17.v	0	15.90	19.65	26.17	5.82	102		6	10
	20	15.80	19.65	26.20	5.82	101		6	11
	40	15.80	19.66	26.21	5.82	101		6	10
	50	15.80	19.65	26.20	5.64	98		6	17
	75	15.80	19.65	26.20	5.94	103		5	17
	100	15.90	19.65	26.17	5.82	102		6	22
8.xi			See "Derwent Hunter" 129/54						

Station: LOW HEAD

Latitude: 40°45' S.

Longitude: 146°45' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1954									
30.viii	0	10.60	19.24	26.68	6.13	97	8.06	6-6	12
	25	10.80	19.28	26.70	6.36	101	8.05	5-11	13
	50	11.00	19.38	26.81	6.13	98	8.05	7-4	23
30.ix	0	13.20	19.26	26.21	6.00	99	8.16	7-6	15
	30	11.60	19.65	27.07	5.45	88	8.03	5-4	18
	60	11.40	19.57	26.99	5.30	85	8.05	0-13	33
29.x	0	13.30	19.48	26.52	5.60	93	8.15	8-2	0
	30	12.20	19.48	26.74	6.00	98	8.13	8-2	0
	60	12.00	19.56	26.90	5.55	92	8.13	10-3	7
1.xii	0	15.00	19.35	25.95			8.02	10-3	0
	30	14.00	19.46	26.32			8.10	10-1	0
	60	12.40	19.61	26.86			8.04	12-0	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
1954 9.iii			See "Derwent Hunter" 57/54						
21.vii	0	11.85	19.38	26.65	6.00	97	8.10	9-2	41
	20	11.70	19.35	26.63	6.00	97	8.17	9-4	49
	50	11.70	19.40	26.69	5.90	95	8.17	8-5	53
	100	11.80	19.37	26.64	5.80	94	8.16	8-6	53
15.ix	0	11.60	19.45	26.79	6.30	101		8-4	33
	20	11.50	19.44	26.79	6.30	101		8-13	22
	50	11.50	19.44	26.79	6.15	99		8-7	27
	100	11.40	19.44	26.81	6.15	99		5-10	20
14.x	0	12.10	19.41	26.65	3.82	62		8-9	25
	20	11.90	19.38	26.65	6.15	100		8-4	32
	50	11.80	19.43	26.74	5.75	93		8-4	37
	100	11.80	19.40	26.69	5.85	95		8-0	37
13.xi			See "Derwent Hunter" 143/54						

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	NC
1954									
21.i	0	15.60	19.35	25.82	5.95	103		2-13-0	1
	20	14.30	19.35	26.11	5.68	96		7-9-0	
	50	13.50	19.35	26.27				1-16-0	
11.ii		See "Derwent Hunter" 38/54							
18.iii	0	16.15	19.55	25.97	5.34	94		13 *	
	25	16.10	19.56	26.00	5.39	94		15 *	
	50	15.70	19.49	26.00	5.36	93		15 *	
	75	14.84	19.45	26.14	5.05	86		21 *	
	100	14.80	19.46	26.15	4.91	84		24 *	
28.iv	0	14.20	19.45	26.27	5.70	96		6-3-4	11
	20	14.20	19.45	26.27	5.66	96		6-2-2	11
	50	13.90	19.42	26.29	5.66	99		9-3-1	27
24.v	0	12.60	19.39	26.51	5.83	96		13-2-2	
	20	12.60	19.40	26.52	5.77	95		12-0-3	
	50	12.60	19.40	26.52	5.77	95		11-3-1	
21.vi	0	12.15	19.34	26.53	6.10	99	8.10	13-3	2
	20	12.00	19.32	26.53	5.97	97	8.06	15-0	0
	50	12.00	19.33	26.54	5.97	97	8.09	12-0	2
	100	12.15	19.32	26.50	6.05	98	8.10	12-1	2
22.vii	0	11.90	19.40	26.66	5.90	96	7.96	12-0	44
	20	12.05	19.38	26.61	5.70	93	8.08	12-0	48
	50	12.10	19.42	26.65	5.82	95	8.10	9-6	44
	100	12.10	19.44	26.68	5.90	96	8.12	8-5	49
10.viii	0	11.20	19.36	26.74	5.85	93		0-11	30
	20	11.20	19.37	26.75	6.35	101		9-0	50
	50	11.25	19.38	26.76	7.65	122		0-5	50
	100	11.20	19.39	26.78	2.83	45		0-5	43
								* 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
1954									
30.ix	0	12.10	19.47	26.72	6.35	103		9-1	33
	20	11.70	19.46	26.78	6.30	102		10-0	41
	50	11.75	19.49	26.82	5.45	88		11-0	33
	100	11.80	19.51	26.83	5.75	93		11-0	41
13.x	0	11.90	19.43	26.72	5.00	81		5-6	45
	20	11.85	19.38	26.66	5.15	83		8-2	36
	50	11.80	19.44	26.75	4.30	70		6-8	43
	100	11.80	19.39	26.68	5.90	95		6-6	31
19.xi	0	13.30	19.39	26.38	6.00	99	8.13	8-2	0
	25	12.70	19.40	26.51	6.35	104	8.16	8-4	0
	50	12.20	19.41	26.63	6.00	98	8.16	10-3	20
	75	12.10	19.43	26.68	6.05	98	8.15	11-8	20
6.xii			See "Derwent Hunter" 180/54.						

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
1954									
24.vi	0	12.20	19.31	26.47	5.80	94		13-4	1
	20	12.30	19.29	26.43	5.48	89		12-2	1
	50	12.30	19.35	26.51	5.70	93		13-1	2
22.vii	0	11.85	19.36	26.62	5.95	96		9-4	49
	20	12.00	19.37	26.60	5.13	83		9-3	42
	50	11.90	19.42	26.69	5.82	94		7-6	21
26.ix	0	11.70	19.00	26.14	6.15	99		9-0	15
	20	11.75	19.36	26.64	5.15	83		9-3	38
	50	11.75	19.42	26.72	5.80	94		8-2	41

Station: ALBATROSS ISLAND

Latitude: 40°20' S.

Longitude: 144°26' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1954									
21.iii			See "Derwent Hunter" 75/54						
21.v	0	14.15	19.52	26.38	6.17	104		6	20
	20	14.10	19.51	26.37	6.11	103		6	15
	40	14.10	19.51	26.37	6.11	103		5	14
	50	14.10	19.51	26.37	6.17	104		5	9
10.xi			See "Derwent Hunter" 133/54						

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
1954									
6.1	0	20.40	19.85	25.33	5.35	101	8.34	8-3	
	10	20.20	19.86	25.39	5.18	98	8.33	8-6	
	20	19.80	19.83	25.46	5.08	95	8.31	8-3	
	30	19.80	19.83	25.46	5.40	101	8.30	8-2	
	40	19.80	19.88	25.53	5.37	100	8.30	9-0	
	50	19.80	19.81	25.43	5.38	100	8.30	7-4	
19.1	0	21.00	19.73	24.99	5.38	103	8.34	4-3	
	10	20.40	19.73	25.15	5.38	101	8.33	2-4	
	20	20.20	19.73	25.21	5.43	102	8.33	2-4	
	30	20.10	19.74	25.26	5.38	101	8.33	2-8	
	40	20.20	19.74	25.23	5.54	104	8.32	2-3	
	50	20.20	19.77	25.23	5.40	102	8.33	2-11	
3.11	0	21.10	19.74	24.99	5.37	103	8.33	3-3	
	10	20.75	19.77	25.12	5.32	101	8.33	2-7	
	20	20.60	19.77	25.16	5.43	103	8.33	4-7	
	30	20.00	19.77	25.32	5.26	99	8.33	5-6	
	40	19.95	19.73	25.29	5.17	97	8.33	4-5	
	50	20.20	19.75	25.24	5.37	101	8.33	6-6	
18.11	0	20.70	19.79	25.16	5.35	102	8.30	0-14	
	10	20.70	19.79	25.16	5.29	101	8.28	0-15	
	20	20.60	19.79	25.19	5.29	101	8.31	5-12	
	30	19.70	19.72	25.33	5.21	97	8.32	6-13	
	40	19.60	19.72	25.36	5.14	96	8.31	4-12	
	50	19.60	19.72	25.36	5.14	96	8.30	4-15	
23.111	0	21.65	19.63	24.68	5.14	99	8.27	6-5	
	10	21.60	19.64	24.71	5.18	100	8.27	7-0	
	20	21.60	19.62	24.68	5.26	101	8.27	5-0	
	30	21.70	19.63	24.67	5.23	101	8.27	4-0	
	40	21.65	19.62	24.67	5.07	98	8.27	5-0	
	50	21.60	19.63	24.70	5.23	101	8.27	7-0	

Station: ROTTNESST 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
1954									
17.iv	0	21.40	19.64	24.76	5.13	98	8.28	5-4	0
	10	21.40	19.64	24.76	5.24	100	8.28	6-1	0
	20	21.50	19.67	24.78	5.18	100	8.28	6-0	0
	30	21.30	19.66	24.82	5.24	100	8.29	6-3	0
	40	21.25	19.66	24.83	5.13	98	8.26	7-5	0
	50	21.25	19.66	24.83	5.13	98	8.26	7-5	0
29.iv	0	21.00	19.73	24.99	5.24	100	8.36	1-8	0
	10	21.05	19.74	25.00	5.13	98	8.36	3-6	0
	20	21.05	19.76	25.03	5.24	100	8.36	2-7	0
	30	21.10	19.76	25.01	5.24	100	8.36	2-7	0
	40	21.10	19.78	25.04	5.24	100	8.36	3-6	0
	50	21.00	19.78	25.07	5.13	98	8.36	2-6	0
14.v	0	20.50	19.79	25.21	5.41	102	8.29	5-0	0
	10	20.50	19.79	25.21	5.36	101	8.29	4-2	0
	20	20.35	19.79	25.26	5.46	103	8.29	5-0	0
	30	20.60	19.79	25.19	5.41	103	8.29	5-0	0
	40	20.50	19.81	25.24	5.41	102	8.29	5-0	0
	50	20.20	19.82	25.34	5.46	103	8.29	6-0	0
2.vi	0	20.60	19.74	25.12	5.16	98	8.21	5-7	0
	10	20.60	19.74	25.12	5.04	95	8.22	5-3	0
	20	20.60	19.74	25.12	5.16	98	8.22	9-0	0
	30	20.55	19.74	25.14	5.31	100	8.23	5-3	0
	40	20.20	19.74	25.23	5.31	100	8.23	3-5	0
	50	18.80	19.74	25.59	5.11	94	8.23	5-6	0
30.vi	0	20.20	19.65	25.11	5.36	101	8.21	4-9	0
	10	20.20	19.65	25.11	5.22	99	8.21	8-3	0
	20	20.10	19.65	25.13	5.29	100	8.21	4-6	0
	30	19.80	16.65	25.21	5.36	100	8.22	7-7	3
	40	19.50	19.67	25.30	5.22	97	8.23	7-6	0
	50	19.00	19.66	25.44	5.36	100	8.23	4-7	3

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
1954									
14.vii	0	18.80	19.68	25.51	5.41	100	8.25	4-5	0
	10	18.70	19.68	25.53	5.46	100	8.26	5-5	0
	20	18.70	19.68	25.53	5.46	100	8.25	4-5	0
	30	18.70	19.68	25.53	5.46	100	8.25	1-10	0
	40	18.60	19.68	25.56	5.34	98	8.25	5-6	0
	50	18.60	19.68	25.56	5.41	99	8.24	4-6	0
3.viii	0	19.00	19.71	25.51	5.47	101	8.21	7-1	0
	10	18.60	19.71	25.61	5.53	101	8.21	7-1	0
	20	18.40	19.70	25.64	5.58	102	8.22	9-0	0
	30	18.10	19.70	25.72	5.58	101	8.22	8-1	0
	40	17.90	19.70	25.76	5.53	100	8.22	8-2	0
	50	17.90	19.70	25.76	5.53	100	8.22	3-6	0
26.viii	0	18.35	19.68	25.62	5.47	100	8.31	5-9	0
	10	18.35	19.68	25.62	5.47	100	8.31	6-7	0
	20	18.30	19.68	25.64	5.47	100	8.30	7-6	0
	30	18.25	19.69	25.67	5.54	101	8.29	5-7	0
	40	18.15	19.69	25.69	5.34	97	8.30	6-9	0
	50	18.10	19.70	25.71	5.28	96	8.29	6-9	0
16.ix	0	18.75	19.68	25.52	5.59	103	8.26	4-2	0
	10	18.70	19.70	25.56	5.66	104	8.26	2-4	0
	20	18.70	19.73	25.60	5.54	102	8.27	4-0	0
	30	18.60	19.75	25.65	5.66	104	8.27	4-5	0
	40	17.95	19.77	25.85	5.82	106	8.27	6-1	0
	50	17.70	19.78	25.93	5.75	104	8.27	5-3	0
7.x	0	19.10	19.69	25.45	5.17	96	8.25	5-9	0
	10	19.20	19.70	25.43	5.24	97	8.30	7-7	0
	20	19.10	19.72	25.49	5.24	97	8.30	3-9	0
	30	19.20	19.72	25.46	5.28	98	8.30	6-6	0
	40	19.00	19.73	25.52	5.17	96	8.29	4-10	0
	50	19.20	19.75	25.47	5.17	96	8.29	5-7	0

Station: ROTTNESST 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
1954									
22.x	0	19.50	19.72	25.39	5.04	94	8.22	3-7	0
	10	19.50	19.72	25.39	5.11	95	8.22	6-4	0
	20	19.40	19.73	25.42	5.20	97	8.24	8-1	0
	30	19.50	19.75	25.43	5.11	95	8.22	7-2	0
	40	19.50	19.75	25.43	5.11	95	8.22	6-5	0
	50	19.40	19.75	25.45	5.11	95	8.24	4-5	0
19.xi	0	19.60	19.80	25.47	5.29	99	8.26	3-10	0
	10	19.60	19.80	25.47	5.34	100	8.26	5-4	0
	20	19.50	19.81	25.51	5.45	102	8.26	3-11	0
	30	19.60	19.81	25.48	5.34	100	8.26	3-11	0
	40	19.60	19.81	25.48	5.34	100	8.26	4-9	0
	50	19.60	19.83	25.51	5.14	96	8.25	5-2	0
1.xii	0	19.80	19.69	25.27	5.34	100	8.24	4-12	0
	10	19.80	19.72	25.31	5.47	103	8.23	3-11	0
	20	19.70	19.74	25.36	5.54	103	8.24	0-13	0
	30	19.60	19.78	25.45	5.41	101	8.24	4-10	0
	40	19.60	19.80	25.47	5.41	101	8.23	3-10	0
	50	19.60	19.82	25.50	5.24	98	8.22	2-11	0
13.xii	0	20.10	19.76	25.28	5.04	95	8.23	8-2	0
	10	20.10	19.76	25.28	5.33	100	8.23	7-3	0
	20	20.00	19.77	25.32	5.45	102	8.24	7-1	0
	30	19.90	19.77	25.35	5.20	98	8.25	7-4	0
	40	19.90	19.77	25.35	5.10	95	8.25	6-4	0
	50	19.90	19.79	25.37	5.20	98	8.25	7-4	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
1954									
6.i									
Stn. 2	0	22.80	20.06	24.95	5.15	101	8.31	3-7	C
	10	21.90	20.08	25.23	5.37	104	8.32	3-5	C
Stn. 5	0	20.90	19.91	25.28	5.23	100	8.37	2-9	O
	20	21.00	19.93	25.28	5.23	100	8.37	7-3	O
19.i									
Stn. 2	0	21.90	19.94	25.04	5.04	98	8.38	0-6	O
	10	21.80	19.94	25.07	5.23	101	8.34	0-9	O
Stn. 5	0	21.60	19.86	25.01	5.37	104	8.33	2-6	O
	20	21.20	19.84	25.09	5.40	104	8.34	4-2	O
3.ii									
Stn. 2	0	20.90	19.88	25.23	5.32	102	8.35	2-9	O
	10	20.90	19.88	25.23	5.43	104	8.35	3-7	O
Stn. 5	0	21.00	19.83	25.14	5.55	106	8.33	3-7	O
	20	21.00	19.80	25.10	5.43	104	8.32	3-5	O
18.ii									
Stn. 2	0	21.65	19.96	25.14					
	10	21.60	19.96	25.15	5.21	101	8.38	0-12	O
							8.38	0-13	O
23.iii									
Stn. 2	0	21.05	20.04	25.42	5.11	98	8.28	3-3	O
	10	21.10	20.06	25.42	5.21	100	8.30	3-0	O
Stn. 5	0	21.40	19.84	25.04	5.18	100	8.28	5-4	O
	20	21.40	19.86	25.06	5.23	101	8.28	5-0	O
15.iv									
Stn. 2	0	19.90	19.99	25.65	5.32	100	8.23	5-4	O
	10	19.40	20.15	26.01	5.21	97	8.24	8-0	O
Stn. 5	0	21.20	19.71	24.92	5.24	100	8.22	4-3	O
	20	20.40	19.75	25.19	5.44	103	8.23	5-1	O

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
1954									
29.iv									
Stn. 2	0	19.80	19.81	25.43	5.19	97	8.30	2-8	0
	10	18.40	20.07	26.15	5.30	96	8.34	1-6	0
Stn. 5	0	20.40	19.78	25.23	5.59	106	8.36	3-4	0
	20	20.30	19.78	25.26	5.47	103	8.36	2-2	0
14.v									
Stn. 2	0	20.80	19.77	25.11	5.31	101	8.25	4-3	0
	10	19.80	19.82	25.45	5.46	102	8.26	3-3	0
Stn. 5	0	20.05	19.84	25.40	5.52	104	8.29	4-3	0
	20	20.10	19.85	25.41	5.52	104	8.29	5-0	0
2.vi									
Stn. 2	0	18.25	19.72	25.45	5.44	99	8.17	2-9	0
	10	16.70	19.75	26.12	5.36	95	8.18	3-9	0
Stn. 5	0	18.70	19.72	25.59	5.49	101	8.19	4-10	0
	20	18.70	19.75	25.63	5.36	98	8.20	2-7	0
30.vi									
Stn. 2	0	18.60	19.64	25.50	5.42	99		5-5	0
	10	16.70	19.65	25.98	5.48	97		5-7	0
Stn. 5	0	19.60	19.66	25.27	5.29	99	8.17	6-8	2
	20	19.60	19.67	25.29	5.29	99	8.23	5-8	28
14.vii									
Stn. 2	0	18.50	19.66	25.56	5.54	101	8.22	5-10	0
	10	18.30	19.69	25.65	5.59	102	8.24	4-6	0
Stn. 5	0	18.60	19.67	25.55	5.56	102	8.24	4-6	0
	20	18.60	19.67	25.55	5.59	102	8.25	1-11	0
3.viii									
Stn. 2	0	17.80	19.68	25.76	5.66	102	8.24	6-6	0
	10	16.30	19.68	26.12	6.05	106	8.21	9-0	0
Stn. 5	0	17.70	19.68	25.79	5.82	105	8.21	7-2	0
	20	17.55	19.68	25.82	5.77	104	8.22	7-4	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
1954									
26.viii									
Stn. 2	0	17.20	19.55	25.73	5.59	100	8.24	6-8	0
	10	16.80	19.65	25.96	5.72	102	8.28	5-4	0
Stn. 5	0	17.40	19.61	25.76	5.66	102	8.30	5-4	0
	20	17.70	19.71	25.83	5.66	102	8.30	6-7	0
16.ix									
Stn. 2	0	17.00	19.58	25.82	5.76	102	8.24	2-11	0
	10	16.70	19.60	25.92	5.87	104	8.24	4-6	0
Stn. 5	0	18.30	19.70	25.66	5.76	105	8.27	5-6	0
	20	17.90	19.73	25.80	5.79	105	8.27	4-4	0
7.x									
Stn. 2	0	18.20	19.66	25.63	5.48	100	8.25	5-6	0
	10	18.00	19.68	25.71	5.56	101	8.29	4-8	0
Stn. 5	0	18.20	19.70	25.69	5.34	97	8.27	3-11	0
	20	18.90	19.72	25.54	5.32	98	8.28	6-5	0
22.x									
Stn. 2	0	18.70	19.68	25.54	5.33	98	8.22	5-11	0
	10	18.10	19.72	25.74	5.44	99	8.22	5-5	0
Stn. 5	0	18.70	19.79	25.69	5.53	102	8.21	5-5	0
	20	18.50	19.79	25.74	5.46	100	8.20	4-6	0
19.xi									
Stn. 2	0	19.40	19.83	25.56	5.40	101	8.26	5-4	0
	10	19.15	19.85	25.66	5.76	107	8.28	6-0	0
Stn. 5	0	19.70	19.81	25.46	5.55	104	8.26	4-7	0
	20	19.60	19.84	25.52	5.50	103	8.26	2-10	0
1.xii									
Stn. 2	0	19.90	19.78	25.37	5.47	103	8.21	2-8	0
	10	19.90	19.81	25.40	5.59	105	8.22	6-8	0
Stn. 5	0	20.10	19.85	25.41	5.66	107	8.23	2-12	0
	20	20.20	19.85	25.38	5.66	107	8.23	4-9	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
1954									
13.xii									
Stn. 2	0	20.90	20.07	25.49	5.20	99	8.20	8-0	0
	10	20.70	20.07	25.49	5.33	101	8.28	8-5	0
Stn. 5	0	19.90	19.87	25.49	5.67	106	8.28	6-4	0
	20	19.90	19.89	25.52	5.38	101	8.21	7-1	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 -I
1954									
7.i	0	18.85	19.79	25.65	5.43	100			
	10	18.85	19.80	25.67	5.54	102	8.33	4-9	0
	20	18.75	19.81	25.70	5.61	103	8.31	4-3	0
	30	18.65	19.81	25.73	5.43	100	8.30	3-4	0
	40	18.60	19.82	25.76	5.54	102	8.30	3-5	0
	50	18.40	19.85	25.85	5.45	100	8.32	4-5	0
								6-6	0
10.ii	0	18.70	19.79	25.68	5.46	101	8.30		
	10	18.70	19.81	25.71	5.41	100	8.30	2-3	0
	20	18.70	19.82	25.73	5.53	102	8.31	0-7	0
	30	18.80	19.81	25.69	4.98	92	8.31	0-3	0
	40	18.70	19.82	25.73	5.52	102	8.31	4-1	0
	50	18.70	19.83	25.74	5.58	103	8.32	1-3	0
								1-4	0
9.iii	0	19.70	19.76	25.39	5.26	98	8.31		
	10	18.95	19.76	25.58	5.33	98	8.35	1-8	0
	20	18.90	19.76	25.60	5.41	100	8.34	5-5	0
	30	18.80	19.75	25.60	5.37	99	8.33	5-2	0
	40	18.80	19.75	25.60	5.30	98	8.34	3-9	0
	50	18.80	19.75	25.60	5.30	98	8.34	1-11	0
								0-10	0
7.iv	0	19.70	19.83	25.48	5.49	103	8.32		
	10	19.70	19.86	25.52	5.47	102	8.32	5-6	0
	20	19.70	19.86	25.52	5.35	100	8.32	9-0	0
	30	19.75	19.89	25.56	5.30	99	8.32	9-2	0
	40	19.70	19.89	25.57	5.47	102	8.32	9-0	0
	50	19.70	19.89	25.57	5.40	103	8.32	6-18	0
								7-2	0
9.vi	0	19.80	19.67	25.47	5.36	100	8.16		
	10	19.80	19.67	25.47	5.22	98	8.18	6-17	0
	20	19.80	19.73	25.55	5.17	97	8.18	7-13	0
	30	19.80	19.73	25.55	5.22	98	8.18	7-5	0
	40	19.80	19.73	25.55	5.36	100	8.18	7-5	26
	50	19.80	19.73	25.55	5.22	98	8.18	5-8	0
								5-5	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
1954 6.vii	0	17.80	19.76	25.87	5.34	96	8.15	5-2	2
	10	17.80	19.75	25.85	5.58	101	8.16	6-1	0
	20	17.80	19.73	25.82	5.58	101	8.16	6-2	0
	30	17.70	19.72	25.84	5.53	100	8.16	5-3	2
	40	17.70	19.73	25.85	5.53	100	8.16	6-3	2
	50	17.70	19.72	25.84	5.41	97	8.16	8-0	6
4.viii	0	17.60	19.78	25.95	5.42	98	8.15	2-23	0
	10	17.60	19.78	25.95	5.58	101	8.16	1-12	0
	20	17.60	19.78	25.95	5.66	102	8.16	2-8	0
	30	17.60	19.82	26.01	5.66	102	8.16	3-10	0
	40	17.40	19.78	26.00	5.53	100	8.16	2-11	0
	50	17.20	19.80	26.08	5.58	100	8.15	3-10	0
12.x	0	17.90	19.69	25.75	5.37	97	8.20	9-4	0
	10	17.80	19.72	25.81	5.48	99	8.21	8-6	0
	20	17.80	19.75	25.85	5.54	100	8.21	10-2	0
	30	17.70	19.78	25.93	5.50	100	8.21	10-2	0
	40	17.70	19.79	25.93	5.48	99	8.21	10-4	0
	50	17.60	19.80	25.98	5.44	98	8.21	10-3	0
2.xi	0	18.25	19.80	25.82	5.50	100	8.20	4-10	0
	10	18.30	19.81	25.82	5.55	101	8.22	5-3	0
	20	18.00	19.81	25.89	5.52	100	8.22	4-9	0
	30	18.20	19.82	25.86	5.45	99	8.22	2-10	0
	40	18.30	19.83	25.87	5.45	99	8.22	5-4	0
	50	18.20	19.86	25.91	5.55	101	8.23	4-6	0
7.xii	0	18.80	19.75	28.60	5.47	101	8.27	7-1	0
	10	18.80	19.75	28.60	5.54	102	8.27	5-1	0
	20	18.80	19.75	28.60	5.66	104	8.27	4-4	0
	30	18.80	19.77	28.63	5.66	104	8.27	6-2	0
	40	18.80	19.77	28.63	5.66	104	8.27	6-3	0
	50	18.80	19.77	28.63	5.66	104	8.27	4-3	0

F.R.V. "Derwent Hunter"
Cruise 9, Part 2

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 31.1	21/54	37°05' S. 150°13' E.	0	21.20		
			25	15.95		
			50	12.00		
			75	11.95		
1.11	22/54	37°08' S. 150°25' E.	0	22.40		
			25	17.75		
			50	16.18		
			75	15.00		
1.11	23/54	37°10' S. 150°35' E.	100	14.20		
			0	22.50		
			25	18.15		
			50	16.05		
			75	15.45		
			100	14.70		
			150	14.95		
			200	12.05		
250	11.10					
1.11	24/54	37°12' S. 150°45' E.	300	10.35		
			400	8.85		
			500	8.00		
			0	23.70		
			25	22.50		
			50	18.60		
			75	17.75		
			100	15.70		
150	14.75					
1.11	25/54	37°08' S. 151°22' E.	200	15.00		
			250	12.30		
			300	13.45		
			400	11.90		
			500	10.80		
			0	25.85		
	25	25.60				
	50	22.70				
	75	18.30				
	100	17.60				
	150	15.95				

F.R.V. "Derwent Hunter"
Cruise 9, Part 2

σ_t	O_2	$O_2 \%$	pH	PO_4P	NO_3N

F.R.V. "Derwent Hunter"
Cruise 9, Part 2

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 1.11	25/54	37°08' S. 151°22' E.	200	14.90		
			250	14.35		
			300	12.00		
			400	11.15		
			500	9.80		
2.11	26/54	37°05' S. 153°02' E.	0	21.20		
			25	19.55		
			50	17.50		
			75	16.35		
			100	15.30		
			150	13.40		
			200	12.40		
			250	11.85		
			300	11.40		
			400	10.23		
500	9.00					
4.11	27/54	36°56' S. 155°10' E.	0	19.62		
			50	16.22		
			75	15.22		
			100	14.40		
			150	13.35		
			200	12.40		
			250	12.00		
			300	11.40		
			400	9.55		
			500	9.00		
5.11	28/54	37°08' S. 156°15' E.	0	21.15	19.70	35.59
			25	21.00	19.68	35.55
			50	19.00	19.66	35.52
			75	16.95	19.62	35.42
			100	15.60	19.60	35.41
			150	14.42	19.55	35.32
			200	13.15	19.51	35.25
			250	12.45	19.46	35.16
			300	11.55	19.38	35.01
			400	10.20	19.34	34.94
500	9.20	19.19	34.67			

F.R.V. "Derwent Hunter"
Cruise 9, Part 2

σ_t	O ₂	O ₂ ‰	pH	PO ₄ P	NO ₃ N
24.92	4.95	94		3	6
24.93	5.30	101		3	0
25.43	5.01	92		7	6
25.88	4.30	77		5	43
26.17	4.91	85		8	43
26.36	4.55	77		11	184
26.57	4.96	83		14	238
26.64	4.91	80		14	254
26.71	4.96	80		22	253
26.89	4.97	78		24	319
26.85	4.95	76		18	321

F.R.V. "Derwent Hunter"
Cruise 9, Part 2

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 5.11	29/54	38°35' S. 156°20' E.	0	18.05		
			25	17.78		
			50	16.10		
			75	14.45		
			100	14.00		
			200	12.45		
			250	11.98		
			300	11.40		
			400	10.99		
			500	9.20		
6.11	30/54	40°05' S. 156°14' E.	0	17.60		
			25	17.60		
			50	17.60		
			75	16.20		
			100	14.38		
			150	13.55		
			200	13.00		
			250	12.60		
			300	12.20		
			400	11.00		
500	8.78					
6.11	31/54	41°15' S. 156°14' E.	0	15.78		
			25	15.65		
			50	14.90		
			75	13.05		
			100	12.60		
			150	12.15		
			200	11.42		
			250	10.75		
			300	10.30		
			7.11	32/54	42°33' S. 156°15' E.	0
25	14.70	19.28				34.83
50	14.60	19.29				34.85
75	11.65	19.21				34.70
100	11.40	19.25				34.78
150	10.05	19.25				34.78
200	9.38	19.22				34.78

F.R.V. "Derwent Hunter"
Cruise 9, Part 2

σ_t	O ₂	O ₂ %	pH	PO ₄ P	NO ₃ N
25.95				6	0
25.92				6	0
25.96				6	0
26.45				9	0
26.55				7	83
26.79				20	72
26.86				20	172

F.R.V. "Derwent Hunter"
Cruise 9, Part 2

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 7.11	32/54	42°33' S. 156°15' E.	250	9.05	19.17	34.63
			300	9.00	19.16	34.61
			400	8.60	19.13	34.56
			500	8.05	19.12	34.54
8.11	33/54	42°17' S. 154°30' E.	0	14.80		
			25	14.55		
			50	14.40		
			75	13.05		
			100	12.08		
			150	11.30		
			200	10.75		
			250	10.05		
			300	9.80		
			400	8.80		
500	8.30					
9.11	34/54	42°28' S. 152°45' E.	0	15.55		
			25	15.40		
			50	15.40		
			75	13.59		
			100	12.45		
			150	11.90		
			200	11.62		
			250	11.10		
			300	10.65		
			400	9.60		
500	8.90					
10.11	35/54	42°24' S. 151°00' E.	0	15.58		
			25	15.50		
			50	15.00		
			75	12.75		
			150	11.10		
			200	10.55		
			250	10.20		
			300	9.80		
400	9.02					
500	8.40					

F.R.V. "Derwent Hunter"
Cruise 9, Part 2

σ_t	O ₂	O ₂ ‰	pH	PO ₄ P	NO ₃ N
26.84				20	151
26.84				18	222
26.85				31	282
26.93				31	299

F.R.V. "Derwent Hunter"
Cruise 9, Part 2

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 10.11	36/54	42°20' S. 149°17' E.	0	16.70		
			25	16.62		
			50	16.60		
			75	14.42		
			100	13.75		
			150	13.30		
			200	12.60		
			250	12.10		
			300	11.60		
			400	10.40		
500	9.40					
10.11	37/54	42°26' S. 148°42' E.	0	16.20		
			25	16.00		
			50	16.00		
			75	13.30		
			100	12.50		
11.11	38/54	42°36' S. 148°16' E.	0	16.75	19.43	35.10
			20	15.55	19.46	35.16
			50	14.60	19.41	35.07
13.11	39/54	42°06' S. 148°39' E.	0	18.50	19.68	35.55
			25	17.75	19.64	35.46
			50	17.22	19.61	35.43
			75	15.70	19.57	35.36
			100	14.00	19.62	35.42
			150	12.80	19.60	35.41
			200	12.40	19.48	35.15
			250	12.25	19.41	35.07
			300	10.35	19.34	34.94
			400	9.00	19.20	34.69
500	8.40	19.17	34.63			
14.11	40/54	41°33' S. 149°25' E.	0	17.60	19.63	35.44
			25	17.60	19.66	35.52
			50	16.62	19.61	35.43
			75	14.45	19.55	35.32
			100	14.00	19.59	35.39
			150	13.10	19.59	35.39
200	12.18	19.53	35.28			

F.R.V. "Derwent Hunter"
Cruise 9, Part 2

σ_t	O ₂	O ₂ %	pH	PO ₄ P	NO ₃ N
25.67	5.36	95		4-7	0
25.98	5.92	102		6-4	0
26.13	5.01	85		8-4	8
25.58	5.67	104		3	13
25.71	5.66	102		1	0
25.80	5.48	98		3	0
26.11	5.30	92		10	97
26.54	5.49	93		4	0
26.77	5.49	91		5	54
26.68	5.34	87		15	158
26.61	5.30	86		17	204
26.86	5.55	87		23	211
26.89	4.82	73		32	311
26.95				33	312
25.74	5.67	102		6	0
25.78	5.55	100		3	6
25.95	5.60	99		3	0
26.35	5.55	94		9	0
26.51	5.41	91		6	145
26.69	5.42	90		12	151
26.79	5.26	86		19	250

F.R.V. "Derwent Hunter"
Cruise 9, Part 2

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 14.11	40/54	41°33' S. 149°25' E.	250	11.50	19.47	35.18
			300	11.18	19.45	35.14
			400	9.90	19.35	34.96
			500	8.70	19.25	34.79
15.11	41/54	40°37' S. 150°40' E.	0	17.30	19.50	35.23
			25	16.80	19.50	35.23
			50	15.40	19.48	35.20
			75	13.40	19.48	35.20
			100	12.78	19.45	35.14
			150	12.00	19.43	35.10
			200	11.20	19.39	35.03
			250	10.80	19.37	34.99
			300	10.40	19.26	34.81
			400	9.25	19.21	34.71
			500	8.75	19.17	34.63
15.11	42/54	39°43' S. 151°55' E.	0	17.80	19.50	35.23
			50	17.30	19.58	35.37
			200	12.80	19.54	35.30
			250	12.20	19.50	35.23
			300	12.00	19.50	35.23
			400	11.20	19.43	35.10
			500	9.80	19.29	34.84
16.11	43/54	38°45' S. 153°11' E.	0	18.35	19.46	35.16
			25	17.35	19.51	35.25
			50	14.80	19.48	35.20
			75	13.80	19.49	35.22
			100	13.25	19.49	35.22
			150	12.25	19.45	35.14
			200	11.75	19.42	35.08
			250	11.35	19.37	34.99
			300	10.90	19.34	34.94
			400	9.30	19.25	34.79
			500	8.55	19.18	34.65
17.11	44/54	37°47' S. 154°25' E.	0	19.55	19.37	34.99
			25		19.56	35.33
			50	15.75	19.60	35.41
			75	14.75	19.56	35.33

F.R.V. "Derwent Hunter"
Cruise 9, Part 2

σ_t	O ₂	O ₂ %	pH	PO ₄ P	NO ₃ N
26.84	5.24	85		19	253
26.87	5.20	83		22	269
26.95	4.93	77		31	360
27.01	4.84	73		35	380
25.64	4.95	88		13	0
25.76	5.70	101		9	0
26.05	5.48	95		11	0
26.48	5.41	90		11	0
26.57	4.66	77		15	37
26.69	5.26	102		21	61
26.78	5.25	84		26	69
26.82	5.36	85		22	17
26.74	5.41	85		26	122
26.87	5.32	81		31	92
26.89	5.05	77		35	231
25.51	5.55	100		4	0
25.75	5.28	94		4	0
26.68	3.84	63		18	46
26.75	5.32	87		5	39
26.78	4.17	68		9	99
26.84	5.00	80		11	186
26.88	5.20	81		11	121
25.32	5.41	99		0	0
25.63	5.66	101		0	0
26.18	5.26	90		0	0
26.41	4.89	82		3	51
26.53	5.25	88		8	85
26.67	5.41	88		9	122
26.72	5.41	88		11	118
26.72	5.48	88		11	137
26.77	5.25	83		6	103
26.92	5.12	79		21	228
26.92	5.07	76		23	228
24.89	5.41	100		0	0
	5.41			0	0
26.14	5.66	99		0	0
26.31	5.36	92		1	27

F.R.V. "Derwent Hunter"
Cruise 9, Part 2

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 17.11	44/54	37°47' S. 154°25' E.	100	14.20	19.56	35.33
			150	13.15	19.56	35.33
			200	12.05	19.40	35.05
			250	11.35	19.39	35.03
			300	10.95	19.36	34.97
			400	9.40	19.22	34.73
			500	8.35	19.16	34.61
18.11	45/54	37°04' S. 156°01' E.	0	22.20	19.52	35.27
			25	22.10	19.65	35.48
			50	18.40	19.65	35.48
			75	16.30	19.66	35.50
			100	15.40	19.58	35.38
			150	14.30	19.54	35.30
			200	13.35	19.46	35.16
			250	12.55	19.49	35.22
			300	11.80	19.39	35.03
			400	10.40	19.30	34.87
500	9.00	19.19	34.67			
19.11	46/54	35°27' S. 156°00' E.	0	23.30		
			25	22.90		
			50	19.20		
			75	17.20		
			100	16.10		
			150	14.70		
			200	13.70		
			250	15.20		
			300	14.30		
			400	13.00		
500	12.00					
19.11	47/54	33°50' S. 156°00' E.	0	24.20		
			25	24.30		
			50	23.50		
			75	23.40		
			100	22.50		
			150	19.30		
200	16.90					
250	16.40					

F.R.V. "Derwent Hunter"
Cruise 9, Part 2

σ_t	O ₂	O ₂ %	pH	PO ₄ P	NO ₃ N
26.42	5.41	92		0	0
26.64	5.27	88		5	60
26.63	5.22	85		6	103
26.75	5.14	83		9	144
26.79	5.14	82		11	192
26.85	4.91	75		12	179
26.93	4.96	75		26	313
24.38	5.07	98		3	0
24.59	5.14	99		6	0
25.57	4.96	91		8	0
26.09	5.07	89		10	0
26.19	4.78	83		10	71
26.37	4.54	77		17	99
26.71	4.68	78		23	34
26.67	4.78	78		13	101
26.67	4.78	77		21	119
26.80	4.61	73		24	101
26.88	4.78	73		19	89

F.R.V. "Derwent Hunter"
Cruise 9, Part 2

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 19.11	47/54	33°50' S. 156°00' E.	300	15.40		
			400	14.15		
			500	12.40		
20.11	48/54	33°50' S. 154°30' E.	0	26.10		
			25	26.10		
			50	26.10		
			75	25.00		
			100	24.40		
			150	21.70		
			200	20.80		
			250	20.95		
			300	20.25		
			400	18.25		
500	15.40					
21.11	49/54	33°50' S. 153°00' E.	0	22.70		
			25	22.70		
			50	18.90		
			75	17.70		
			100	16.10		
			150	15.10		
			200	13.40		
			250	13.40		
			300	12.60		
			400	10.90		
500	9.60					
21.11	50/54	33°50' S. 152°27' E.	0	22.60		
			25	22.50		
			50	18.10		
			75	17.20		
			100	15.60		
			150	13.40		
			200	13.60		
			250	12.60		
300	11.20					
400	9.75					
500	8.30					

F.R.V. "Derwent Hunter"
Cruise 9, Part 3.

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 7.111	51/54	37°40' S. 150°30' E.	0	20.70		
			25	20.70	19.70	35.59
			50	20.80		
			75	18.90	19.66	35.52
			100	16.80	19.64	35.48
			200	13.90	19.48	35.19
8.111	52/54	38°41' S. 150°38' E.	0	19.70	19.68	35.55
			25	19.70	19.70	35.59
			50	19.60	19.70	35.59
			75	17.40	19.67	35.53
			100	16.00	19.61	35.43
			200	13.20	19.50	35.23
8.111	53/54	39°30' S. 150°00' E.	0	19.50	19.72	35.62
			25	19.20	19.68	35.55
			50	19.00	19.72	35.62
			75	16.80	19.64	35.48
			100	15.30	19.61	35.43
			200	14.00	19.50	35.23
9.111	54/54	40°25' S. 149°12' E.	0	17.70	19.67	35.53
			25	17.70	19.68	35.55
			50	17.20	19.68	35.55
			75	15.70	19.60	35.41
			100	14.80	19.58	35.37
			200	13.50	19.52	35.26
9.111	55/54	41°32' S. 148°24' E.	0	17.70	19.64	35.48
			25	17.70	19.63	35.46
			50	16.00	19.56	35.34
			75	14.40	19.55	35.32
			100	13.80		
			200	12.40	19.45	35.14
9.111	57/54	41°18' S. 148°30' E.	0	16.70	19.59	35.39
			25	16.10	19.56	35.34
			50	15.10	19.48	35.19
			75	14.90	19.50	35.23
			100	13.90	19.48	35.19

F.R.V. "Derwent Hunter"
Cruise 9, Part 3

σ_t	O ₂	O ₂ ‰	pH	PO ₄ P	NO ₃ N
				Total P.	
25.04					
25.46					
25.94					
26.37					
25.28	5.25	98		13	
25.31				11	
25.33	5.22	97		14	
25.84	5.22	94		13	
26.09				22	
26.55	4.26	71		27	
25.39	4.86	90		8	
25.40	4.96	92		12	
25.52				20	
25.94	4.36	77			
26.25	4.51	78		21	
26.38	4.67	79		19	
25.77	5.05	91		15	
25.78	4.82	87		18	
25.90	5.07	91			
26.15	4.91	85		18	
26.33	4.53	78		14	
26.51				13	
25.73				16	
25.72				15	
26.03	4.88	85		18	
26.36	4.94	84		13	
	4.82				
26.64	4.17	68		24	
25.90	5.42	96		13	
26.00	5.42	95		19	
26.11	5.22	90		24	
26.19	4.94	85		16	
26.37	4.55	77		21	

F.R.V. "Derwent Hunter"
Cruise 9, Part 3

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 10.111	58/54	40°49' S. 148°30' E.	0	15.60		
			25	14.90	19.52	35.26
			50	13.50	19.48	35.19
10.111	59/54	40°35' S. 147°25' E.	0	17.40	19.69	35.57
			25	17.00	19.70	35.59
			50	17.00	19.68	35.55
10.111	60/54	40°15' S. 146°40' E.	0	16.80	19.74	35.66
			25	16.80	19.72	35.62
			50	15.80		
			75	14.80	19.48	35.19
11.111	61/54	39°37' S. 146°15' E.	0	16.80	19.71	35.61
			25	16.80	19.68	35.55
			50	16.80	19.68	35.55
			75	14.50	19.58	35.37
12.111	62/54	39°10' S. 145°30' E.	0	16.80	19.65	35.50
			25	16.80		
			50	16.80	19.69	35.57
12.111	66/54	38°45' S. 144°30' E.	0	16.80	19.65	35.50
			25	16.80	19.66	35.52
			50	16.80	19.61	35.43
			75	14.50	19.52	35.26
18.111	69/54	39°20' S. 143°25' E.	0	15.90	19.57	35.35
			25	15.80	19.58	35.37
			50	15.80	19.56	35.34
			75	15.10	19.55	35.32
			100	13.30	19.47	35.17
18.111	71/54	38°30' S. 142°16' E.	0	15.90	19.60	35.41
			25	15.90	19.61	35.43
			50	16.00	19.60	35.41

F.R.V. "Derwent Hunter"
Cruise 9, Part 3

σ_t	O ₂	O ₂ %	pH	PO ₄ P	NO ₃ N
	4.79			Total P.	
26.22	4.66	80		17	
26.45	4.76	80		22	
25.87	5.12	92		13	
25.98	5.12	91		13	
25.95	5.25	93		13	
26.08	5.25	93		10	
26.06	5.05	90		10	
	4.67				
26.18	4.32	74		24	
26.05				10	
26.00	5.02	89		10	
26.00	5.28	94		12	
26.39				12	
25.96	5.25	93		8	
	5.42				
26.02	5.36	95		13	
25.96	5.16	92		15	
25.97	5.31	94		11	
25.90	5.55	98		12	
26.30	4.76	81		12	
26.06	6.09	106		8	
26.10	6.05	105		9	
26.07	5.70	99		6	
26.21	5.70	101		9	
26.49	5.64	94		24	
26.10	6.03	105		9	
26.11	5.90	103		7	
26.08	5.97	104		11	

F.R.V. "Derwent Hunter"
Cruise 9, Part 3

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 18.iii	72/54	39°45' S. 142°20' E.	0	15.10	19.52	35.26
			25	15.10	19.52	35.26
			50	15.10	19.51	35.25
			75	15.10	19.51	35.25
			100	12.30	19.39	35.03
			200	10.70	19.38	35.01
21.iii	73/54	40°50' S. 143°10' E.	0	14.90	19.46	35.16
			25	14.70	19.45	35.14
			50	14.70	19.43	35.10
			75	14.30	19.44	35.12
			100	12.00	19.37	34.99
			200	10.50	19.37	34.99
21.iii	74/54	41°25' S. 144°15' E.	0	14.10	19.39	35.03
			25	14.10	19.38	35.01
			50	13.70	19.38	35.01
			75	14.00	19.37	34.99
			100	12.10	19.39	35.03
			200	11.40	19.43	35.10
21.iii	75/54	40°20' S. 144°26' E.	0	14.20	19.43	35.10
			25	14.20	19.41	35.07
			50	14.10	19.43	35.10
11.iii	82/54	39°48' S. 145°35' E.	0	16.70	19.64	35.48
			25	16.70	19.68	35.55
			50	16.70	19.66	35.52
			75	14.80	19.60	35.41
24.iii	83/54	39°37' S. 146°15' E.	0	16.00	19.62	35.44
			25	16.00	19.57	35.35
			50	15.90	19.59	35.39
			75	15.90	19.58	35.37
25.iii	83a/54	39°10' S. 145°30' E.	0	15.40	19.59	35.39
			25	15.40	19.60	35.41
			50	15.50	19.60	35.41
			75	15.50	19.60	35.41

F.R.V. "Derwent Hunter"
Cruise 9, Part 3

σ_t	O ₂	O ₂ ‰	pH	PO ₄ P	NO ₃ N
				Total P.	
26.17	5.90	102		9	
26.17	6.03	104		9	
26.15	5.83	100		8	
26.15	6.09	105		7	
26.57	6.09	100		15	
26.86	5.65	90		18	
26.13	6.78	116		13	
26.17				10	
26.14	6.11	104		9	
26.23	6.03	102		11	
26.60	6.26	101		17	
26.88	5.65	89		21	
26.20				12	
26.20	6.29	106		17	
26.28	6.20	104		15	
26.20	6.20	104		10	
26.61				17	
26.80	4.97	80		20	
26.24	6.05	102		32	
26.21	6.39	108		23	
26.26	5.98	101		22	
25.97	5.16	91		12	
26.02	5.12	91		12	
26.00	5.28	93		11	
26.35	4.83	83		19	
26.10	5.90	103		11	
26.04				10	
26.09	5.75	100		9	
26.08	5.90	103		14	
26.20	5.65	98		12	
26.22	5.76	100		12	
26.19	5.70	99		12	
26.19	5.70	99		18	

A.S.V. "Derwent Hunter"
Cruise 9, Part 3

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954						
25.111	85/54	39°25' S. 146°41' E.	0	16.10	19.65	35.50
			25	16.10	19.62	35.44
			50	16.00	19.63	35.46
			75	16.00	19.62	35.44
26.111	87/54	38°45' S. 147°45' E.	0	16.20	19.67	35.53
			25	16.20	19.67	35.53
			50	16.20	19.67	35.53
26.111	88/54	38°47' S. 149°10' E.	0	18.30	19.65	35.50
			25	18.30	19.67	35.53
			50	15.60	19.60	35.41
			75	15.80	19.59	35.39
			100	15.50	19.56	35.34
			200	12.60	19.51	35.25

F.R.V. "Derwent Hunter"
Cruise 9, Part 3

σ_t	O ₂	O ₂ ‰	pH	PO ₄ P	NO ₃ N
26.13	5.97	105		Total P.	
26.08	5.90	103		9	
26.12	5.57	97		13	
26.10	5.32	93		11	
				8	
26.13	5.75	101		11	
26.13	5.61	98		9	
26.13	5.35	94		8	
25.60	5.77	105		10	
25.62	5.77	105		18	
26.17	5.01	87		23	
26.11	5.61	98		18	
26.14	5.64	98		24	
26.68	5.20	85		18	

F.R.V. "Derwent Hunter"
Cruise 13, Part 2

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 6.xi	123/54	38°30' S. 144°30' E.	0	14.40	19.68	35.55
			25	14.70	19.68	35.55
			50	13.10	19.72	35.62
			68	13.08		
7.xi	126/54	39°20' S. 143°20' E.	0	13.80	19.64	35.48
			25	13.50	19.64	35.48
			50	13.40	19.64	35.48
			75	13.40	19.64	35.48
			95	13.40	19.64	35.48
8.xi	128/54	38°30' S. 142°16' E.	0	14.30	19.68	35.55
			25	14.60	19.69	35.57
			40	14.10	19.66	35.52
8.xi	129/54	39°01' S. 142°25' E.	0	13.10	19.54	35.30
			15	13.30	19.55	35.32
			30	12.80	19.54	35.30
			45	13.00	19.54	35.30
			60	13.00	19.55	35.32
			90	12.70	19.57	35.35
			120	12.80	19.57	35.35
			180	12.80	19.57	35.35
			300	10.96	19.40	35.05
			9.xi	130/54	39°45' S. 142°20' E.	0
25	13.00	19.52				35.26
50	12.80	19.52				35.26
75	12.70	19.53				35.28
100	12.70					
150	12.70	19.53				35.28
190	12.30	19.53				35.28
275	11.38	19.49				35.21
10.xi	131/54	40°50' S. 143°10' E.	0	12.70	19.50	35.23
			23	12.70		
			46	12.50		
			92	12.50	19.51	35.25
			136	12.30	19.50	35.23
			176	12.00	19.48	35.19

F.R.V. "Derwent Hunter"
Cruise 13, Part 2

σ_t	O ₂	O ₂ %	pH	PO ₄ P	NO ₃ N
26.54	5.66	96		6-14	3
26.48	5.88	101		7-1	4
26.87	5.72	95		3-0	2
26.61	5.93	100		3-8	6
26.67	5.88	98		7-0	2
26.70	5.82	97		8-0	7
26.70	5.86	98		10-0	5
26.70	5.85	98		6-0	9
26.56	4.77	81		6-0	23
26.52	4.43	76		3-7	16
26.58	4.48	76		12-0	16
26.62				7-1	23
26.59	6.19	103		8-5	27
26.68	5.82	96		4-7	4
26.64	5.93	98		7-1	36
26.65	5.66	94		6-2	29
26.74	5.72	94		7-5	21
26.72	5.60	92		7-1	26
26.72	4.65	77		5-6	48
26.83	4.52	72		14-9	74
26.49	5.24	88		11-0	18
26.62	3.88	64		4-9	28
26.66	3.35	55		8-6	8
26.68	2.78	46		12-0	20
26.68	3.13	52		7-1	26
26.76	2.07	34		9-0	18
26.89	2.76	44		6-9	3
	2.81			19-3	32
26.65	5.02	83		10-8	11
26.70	5.30	87		6-6	8
26.73	5.77	95		8-0	5
26.76				7-7	17

F.R.V. "Derwent Hunter"
Cruise 13, Part 2

Date	Station	Position	Depth (m)	Temp: °C	Cl. ‰	S ‰
1954 10.xi	131/54	40°50' S. 143°10' E.	264	11.48	19.47	35.17
			440	9.15	19.22	34.72
10.xi	132/54	41°25' S. 144°15' E.	0	12.70	19.47	35.17
			20	12.30	19.47	35.17
			40	11.90	19.47	35.17
			59	11.80	19.46	35.16
			77	11.70	19.44	35.12
			116	11.48	19.42	35.08
			155	11.18	19.37	34.99
			249	10.36	19.31	34.88
			438	8.75	19.18	34.65
10.xi	133/54	40°20' S. 144°26' E.	0	13.00	19.53	35.28
			25	13.00	19.51	35.25
			50	13.00	19.51	35.25
11.xi	136/54	39°55' S. 145°30' E.	0	13.40	19.59	35.39
			25	13.30	19.59	35.39
			50	13.00	19.59	35.39
13.xi	141/54	40°35' S. 147°35' E.	0	13.20	19.41	35.07
			25	13.20	19.41	35.07
			35	13.20	19.41	35.07
13.xi	142/54	40°29' S. 148°30' E.	0	12.80	19.23	34.74
			25	12.80	19.36	34.97
			50	12.70	19.42	35.08
13.xi	143/54	41°18' S. 148°30' E.	0	12.98	19.42	35.08
			25	12.80	19.42	35.08
			50	12.60	19.36	34.97
			75	12.18	19.42	35.08
			100	12.18	19.42	35.08
13.xi	144/54	41°25' S. 148°40' E.	0	13.38	19.50	35.23
			20	13.38		
			40	13.38	19.53	35.28
			60	13.08	19.51	35.25
			80	12.86	19.47	35.17
			120	12.07	19.45	35.14

F.R.V. "Derwent Hunter"
Cruise 13, Part 2

σ_t	O ₂	O ₂ ‰	pH	PO ₄ P	NO ₃ N
26.86	5.48	88		3-8	5
26.89	3.03	46		11-12	91
26.61	5.96	98		13-6	10
26.69	5.13	84		10-3	12
26.76				9-6	19
26.76	5.52	89		7-1	55
26.75	5.88	95		2-14	33
26.77	4.88	95		9-6	51
26.76	5.66	90		16-7	26
26.82	5.29	83		20-0	83
26.90	5.07	59		14-6	123
26.62	6.13	102		9-3	7
26.60	5.75	95		4-14	24
26.60	5.57	92		6-12	22
26.63	5.41	90		10-17	20
26.65	4.43	74		7-2	18
26.71	3.41	57		1-13	21
26.42				6-16	21
26.42				12-1	17
26.42				2-13	30
26.27	5.72	94		7-14	32
26.44	5.35	88		7	14
26.51	3.38	56		7-15	30
26.48				12-1	24
26.51	5.72	94		12-7	27
26.47	5.51	90		5-15	33
26.63	4.65	76		11-7	50
26.63	5.38	88		18-0	22
26.51	6.19	103		4-12	43
26.55	5.93	99		7-11	19
26.58	5.42	90		2-7	32
26.58	5.47	92		5-8	22
26.70	5.91	96		8-11	21

F.R.V. "Derwent Hunter"
Cruise 13, Part 2

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 13.xi	144/54	41°25' S. 148°40' E.	160	11.85	19.42	35.08
			240	11.54	19.39	35.03
			400	9.75	19.23	34.74
17.xi	146/54	40°15' S. 146°40' E.	0	13.20	19.46	35.16
			25	13.30	19.49	35.21
			50	13.20	19.51	35.25
			80	12.40	19.61	35.43
17.xi	147/54	39°45' S. 146°05' E.	0	13.38	19.57	35.35
			25	13.38	19.57	35.35
			50	13.68	19.57	35.35
			80	13.57	19.66	35.52
17.xi	149/54	39°10' S. 145°30' E.	0	13.60	19.70	35.59
			25	13.60	19.72	35.62
			50	13.50	19.75	35.68
			75	13.00	19.70	35.59
18.xi	152/54	39°25' S. 146°40' E.	0	14.80	19.66	35.52
			25	13.60	19.67	35.53
			50	13.80		
			75	13.20	19.70	35.59
19.xi	155/54	38°47' S. 149°10' E.	0	15.96	19.60	35.41
			23	15.80		
			46	15.18	19.60	35.41
			68	13.80	19.57	35.35
			91	13.14	19.57	35.35
			136	12.58	19.53	35.28
			182	11.96	19.48	35.19
			272	11.20	19.39	35.03
			460	8.70	19.24	34.76
20.xi	157/54	37°40' S. 150°30' E.	0	17.80	19.70	35.59
			12	17.80	19.66	35.52
			24	17.80		
			32	17.60	19.67	35.53
			48	16.68	19.67	35.53
			63	15.16	19.66	35.52
			155	14.13	19.57	35.35

F.R.V. "Derwent Hunter"
Cruise 13, Part 2

σ _t	O ₂	O ₂ %	pH	PO ₄ P	NO ₃ N
26.70	6.00	97		2-20	10
26.71	5.97	96		2	11
26.81	5.06	78		24-7	100
26.49	5.22	87		6-4	14
26.52	4.92	82		2-17	0
26.56	5.42	90		2-15	0
26.86	4.32	71		1-11	0
26.61	4.88	81		2-10	6
26.61	5.91	99		3-8	0
26.54	5.55	93		8-9	2
26.69	5.69	95		0-6	6
26.74	5.82	98		3-10	0
26.77	5.85	98		8-1	0
26.83	5.88	99		9-1	0
26.86	5.69	95		13-0	0
26.43	5.60	96		8-0	5
26.70	5.72	96		12-0	15
26.82	4.46	74		13-0	17
26.09	4.57	80		12-3	61
26.27	5.63	97		18-0	91
26.52	5.01	87		25-0	26
26.65	4.57	76			58
26.71	5.25	88		22-1	99
26.76	5.25	85		27-0	68
26.78	4.38	70		37-0	104
26.99	4.71	71		40-0	154
25.79	5.60	101		9-2	7
25.73	5.51	99		12-1	1
25.80	5.35	96		11-10	7
26.02	5.35	95		11-2	7
26.35	4.77	82		16-0	24
26.45	4.35	74		26-0	63

F.R.V. "Derwent Hunter"
Cruise 13, Part 2

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 20.xi	157/54	37°40' S. 150°30' E.	233 388	12.11 9.69	19.50 19.32	35.23 34.90

F.R.V. "Derwent Hunter"
Cruise 13, Part 2

O ₂	O ₂	O ₂ ‰	pH	PO ₄ P	NO ₃ N
26.76 26.95	4.35 4.59	71 71		11-10 38-0	14 146

F.R.V. "Derwent Hunter"
Cruise 13, Part 3

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 23.xi	158/54	37°04' S. 150°05' E.	0	14.99	19.46	35.16
			13	15.12	19.43	35.10
			26	15.06	19.41	35.07
			41	14.99	19.42	35.08
			52	14.92	19.40	35.05
			64	14.75	19.46	35.16
			23.xi	159/54	37°05' S. 150°13' E.	0
			49	15.50	19.51	35.25
			116	15.11	19.51	35.25
23.xi	160/54	37°05' S. 150°25' E.	0	19.54	19.58	35.37
			40	18.15	19.68	35.55
			80	15.61	19.58	35.37
			160	12.72	19.44	35.12
			240	12.86	19.44	35.12
			398	10.23	19.32	34.90
			650	7.99	19.17	34.63
			880	6.17	19.10	34.51
			23.xi	161/54	37°05' S. 150°35' E.	0
40	19.30	19.61				35.43
70	19.16	19.61				35.43
143	15.15	19.55				35.32
150	14.01	19.52				35.26
160	12.74	19.43				35.10
273	11.08	19.34				34.94
387	9.61	19.24				34.76
23.xi	162/54	37°05' S. 150°45' E.	0	19.79	19.59	35.39
			39	19.40	19.62	35.44
			72	18.00	19.51	35.25
			140	14.40	19.47	35.17
			210	14.45	19.55	35.32
			350	13.69	19.51	35.25
			527	10.14	19.29	34.85
			704	7.71	19.14	34.58

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F.R.V. "Derwent Hunter"
Cruise 13, Part 3

St	O ₂	O ₂ %	pH	PO ₄ P	NO ₃ N
26.09	5.18	89		5-4	9
26.04	5.42	93		4-5	9
26.03	5.30	91		5-3	8
26.05	5.18	89		0-6	6
26.04	5.30	91		4-3	7
26.16	5.30	90		5-2	9
26.12	4.38	76		5-7	
26.06	4.01	69		3-14	
26.15	4.33	75		5-2	
25.19	4.60	86		0-12	
25.65	4.04	73		9-4	
26.15	4.83	84		11-9	
26.56	4.49	74		10-9	
26.53	5.18	86		0-12	
26.86	5.09	80			
27.01	4.63	69		24-19	
27.17	4.27	61		22-9	
25.30	5.12	95		3-12	
25.26	5.49	102		0-14	
25.32	5.12	95		0-10	
26.20	5.42	93		4-16	
26.41	4.90	83		6-9	
26.54	4.60	76		15-7	
26.73	4.69	75		20-0	
26.85	4.77	74		21-8	
25.13				8-4	
25.27				5-6	
25.48				17-3	
26.26				17-1	
26.35	4.83	82		13-2	
26.46	4.77	80		15-3	
26.72	4.49	71		23-4	
27.01	4.49	67		32-2	

F.R.V. "Derwent Hunter"
Cruise 13, Part 3

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 23.xi	163/54	37°05' S. 151°22' E.	0	19.75	19.61	35.43
			56	18.20	19.59	35.39
			110	15.46	19.61	35.43
			217	13.80	19.53	35.28
			325	12.34	19.40	35.05
			541	9.11	19.22	34.72
			726	7.10	19.13	34.56
			912	5.65	19.05	34.42
			24.xi	164/54	37°05' S. 153°02' E.	0
47	20.05	19.66				35.52
85	18.82	19.66				35.52
169	15.29	19.61				35.43
201	14.79	19.59				35.39
266	13.94	19.51				35.25
343	13.18	19.50				35.23
420	10.43	19.33				35.28
25.xi	165/54	37°05' S. 154°45' E.				0
			25	18.96		
			51	19.00	19.62	35.44
			75	17.94		
			100	15.09	19.58	35.37
			148	14.69		
			199	14.20	19.55	35.32
			248	13.64		
			293	12.92	19.50	35.23
25.xi	166/54	37°05' S. 156°15' E.	0	20.45	19.61	35.43
			25	19.38		
			50	16.11	19.61	35.43
			75	15.41		
			100	14.79	19.63	35.46
			152	13.59		
			204	12.48	19.42	35.08
			241	12.63		
			278	11.70	19.31	34.88
			426	9.75	19.26	34.79
			671	7.25	19.13	34.56
			916	5.58	19.06	34.43

F.R.V. "Derwent Hunter"
Cruise 13, Part 3

σ_t	O ₂	O ₂ %	pH	PO ₄ P	NO ₃ N
25.22	5.04	94		10-7	
25.58	5.18	94		13-12	
26.25	4.81	83		13-6	
26.49	5.90	99		18-0	
26.58	4.17	68		21-12	
26.90	4.90	75		30-5	
27.07	4.08	60		33-15	
27.14	4.27	61		43-10	
25.15	4.96	93		10-1	
25.15	5.12	96		10-0	
25.47	4.96	91		10-0	
26.25	4.87	84		15-4	
26.37	4.34	74		15-3	
26.40	4.30	73		19-4	
26.55	5.07	84		20-3	
26.83	4.42	70		24-7	
25.24	5.26	98		8-5	
25.37	5.04	93		9-2	
26.26	4.78	82		13-3	
26.40	5.20	88		11-5	
26.60	5.07	84		17-4	
26.87	4.84	75		25-9	
26.98	4.42	65		35-8	
27.14	4.11	58		39-1	
24.98	5.07	95		7-7	
26.06	4.60	81		15-5	
26.39	4.95	85		13-1	
26.57	4.91	80		21-7	
26.57	4.42	71		23-4	
26.85	4.78	74		26-1	
27.05	4.27	63		36-9	
27.17	4.14	59		40-11	

F.R.V. "Derwent Hunter"
Cruise 13, Part 3

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 26.xi	167/54	38°30' S. 156°15' E.	0	17.75	19.58	35.37
			25	17.65		
			52	17.55	19.54	35.30
			80	15.72		
			108	14.35	19.52	35.26
			160	12.84		
			213	12.19	19.39	35.03
			263	12.08		
			312	11.56	19.38	35.01
			511	8.78		
			762	7.00	19.19	34.67
			1012	5.40		
27.xi	168/54	39°15' S. 155°32' E.	0	18.93		
			25	18.84		
			49	18.08		
			79	15.44		
			110	14.28		
			165	14.04		
			220	12.98		
			265	12.53		
			310	11.69		
			506	9.07		
			750	7.14		
			1004	5.48		
27.xi	169/54	40°30' S. 156°15' E.	0	15.30	19.43	35.10
			27	14.90		
			58	14.90	19.45	35.14
			84	13.63		
			110	13.48	19.44	35.12
			161	12.72		
			212	12.37	19.42	35.08
			261	11.86		
			310	10.98	19.37	34.99
			508	10.08		
600	8.76	19.32	34.90			
700	8.37					
				19.20	34.69	
				19.18	34.65	

F.R.V. "Derwent Hunter"
Cruise 13, Part 3

St	O ₂	O ₂ %	pH	PO ₄ P	NO ₃ N
25.64	5.33	96		20-0	
25.63	5.23	94		10-0	
26.33	4.54	77		16-3	
26.59	4.33	71		22-4	
26.70	5.18	84		16-0	
26.91	4.51	68		28-10	
27.11	3.73	55		35-9	
27.17	4.04	57		42-5	
26.00	5.49	95		10-6	
26.12	5.36	92		14-0	
26.40	5.30	89		18-0	
26.64	5.46	90		18-3	
26.79	4.84	77		22-1	
26.82	4.81	75		27-0	
26.93	4.75	72		28-4	
26.96	4.95	74		35-13	

F.R.V. "Derwent Hunter"
Cruise 13, Part 3

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 28.xi	170/54	41°30' S. 156°15' E.	0	14.14		
			34	13.68		
			69	13.12		
			89	12.16		
			110	12.11		
			162	11.56		
			213	11.06		
			263	10.60		
			313	9.93		
			507	8.26		
28.xi	171/54	42°36' S. 156°15' E.	0	13.10	19.29	34.85
			28	12.39		
			56	12.25	19.27	34.81
			79	11.32		
			103	11.02	19.32	34.90
			150	10.57		
			200	10.02	19.25	34.78
			238	9.86		
			275	9.50	19.16	34.61
			427	8.44	19.15	34.60
29.xi	172/54	42°36' S. 154°45' E.	0	12.70	19.25	34.78
			25	12.05		
			52	11.80	19.29	34.85
			77	10.98		
			103	10.78	19.37	34.99
			152	10.17		
			203	9.71	19.25	34.78
			231	9.76		
			259	9.60	19.24	34.76
			372	8.49	19.16	34.61
29.xi	172/54	42°36' S. 154°45' E.	583	7.65	19.10	34.51
			794	6.35	19.07	34.45

F.R.V. "Derwent Hunter"
Cruise 13, Part 3

σ_t	O ₂	O ₂ ‰	pH	PO ₄ P	NO ₃ N
26.27	5.85	97		14-2	
26.42	6.07	99		10-14	
26.71	5.59	89		14-7	
26.79	5.63	88		20-5	
26.76	5.50	85		15-2	
26.91	5.33	80		25-14	
27.00	4.65	68		29-16	
27.12	4.27	60		37-21	
26.30	5.87	96		12-27	
26.52	5.90	95		10-10	
26.83	5.52	88		14-8	
26.85	5.55	86		17-10	
26.85	5.52	85		14-10	
26.92	5.07	76		20-17	
26.96	5.09	75		26-15	
27.09	4.43	64		32-16	

F.R.V. "Derwent Hunter"
Cruise 13, Part 3

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 29.xi	173/54	42°36' S. 152°45' E.	0	12.50	19.32	34.90
			25	12.55		
			52	11.75	19.28	34.83
			75	11.50		
			100	10.83	19.31	34.88
			150	11.43		
			195	9.77	19.23	34.74
			217	9.80		
			239	10.06	19.28	34.83
			328	8.90	19.18	34.65
			506	8.24	19.15	34.60
			683	7.43	19.14	34.58
			31.xi	174/54	42°36' S. 151°00' E.	0
28	13.50					
57	13.40	19.50				35.23
77	12.85					
102	12.23	19.36				34.97
152	11.32					
202	10.87	19.37				34.99
252	10.16					
303	9.80	19.28				34.83
507	8.08	19.13				34.56
763	6.35	19.10				34.51
1019	4.68	19.07				34.45
31.xi	175/54	42°24' S. 149°40' E.				0
			30	14.52		
			60	14.05	19.54	35.30
			85	13.53		
			110	12.83	19.51	35.25
			160	12.07		
			211	11.46	19.40	35.05
			260	10.74		
			311	10.28	19.33	34.92
			511	8.41	19.19	34.67
			764	6.84	19.10	34.51
			1018	4.92	19.06	34.43

F.R.V. "Derwent Hunter"
Cruise 13, Part 3

	O ₂	O ₂ ‰	pH	PO ₄ P	NO ₃ N
26.43	5.82	95		8-10	
26.52	6.03	97		10-11	
26.73	5.79	92		14-11	
26.81	5.49	85		14-9	
26.83	5.55	87		11-14	
26.88	5.59	85		15-14	
26.94	5.39	81		29-6	
27.05	5.12	76		35-6	
26.34	5.88	98		14-3	
26.51	5.82	97		17-1	
26.55	4.49	73		20-0	
26.81	5.23	83		24-1	
26.87	4.14	64		26-0	
26.93	4.90	73			
27.14	4.24	61		35-0	
27.29	5.02	70		38-0	
26.20	5.82	101		11-2	
26.43	5.52	93		15-2	
26.63	5.09	84		18-5	
26.74	4.96	80		23-5	
26.86	5.82	91		27-7	
26.97	4.92	74		30-14	
27.07	4.38	64		35-12	
27.26	4.24	59		41-20	

F.R.V. "Derwent Hunter"
Cruise 13, Part 3

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 1.xii	176/54	42°31' S. 149°10' E.	0	14.15	19.45	35.14
			26	12.46		
			52	11.97		
			75	11.67		
			100	11.26		
			152	10.82		
			200	10.51		
			241	9.99		
			282	9.69		
			449	8.42		
			680	7.15		
			910	5.64		
			1.xii	177/54		
25	12.80					
50	12.35					
75	11.99					
100	11.73					
150	11.38					
201	11.03					
243	10.96					
284	10.20					
451	8.52					
689	7.87					
927	5.64					
1.xii	178/54	42°36' S. 148°36' E.			0	13.45
			23	12.80		
			46	12.20		
			70	11.73		
			93	11.68		
			140	11.53		
			186	10.98		
			234	10.82		
			281	10.46		
			471	8.63		
			646	7.77		
			820	6.41		
				19.16	34.61	
				19.14	34.58	
				19.10	34.51	

F.R.V. "Derwent Hunter"
Cruise 13, Part 3

σ_t	O ₂	O ₂ ‰	pH	PO ₄ P	NO ₃ N
26.28	6.18	104		10-11	
26.69	6.06	98		16-7	
26.80	5.87	94		16-2	
26.82	5.60	88		21-0	
26.85	5.57	86		23-6	
27.01	5.36	81		29-6	
27.09	4.96	73		35-9	
27.20	4.49	64		43-9	
26.21	6.25	106		11-9	
26.60	6.18	101		13-9	
26.71	5.93	96		17-3	
26.81	5.82	93		20-0	
26.87	4.93	77		20-0	
26.89	5.55	84		30-0	
26.97	5.02	75		35-0	
27.15	4.54	64		42-0	
26.38	5.79	97		12-0	
26.62	6.03	98		12-0	
26.73	5.77	93		11-0	
26.76	5.15	82		16-0	
26.75	5.73	90		19-0	
26.90	5.31	80		28-0	
27.00	5.12	76		35-3	
27.13	4.34	63		42-9	

F.R.V. "Derwent Hunter"

Cruise 13, Part 3

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 1.xii	179/54	42°36' S. 148°26' E.	0	12.50	19.32	34.90
			28	12.15		
			57	11.75	19.32	34.90
			77	11.60		
			97	11.55	19.32	34.90
6.xii	180/54	42°36' S. 148°16' E.	0	13.75	19.34	34.94
			25	13.55	19.34	34.94
			55	13.04	19.34	34.94
			102	12.80	19.35	34.96
7.xii	181/54	41°48' S. 149°27' E.	0	14.70	19.49	35.21
			26	13.95		
			53	13.24	19.45	35.14
			77	12.47		
			102	12.42	19.46	35.16
			152	11.87		
			202	11.42	19.40	35.05
			247	10.85		
			292	10.46	19.32	34.90
			471	8.35	19.15	34.60
			715	6.98	19.09	34.49
959	5.30	19.08	34.47			
8.xii	182/54	40°30' S. 151°30' E.	0	15.35	19.51	35.25
			28	14.25		
			57	12.88	19.41	35.07
			79	11.87		
			103	11.87	19.36	34.97
			150	11.83		
			201	11.58	19.41	35.07
			237	11.46		
			274	10.95	19.34	34.94
			419	9.07	19.19	34.67
			643	8.62	19.12	34.54
868	6.04	19.06	34.43			

F.R.V. "Derwent Hunter"
Cruise 13, Part 3

σ_t	O ₂	O ₂ ‰	pH	PO ₄ P	NO ₃ N
26.43	6.22	102		17-0	
26.58	5.88	95		16-5	
26.62	5.79	93		14-0	
26.21	6.46	108		3-13	
26.25	6.29	105		2-11	
26.36	6.07	100		10-2	
26.42	6.00	99		12-0	
26.22	5.96	102		5-8	
26.47	6.28	104		8-9	
26.64	4.83	79		22-0	
26.75	5.18	83		21-5	
26.82	5.21	82		10-16	
26.92	5.38	81		22-12	
27.04	4.60	67		41-1	
27.24	4.24	60		48-2	
26.10	5.76	99		7-6	
26.49	6.13	101		14-7	
26.62	6.03	98		17-1	
26.74	4.49	72		22-0	
26.76	5.42	86		20-1	
26.87	5.26	80		33-1	
26.84	5.07	77		39-0	
27.12	4.49	64		49-0	

F.R.V. "Derwent Hunter"
Cruise 13, Part 3

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 8.xii	183/54	39°20' S. 153°04' E.	0	17.75	19.60	35.41
			27	17.75		
			54	15.43	19.54	35.30
			79	14.62		
			104	14.21	19.55	35.32
			156	13.47		
			208	12.66	19.45	35.14
			266	11.79		
			325	11.07	19.32	34.90
			559	8.59	19.16	34.61
			827	6.37	19.06	34.43
	1094	4.83	19.04	34.40		
9.xii	184/54	33°35' S. 154°07' E.	0	18.95	19.58	35.37
			27	18.95		
			54	15.92	19.55	35.32
			81	14.70		
			107	14.14	19.53	35.28
			160	13.09		
			213	12.07	19.41	35.07
			256	11.87		
			300	11.00	19.38	35.01
			475	9.23	19.21	34.70
			716	7.05	19.09	34.49
	958	5.48	19.07	34.45		
9.xii	185/54	37°10' S. 156°10' E.	0	18.95	19.56	35.34
			34	16.98		
			67	15.33	19.58	35.37
			92	14.46		
			118	13.90	19.51	35.25
			169	13.31		
			220	12.55	19.43	35.10
			265	11.93		
			310	11.31	19.36	34.97
			490	8.64	19.17	34.63
			687	6.76	19.07	34.45
	883	5.17	19.01	34.34		

F.R.V. "Derwent Hunter"

Cruise 13, Part 3

σ_t	O ₂	O ₂ %	pH	PO ₄ P	NO ₃ N
25.66	5.46	99		7-3	
26.13	5.49	95		11-7	
26.40	5.04	85		18-5	
26.59	4.78	79		24-0	
26.71	4.69	75		27-0	
26.91	4.75	72		36-0	
27.08	4.23	61		46-3	
27.24	3.88	54		55-2	
25.34	5.39	99		4-7	
26.02	5.08	89		5-12	
26.39	4.65	79		13-1	
26.64	4.60	76		20-7	
26.81	4.51	72		20-3	
26.86	3.88	59		32-4	
27.03	4.17	61		43-5	
27.20	3.95	56		50-0	
25.31	5.11	94		0-12	
26.21	4.98	86		5-13	
26.41	4.54	76		18-7	
26.58	4.49	74		20-5	
26.72	4.68	75		22-7	
26.91	4.65	70		34-6	
27.04	4.33	63		45-1	
27.16	3.95	55		51-3	

F.R.V. "Derwent Hunter"

Cruise 13, Part 3

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 10.xii	186/54	36°35' S. 156°04' E.	0	19.50	19.62	35.44
			33	19.10		
			65	17.70	19.60	35.41
			98	15.20		
			130	14.50	19.54	35.30
			195	13.44		
			260	12.48	19.40	35.05
			302	12.01		
			344	11.60	19.38	35.01
			513	8.80	19.18	34.65
			763	6.54	19.08	34.47
			1013	5.13	19.07	34.45
10.xii	187/54	35°08' S. 156°15' E.	0	20.00	19.59	35.39
			28	19.85		
			57	17.94	19.63	35.46
			82	15.70		
			107	14.85	19.57	35.35
			160	13.89		
			213	12.98	19.52	35.26
			258	12.22		
			303	11.04	19.32	34.90
			483	8.72	19.17	34.63
			728	6.59	19.06	34.43
			974	5.06	19.06	34.43
11.xii	188/54	34°12' S. 156°12' E.	0	22.38	19.67	35.53
			29	22.30		
			58	21.84	19.67	35.53
			82	20.37		
			107	19.76	19.68	35.55
			160	18.35		
			213	16.47	19.59	35.39
			257	15.84		
			300	15.03	19.53	35.28
			438	11.79	19.40	35.05
			672	8.65	19.17	34.63
			906	6.53	19.06	34.43

F.R.V. "Derwent Hunter"
Cruise 13, Part 3

σ_t	O ₂	O ₂ %	pH	PO ₄ P	NO ₃ N
25.24	5.18	96		2-9	
25.68	5.57	100		3-10	
26.33	5.06	86		10-6	
26.54	4.54	74			
26.70	4.51	73		20-7	
26.89	4.78	73		33-6	
27.09	4.30	62		41-6	
27.24	4.17	58		52-0	
25.08	5.04	94		8-1	
25.66	5.43	98		10-5	
26.29	5.11	88		11-0	
26.62	4.84	80		20	
26.71				22	
26.90	4.36	66			
27.05	4.33	63		47	
27.24	3.86	54		48	
24.53	5.02	98		5-9	
24.69	5.02	97		7-8	
25.26	4.61	86		11-2	
25.96	4.11	72		28	
26.19				17	
26.68	5.07	82		23	
26.91	4.54	69		28	
27.06	4.36	63		60	

F.R.V. "Derwent Hunter"

Cruise 13, Part 3

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 11.xii	189/54	33°47' S. 156°14' E.	0	22.55	19.66	35.52
			33	21.54		
			65	19.22	19.60	35.41
			85	17.35		
			106	16.44	19.61	35.43
			159	15.08		
			212	14.07	19.54	35.30
			250	13.95		
			287	11.04	19.43	35.10
			437	10.71	19.31	34.88
			604	8.48	19.16	34.61
771	7.57	19.15	34.60			
11.xii	190/54	33°10' S. 156°20' E.	0	21.70	19.62	35.44
			36	21.10		
			73	19.54	19.60	35.41
			94	15.27		
			117	15.43	19.58	35.37
			135	14.62	19.58	35.37
12.xii	191/54	33°10' S. 156°15' E.	0	22.00		
			34	21.54		
			67	18.46		
			99	16.58		
			130	15.52		
			170	14.78		
			210	14.08		
			260	13.15		
			310	11.93		
			510	10.32		
12.xii	192/54	34°00' S. 154°30' E.	0	22.95	19.66	35.52
			28	22.50		
			57	22.15	19.66	35.52
			82	20.93		
			107	20.47	19.67	35.53
			160	19.92		
			213	19.67	19.70	35.59
			250	19.66		
			286	19.50	19.67	35.53
440	16.00	19.59	35.39			

F.R.V. "Derwent Hunter"
Cruise 13, Part 3

σ_t	O ₂	O ₂ %	pH	PO ₄ P	NO ₃ N
24.47	4.96	97		3-8	
25.29	4.39	81		2-9	
25.99	4.69	83		11-6	
26.42	4.75	80		17-4	
26.87	4.18	67		22-4	
26.75	4.52	72		25-6	
26.92	4.44	67		36-5	
27.04	4.34	64		42-7	
24.65	5.12	98		2-7	
25.21	5.58	104		0-9	
26.19	4.57	79		12-6	
26.36	4.77	81		12-4	
24.36	4.96	98		0-9	
24.58	5.02	97		0-9	
25.06	5.09	96		3-6	
25.31	4.76	89		9-1	
25.32	4.81	89		2-10	
26.07	4.37	76		11-8	

F.R.V. "Derwent Hunter"
Cruise 13, Part 3

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 12.xii	192/54	34°00' S. 154°30' E.	673	10.61	19.31	34.88
			905	7.58	19.15	34.60
13.xii	193/54	34°00' S. 153°19' E.	0	21.95	19.67	35.53
			32	21.70		
			64	19.78	19.68	35.55
			91	18.06		
			111	16.54	19.61	35.43
			159	14.72		
			207	13.66	19.51	35.25
			245	13.49		
			284	12.26	19.42	35.08
			437	8.98	19.21	34.70
			681	6.90	19.10	34.51
			925	4.79	19.07	34.45
			13.xii	194/54	33°51' S. 152°30' E.	0
32	21.75					
64	19.02	19.65				35.50
87	17.44					
111	15.87	19.58				35.37
159	13.96					
208	12.60	19.44				35.12
258	11.90					
307	11.16	19.34				34.94
507	8.43	19.16				34.61
727	6.56	19.10				34.51
13.xii	195/54	33°55' S. 152°00' E.	946	4.94	19.08	34.47
			0	21.20	19.65	35.50
			21	21.20		
			42	20.40	19.65	35.50
			70	17.86		
			98	16.80	19.63	35.46
			152	15.08		
			203	13.87	19.54	35.30
			256	13.26		
			309	12.38	19.43	35.10
	521	9.44	19.23	34.74		
	760	6.96	19.10	34.51		
	1009	5.14	19.07	34.45		

F.R.V. "Derwent Hunter"
Cruise 13, Part 3

σ_t	O ₂	O ₂ %	pH	PO ₄ P	NO ₃ N
26.77	4.46	70		23-7	
27.04	4.52	67		37-0	
24.66	4.95	96		2-8	
25.25	4.89	91		2-10	
25.96	4.30	76		10-11	
26.46	4.60	77		20-10	
26.62	4.54	74		23-6	
26.91	4.48	68		35-5	
27.07	4.27	62		42-4	
27.28	4.17	58		49-3	
24.71	5.11	98		2-12	
25.42	4.60	85		4-12	
26.09	4.20	73		13-8	
26.58	4.17	68		20-7	
26.72	4.91	78		25-6	
27.03	4.60	69		35-6	
27.11	4.38	63		46-8	
27.28	4.00	56		52-3	
24.84	5.08	97		6-6	
25.06	5.04	95		3-11	
25.93	3.70	66		13-5	
26.46	4.78	80		18-16	
26.61	4.78	78		27-0	
26.87	4.60	71		40-1	
27.06	4.19	61		50-0	
27.24	3.95	55		59-0	

F.R.V. "Derwent Hunter"
Cruise 13, Part 3

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 13.xii	196/54	34°02' S. 151°45' E.	0	21.35	19.66	35.52
			28	21.35		
			57	20.70	19.61	35.43
			81	19.38		
			104	18.72	19.69	35.57
			143	17.10		
			183	15.68	19.58	35.37
			240	14.41		
			298	13.55	19.52	35.26
			512	10.76		
14.xii	197/54	34°05' S. 151°33' E.	0	21.50	19.70	35.59
			21	21.50		
			42	20.70	19.66	35.52
			72	19.33		
			100	18.52	19.65	35.50
			152	16.19		
			203	15.28	19.54	35.30

F.R.V. "Derwent Hunter"
Cruise 13, Part 3

σ_t	O ₂	O ₂ ‰	pH	PO ₄ P	NO ₃ N
24.81	4.81	92		10-0	
24.91	4.84	92		13-3	
25.55	3.60	66		16-0	
26.13	4.20	73		22-0	
26.50	5.04	84		20-0	
26.76	4.57	72		34-0	
24.85	4.84	93		2-24	
24.98	4.95	94		6-11	
25.54	4.33	79		7-10	
26.16	4.43	77		15-0	

T.S.S. "Tarooma"

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 20.v	1	38°18' S. 144°38' E.	4	15.00	19.60	35.41
	2	38°32' S. 144°48' E.	4	15.30	19.59	35.39
	3	38°44' S. 144°58' 30"E.	4	14.70	19.53	35.28
	4	38°56' S. 145°07' E.	4	14.40	19.64	35.48
	5	39°09' 30"S. 145°18' E.	4	14.40	19.52	35.26
	6	39°22' S. 145°27' E.	4	13.90	19.55	35.32
21.v	7	39°33' S. 145°36' E.	4	13.90	19.48	35.19
	8	39°45' S. 145°45' E.	4	13.90	19.48	35.19
	9	39°58' S. 145°54' E.	4	13.90	19.53	35.28
	10	40°10' S. 146°05' E.	4	14.20	19.53	35.28
	11	40°21' S. 146°13' E.	4	14.40	19.55	35.32
	12	40°34' S. 146°23' E.	4	14.20	19.55	35.32
	13	40°47' S. 146°33' E.	4	14.20	19.54	35.30
3.vi	1	38°22' S. 144°39' E.	4	15.00	19.54	35.30
	2	38°34' S. 144°49' E.	4	15.00	19.55	35.32
	3	38°46' S. 144°57' E.	4	15.00	19.56	35.34
	4	38°58' S. 145°06' E.	4	15.00	19.56	35.34
	5	39°10' S. 145°15' E.	4	15.50	19.53	35.28
4.vi	6	39°24' S. 145°26' E.	4	15.00	19.52	35.26
	7	39°38' S. 145°37' E.	4	14.30	19.52	35.26

T.S.S. "Tarooma"

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 1.vi	8	39°53' S. 145°48' E.	4	14.20	19.48	35.19
	9	40°05' S. 145°57' E.	4	14.20	19.52	35.26
	10	40°19' S. 146°03' E.	4	14.40	19.55	35.32
	11	40°31' S. 146°20' E.	4	14.40	19.53	35.28
	12	40°38' S. 146°25' E.	4	14.20	19.42	35.08
	13	40°53' S. 146°37' E.	4	14.30	19.52	35.26
	7.vi	1	38°22' S. 144°41' E.	4	12.20	19.61
2		38°35'30"S. 144°50' E.	4	12.20	19.66	35.52
3		38°38'30"S. 145°0'30"E.	4	13.90	19.58	35.37
4		39°02' S. 145°10' E.	4	13.90	19.65	35.50
5		39°15' S. 145°20'30"E.	4	13.60	19.61	35.43
6		39°27'30"S. 145°31' E.	4	13.60	19.57	35.35
8.vi		7	39°40' S. 145°40'30"E.	4	13.30	19.60
	8	39°52' S. 145°50' E.	4	12.80	19.48	35.19
	9	40°03'30"S. 145°59' E.	4	13.10	19.55	35.32
	10	40°15' S. 146°08' E.	4	13.10	19.52	35.26
	11	40°30' S. 146°20' E.	4	13.10	19.54	35.30
	12	40°40' S. 146°24' E.	4	13.30	19.60	35.41
	13	40°57' S. 146°36' E.	4	13.10	19.48	35.19
5.viii	1	38°21' S. 144°40' E.	4	12.50	19.54	35.30

T.S.S. "Taroon"

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 5.viii	2	38°31' S. 144°48' E.	4	12.20	19.53	35.28
	3	38°47' S. 144°59' E.	4	12.80	19.59	35.39
	4	38°58' 30"S. 145°09' E.	4	12.80	19.61	35.43
	5	39°12' S. 145°19' E.	4	12.80	19.61	35.43
	6	39°25' S. 145°29' E.	4	12.20	19.49	35.21
	6.viii	7	39°35' S. 145°37' E.	4	12.20	19.58
8		39°47' S. 145°46' E.	4	12.20	19.52	35.26
9		40°00' S. 145°55' 30"E.	4	12.50	19.61	35.43
10		40°12' S. 146°05' E.	4	12.30	19.64	35.48
11		40°25' S. 146°16' E.	4	12.30	19.57	35.35
12		40°37' S. 146°23' E.	4	11.90	19.48	35.19
13		40°50' 30"S. 146°38' E.	4	12.10	19.47	35.17
19.viii	1	38°21' S. 144°39' E.	4	12.50	19.67	35.53
	2	38°32' S. 144°48' E.	4	12.20	19.67	35.53
	3	38°46' S. 144°58' 30"E.	4	12.80	19.70	35.59
	4	38°59' 30"S. 145°07' E.	4	12.80	19.68	35.55
	5	39°13' S. 145°17' E.	4	12.80	19.66	35.52
	6	39°26' S. 145°27' 30"E.	4	12.20	19.61	35.43
20.viii	7	39°41' S. 145°38' E.	4	12.20	19.57	35.35
	8	39°54' S. 145°48' E.	4	12.20	19.57	35.35

T.S.S. "Taroon"

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 20.viii	9	40°07' S. 145°59' E.	4	11.90	19.45	35.14
	10	40°20' S. 146°10' E.	4	11.90	19.57	35.35
	11	40°36' S. 146°23' E.	4	11.90	19.54	35.30
	12	40°46' S. 146°34' E.	4	11.70	19.50	35.23
	13	40°49' S. 146°48' E.	4	11.40	19.38	35.01
	9.ix	1	38°26' S. 144°33' E.	4	12.50	19.57
2		38°45' S. 144°48' E.	4	12.50	19.70	35.59
3		38°58' S. 144°58' E.	4	13.30	19.70	35.59
4		39°11' S. 145°07' 30"E.	4	13.30	19.70	35.59
5		39°24' 30"S. 145°18' 30"E.	4	13.10	19.70	35.59
6		39°38' S. 145°29' E.	4	12.80	19.63	35.46
10.ix	7	39°51' S. 145°38' E.	4	12.50	19.64	35.48
	8	40°04' S. 145°48' E.	4	12.50	19.70	35.59
	9	40°16' S. 145°58' E.	4	12.50	19.70	35.59
	10	40°29' S. 146°09' E.	4	12.20	19.59	35.39
	11	40°43' S. 146°20' E.	4	11.90	19.50	35.23
	12	40°46' S. 146°30' E.	4	11.90	19.55	35.32
	13	40°57' S. 146°40' E.	4	11.70	19.17	34.63
23.ix	1	38°22' S. 144°40' E.	4	13.60	19.61	35.43

T.S.S. "Taroon"

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 23.ix	2	38°35'30"S. 144°50'30"E.	4	13.60	19.62	35.44
	3	38°47' S. 144°59'30"E.	4	13.90	19.69	35.57
	4	39°00' S. 145°09'30"E.	4	13.90	19.69	35.57
	5	39°13' S. 145°19'15"E.	4	13.90	19.68	35.55
	6	39°26' S. 145°29' E.	4	13.90	19.68	35.55
	24.ix	7	39°39' S. 145°39'30"E.	4	13.30	19.55
8		39°52' S. 145°49'30"E.	4	13.10	19.55	35.32
9		40°05' S. 145°59'30"E.	4	12.80	19.64	35.48
10		40°18' S. 146°10' E.	4	12.80	19.59	35.39
11		40°26' S. 146°21' E.	4	12.20	19.51	35.25
12		40°39'30"S. 146°31' E.	4	11.90		
13		40°51' S. 146°42' E.	4	11.90	19.18	34.65
7.x	1	38°20' S. 144°39' E.	4	14.40	19.66	35.52
	2	38°33' S. 144°49' E.	4	14.40	19.62	35.44
	3	38°48' S. 145°00' E.	4	14.20	19.66	35.52
	4	39°03' S. 145°12' E.	4	13.90	19.72	35.62
	5	39°07' S. 145°22' E.	4	13.90	19.56	35.34
8.x	6	39°31' S. 145°33' E.	4	13.60	19.61	35.43
	7	39°46' S. 145°45' E.	4	13.30	19.63	35.46
	8	40°01' S. 145°56'30"E.	4	13.10	19.61	35.43

T.S.S. "Tarooma"

Date.	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 8.x	9	40°16' S. 146°08' E.	4	12.80	19.66	35.52
	10	40°29' S. 146°18' 30"E.	4	12.80	19.64	35.48
	11	40°43' S. 146°29' E.	4	12.50	19.57	35.35
	12	40°56' S. 146°39' E.	4	12.80	19.20	34.69
21.x	1	38°18' S. 144°37' E.	4	14.20	19.74	35.66
	2	38°31' S. 144°47' E.	4	14.20	19.79	35.75
	3	38°44' S. 144°57' E.	4	14.20	19.75	35.68
	4	38°58' S. 145°08' E.	4	14.40	19.66	35.52
	5	39°11' S. 145°18' E.	4	14.40	19.61	35.43
	6	39°24' S. 145°28' E.	4	14.20	19.61	35.43
22.x	7	39°37' S. 145°38' E.	4	13.90	19.66	35.52
	8	39°50' S. 145°48' E.	4	13.30	19.68	35.55
	9	40°03' S. 145°58' E.	4	13.30	19.63	35.46
	10	40°16' S. 146°08' E.	4	13.30	19.69	35.57
	11	40°30' S. 146°20' E.	4	12.80	19.63	35.46
	12	40°43' S. 146°30' E.	4	12.50	19.56	35.34
	13	40°54' S. 146°35' E.	4	12.80	19.46	35.16
4.xi	1	38°10' S. 144°39' E.	4	14.70	19.61	35.43
	2	38°33' S. 144°49' E.	4	15.00	19.69	35.57
	3	38°46' S. 144°59' E.	4	14.40	19.69	35.57

T.S.S. "Taroona"

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰	
1954 5.xi	4	39°00' S. 145°09' E.	4	14.20	19.69	35.57	
	5	39°14' S. 145°20' E.	4	14.20	19.66	35.52	
	6	39°28' S. 145°31' E.	4	13.90	19.67	35.53	
	7	39°42' S. 145°41' E.	4	13.90	19.71	35.61	
	8	39°55' S. 145°51' E.	4	13.30	19.67	35.53	
	9	40°09' S. 146°03' E.	4	13.30	19.67	35.53	
	10	40°22' S. 146°13' E.	4	13.30	19.67	35.53	
	11	40°38' S. 146°28' E.	4	13.30	19.61	35.43	
	12	40°51' S. 146°38' E.	4	13.30	19.52	35.26	
	13	41°03' S. 146°48' E.	4	13.30	19.32	34.90	
	18.xi	1	38°22' S. 144°40' E.	4	14.70	19.54	35.30
		2	38°33' S. 144°48'30"E.	4	14.40	19.61	35.43
		3	38°47' S. 144°59' E.	4	14.70	19.63	35.46
4		39°00' S. 145°09'30"E.	4	14.70	19.61	35.43	
5		39°12'30"S. 145°19' E.	4	14.40	19.61	35.43	
6		39°25' S. 145°28'30"E.	4	14.40	19.55	35.32	
19.xi	7	39°37' S. 145°38' E.	4	13.90	19.54	35.30	
	8	39°49' S. 145°48' E.	4	13.90	19.53	35.28	
	9	40°01' S. 145°58' E.	4	13.90	19.56	35.34	
	10	40°13' S. 146°08' E.	4	13.60	19.58	35.37	

T.S.S. "Tarcoona"

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰
1954 9.xi	11	40°30' S. 146°19' E.	4	13.60	19.56	35.34
	12	40°42' S. 146°29' E.	4	13.60	19.46	35.16
	13	40°53' S. 146°38' E.	4	13.60	19.42	35.08
2.xii	1	38°21' S. 144°40' E.	4	16.10	19.63	35.46
	2	38°35' S. 144°51' E.	4	16.10	19.64	35.48
	3	38°49' S. 145°01' E.	4	16.10	19.63	35.46
	4	39°02' S. 145°11' E.	4	16.10	19.60	35.41
	5	39°15' S. 145°21' E.	4	15.80	19.54	35.30
	6	39°28' S. 145°31' E.	4	15.60	19.54	35.30
3.xii	7	39°35' S. 145°49' E.	4	15.30	19.53	35.28
	8	40°01' S. 145°59' E.	4	15.00	19.72	35.62
	9	40°19' S. 146°08' E.	4	15.00	19.63	35.46
	10	40°32' S. 146°21' E.	4	14.70	19.60	35.41
	11	40°43' S. 146°30' E.	4	14.70	19.60	35.41
	12	40°48' S. 146°35' E.	4	15.00	19.38	35.01
	13	40°53' S. 146°40' E.	4	15.30	19.38	35.01
17.xii	1	38°23' S. 144°41' E.	4	16.95	19.56	35.34
	2	38°37' S. 144°51' 30" E.	4	16.70	19.67	35.53
	3	38°51' S. 145°02' E.	4	16.40	19.63	35.46

T.S.S. "Taroon"

Date	Station	Position	Depth (m)	Temp. °C	Cl ‰	S ‰	
1954 17.xii	4	39°04' 30"S. 145°13' E.	4	16.10	19.60	35.41	
	5	39°18' S. 145°23' E.	4	16.10	19.53	35.28	
18.xii	6	39°32' S. 145°33' 30"E.	4	15.85	19.55	35.32	
	7	39°46' S. 145°44' E.	4	15.60	19.51	35.25	
	8	39°59' S. 145°55' E.	4	15.60	19.53	35.28	
	9	40°13' S. 146°07' E.	4	15.30	19.61	35.43	
	10	40°27' S. 146°17' E.	4	15.30	19.55	35.32	
	11	40°40' S. 146°24' E.	4	15.30	19.50	35.23	
	12	40°53' S. 146°33' E.	4	15.60	19.36	34.97	
	13	41°03' 30"S. 146°48' E.	4	14.15	19.61	35.43	
	31.xii	1	38°19' S. 144°38' E.	4	18.90	19.58	35.37
		2	38°33' 30"S. 144°48' E.	4	18.30	19.64	35.48
3		38°47' S. 144°59' E.	4	17.80	19.61	35.43	
4		39°01' S. 145°09' E.	4	17.20	19.59	35.39	
5		39°14' 30"S. 145°20' E.	4	17.20	19.59	35.39	

H.M.A.S. "Warrego"

Date	Station	Position	Sounding (fathoms)	HYDROLOGICAL OBSERVATIONS					
				Depth (m.)	Temp. °C.	Cl ^o /∞	S ^o /∞	σ _t	
1954 3.111	1	37°44' S. 150°05' E.		0	21.30	19.46	35.16	24.54	
				25	18.60	19.61	35.43	25.46	
				50	17.20	19.66	35.52	25.88	
				75	17.40	19.63	35.46	25.79	
	2	37°44' S. 150°11' E.			0	21.20	19.61	35.43	24.78
					25	19.40	19.56	35.34	25.20
					50	18.70	19.66	35.52	25.51
					75	18.10	19.66	35.52	25.66
	3	37°44' S. 150°17'30"E.			0	21.00	19.56	35.34	24.77
					25	20.70	19.61	35.43	24.91
					50	18.80	19.66	35.52	25.48
					75	18.30	19.66	35.52	25.61
100					17.70	19.66	35.52	25.76	