

OCEANOGRAPHICAL STATION LIST

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

Volume 17

**Onshore Hydrological Investigations in
Eastern and South-western Australia, 1952**

Compiled by D. J. Rochford and R. Spencer

**COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH
ORGANIZATION, AUSTRALIA
MELBOURNE 1953**

OCEANOGRAPHICAL STATION LIST

ONSHORE HYDROLOGICAL INVESTIGATIONS IN EASTERN AND SOUTH-WESTERN
AUSTRALIA, 1952

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I. INTRODUCTION

In this volume the results of the analyses of coastal waters in eastern and south-western Australia during 1952 are given. In addition, some oceanographical results collected by F.R.V. "Derwent Hunter" and "Stanley Fowler" are contained in this volume. R.R.S. "Discovery II" in 1950 and 1951 occupied a series of stations off the Australian coast, and personnel from the C.S.I.R.O. Fisheries Division assisted with the collection and carried out the subsequent analyses. These oceanographical results are also given in this volume.

II. METHODS AND UNITS

The methods and units used are those given in Volume 4. Depth corrections with the aid of an unprotected reversing thermometer have been applied to the "Discovery II" data.

III. PERSONNEL

The laboratory analyses of the data have been the responsibility of Messrs. R. Spencer, A. Middleton, H. Jitts, and the hydrology staff at Cronulla and Perth. Messrs. C. Brown, G. Kitchen, K. Champion, and C. Wirrell were responsible for the field collecting. Misses O. Jacobsen, J. Pincombe, and S. Walden have been responsible for the processing of the data and for the preparation of the typed data sheets prior to printing.

Station: SOUTH CHANNEL, STRADBROKE ISLAND - QUEENSLAND

Latitude: 27° 22' S.

Longitude: 153° 33' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952									
27.vi	0	22.00	19.63	24.58	5.20	101	8.24	6-6	0
	10	22.70	19.62	24.36	5.29	104	8.24	7-7	0
	20	22.10	19.63	24.54	5.18	100	8.24	7-4	0
	30	22.20	19.64	24.54	5.32	103	8.24	6-5	0
	40	22.20	19.63	24.53	5.12	99	8.25	7-6	0
	50	21.70	19.63	24.67	5.24	101	8.18	8-3	0

Station: EVANS HEAD

Latitude: 29° 7' 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
1952									
2. xi	0	20.50	19.63	24.91				18	36
	10	19.50							
	20	18.70	19.62	25.45				14	14
	30	18.00	19.48	25.44				17-7	66
	40	18.00	19.62	25.62				23	103
	50	17.80	19.61	25.69				12-19	65
1. xi	0	21.90	19.79	24.83	4.95	96	8.16	1-0-6	4
	10	21.90	19.71	24.81	4.98	96	8.14	4-0-4	0
	20	21.60	19.77	24.89	5.12	98	8.12	2-0-4	0
	30	20.60	19.69	25.08	5.30	100	8.13	6-0-1	0
	40	19.70	19.67	25.27	5.13	96	8.13	6-0-0	0
	50	18.70	19.64	25.48	4.31	79	8.14	18-46	9

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
1952									
31. i	0	19.20	19.70	25.43	5.62	104	8.14	10-1	7
	10	19.20	19.72	25.46	5.12	95	8.10	13-1	23
	20	19.00	19.72	25.52	4.35	80	8.10	15-5	56
	30	19.00	19.68	25.46	3.88	71	8.00	19-6	81
	40	17.80	19.68	25.76	3.95	71	7.98	21-0	104
	50	17.80	19.73	25.83	3.90	71	8.06	22-0	87
6. iv	0	22.60	19.45	24.18	5.24	102	8.21	4-9	0
	10	22.60	19.45	24.18	5.31	104	8.20	6-7	1
	20	22.20	19.42	24.24	5.24	101	8.17	7-7	2
	30	22.00	19.52	24.44	5.03	97	8.19	11-5	13
	40	18.80	19.64	25.45	4.37	80	8.13	17-6	42
	50	17.60	19.66	25.78	4.17	75	8.15	14-11	75
4. v	0	22.60	19.60	24.38	4.92	96	8.19	23-0	8
	10	22.60	19.63	24.42	4.90	96	8.15	7-2	17
	20	22.60	19.64	24.43	4.86	95	8.15	11-8	12
	30	21.50	19.65	24.76	4.55	87	8.16	11-5	20
	40	20.90	19.63	24.89	4.55	86	8.17	13-3	18
	50	20.70	19.63	24.94	4.59	87	8.17	4-12	18
22. v	0	22.40					8.21		
	10	22.40			4.74		8.21		
	20	22.30			4.97		8.22		
	30	22.30			4.89		8.20		
	40	20.70			4.06		8.15		
	50	20.00			3.84		8.09		
27. vi	0	20.50	19.66	25.04			8.22	5-5	3
	10	20.40	19.70	25.12	5.41	102	8.22	5-6	0
	20	18.30	19.62	25.55	4.83	88	8.14	15-0	56
	30	18.30	19.63	25.57	4.86	89	8.13	15-1	53
	40	18.30	19.63	25.57	4.79	87	8.12	15-4	56
	50	18.30	19.62	25.55	4.81	88	8.12	14-9	48

Station: COFF'S HARBOUR

Latitude: 30°17' S.

Longitude: 150°16' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952									
25. vii	0	20.80	19.62	24.90	5.20	99	8.26		15
	10	20.80	19.62	24.90	5.17	98	8.26	9-4	14
	20	20.80	19.62	24.90	5.20	99	8.26	5-8	6
	30	20.80	19.62	24.90	5.20	99	8.26	8-3	13
	40	20.50	19.61	24.97	5.12	97	8.26	5-8	9
	50	19.70	19.60	25.17	5.09	95	8.27	9-8	13
5. ix	0	20.20	19.64	25.09	5.40	101	8.25	3-17	0
	10	20.40	19.65	25.06	5.49	103	8.22	3-17	0
	20	20.30	19.65	25.08	5.45	102	8.23	4-17	0
	30	20.10	19.65	25.14	5.14	96	8.14	6-12	0
	40	19.20	19.65	25.37	4.25	79		10-17	51
	50	19.10	19.65	25.40	5.32	98	8.13	4-25	0
1. x	0	19.60	19.66	25.28	5.46	101	8.21	4-5	0
	10	19.60	19.61	25.21	5.46	101	8.19	7-5	0
	20	19.20	19.63	25.34	5.50	102	8.16	6-7	0
	30	18.80	19.64	25.45	4.64	85	8.12	9-5	43
	40	17.80	19.63	25.69	3.82	69	8.11	20-2	183
	50	17.60	19.64	25.75	3.79	68	8.11	20-0	137
31. x	0	20.00	19.58	25.07	5.40	101	8.16	7-9	5
	10	19.40	19.61	25.26	6.05	112	8.14	9-12	0
	20	19.00	19.60	25.35	4.36	80	8.09	23-0	75
	30	17.90	19.55	25.55			8.11	25	123
	40	17.50	19.55	25.65	3.85	69	8.11	32	173
	50	17.00	19.54	25.76	3.66	65	8.14	31	170
28. xi	0	19.00	19.70	25.49	5.36	99	8.20	6-5	0
	10	18.60	19.71	25.61	5.06	93	8.19	9-4	12
	20	18.40	19.70	25.64	5.00	91	8.17	15-0	15
	30	17.80	19.69	25.78	4.55	82	8.14	18-0	46
	40	17.60	19.76	25.92	4.70	85	8.16	18-0	43
	50	17.60	19.76	25.92	4.49	81	8.14	18-0	64

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
1952 7. iv	0	21.40	19.52	24.61			8.20	4-3-1	0
	10	20.70	19.61	24.91	5.47	103	8.18	12-104	0
	20	19.10	19.58	25.30	5.31	98	8.20	10-10	5
	30	18.20	19.66	25.63	4.91	89	8.15	14-3-4	30
	40	17.90	19.68	25.73	4.59	83	8.16	12-9-0	59
	50	17.40	19.65	25.82	4.59	82	8.16	14-13	80
6. v	0	22.60	19.57	24.05	5.21	102	8.24	7-7	15
	10	22.50	19.55	24.33	5.32	104	8.25	5-11	14
	20	21.70	19.65	24.70	5.02	97	8.24	7-11	2
	30	21.50	19.62	24.71	5.10	98	8.24	11-9	0
	40	21.40	19.62	24.73	5.15	98	8.25	7-11	1
	50	19.90	19.67	25.21	4.40	82	8.08	10-41	32
22. v	0	21.70			4.78		8.21		
	10	21.40			4.79		8.20		
	20	21.00			4.64		8.18		
	30	20.60			4.26		8.17		
	40	20.30			4.22		8.17		
	50	20.00			4.15		8.15		
4. ix	0	18.40	19.57	25.46	4.42	81	8.15	14-11	75
	10	18.00	19.59	25.59	4.42	80	8.16	22-7-5	51
	20	17.90	19.60	25.63	4.27	77	8.13	13-23	51
	30	17.60	19.61	25.71	4.27	77	8.13	21-5-0	113
	40	16.80	19.56	25.84	4.16	74	8.14	17-5-0	96
	50	16.20	19.56	25.98	4.16	73	8.17	20-1-1	104
30. x	0	19.00	19.58	25.33	5.62	103	8.19	8-5-2	5
	10	19.00	19.57	25.31	5.62	103	8.14	10-7-3	5
	20	18.10	19.55	25.51	5.02	91	8.20	9-11-0	40
	30	17.60	19.56	25.65	4.55	82	8.15	17-16	81
	40	17.00	19.51	25.72	4.19	75	8.14	26-1-6	118
	50	17.00	19.53	25.74	4.28	76	8.12	25-14	162

Station: PORT MACQUARIE

Latitude: 30° 56' E.

Longitude: 150° 10' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952									
28. xi	0	17.80	19.72	25.82	5.03	91	8.16	20-0	23
	10	17.40	19.68	25.85	4.70	84	8.15	23-0	32
	20	17.40	19.65	25.82	4.86	87	8.15	16-0	34
	30	17.40	19.65	25.82	4.78	86	8.14	19-0	48
	40	17.40	19.64	25.80	4.86	87	8.13	16-0	32
	50	17.40	19.63	25.79	4.65	83	8.14	18-0	51

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
1952									
16. i	0	19.50	19.69	25.35	5.70	106	8.14	3-9	0
	10	18.70	19.61	25.44	5.63	103	8.12	10-5	0
	20	18.00	19.61	25.61	5.50	100	8.12	8-9	4
	30	18.00	19.61	25.61	5.19	94	8.08	13-4	25
	40	17.50	19.61	25.74	4.86	87	8.08	15-10	33
	50	16.60	19.61	25.95	4.29	76	8.07	22-6	79
23. v	0	20.10	19.66	25.15	4.96	93	8.16	7-8	0
	10	19.90	19.60	25.12	4.98	93	8.15	7-10	2
	20	19.90	19.64	25.17	4.79	89	8.26	7	2
	30	19.80	19.64	25.19	4.79	89	8.25	7-18	0
	40	19.60	19.63	25.24	5.10	95	8.25	8-9	0
	50	19.40	19.61	25.26	4.81	89	8.23	8-5	2
25. vi	0	18.80	19.64	25.45	5.30	97	8.15	10-7	12
	10	18.80	19.64	25.45	5.30	97	8.15	11-10	17
	20	18.80	19.66	25.48	5.19	95	8.15	7-8	12
	30	18.80	19.66	25.48	5.22	96	8.14	7-6	15
	40	18.70	19.67	25.52	5.25	97	8.13	7-5	13
	50	18.60	19.67	25.55	5.30	97	8.14	10-5	13
23. vii	0	18.90	19.61	25.39	5.31	98	8.24	9-0	14
	10	18.80	19.63	25.44	5.40	99	8.24	3-8	23
	20	18.80	19.64	25.45	5.27	97	8.24	9-8	12
	30	18.40	19.63	25.54	5.27	96	8.24	13-4	8
	40	18.10	19.65	25.65	5.17	94	8.24	8-14	14
	50	18.30	19.66	25.61	5.33	97	8.24	9-4	17
2. ix	0	19.70	19.59	25.16	5.42	101	8.25	5-12	6
	10	19.70	19.65	25.24	5.38	100	8.25	4-10	0
	20	18.70	19.60	25.43	5.70	105	8.26	0-17	16
	30	18.40	19.55	25.43	5.48	100	8.26	9-9	3
	40	17.80	19.59	25.64	5.59	101	8.27	9-5	0
	50	18.00	19.63	25.64	6.01	109	8.27	10-3	0

Station: PORT STEPHENS

Latitude: 32°43' S.

Longitude: 152°18' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952									
29. ix	0	18.70	19.46	25.23	6.26	115	8.25	2-11	0
	10	18.40	19.59	25.49	6.42	117	8.22	4-9	0
	20	18.00	19.67	25.70			8.22	2-8	0
	30	18.00	19.61	25.61	5.65	102	8.19	5-10	26
	40	17.40	19.61	25.76	4.54	81	8.15	10-17	94
	50	17.00	19.62	25.87	4.36	78	8.13	11-8	106
29. x	0	19.00	19.52	25.24	5.65	104	8.19	13	5
	10	18.80	19.55	25.33	5.66	104	8.14	7	5
	20	18.40	19.56	25.45	5.25	96	8.10	13	0
	30	17.40	19.51	25.62	4.33	77	8.09	22	163
	40	16.60	19.50	25.80	3.74	66	8.06	30	190
	50	15.90	19.47	25.92	3.74	65	8.07	32	190
26. xi	0	19.30	19.62	25.29	5.18	96	8.18	3-9	0
	10	19.40	19.67	25.34	5.16	96	8.17	7-0	0
	20	19.30	19.63	25.31	5.12	95	8.18	9-2	0
	30	17.60	19.61	25.71			8.15	12-2	23
	40	16.20	19.61	26.04	4.75	83	8.15	15-2	50
	50	15.70	19.59	26.14	4.75	83	8.14	18-0	83

Station: BOTANY HEADS

Latitude: 34° 01' S.

Longitude: 151° 15' 30" E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952									
15. i	0	21.10	19.65	24.87	5.21	99	8.23	2-5	0
	10	20.80	19.67	24.97	5.02	95	8.19	2-9	4
	20	19.00	19.64	25.40	5.05	93	8.17	11-6	18
	30	18.30	19.59	25.52	4.61	84	8.16	13-8	33
	40	16.60	19.60	25.94	4.13	73	8.18	19-4	80
	50	16.20	19.58	26.01	4.21	74	8.18	20-5	85
13. ii	0	20.90	19.73	25.02	5.22	99	8.14	5-7	8
	10	20.60	19.79	25.06	5.16	98	8.15	5-12	0
	20	20.40	19.66	25.07	5.19	98	8.15	5-3	0
	30	20.40	19.68	25.09	5.16	97	8.15	7-6	0
	40	19.50	19.69	25.35	5.04	94	8.14	7-6	5
	50	18.00	19.66	25.68	4.72	86	8.14	10-2	18
6. iii	0	21.70	19.73	24.81	5.43	104	8.17	4-5	0
	10	21.70	19.72	24.80	5.45	105	8.21	4-7	3
	20	21.60	19.74	24.85	5.43	104	8.20	3-6	3
	30	20.60	19.70	25.07	5.26	99	8.16	8-2	5
	40	17.90	19.69	25.75	4.48	81	8.16	16-4	53
	50	16.50	19.66	26.04	4.23	74	8.15	21-5	126
9. iv	0	20.60	19.62	24.95	5.45	103	8.13	4-11	3
	10	19.30	19.66	25.35	4.89	91	8.12	19-0	103
	20	18.60	19.62	25.47	4.72	86	8.11	11-4	41
	30	18.20	19.64	25.60	4.52	82	8.10	16-3	44
	40	18.20	19.61	25.56	4.54	83	8.10	14-4	56
	50	18.10	19.64	25.63	4.43	81	8.10	14-4	61
9. v	0	16.80	19.54	25.81	4.86	86	8.20	13-7-0	45
	10	16.90	19.59	25.86	4.56	81	8.19	15-16	84
	20	16.90	19.60	25.87	4.38	78	8.29	18-3-7	111
	30	17.00	19.61	25.86	4.35	77	8.19	16-12	132
	40	17.40	19.62	25.77	4.29	77	7.99	25-0-2	140
	50	18.00	19.60	25.60			8.26	21-7-0	135

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
1952 7.vii	0	16.00	19.62	26.10	5.58	98	8.20	15-5	26
	10	16.30	19.62	26.03	6.06	107	8.20	15-10	21
	20	16.40	19.61	26.00	5.61	99	8.20	17-3	36
	30	16.40	19.63	26.03	5.65	99	8.17	15-3	31
	40	16.40	19.66	26.07	5.61	99	8.17	13-5	34
	50	16.40	19.63	26.03	5.61	99	8.19	15-7	33
18.ix	0	16.60	19.57	25.90	5.10	90	8.18	9-6	29
	10	16.40	19.55	25.91	5.16	91	8.18	11-6	24
	20	15.40	19.56	26.16	4.98	86	8.18	11-4	30
	30	15.20	19.58	26.24	5.90	102	8.14	13-5	41
	40	15.20	19.57	26.22	4.84	83	8.12	16-5	42
	50	15.00	19.57	26.26	4.77	82	8.04	18	44
4.xi	0	18.80	19.43	25.17	5.82	107	8.22	3-18	6
	10	17.70	19.53	25.57	5.42	97	8.18	3-21	14
	20	16.60	19.52	25.83	4.97	88	8.17	10-13	13
	30	15.30	19.54	26.16	4.41	76	8.18	20-12	62
	40	15.10	19.53	26.18	5.35	92	8.18	14-12	37
	50	14.80	19.53	26.25	4.66	80	8.21	20-1	70
3.xii	0	20.80	19.60	24.88	5.25	99	8.17	3-9	0
	10	19.80	19.63	24.92	5.30	99	8.17	2-7	0
	20	20.40	19.59	24.97	5.00	94	8.13	4-3	0
	30	19.80	19.57	25.10	4.65	87	8.11	16-0	16
	40	16.70	19.57	25.87	4.33	77	8.10	12-15	16
	50	15.70	19.59	26.14	4.46	78	8.11	12-10	70

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
1952									
10.1	0	21.40	19.70	24.85	5.55	106	8.21	3-8	12
	10	20.00	19.64	25.14	5.47	102	8.18	4-18	15
	20	18.20	19.64	25.60	5.03	91	8.19	8-9	18
	30	18.00	19.65	25.67	4.83	88	8.17	12-3	35
	40	16.80	19.60	25.89	4.48	79	8.14	17-10	46
	50	16.70	19.61	25.93	4.37	77	8.16	18-7	88
15.1	0	21.00	19.56	24.77	5.40	102	8.16	6-8-4	0
	10	20.80	19.61	24.89	5.43	103	8.12	5-7-0	6
	20	18.80	19.56	25.35	4.48	82	8.11	13-7-0	50
	30	16.40	19.55	25.91	4.16	73	8.11	17-3-0	108
	40	16.20	19.51	25.91	4.24	74	8.10	19-2-0	137
	50	16.00	19.59	26.07	4.31	75	8.10	17-5-2	128
21.1	0	20.80	19.70	25.01	5.50	104	8.18	6-0-0	0
	10	20.80	19.68	24.98	5.27	100	8.15	3-3-0	0
	20	20.60	19.72	25.10	5.80	110	8.13	8-0-0	0
	30	20.20	19.69	25.16	5.22	98	8.14	8-0-0	4
	40	16.00	19.59	26.07	4.14	73	8.11	15-0-0	82
	50	15.80	19.60	26.13	3.27	57	8.07	23-3-0	62
31.1	0	21.80	19.71	24.76	5.55	107	8.24	7-1-2	4
	10	20.80	19.69	25.00	5.50	104	8.23	8-2-4	0
	20	20.30	19.70	25.15	5.41	102	8.21	9-5-6	0
	30	18.80	19.63	25.44	5.15	95	8.23	10-12	8
	40	17.60	19.64	25.75	4.66	84	8.25	16-6-0	61
	50	16.90	19.64	25.92	4.23	75	8.22	20-4-2	83
5.11	0	22.00	19.73	24.72	5.28	102	8.20	3-6-0	3
	10	21.30	19.76	24.90	5.32	102	8.21	3-6-0	16
	20	20.80	19.80	25.15	5.90	112	8.16	4-10-2	15
	30	19.60	19.80	25.47	5.40	101	8.18	7-11-2	30
	40	19.20	19.76	25.52	5.22	97	8.19	7-9-4	13
	50	19.20	19.72	25.46	5.44	101	8.19	7-7-2	0

Station: PORT HACKING

Latitude: 34° 05' S.

Longitude: 151° 13' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952 13.11	0	20.90	19.76	25.07	5.31	101	8.18	3-10-0	0
	10	20.50	19.75	25.16	5.22	98	8.17	2-14-0	0
	20	20.40	19.71	25.14	5.19	98	8.16	3-25	0
	30	19.80	19.68	25.25	5.05	94	8.16	4-42	6
	40	18.40	19.58	25.48	4.83	88	8.17	7-15-4	13
	50	16.40	19.57	25.94	4.60	81	8.17	15-1-6	61
20.11	0	20.70	19.70	25.04	5.31	100	8.24	3-9-0	4
	10	20.50	19.69	25.08	5.31	100	8.19	6-8-0	4
	20	20.30	19.71	25.17	5.26	99	8.18	7-3-4	8
	30	17.50	19.71	25.88	4.98	90	8.18	15-3-0	23
	40	16.60	19.67	26.04	4.66	82	8.17	17-4-4	25
	50	16.40	19.68	26.09	4.47	79	8.11	19-3-6	43
6.111	0	21.70	19.70	24.77	5.46	105	8.21	3-9-0	3
	10	21.60	19.69	24.78	5.49	106	8.22	8-0-0	3
	20	21.60	19.72	24.82	5.49	106	8.20	2-4-2	4
	30	20.50	19.69	25.08	5.86	111	8.15	7-0-0	3
	40	17.80	19.66	25.73	4.68	84	8.13	17-11	58
	50	16.50	19.63	26.00	4.21	74	8.14	18-2-6	137
13.111	0	20.10	19.72	25.23	5.62	105	8.24	2-6-16	22
	10	20.10	19.70	25.20	5.49	103	8.19	3-11-2	4
	20	19.50	19.70	25.36	5.38	100	8.15	4-17-0	5
	30	17.80	19.67	25.75	4.96	90	8.12	14-4-2	9
	40	16.40	19.65	26.06	4.52	80	8.09	17-11	32
	50	15.80	19.61	26.14	4.03	70	8.13	23-5-0	72
17.111	0	21.40	19.72	24.88	5.68	109	8.21	3-5-4	0
	10	20.80	19.70	25.01	5.82	110	8.20	3	0
	20	19.80	19.68	25.25	5.80	108	8.19	4-10-0	3
	30	19.40	19.68	25.35	5.61	104	8.16	7-0-3	26
	40	18.00	19.68	25.71	4.83	88	8.17	11-8-3	30
	50	17.00	19.65	25.92	4.64	83	8.16	13-9-0	56

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
1952									
25.iii	0	20.90			5.43		8.23	2-2-0	2
	10	20.80	19.61	24.89	5.49	104	8.22	0-3-0	2
	20	20.60	19.55	24.86	5.55	105	8.21	2-0-1	0
	30	20.40	19.52	24.88	5.55	104	8.17	0-3-2	2
	40	20.20	19.55	24.97	5.43	102	8.19	2-6-4	0
	50	19.40	19.55	25.18	5.55	103	8.17	0-7-0	0
1.iv	0	21.20	19.64	24.82	5.47	104	8.17	3-11-1	2
	10	21.20	19.65	24.84	5.49	105	8.15	3-5-2	2
	20	20.10	19.63	25.10	5.31	100	8.12	6-2-0	5
	30	17.80	19.61	25.66	4.74	86	8.12	14-7-1	27
	40	16.40	19.64	26.04	4.26	75	8.14	21-7-0	55
	50	16.00	19.60	26.08	4.09	72	8.14	24-4-0	102
7.iv	0	20.50	19.70	25.09	5.26	99	8.15	5-9-0	3
	10	19.70	19.70	25.31	5.03	93	8.13	7-7-1	6
	20	18.90	19.70	25.51	4.76	88	8.14	11-3-1	43
	30	19.00	19.73	25.53	4.74	87	8.13	10-23	19
	40	18.60	19.71	25.61	4.79	88	8.12	13-1-1	
	50	16.50	19.72	26.13	4.29	76	8.14	21-0-0	192
16.iv	0	21.80	19.58	24.58	5.34	103	8.19	12-5-1	4
	10	21.70	19.61	24.64	5.36	103	8.19	7-8-0	4
	20	21.30	19.55	24.67	5.47	105	8.18	7-6-3	4
	30	20.80	19.50	24.74	5.56	105	8.17	8-28	9
	40	20.50	19.53	24.86	5.27	99	8.18	10-50	12
	50	20.40	19.51	24.86	5.33	100	8.14	10-8	10
24.iv	0	21.20	19.41	24.51	5.45	104	8.21	2-4-11	11
	10	21.20	19.54	24.69	5.48	104	8.23	2-4-16	7
	20	20.60	19.54	24.85	5.56	105	8.17	4-9-0	7
	30	18.20	19.63	25.59	4.56	83	8.14	18-2-8	76
	40	16.80	19.66	25.97	4.45	79	8.15	17-6-2	141
	50	16.80	19.69	26.02	4.10	73	8.16	22-3-0	95

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
1952 29. iv	0	19.40	19.37	24.93	5.41	97	8.14	11	13
	10	19.40	19.38	24.95	5.36	96	8.18	9	16
	20	18.90	19.45	25.17	5.28	94	8.15	12	14
	30	17.80	19.59	25.64	4.72	82	8.13	15	72
	40	17.20	19.59	25.79	4.59	79	8.13	19	112
	50	16.90	19.63	25.91	4.77	82	8.17	18	97
9. v	0	18.80	19.47	25.22	5.23	96	8.31	6-1-8	17
	10	18.80	19.54	25.32	5.20	95	8.25	6-1-5	15
	20	18.00	19.52	25.50	4.73	86	8.27	9-0-7	42
	30	17.80	19.55	25.58	4.74	85	8.15	10-25	56
	40	17.80	19.58	25.63	4.73	85	8.29	14-17	71
	50	17.10	19.60	25.82	4.46	80	8.12	27-13	102
15. v	0	19.30	19.65	25.34	5.52	102	8.22	8-0-0	0
	10	19.30	19.64	25.32	5.48	101	8.23	7-0-6	0
	20	19.30	19.65	25.34	5.48	101	8.18	9-3-0	10
	30	19.30	19.67	25.37	5.50	102	8.21	7-5-0	6
	40	19.30	19.63	25.31	5.45	101	8.21	7-4-4	0
	50	19.20	19.62	25.32	5.42	100	8.21	8-7-3	3
19. v	0	18.70	19.62	25.45	5.36	98	8.15	10-3-0	6
	10	18.70	19.66	25.51	5.27	97	8.19	10-5-3	4
	20	18.70	19.65	25.50	5.27	97	8.21	9-6-0	8
	30	18.60	19.67	25.55	5.18	95	8.22	11-6-1	14
	40	18.50	19.65	25.55	5.13	94	8.20	11-4-2	11
	50	18.40	19.64	25.55	5.09	93	8.07	11-4-3	5
29. v	0	17.30	19.67	25.87	5.33	95	8.18	7-18-0	21
	10	17.30	19.69	25.90	5.27	94	8.18	10-2-0	16
	20	17.30	19.70	25.91	5.25	94	8.22	7-2-13	6
	30	17.30	19.69	25.90	5.27	94	8.18	10-2-8	14
	40	17.30	19.68	25.88	5.23	94	8.18	8-7-3	16
	50	17.20	19.67	26.11	5.27	94	8.22	8-20-7	16

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
1952 19.vi	0	15.70	19.31	25.74	5.55	96	8.02	12-8-5	41
	10	15.70	19.29	25.71	5.55	96	8.16	9-11-3	44
	20	15.70	19.39	25.85	5.36	93	8.20	13-9-3	73
	30	15.30	19.58	26.22	5.06	87	8.21	12-10	62
	40	15.30	19.58	26.22	5.11	88	8.21	12-16	63
	50	15.00	19.57	26.26	5.01	86	8.22	13-0-7	46
4.vii	0	17.00	19.61	25.86	5.59	99	8.22	11-7-0	3
	10	17.00	19.62	25.87	5.56	99	8.22	12-4-0	21
	20	17.00	19.61	25.86	5.49	98	8.22	13-0-0	24
	30	17.00	19.61	25.86	5.61	100	8.22	16-0-4	25
	40	16.60	19.62	25.96	5.35	95	8.24	12-11	33
	50	16.60	19.60	25.94	5.35	94	8.22	18-15	43
10.vii	0	17.00	19.67	25.94	5.66	101	8.19	18-0-0	34
	10	17.00	19.68	25.95	5.70	101	8.19	13-4-2	31
	20	17.00	19.67	25.94	5.60	100	8.17	14-4-1	37
	30	16.70	19.72	26.08	5.60	99	8.15	15-1-0	28
	40	17.00	19.66	25.93	5.50	98	8.16	15-0-0	44
	50	17.50	19.65	25.80	5.46	98	8.13	15-0-0	44
18.vii	0	17.80	19.66	25.73	5.03	91	8.21	12-5	18
	10	18.00	19.68	25.71	5.10	93	8.20	12-6-0	14
	20	17.20	19.64	25.85	5.13	92	8.15	14-7-0	23
	30	16.80	19.63	25.93	5.13	91	8.15	14-14	39
	40	16.40	19.64	26.04	5.01	88	8.13	17-2-0	47
	50	16.00	19.62	26.10	4.72	83	8.12	16-0-4	65
11.viii	0	17.30	18.22	23.87	5.31	93	8.19	13-5-4	44
	10	18.10	19.17	24.97	4.91	89	8.14	16-6-0	28
	20	18.30	19.40	25.25	4.86	88	8.13	14-8-0	32
	30	18.00	19.52	25.50	4.72	86	8.11	14-8-1	47
	40	17.00	19.50	25.71	4.55	81	8.11	17-5-0	79
	50	14.00	19.50	26.38	4.03	68	8.13	25-15	160

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
1952									
18. viii	0	17.00	18.60	24.46	5.59	98	8.21	11-4-3	34
	10	17.50	18.97	24.81	5.59	99	8.21	12-3-1	38
	20	17.80	19.27	25.20	5.15	92	8.17	13-0-0	34
	30	17.30	19.41	25.51	5.01	89	8.15	15-0-1	48
	40	17.40	19.38	25.45	4.98	89	8.13	17-1-0	56
	50	14.90	19.48	26.16	4.38	75	8.15	24-0-0	114
1. ix	0	17.10	19.34	25.46	5.78	103	8.30	5-0	0
	10	17.20	19.38	25.50	5.59	99	8.27	5-0	3
	20	17.40	19.47	25.57	5.65	101	8.26	7-0	0
	30	16.40	19.45	25.78	5.56	98	8.27	9-0	0
	40	16.10	19.44	25.83	5.68	99	8.28	9-0	0
	50	16.00	19.48	25.91	5.41	94	8.29	11-2	0
15. ix	0	17.40	19.54	25.67	5.42	97	8.23	8-0-0	5
	10	17.40	19.54	25.67	5.33	95	8.22	9-0-0	5
	20	17.00	19.54	25.76	5.33	95	8.20	11-0-0	22
	30	15.80	19.48	25.96	4.92	86	8.21	16-0-0	55
	40	15.20	19.50	26.12	4.75	82	8.17	18-0-0	91
	50	14.50	19.51	26.28	4.42	75	8.19	20-0-0	97
30. ix	0	17.20	19.47	25.62	5.93	106	8.18	6-0-2	7
	10	16.90	19.46	25.67	5.76	102	8.18	8-2-2	2
	20	16.60	19.53	25.84	5.33	94	8.19	7-8-4	47
	30	16.40	19.52	25.88	4.75	83	8.13	18-11	120
	40	16.20	19.53	25.93	4.45	78	8.10	23-2-0	182
	50	16.40	19.54	25.90	4.48	79	8.08	25-0-0	189
29. x	0	18.80	19.55	25.33	5.25	96	8.25	3-4-3	0
	10	17.60	19.55	25.63	5.66	102	8.23	12-3-5	24
	20	16.40	19.53	25.65	4.89	86	8.18	18-5-2	41
	30	15.40	19.49	26.07	4.37	75	8.13	21-6-2	100
	40	14.60	19.51	26.26	3.90	67	8.11	28-0-4	111
	50	14.40	19.53	26.33	3.74	63	8.12	31	182

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
1952									
4. xi	0	18.40	19.47	25.33	5.25	96	8.21	7-40-3	3
	10	18.10	19.52	25.47	5.61	102	8.19	8-13-5	8
	20	17.40	19.54	25.67	5.14	92	8.18	3-26-0	7
	30	15.80	19.53	26.02	5.35	93	8.11	18-10	39
	40	14.60	19.53	26.29	4.21	72	8.10	27-16	127
	50	14.50	19.54	26.33	4.05	69	8.03	32-4-2	133
12. xi	0	18.00	19.53	25.50	4.92	89	8.18	0-21-7	3
	10	17.70	19.56	25.62	5.57	100	8.23	0-26-0	6
	20	17.90	19.56	25.57	5.49	99	8.25	2	12
	30	17.80	19.57	25.61	5.49	99	8.18	0-3-2	14
	40	17.50	19.45	25.52	5.22	94	8.19	9-0-5	10
	50	17.60	19.43	25.47	4.83	87	8.24	14-0-7	7
19. xi	0	19.10	19.58	25.30	5.61	104	8.27	2-0-9	0
	10	18.80	19.60	25.40	5.59	103	8.26	3-7-0	0
	20	18.40	19.59	25.49	5.36	98	8.25	6-4-0	0
	30	17.60	19.59	25.69	5.31	96	8.24	6-0-7	0
	40	16.00	19.57	26.04	4.56	80	8.22	16-0-1	60
	50	15.50	19.58	26.17	4.22	73	8.23	19-9-0	107
3. xii	0	20.20	19.70	25.17	5.13	96	8.16	2-13-0	0
	10	20.35	19.67	25.09	5.05	95	8.16	2-9-0	0
	20	20.50	19.75	25.16	5.18	98	8.13	4-7-7	0
	30	16.80	19.66	25.97	4.57	81	8.12	12-3-4	41
	40	16.40	19.71	26.14	4.50	79	8.13	14-7-1	49
	50	15.80	19.70	26.26	4.46	78	8.11	9-13-1	47
16. xii	0	19.90	19.69	25.24	5.66	106	8.22	12-0-6	2
	10	18.90	19.65	25.45	5.55	102	8.24	2-7-3	0
	20	18.80	19.65	25.47	5.55	102	8.24	3-8-4	7
	30	18.80	19.63	25.44	4.95	91	8.22	3-13-0	2
	40	18.60	19.63	25.49	5.42	99	8.20	6-13-0	0
	50	18.50	19.65	25.55	5.04	92	8.20	7-5-10	3

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
1952									
10. i	0	20.00	19.67	25.19	5.58	104	8.23	4-9	2
	10	19.50	19.67	25.32	5.58	104	8.22	6-7	0
	20	19.30	19.66	25.35	5.65	105	8.21	3-13	0
	30	19.20	19.66	25.38	5.61	104	8.19	3-14	0
	40	18.00	19.65	25.67	5.05	92	8.16	8-10	17
	50	17.40	19.66	25.83	4.79	86	8.12	12-14	33
6. ii	0	20.80	19.62	24.90	5.02	95	8.15	7-3	0
	10	20.40	19.67	25.08	4.88	92	8.17	7-3	0
	20	19.70	19.70	25.31	4.83	90	8.18	6-4	0
	30	19.10	19.69	25.45	4.73	87	8.16	7-6	8
	40	18.80	19.70	25.54	4.87	90	8.16	10-1	11
	50	18.10	19.68	25.68	4.57	83	8.12	13-3	30
13. iii	0	20.00	19.59	25.08	5.64	105	8.19	2-12	6
	10	19.40	19.65	25.32	5.63	104	8.18	2-14	5
	20	18.90	19.63	25.42	5.71	105	8.14	2-14	4
	30	17.80	19.68	25.76	4.90	89	8.14	10-8	44
	40	15.80	19.57	26.08	4.34	75	8.14	17-8	100
	50	15.50	19.57	26.15	4.33	115	8.15	18-8	105
24. iv	0	19.90	19.45	24.92	5.43	101	8.16	4-7	4
	10	19.80	19.51	25.02	5.56	104	8.19	8-0	0
	20	19.70	19.52	25.06	5.54	103	8.22	5-6	4
	30	19.70	19.51	25.04	5.40	100	8.22	9-0	4
	40	18.90	19.64	25.43	5.03	93	8.22	13-0	37
	50	18.40	19.66	25.58	4.77	87	8.22	22-0	58
12. vi	0	15.70	19.67	26.24	5.73	100	8.21	13-0	4
	10	15.70	19.70	26.28	5.77	101	8.21	10-0	14
	20	15.40	19.68	26.32	5.55	96	8.20	13-0	7
	30	15.10	19.69	26.41	5.59	96	8.15	13-2	7
	40	14.60	19.66	26.47	5.73	98	8.15	15-0	8
	50	13.60	19.68	26.71	5.73	96	8.17	12-3	2

Station: ULLADULLA

Latitude: 35° 22' S.

Longitude: 150° 35' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952 17. vii	0	14.10	19.58	26.48			8.12	15-2	44
	10	14.40	19.59	26.42			8.13	14-0	34
	20	14.50	19.61	26.42			8.14	13-1	34
	30	14.40	19.60	26.44			8.14	14-0	57
	40	14.20	19.55	26.40			8.14	14-0	43
	50	14.20	19.56	26.42			8.14	15-0	31
15. viii	0	15.90	19.27	25.65	5.28	92	8.20	7-9	29
	10	16.00	19.29	25.64	4.96	86	8.20	7-8	17
	20	16.20	19.32	25.65	5.21	91	8.20	6-8	9
	30	16.40	19.41	25.72	5.02	88	8.20	7-7	19
	40	16.30	19.41	25.75	5.28	93	8.18	10-8	21
	50	15.40	19.47	26.04	4.93	85	8.20	11-11	35
19. ix	0	15.00	19.57	26.26	5.70	98	8.19	10-7	6
	10	15.00	19.59	26.29	5.58	96	8.19	11-6	15
	20	14.90	19.60	26.33	5.65	97	8.18	10-3	3
	30	14.80	19.60	26.35	5.56	95	8.15	10-6	16
	40	13.60	19.58	26.58	5.05	85	8.13	17-4	56
	50	13.90	19.58	26.52	5.19	88	8.18	17-0	51
16. x	0	15.30	19.55	26.17	6.17	103	8.20	1-9	0
	10	15.30	19.55	26.17	6.02	104	8.22	2-13	0
	20	15.20	19.56	26.21	6.10	105	8.20	4-6	0
	30	15.10	19.56	26.23	5.91	102	8.18	0-13	0
	40	14.10	19.53	26.40	5.52	93	8.17	9-6	76
	50	13.60	19.53	26.50	5.30	89	8.17	9-7	69
14. xi	0	17.50	19.45	25.52	6.08	109	8.22	3-10	0
	10	17.10			5.82		8.21	3-12	0
	20	18.20	19.65	25.62	5.42	99	8.18	7-6	1
	30	17.60	19.59	25.69	5.36	96	8.19	6-7	2
	40	17.20	19.58	25.78	5.25	94	8.17	7-6	1
	50	17.10	19.52	25.81	5.31	95	8.16	6-13	2

Station: ULLADULLA

Latitude: 35° 22' S.

Longitude: 150° 35' E.

Date	Depth (m.)	Temp. °C.	Cl °/oo	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952									
14. xii	0	19.30	19.65	25.34	5.57	103	8.19	5-7	6
	10	18.40	19.63	25.54	5.56	101	8.20	8-10	0
	20	18.20	19.60	25.55	5.48	100	8.20	8-8	5
	30	17.90	19.54	25.54	5.48	99	8.21	6-3	0
	40	17.90	19.56	25.57	5.48	99	8.21	8-2	2
	50	17.80	19.57	25.61	5.53	100	8.21	6-5	7

Station: EDEN

Latitude: 37° 04' S.

Longitude: 150° 05' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952									
9.1	0	18.40	19.68	25.61	5.75	105	8.18	4-7	0
	10	18.20	19.68	25.66	5.78	105	8.18	5-8	0
	20	18.20	19.68	25.66	5.82	106	8.18	4-10	0
	30	17.80	19.64	25.70	5.85	106	8.19	3-12	3
	40	17.40	19.65	25.82	5.78	104	8.17	18-0	2
	50	16.70	19.66	26.00	5.41	96	8.14	18-22	9
23. iv	0	18.00	19.60	25.60	5.64	102	8.19	9-3	12
	10	18.00	19.61	25.61	5.69	103	8.17	7-2	11
	20	17.80	19.67	25.75	5.51	100	8.16	12-0	11
	30	17.80	19.66	25.73	5.33	96	8.15	13-12	25
	40	17.80	19.65	25.72	5.79	105	8.15	13-0	33
	50	17.70	19.65	25.75	5.17	93	8.13	13-0	19
11. vi	0	13.70	19.63	26.63	6.05	102	8.16	13-0	3
	10	13.70	19.64	26.64	6.02	101	8.16	12-1	0
	20	13.70	19.62	26.61	5.99	101	8.17	12-3	0
	30	13.70	19.67	26.68	5.90	99	8.17	11-0	3
	40	13.70	19.66	26.67	6.12	103	8.17	12-4	3
	50	13.70	19.64	26.64	5.99	101	8.14	12-0	6
16. vii	0	12.00	19.51	26.79			8.08	8-8	15
	10	11.50	19.44	26.79			8.14	9-8	40
	20	12.30	19.46	26.67			8.16	12-2	19
	30	12.20	19.53	26.78			8.13	9-7	35
	40	12.00	19.54	26.84			8.13	8-2	20
	50	12.20	19.54	26.80			8.11	15-2	28
14. viii	0	14.60	19.45	26.19	5.66	96	8.21	7-9	20
	10	14.80	19.48	26.18	5.60	96	8.21	14-0	12
	20	14.70	19.49	26.22	5.64	117	8.21	10-3	14
	30	14.50	19.49	26.26	5.57	114	8.21	12-3	9
	40	14.00	19.53	26.42	5.50	93	8.18	12-4	12
	50	13.10	19.53	26.60	4.98	83	8.08	14-9	40

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
1952 17. ix	0	13.30	19.57	26.62	6.10	102	8.18	13-1	1
	10	13.30	19.54	26.58	6.06	101	8.18	13-3	6
	20	13.00	19.53	26.62	6.10	101	8.19	12-6	0
	30	12.80	19.55	26.69	5.87	97	8.19	13-1	6
	40	12.70	19.57	26.74	5.98	99	8.19	13-1	3
	50	12.70	19.57	26.74	5.81	96	8.19	14-0	10
15. x	0	13.90	19.54	26.46	6.20	105	8.19	5-17	0
	10	13.60	19.48	26.43	6.02	101	8.18	6-7	4
	20	13.60	19.51	26.47	6.15	103	8.18	6-16	0
	30	13.60	19.52	26.49	6.15	103	8.17	5-5	4
	40	13.50	19.54	26.54	5.99	100	8.12	6-5	5
	50	13.40	19.54	26.56	6.17	103	8.11	6-6	8
13. xi	0	17.00	18.31	25.96	6.16	108	8.22	6-11	2
	10	14.70	19.31	25.96	5.77	98	8.23	3-14	3
	20	14.60	19.44	26.16	5.62	96	8.22	4-9	0
	30	14.50	19.46	26.21	5.59	95	8.20	6-6	1
	40	14.40	19.44	26.21	5.95	101	8.17	7-1	2
	50	14.40	19.44	26.21	5.95	101	8.17	9-6	0
14. xii	0	16.50	18.87	24.95	5.70	100	8.16	6-4	7
	10	16.10	19.49	25.91	5.65	99	8.17	6-9	0
	20	15.90	19.48	25.93	5.60	98	8.17	7-5	0
	30	15.70	19.55	26.08	5.42	94	8.17	8-1	7
	40	15.60	19.52	26.06	5.42	94	8.18	8-4	8
	50	15.60	19.56	26.12	5.62	97	8.17	9-1	10

Station: PORT PHILLIP HEADS

Latitude: 38° 22' S.

Longitude: 144° 36' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952									
30. i	0	18.35	19.63	25.56	5.73	105		3-7	0
	10	17.50	19.63	25.77	5.76	103		3-6	0
	20	17.40	19.69	25.87	5.76	103		3-7	3
	30	17.30	19.66	25.85	5.77	103		6-5	0
	40	17.30	19.66	25.85	5.66	101		4-9	22
	50	17.30	19.65	25.84	5.53	99		7-6	12
25. ii	0	18.70	19.67	25.52	5.80	106		4-6	0
	10	17.80	19.64	25.70	5.84	106		3-7	0
	20	17.75	19.65	25.73	5.90	107		4-7	0
	30	17.75	19.65	25.73	5.72	103		5-7	0
	40	17.50	19.67	25.82	5.40	97		4-8	0
	50	17.40	19.66	25.83	5.35	96		7-7	0
21. iii	0	17.80	19.69	25.78	5.77	104		0-8	7
	10	17.80	19.67	25.75	5.68	103		0-11	8
	20	17.70	19.67	25.77	5.66	102		5-2	9
	30	17.70	19.69	25.80	5.67	102		0-10	7
	40	17.60	19.66	25.78	5.66	102		2-6	5
	50	17.20	19.67	25.89	5.49	98		2-10	7
22. iv	0	16.50	19.64	26.01	5.75	101		5-11	8
	10	16.50	19.67	26.06	5.69	100		7-6	7
	20	16.50	19.68	26.07	5.69	100		6-9	10
	30	16.50	19.68	26.07	5.66	100		7-11	11
	40	16.50	19.69	26.09	5.66	100		4-7	11
	50	16.50	19.70	26.10	5.54	98		7-8	5
24. v	0	15.00	19.68	26.41	5.92	102		10-3	0
	10	15.00	19.68	26.41	5.96	103		8-8	8
	20	15.00	19.69	26.43	5.86	101		11-7	2
	30	14.90	19.67	26.42	5.86	101		3-12	0
	40	14.90	19.68	26.43	5.67	97		5-8	0
	50	14.90	19.67	26.42	5.66	97		3-15	0

Station: PORT PHILLIP HEADS

Latitude: 38° 22' S.

Longitude: 144° 36' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952									
23. vii	0	12.10	19.59	26.90	6.01	98		7-9	4
	10	12.20	19.63	26.93	5.99	98		10-4	17
	20	12.20	19.64	26.94	5.91	97		7-14	0
	30	12.35	19.65	26.93	5.91	97		5-9	11
	40	12.30	19.64	26.92	5.91	97		9-5	15
	50	12.30	19.64	26.92	5.80	95		5-13	17
13. viii	0	12.20	19.60	26.89	6.26	102		0-10	3
	10	12.20	19.61	26.90	6.22	102		0	4
	20	12.20	19.59	26.91	6.22	102		0-11	2
	30	12.20	19.59	26.91	6.22	102		0-13	5
	40	12.20	19.58	26.90	6.26	102		0-12	3
	50	12.20	19.60	26.89	6.20	101		0-8	5
27. ix	0	12.70	19.53	26.68	6.06	100		4-2	0
	10	12.60	19.63	26.85	5.86	96		1-8	0
	20	12.40	19.70	26.98	6.01	99		0-12	2
	30	12.40	19.70	26.98	5.86	96		1-9	0
	40	12.40	19.67	26.94	5.96	98		0-22	0
	50	12.40	19.66	26.93	5.96	98		4-6	0
27. x	0	14.20	19.54	26.39	5.00	85		4-1	4
	10	13.40	19.60	26.67	5.59	93		4-0	4
	20	13.20	19.65	26.76	5.56	93		9	0
	30	12.90	19.63	26.79	5.45	91		11	0
	40	12.90	19.60	26.75				8-2	0
	50	13.00	19.62	26.75	5.75	96		13-4	0
1. xii	0	16.10	19.59	26.04	5.66	99		3-0	3
	10	15.80	19.58	26.10	5.68	99		3-0	4
	20	15.80	19.69	26.25	5.80	101		3-8	4
	30	15.40	19.57	26.17	5.68	98		3-3	0
	40	15.00	19.62	26.32	5.66	97		4-0	3
	50	14.80	19.67	26.44				3-7	2

Station: PORT PHILLIP HEADS

Latitude: 38° 22' S.

Longitude: 144° 36' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952									
16. xii	0	16.80	19.16	25.29	6.10	107		11-0	0
	10	15.30	19.60	26.24	6.01	104		14-0	0
	20	15.20	19.65	26.33	6.05	104		6-2	0
	30	15.20	19.65	26.33	5.91	102		7-6	0
	40	15.10	19.60	26.28	5.97	103		7-0	0
	50	15.00	19.59	26.29	5.84	100		3-3	3

Station: LOW HEAD

Latitude: 40° 55' S.

Longitude: 146° 46' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952 16. ix	0	11.75	18.80	25.85	6.57	105		7-5	0
	20	11.30	19.38	26.75	6.26	100		6-4	0
	50	11.45	19.57	26.98				9-5	1

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
1952 21.iii	0	16.45	19.63	26.02	6.19	109		3-14	9
	20	16.62	19.59	25.92	6.19	109		2-12	8
	50	16.15	19.65	26.12	6.13	108		10-11	8
29.iii	0	16.40	19.62	26.01	5.05	89		7-2	8
	20	16.10	19.62	26.08	5.43	95		16-0	14
	50	15.92	19.62	26.12	5.28	92		10-2	7
4.xii	0	14.30	19.34	26.10	5.86	99		8-0	9
	20	14.00	19.47	26.34	5.93	100		11-4	3
	50	12.30	19.48	26.70	5.77	94		12-6	49

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
1952									
27.ii	0	16.50	19.60	25.96	3.71	66		0-2-0	7
	20	15.70	19.58	26.13	2.91	51		0-2-0	6
	50	15.60	19.57	26.13	3.21	56		0-5-0	6
18.iii	0	16.05	19.62	26.09				17-24	5
	20	15.15	19.62	26.29	5.46	94		12	13
	50	14.60	19.56	26.34	5.12	87		9-10-9	12
2.iv	0	15.71	19.72	26.31	5.34	93		6-0-8	8
	20	15.35	19.70	26.36	5.34	92		6-1-0	16
	50	15.48	19.65	26.27	5.46	95		10-3-0	8
15.v	0	13.50	19.59	26.61				7-4-22	5
	25	14.00	19.59	26.51				7	2
	50	14.00	19.61	26.53				7	0
4.vii	0	12.00	19.41	26.66				14-0-4	9
	25	11.50	19.38	26.72				13-5-5	20
	50	12.00	19.40	26.64				13-0-0	12
8.viii	0	11.70	19.43	26.74				12-0-0	35
	20	11.45	19.43	26.79				10-0-0	51
	50	11.45	19.43	26.79				9-0-0	23
27.ix	0	11.80	19.46	26.76	6.16	100		10-0-0	16
	20	11.53	19.46	26.81				9-0-0	16
	50	11.53	19.42	26.76				10-0-0	9
18.x	0	11.50	19.37	26.70				12-5-4	39
	20	11.40	19.36	26.70				17-3-0	32
	50	11.40	19.35	26.68				13-5-0	39

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
1952 22. xi	0	12.68	19.34	26.43	6.37	105		7-4-0	5
	20	12.50	19.35	26.47	6.20	102		8-6-0	10
	50	11.70			5.91			17-12	20
5. xii	0	14.50	19.37	26.09	5.90	100		3-9-0	3
	20	13.50	19.43	26.39	6.78	113		9-1-0	7
	50	11.70	19.45	26.77	5.88	95		12-0-9	39

Station: CAPE PILLAR

Latitude: 45° 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
1952									
18. iii	0	15.80	19.61	26.14	5.48	96		0-29	4
	20	15.49	19.60	26.20	5.45	94		3	5
	50	15.36	19.60	26.22	5.34	92		8	5
4. iv	0	14.58	19.57	26.13	5.42	92		7-8	6
	20	14.40	19.50	27.30	5.34	91		7-10	3
	50	14.18	19.50	26.34	5.65	96		21-23	8
7. xii	0	13.40	19.32	26.25	6.20	103		8-0	4
	20	12.80	19.33	26.39	6.06	100		11-1	13
	50	12.40	19.34	26.48	6.06	99		12-0	27

Station: ALBATROSS ISLAND

Latitude: 40° 19' S.

Longitude: 144° 26' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952									
13. ix	0	12.30	19.53	26.76	6.15	100		12-0	3
	20	12.30	19.54	26.78	6.15	100		11-0	4
	40	12.30	19.61	26.88	6.17	101		4-7	2
	50	12.35	19.61	26.87	6.11	100		4-7	5

Station: ABROLHOS ISLANDS

Latitude: 28° 50' S.

Longitude: 113° 46' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952									
14. ii	0	23.10	19.77	24.46	5.05	100	8.20	9-0	0
	10	22.30	19.73	24.64	5.10	99	8.19	8-9	0
	20	22.30	19.76	24.68	5.01	97	8.18	7-1	0
	30	21.40	19.79	24.97	5.01	96	8.18	8-2	0
	40	22.20	19.75	24.69	5.01	97	8.18	7-3	0
	50	21.20	19.72	24.93	4.80	92	8.18	10-4	0
7. vii	0	22.50	19.57	24.36	5.09	100	8.27	4-10	0
	10	22.40	19.56	24.38	5.06	98	8.28	5-7	0
	20	22.40	19.55	24.36	5.03	98	8.29	2-12	0
	30	21.80	19.56	24.55	5.06	97	8.27	1-11	0
	40	21.30	19.57	24.70	5.06	96	8.26	2-13	0
	50	21.30	19.55	24.67	5.06	96	8.26	0-13	0
13. viii	0	20.50	19.49	24.81	5.42	102	8.32	0-19	0
	10	20.60	19.50	24.79	5.34	101	8.33	0-20	0
	20	20.40	19.44	24.76	5.42	102	8.34	0-13	0
	30	20.20	19.47	24.86	5.28	99	8.34	1-16	0
	40	20.10	19.46	24.87	5.50	103	8.34	3-12	0
	50	20.00	19.48	24.92	5.34	99	8.34	0-16	0
3. x	0	19.70	19.58	25.15	5.42	101	8.32	4-5	0
	10	19.60	19.53	25.10	5.29	98	8.35	6-10	0
	20	19.60	19.54	25.12	5.39	100	8.35	6-13	0
	30	19.50	19.54	25.14	5.39	100	8.35	4-6	0
	40	19.50	19.56	25.17	5.36	99	8.36	5-4	0
	50	19.40	19.52	25.14	5.48	102	8.35	6-18	0
6. xi	0	19.40	19.66	25.33	5.45	101	8.25	0-7	0
	10	19.40	19.66	25.33	5.45	101	8.26	0-5	0
	20	19.30	19.65	25.34	5.49	102	8.25	2-0	0
	30	19.30	19.66	25.35	5.35	99	8.26	2-3	0
	40	19.30	19.65	25.34	5.45	101	8.26	0-5	0
	50	19.30	19.66	25.35	5.35	99	8.26	0-9	0

Station: GERALDTON TO ABROLHOS ISLANDS

Latitude:

Longitude:

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952									
14. ii Stn. 2	0	22.00	19.86	24.90	5.05	98	8.16	10-0	0
	10	22.10	19.85	24.86	5.19	101	8.18	7-0	0
Stn. 4	0	22.80	19.84	24.64	5.01	98	8.18	7-0	0
	10	22.00	19.80	24.82	5.10	99	8.18	10-0	0
Stn. 6	0	22.80	19.69	24.44	5.16	101	8.19	11-0	0
	10	22.00	19.70	24.68	5.13	100	8.20	11-0	0
7. vii Stn. 2	0	21.30	19.60	24.74	5.17	98	8.19	4-15	0
	40	20.40	19.61	25.00	5.11	96	8.24	2-16	0
Stn. 4	0	22.20	19.54	24.39	5.16	100	8.25	5-10	0
	50	21.30	19.58	24.72			8.25	2-11	0
Stn. 6	0	22.90	19.61	24.30	5.26	103	8.27	6-8	0
	30	21.20	19.61	24.78	5.28	101	8.27	5-10	0
3. x Stn. 2	0	18.40	19.66	25.58	5.23	95	8.28	4-9	0
	40	18.40	19.62	25.53	5.26	96	8.28	6-8	0
Stn. 4	0	18.60	19.64	25.50	5.48	100	8.28	8-14	0
	20	18.80	19.62	25.42	5.48	101	8.32	8-5	0
Stn. 6	50	18.70	19.66	25.50	5.60	103	8.32	3-10	0
	0	18.80	19.68	25.51	5.54	102	8.32	6-3	0
	20	18.80	19.60	25.40	5.45	100	8.32	5-8	0
	30	18.80	19.59	25.39	5.48	101	8.32	8-19	0
6. xi Stn. 2	0	18.90	19.69	25.50	5.30	98	8.22	0-9	0
	20	19.00	19.67	25.45	5.24	97	8.24	0-9	0
Stn. 4	40	19.00	19.66	25.43	5.24	97	8.24	2-3	0
	0	19.20	19.65	25.37	5.30	98	8.24	0-7	0
	20	19.20	19.69	25.32	5.24	97	8.24	0-14	0
Stn. 6	50	19.20	19.68	25.31	5.35	99	8.24	6-1	0
	0	19.40	19.67	25.35	5.30	98	8.23	0-7	0
	20	19.30	19.65	25.34	5.35	99	8.23	0-10	0
	30	19.30	19.65	25.34	5.35	99	8.26	0-2	0

Station: ROTTNEST ISLAND

Latitude: 32° 00' S.

Longitude: 115° 25' E.

Date	Depth (m.)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952									
21. i	0	20.80	19.85	25.22	5.22	99	8.20	3-8	0
	10	20.70	19.85	25.25	5.35	102	8.20	0-13	0
	20	20.60	19.84	25.25	5.27	100	8.20	3-13	0
	30	20.40	19.82	25.29	5.19	98	8.19	6-11	0
	40	19.30	19.80	25.55	5.22	96	8.17	2-13	0
	50	18.80	19.79	25.66	5.16	94	8.16	3-9	0
18. ii	0	21.20	19.80	25.04	5.22	100	8.16	0-13	0
	10	21.00	19.80	25.10	5.19	99	8.17	0-17	0
	20	20.90	19.72	25.01	5.13	98	8.16	0-11	0
	30	20.90	19.77	25.08	5.16	98	8.16	0-9	0
	40	20.50	19.76	25.18	5.10	96	8.15	0-12	0
	50	20.60	19.82	25.24	4.98	95	8.15	1-11	0
18. iii	0	22.00	19.74	24.74	5.00	97	8.19	3-5	0
	10	22.00	19.75	24.75	5.08	99	8.19	3-3	0
	20	22.00	19.75	24.75	4.96	96	8.19	5-7	0
	30	22.00	19.75	24.75	5.03	98	8.18	5-2	0
	40	21.90	19.80	24.85	4.85	94	8.17	8-0	0
	50	22.00	19.82	24.85	4.76	92	8.17	12-0	0
28. iv	0	22.40	19.60	24.43	5.14	100	8.23	7-6	0
	10	22.50	19.66	24.50	5.40	103	8.23	6-4	0
	20	22.60	19.79	24.64	5.22	102	8.23	8-2	0
	30	22.50	19.80	24.70	5.33	103	8.23	4-6	0
	40	22.50	19.76	24.62	5.15	101	8.23	6-10	0
	50	22.20	19.79	24.75	5.10	99	8.23	7-9	0
21. v	0	22.80	19.68	24.42	5.28	104	8.35	2-6	0
	10	22.10	19.65	24.59	5.22	101	8.50	1-8	0
	20	22.20	19.72	24.65	5.22	101	8.55	5-3	0
	30	22.20	19.76	24.71	5.01	97	8.55	0-12	0
	40	21.50	19.72	24.85	5.10	98	8.55	3-6	0
	50	21.50	19.71	24.84	5.01	96	8.28	5-10	0

Station: ROTTNEST ISLAND

Latitude: 32° 00' S.

Longitude: 115° 25' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952 20. vi	0	22.40	19.47	24.26	5.07	98	8.53	7-5	0
	10	20.80	19.42	24.63	4.97	93	8.50	2-5	0
	20	20.80	19.45	24.68			8.53	2-9	0
	30	20.60	19.50	24.79	5.07	95	8.53	4-5	0
	40	19.60	19.43	24.96	5.07	94	8.54	0-13	0
	50	19.50	19.47	25.05	5.00	93	8.57	3-8	0
31. vii	0	20.00	19.49	24.94	5.26	98	8.31	4-1	0
	10	20.00	19.50	24.95	5.28	99	8.34	1-8	0
	20	19.80	19.50	25.01	5.32	99	8.34	4-2	0
	30	19.80	19.46	24.95	5.28	99	8.35	1-3	0
	40	19.00	19.55	25.28	5.23	94	8.35	3-4	0
	50	18.80	19.53	25.29	5.17	96	8.34	0-18	0
26. viii	0	19.50	19.52	25.11	5.56	103	8.29	3-22	0
	10	19.20	19.54	25.22	5.30	98	8.29	4-15	0
	20	19.30	19.52	25.16	5.77	107	8.29	5-16	0
	30	19.10	19.50	25.19	5.41	100	8.29	8-17	0
	40	18.80	19.48	25.23	5.24	96	8.27	7-16	0
	50	18.60	19.49	25.31	5.16	95	8.26	9-18	0
24. ix	0	19.00	19.60	25.35	5.46	101	8.32	4-7	0
	10	18.60	19.58	25.43	5.42	100	8.39	4-8	0
	20	19.00	19.63	25.39	5.42	100	8.36	7-5	0
	30	18.80	19.53	25.30	5.42	99	8.32	4-16	0
	40	18.90	19.53	25.28	5.59	103	8.28	4-11	0
	50	18.00	19.48	25.44	5.42	98	8.24	3-8	0
22. x	0	18.55	19.60	25.47	5.75	105	8.14	1-12	0
	10	18.50	19.67	25.58	5.65	103	8.21	0-15	0
	20	18.40	19.66	25.58	5.75	105	8.22	0-21	0
	30	18.40	19.67	25.60	5.70	104	8.21	0-15	0
	40	18.20	19.66	25.63	6.03	110	8.23	0-13	0
	50	18.10	19.73	25.75	5.57	101	8.20	0-13	0

Station: ROTNEST ISLAND

Latitude: 32°00' S.

Longitude: 115°25' E.

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952 20. xi	0	18.20	19.66	25.63	5.59	102	8.22	0-12	0
	10	18.20	19.66	25.63	5.59	102	8.23	0-9	0
	20	18.20	19.66	25.63	5.59	102	8.20	0-11	0
	30	18.20	19.67	25.65	5.59	102	8.24	0-11	0
	40	18.25	19.69	25.67	5.55	101	8.16	3-2	0
	50	18.30	19.72	25.69	5.59	102	8.27	0-13	0
4. xii	0	19.55	19.77	25.44	5.35	100	8.32	13-2	0
	10	18.90	19.78	25.63	5.41	100	8.31	14-2	0
	20	18.80	19.86	25.68	5.41	100	8.30	14-2	0
	30	18.55	19.79	25.72	5.57	102	8.30	18-0	0
	40	18.55	19.79	25.73	5.54	102	8.30	14-2	0
	50	18.60	19.83	25.77	5.60	103	8.31	16-0	0
19. xii	0	19.55	19.74	25.39	5.48	100	8.20	8-11	0
	10	19.20	19.73	25.37	5.54	100	8.20	8-11	0
	20	19.20	19.75	25.40	5.48	102	8.14	8-12	0
	30	19.20	19.71	25.36	5.60	104	8.15	5-24	0
	40	19.20	19.76	25.41	5.48	102	8.16	8-4	0
	50	20.50	19.61	25.23	5.48	103	8.16	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
1952									
21. i									
Stn. 2	0	21.80			5.85		8.25	5	0
	10	21.00	19.84	25.15	5.16	98	8.21	3	0
Stn. 5	0	21.10	19.85	25.14	5.30	101	8.21	2	0
	10	20.80	19.86	25.23	5.22	99	8.19	3	0
18. ii									
Stn. 2	0	21.40	19.93	25.17	5.16	99	8.19	6	0
	10	21.00	20.00	25.38	5.13	99	8.18	0	0
Stn. 5	0	20.90	19.91	25.28	5.13	98	8.16	0	0
	10	20.80	19.93	25.34	5.19	99	8.17	0	0
18. iii									
Stn. 2	0	21.80	19.92	25.04	4.76	92	8.17	5	0
	10	22.00	19.93	25.00	4.85	94	8.18	2	0
Stn. 5	0	22.00	19.92	24.98	4.90	95	8.18	4	0
	10	22.10	19.75	24.72	4.93	96	8.17	3	0
28. iv									
Stn. 2	0	19.70	19.82	25.47	5.43	102	8.20	7	0
	10	19.40	20.07	25.90	5.43	102	8.20	7	0
Stn. 5	0	20.80	19.82	25.18	5.43	104	8.23	7	0
	10	20.60	19.80	25.21	5.37	101	8.22	7	0
21. v									
Stn. 2	0	19.70	19.77	25.40	5.28	99	8.25	9	0
	10	19.80	19.79	25.40	5.43	102	8.25	0	0
Stn. 5	0	20.90	19.73	25.02	5.28	101	8.35	3	0
	10	20.70	19.76	25.12	5.97	113	8.35	0	0
20. vi									
Stn. 2	0	18.90	19.49	25.23	5.35	98	8.38	6	0
	10	19.60	19.40	24.91	5.40	100	8.41	4	0
Stn. 5	0	19.80	19.47	24.97	5.35	100	8.53	1	0
	10	21.80	19.31	24.20	5.40	104	8.46	4	0

Station: **FREMANBLE TO ROTTNEST ISLAND**

Latitude:

Longitude:

Date	Depth (m.)	Temp. °C.	Cl ‰	σ _t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952									
26. viii									
Stn. 2	0	17.00	18.95	24.90	6.20	110	8.26	7-14	0
	10	17.50	19.44	25.50	5.58	100	8.26	5-20	0
Stn. 5	0	19.10	19.49	25.18	5.82	107	8.27	5-26	0
	10	19.00	19.48	25.18	5.72	105	8.29	5-18	0
24. ix	0	17.60	19.53	25.60	5.54	99	8.30	5-15	0
Stn. 2	10	18.20	19.46	25.36	5.62	102	8.28	2-19	0
Stn. 5	0	18.60	19.61	25.47	5.47	100	8.31	3-13	0
	10	18.90	19.54	25.30	5.70	105	8.31	4-12	0
22. x									
Stn. 2	0	17.00	19.33	25.47	6.05	107	8.05	1-12	0
	10	16.85	19.31	25.50	6.09	108	8.05	4-16	0
Stn. 5	0	16.80	19.33	25.51	5.96	105	8.14	0-12	0
	10	16.70	19.34	25.56	5.88	104	8.13	0-15	0
20. xi									
Stn. 2	0	18.65	19.62	25.46	5.82	107	8.22	0-8	0
	10	18.60	19.63	25.49	5.82	106	8.30	0	0
Stn. 5	0	18.10	19.67	25.67	5.75	105	8.24	0-8	0
	10	18.10	19.61	25.59	5.82	106	8.24	0-8	0
4. xii									
Stn. 2	0	19.10	19.86	25.68	5.54	103	8.33	12-1	0
	10	19.00	19.88	25.73	5.49	102	8.36	13-2	0
Stn. 5	0	18.70	19.79	25.69	5.60	103	8.31	12-3	0
	10	18.60	19.78	25.70	5.49	101	8.32	14-0	0
19. xii									
Stn. 2	0	19.50	19.84	25.55	5.25	98	8.17	5-11	0
	10	19.20	19.80	25.58	5.45	101	8.22	5-6	0
Stn. 5	0	19.25	19.82	25.59	5.48	102	8.20	5-11	0
	10	21.10	19.80	25.58	5.13	97	8.20	4-24	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
1952 25. i	0	19.50	19.79	25.48	5.32	99	8.14	3-3	0
	10	19.50	19.78	25.47	5.32	99	8.12	3-1	0
	20	19.50	19.85	25.57	5.42	101	8.15	0-6	0
	30	19.50	19.78	25.47	5.42	101	8.14	3-4	0
	40	19.50	19.78	25.47	5.42	101	8.14	3-6	0
	50	19.50	19.78	25.47	5.37	100	8.13	3-6	0
27. ii	0	19.60	19.76	25.42	5.14	96	8.07	4-14	0
	10	19.60	19.65	25.27	5.03	94	8.13	4-5	0
	20	19.60	19.65	25.27	5.03	94	8.14	7-2	0
	30	19.60	19.76	25.42	5.09	95	8.15	10-1	0
	40	19.60	19.77	25.43	4.97	93	8.15	7-1	0
	50	19.60	19.77	25.43	5.03	94	8.13	5-6	0
28. iii	0	20.90	19.89	25.25	5.23	100	8.16	5-0	0
	10	21.00	19.72	24.99	5.23	100	8.16	10-0	0
	20	21.00	19.87	25.19	5.23	100	8.16	4-0	0
	30	21.10	19.87	25.16	5.35	102	8.16	4-5	0
	40	20.90	19.87	25.22	5.25	99	8.16	6-2	0
	50	20.90	19.89	25.25	5.20	98	8.18	3-3	0
2. v	0	19.40	19.94	25.71	5.50	103	8.24	0-11	0
	10	19.30	19.95	25.75	5.55	103	8.25	0-11	0
	20	19.20	19.97	25.80	5.55	103	8.25	0-16	0
	30	19.20	19.97	25.80	5.62	104	8.25	0-12	0
	40	19.00	19.95	25.83	5.55	103	8.25	0-12	0
	50	19.00	19.98	25.88	5.50	102	8.24	0-12	0
19. vi	0	18.60	19.53	25.35	5.49	101	8.71	6-3	0
	10	18.60	19.55	25.38	5.45	100	8.75	3-9	0
	20	18.60	19.50	25.31	5.45	100	8.78	2-11	0
	30	18.40	19.61	25.51	5.55	101	8.78	0-1	0
	40	18.20	19.53	25.45	5.49	100	8.81	2-6	0
	50	17.40	19.59	25.74	5.45	97	8.81	0-7	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
1952 23. vii	0	18.50	19.67	25.58	5.34	98	8.30	0-5	0
	10	18.50	19.65	25.55	5.41	99	8.30	1-11	0
	20	18.50	19.67	25.58	5.32	97	8.31	0-7	0
	30	18.40	19.61	25.52	5.41	99	8.30	2-5	0
	40	16.40	19.67	25.63	5.65	100	8.31	0-7	0
	50	17.50	19.72	25.89	5.65	102	8.32	3-6	0
10. ix	0	17.60	19.55	25.63	5.88	106	8.37	1-9	0
	10	17.20	19.56	25.75	6.06	108	8.40	0-8	0
	20	17.40	19.57	25.71	5.77	103	8.44	0-10	0
	30	17.30	19.54	25.69	5.72	102	8.44	3-6	0
	40	17.00	19.59	25.82	5.90	105	8.46	3-7	0
	50	16.00	19.52	25.96	5.94	104	8.45	1-5	0
26. xi	0	18.00	19.54	25.52	5.49	100	8.34	3-4	0
	10	17.70	19.50	25.54	5.44	98	8.36	4-7	0
	20	17.70	19.54	25.60	5.16	93	8.36	4-1	0
	30	17.70	19.55	25.60	5.49	99	8.36	4-0	0
	40	17.70	19.58	25.65	5.44	98	8.36	7-0	0
	50	17.65	19.59	25.70	5.55	100	8.36	5-3	0

F.R.V. "Derwent Hunter"

Date	Station	Position	Sounding (fathoms)	HYDROLOGICAL OBSERVATIONS					
				Depth (m.)	Temp °C.	Cl ^o / _{oo}	S ^o / _{oo}	σ _t	
1952									
29. ix	28/52	38° 34' S. 145° 21' E.		0 55	13.00 12.30		19.52	35.26	
	29/52	38° 59' S. 145° 54' E.		0 63	13.40 12.10		19.59	35.39	
1. x	30/52	39° 10' S. 146° 23' E.		0 65	12.30 12.00		19.54	35.30	
2. x	31/52	39° 28' S. 147° 20' E.		0 47	12.20 12.10		19.64	35.48	
20. x	32/52	39° 56' S. 148° 34' E.		0 50	12.90 12.50		19.41	35.07	
21. x	33/52	40° 42' S. 148° 55' E.		760	8.10		19.15	34.60	
23. x	34/52	40° 46' S. 147° 40' E.		0 35	12.50 12.30		19.39	35.03	
25. x	35/52	40° 18' S. 147° 23' E.		0 70	11.90 12.15		19.58	35.37	
	36/52	39° 33' S. 147° 12' E.		0 70	13.00 12.80		19.64	35.48	
26. x	37/52	39° 10' S. 146° 23' E.		0 60	13.20 13.20		19.59	35.39	
	38/52	38° 59' S. 145° 54' E.		0 60	13.20 13.10		19.56	35.34	
	39/52	38° 34' S. 145° 21' E.		0 53	13.80 12.90		19.61	35.43	
4. xii	42/52	40° 29' S. 148° 30' E.		0 60	14.40 12.60		19.39 19.37	35.03 34.99	26.14 26.48

F.R.V. "Derwent Hunter"

Date	Station	Position	Sounding (fathoms)	HYDROLOGICAL OBSERVATIONS				
				Depth (m.)	Temp °C.	Cl°/∞	S°/∞	σ _t
1952 4.xii	43/52	40° 42' S.		0	14.75	19.53	35.28	26.26
		148° 55' E.		600	10.20	19.34	34.94	26.89
5.xii	45/52	41° 55' S.		0	14.60	19.38	35.01	26.09
		148° 29' E.		60	12.40	19.37	34.99	26.52
	46/52	42° 32' S.		0	14.25	19.28	34.83	26.02
		148° 30' E.		550	8.90	19.20	34.69	26.90
7.xii	49/52	43° 31' S.		0	13.30	19.26	34.79	26.19
		147° 22' E.		65	12.25	19.29	34.85	26.44

F.R.V. "Stanley Fowler"

Date	Station	Position	Sounding (fathoms)	HYDROLOGICAL OBSERVATIONS					
				Depth (m.)	Temp °C.	Cl°/oo	S°/oo	σ _t	
1952 30.111	1	31° 47' S. 158° 55' E.		0	23.50	19.76	35.70	24.34	
				50	23.00	19.74	35.66	24.45	
				100	22.50	19.72	35.62	24.57	
				200	19.50	19.73	35.64	25.40	
	2	31° 50' S. 158° 50' E.			0	23.20	19.74	35.66	24.39
					50	22.80	19.76	35.70	24.54
					100	22.50	19.75	35.68	24.60
					200	19.40	19.71	35.61	25.40
2.1v	3	32° 20' S. 155° 15' E.		0	23.20	19.73	35.64	24.38	
				50	23.00	19.76	35.70	24.48	
				100	21.50	19.80	35.77	24.96	
				200	18.80	19.75	35.68	25.60	
	4	32° 30' S. 154° 48' E.			0	23.40	19.72	35.62	24.31
					50	23.00	19.76	35.70	24.48
					100	22.80	19.76	35.70	24.54
					200	19.60	19.78	35.73	25.45
	5	32° 42' S. 154° 18' E.			0	23.20	19.77	35.71	24.43
					50	23.00	19.77	35.71	24.49
					100	23.00	19.83	35.82	24.57
					200	20.20	19.80	35.77	25.31
6	32° 55' S. 153° 50' E.			0	23.00	19.80	35.77	24.53	
				50	22.80	19.79	35.75	24.58	
				100	22.50	19.79	35.75	24.66	
				200	19.40	19.72	35.62	25.41	
3.1v	7	33° 07' S. 153° 24' E.		0	23.00	19.74	35.66	24.45	
				50	22.50	19.77	35.71	24.63	
				100	20.50	19.77	35.71	25.19	
				200	16.20	19.66	35.52	26.11	

F.R.V. "Stanley Fowler"

HYDROLOGICAL OBSERVATIONS					PLANKTOLOGICAL OBSERVATIONS									
O ₂	O ₂ /∞	pH	PO ₄ -P	N NO ₃	Net	Depth (m.)	Duration (min.)	Volume (cc.)	D.O.	Count				
										I	II	III	IV	
			3	0										
			6	0										
			6	0										
			8	0										
			3	0										
			6	0										
			4	0										
			18	16										
			2	0										
			4	0										
			6	0										
			9	13										
			3	0										
			6	0										
			3	0										
			9	0										
			4	6										
			3	5										
			5	4										
			4	4										
			4	2										
			4	0										
			4	0										
			10	11										
			2	0										
			3	20										
			6	3										
			15	97										

F.R.V. "Stanley Fowler"

Date	Station	Position	Sounding (fathoms)	HYDROLOGICAL OBSERVATIONS				
				Depth (m.)	Temp °C.	Cl ^o /oo	S ^o /oo	σ _t
1952 3. iv	8	33° 20' S. 152° 55' E.		0	22.30	19.70	35.59	24.60
				50	18.60	19.79	35.75	25.71
				100	15.80	19.65	35.50	26.20
				200	13.40	19.52	35.26	26.54
	9	33° 32' S. 152° 22' E.		0	21.80	19.74	35.66	24.79
				50	18.50	19.72	35.62	25.64
				100	15.80	19.65	35.50	26.20
				150	13.50	19.54	35.30	26.54

F.R.V. "Stanley Fowler"

HYDROLOGICAL OBSERVATIONS					PLANKTOLOGICAL OBSERVATIONS									
O ₂	O ₂ /‰	pH	PO ₄ -P	N NO ₃ -N	Net	Depth (m.)	Duration (min.)	Volume (cc.)	D.O.	Count				
										I	II	III	IV	
			3	0										
			8	15										
			14	99										
			22	187										
			2	0										
			9	7										
			8	99										
			21	169										

R.R.S. "Discovery II"

Date	Station	Position	Sounding (fathoms)	HYDROLOGICAL OBSERVATIONS				
				Depth (m.)	Temp °C.	Cl ^o /∞	S ^o /∞	σ _t
1950 5. x	2706	37° 06' S. 150° 10' E.		0	16.46	19.54	35.30	25.89
				25	16.21	19.61	35.43	26.04
				50	13.71	19.54	35.30	26.50
				75	13.50	19.60	35.41	26.63
	2707	37° 06' S. 150° 17' E.		0	17.01	19.57	35.35	25.80
				25	16.93	19.58	35.37	25.84
				50	15.37	19.63	35.46	26.26
				75	13.32	19.60	35.41	26.66
				100	13.16	19.59	35.39	26.68
	2708	37° 06' S. 150° 24' E.		0	17.12	19.54	35.30	25.78
				25	17.03	19.55	35.32	25.77
				50	14.23	19.53	35.28	26.37
				75	13.20	19.56	35.34	26.63
				100	13.10	19.54	35.30	26.62
				150	12.86	19.56	35.34	26.70
				200	12.54	19.56	35.34	26.76
				300	12.56	19.62	35.44	26.84
	2709	37° 06' S. 150° 35' E.		0	16.18	19.61	35.43	26.05
				25	15.71	19.60	35.41	26.15
				50	14.32	19.55	35.32	26.44
				75	13.63	19.57	35.35	26.55
				100	13.49	19.50	35.23	26.49
				150	12.92	19.52	35.26	26.63
				200	12.30	19.49	35.21	26.72
				300	10.66	19.30	34.87	26.75
				400	9.55	19.18	34.65	26.77
				575	8.36			
				775	6.80	19.02	34.36	26.96
	975	5.49	19.04	34.40	27.16			
	1475	3.07	19.15	34.60	27.58			
	1975	2.40	19.22	34.72	27.74			

R.R.S. "Discovery II"

HYDROLOGICAL OBSERVATIONS					PLANKTOLOGICAL OBSERVATIONS									
O ₂	O ₂ /‰	pH	PO ₄ -P	Σ NO ₃ -N	Net	Depth (m.)	Duration (min.)	Volume (cc.)	D.O.	Count				
										I	II	III	IV	
5.39	95		4-5	8										
5.69	100		4	0										
5.17	87		7-7	55										
5.42	91		10	35										
4.52	80		5-6	0										
5.20	92		7	6										
4.55	79		19-2	152										
5.43	91		9	19										
5.39	90		13-3	39										
5.24	93		9-3	0										
5.32	95		9	0										
4.92	85		17-2	78										
5.21	87		16	115										
5.38	89		15-3	110										
5.37	89		15	97										
5.34	88		13-7	81										
4.90	81		13	42										
5.19	91		13-0	15										
5.58	97		10	8										
5.55	94		10-4	32										
5.20	87		17	91										
5.36	90		16-1	88										
5.07	84		22	105										
4.97	81		24-6	120										
4.74	75		33	211										
4.93	76		35-0	236										
4.02				177										
3.67	53		50-1	342										
3.66	52		57-2	409										
2.86	37		64-2	462										
3.25	43		63-1	448										

R.R.S. "Discovery II"

Date	Station	Position	Sounding (fathoms)	HYDROLOGICAL OBSERVATIONS				
				Depth (m.)	Temp °C.	Cl ^o /oo	S ^o /oo	σ _t
1950 5.x	2710	37° 06' S. 150° 48' E.		0	15.32	19.60	35.41	26.28
				25	15.32	19.51	35.25	26.11
				50	14.36	19.52	35.26	26.33
				75	13.39			
				100	13.44	19.56	35.34	26.59
				150	12.95	19.50	35.23	26.60
				200	12.25	19.42	35.08	26.60
				300	10.51	19.31	34.88	26.79
				400	9.35	19.23	34.74	26.88
				590	7.86	19.18	34.65	27.04
				795	6.44	19.07	34.45	27.08
				1000	5.00	19.09	34.49	27.29
				1510	3.03	19.12	34.54	27.54
				2020	2.34	19.17	34.63	27.67
			6.x	2711	37° 06' S. 151° 13' E.		0	18.09
	25	17.33				19.59	35.39	25.75
	50	15.25				19.54	35.30	26.17
	75	15.02				19.58	35.37	26.28
	100	14.39				19.58	35.37	26.41
	150	13.45				19.54	35.30	26.55
	200	12.10				19.44	35.12	26.68
	300	11.46				19.35	34.96	26.67
	400	9.99						
	545	8.47				19.17	34.63	26.93
	740	7.04				19.14	34.58	27.11
	930	5.62				19.10	34.51	27.23
	1405	3.36				19.13	34.56	27.52
	1880	2.41				19.20	34.69	27.70
	2712	37° 07' S. 151° 33' E.					0	18.03
				25	18.03	19.61	35.43	25.61
				50	16.93	19.52	35.26	25.75
				75	16.05	19.60	35.41	26.07
				100	14.94	19.61	35.43	26.33
				150	13.81	19.57		26.52
				200	13.20	19.51	35.25	26.56
				300	11.39	19.35	34.96	26.69

R.R.S. "Discovery II"

HYDROLOGICAL OBSERVATIONS					PLANKTOLOGICAL OBSERVATIONS								
O ₂	O ₂ %	pH	PO ₄ -P	Z O ₂	Net	Depth (m.)	Duration (min.)	Volume (cc.)	D.O.	Count			
										I	II	III	IV
5.86	101		12-4	3									
4.85	84		7	5									
5.93	101		9-6	10									
4.79													
5.62	94		16-3	51									
5.55	92		15	70									
5.17	84		21-3	129									
5.12	81		29	91									
4.82	74		37-0	263									
4.30	64		43	307									
4.09	59		49-4	364									
3.72	52		58-2	420									
3.36	45		62-5	431									
3.25	43		64-0	439									
4.85	86		5-9	0									
			5	0									
5.07	88		10-3	4									
5.62	97		16	43									
5.28	90		8-4	7									
5.10	85		20	67									
5.37	87		16-4	79									
3.96	64		26	106									
5.03			31-4	190									
4.67	70		44	248									
4.17	61		43-0	250									
3.61	51		54-0	397									
3.23	43		63-0	386									
3.05	40		62-7	382									
5.36	97		7-8	4									
4.88	89		7	0									
4.67	83		11-4	22									
4.47	78		19	93									
5.25	90		12-7	24									
			16	30									
5.57	93		15-6	40									
5.22	84		23	114									

R. R. S. - "Discovery II"

Date	Station	Position	Sounding (fathoms)	HYDROLOGICAL OBSERVATIONS					
				Depth (m.)	Temp °C.	Cl°/oo	S°/oo	σ _t	
1950 6.x	2712	37° 07' S. 151° 33' E.		400	10.09	19.33	34.92	26.89	
				590	8.20	19.06	34.43	26.82	
				780	6.85	19.14	34.58	27.13	
				970	5.39	19.09	34.49	27.24	
				1450	3.15	19.15	34.60	27.57	
				1940	2.34	19.22	34.72	27.74	
		2713	37° 09' S. 151° 55' E.		0	16.98	19.58	35.37	26.17
				25	15.52	19.60	35.41	26.19	
				50	14.87	19.54	35.30	26.25	
				75	13.61	19.51	35.25	26.47	
				100	13.13	19.51	35.25	26.57	
				150	12.83	19.48	35.19	26.59	
				200	12.54	19.52	35.26	26.71	
				300	11.30	19.39	35.03	26.76	
				400	9.82	19.29	34.85	26.88	
				575	8.22	19.11	34.52	26.88	
				765	6.79	19.10	34.51	27.08	
				955	5.54	19.12	34.54	27.27	
	1450	3.30	19.14	34.58	27.55				
	1940	2.37	19.17	34.63	27.58				
	2714	37° 10' S. 153° 04' E.		0	17.15	19.59	35.39	25.80	
			25	16.10	19.61	35.43	26.07		
			50	14.84	19.58	35.37	26.32		
			75	14.43	19.58	35.37	26.41		
			100	13.29	19.57	35.35	26.62		
			150	12.30	19.45	35.14	26.66		
			200	11.81	19.42	35.08	26.70		
			300	10.17	19.31	34.88	26.85		
			400	9.07	19.20	34.69	26.90		
			570	7.81	19.17	34.63	27.03		
			765	6.26	19.11	34.52	27.16		
			960	5.01	19.16	34.61	27.39		
	1445	3.12	19.11	34.52	27.51				
	1930	2.50	19.18	34.65	27.67				

R.R.S. "Discovery II"

HYDROLOGICAL OBSERVATIONS					PLANKTOLOGICAL OBSERVATIONS									
O ₂	O ₂ /∞	pH	PO ₄ -P	Σ NO ₃ ⁻	Net	Depth (m.)	Duration (min.)	Volume (cc.)	D.O.	Count				
										I	II	III	IV	
5.02	78		30-6	215										
4.26	64		38	375										
3.74	55		50-4	424										
3.10	44		51-5	532										
3.43	46		67-0	611										
3.19	42		66-0	564										
5.17	92		10-3	4										
5.95	103		8	2										
5.39	92		9-4	3										
4.78	80		19	134										
4.57	76		27-0	279										
5.62	93		17	115										
5.65	93		16-4	116										
5.40	87		23	225										
5.04	78		35-1	345										
4.57	68		41	456										
4.16	60		53-0	549										
3.91	55		60-0	570										
3.63	49		67-0	638										
3.74	49		67-0	638										
5.66	101		3-5	11										
5.80	102		4	8										
5.35	92		13-3	50										
5.74	98		11	44										
4.77	80		14-7	102										
4.76	78		24	161										
4.90	79		27-1	276										
4.21	66		36	320										
4.71	72		40-0	413										
4.27	63		50	504										
4.07	59		54-0	600										
3.83	54		60-0	649										
3.52	47		65-3	723										
3.43	45		64-6	696										

R.R.S. "Discovery II"

Date	Station	Position	Sounding (fathoms)	HYDROLOGICAL OBSERVATIONS				
				Depth (m.)	Temp °C.	Cl°/∞	S°/∞	σ _t
1950 7.x	2715	37° 14' S. 154° 05' E.		0	16.20	19.59	35.39	26.02
				25	16.11	19.61	35.43	26.06
				50	16.03	19.61	35.43	26.08
				75	15.73	19.63	35.46	26.18
				100	15.44	19.62	35.44	26.23
				150	14.44	19.56	35.34	26.37
				200	13.52	19.53	35.28	26.52
				300	11.84	19.42	35.08	26.70
				400	10.41	19.31	34.88	26.80
				590	8.33	19.23	34.74	27.04
				785	6.79	19.14	34.58	27.14
				980	5.50	19.09	34.49	27.23
				1485	3.17	19.15	34.60	27.57
				1990	2.34	19.20	34.69	27.71
				2471	1.97	19.19	34.67	27.73
				3485	1.28	19.19	34.67	27.78
				4486	1.13	19.19	34.67	27.79
8.x	2716	34° 09' S. 155° 18' E.		0	19.85	19.64	35.48	25.18
				25	19.81	19.67	35.53	25.24
				50	18.92	19.65	35.50	25.44
				75	18.18	19.67	35.53	25.65
				100	17.16	19.71	35.61	25.96
				150	15.39	19.59	35.39	26.20
				200	14.40	19.57	35.35	26.39
				300	12.06	19.40	35.05	26.63
				400	10.98	19.37	34.99	26.79
				580	8.69	19.19	34.67	26.93
				765	7.06	19.17	34.63	27.14
				945	5.42	19.14	34.58	27.32
				1430	3.16	19.17	34.63	27.60
				1910	2.30	19.21	34.70	27.73

R.R.S. "Discovery II"

HYDROLOGICAL OBSERVATIONS					PLANKTOLOGICAL OBSERVATIONS									
O ₂	O ₂ %	pH	PO ₄ -P	Z NO ₃	Net	Depth (m.)	Duration (min.)	Volume (cc.)	D	O	Count			
											I	II	III	IV
5.68	100		9-3	4										
5.77	101		11	0										
5.76	101		11-1	0										
5.59	97		13	14										
5.44	94		13-2	59										
5.53	77		19	119										
5.91	82		20-0	108										
5.54	74		25	228										
5.37	69		31-2	309										
5.55	68		48	398										
5.25	62		53-4	299										
5.86	55		61-3	334										
5.20	43		67-0	393										
5.49	46		64-0	386										
5.65	47		50											
5.00	51		42											
5.92	50		49											
5.15	96		9-0	0										
5.23	98		6	2										
5.81	70		8-6	38										
5.65	85		6	24										
5.39	61		17-3	66										
5.08	71		19	126										
5.32	73		21-2	136										
5.99	65		31	187										
5.13	66		30-9	193										
5.10	62		39	205										
5.55	52		47-0	263										
5.41	48		50-0	340										
5.23	43		63-0	364										
5.13	41		63-0	351										

R.R.S. "Discovery II"

Date	Station	Position	Sounding (fathoms)	HYDROLOGICAL OBSERVATIONS				
				Depth (m.)	Temp °C.	Cl°/∞	S°/∞	σ _t
1950 8.x	2717	34° 02' S. 154° 16' E.		0	18.95	19.66	35.52	25.44
				25	18.44	19.68	35.55	25.60
				50	18.41	19.66	35.52	25.58
				75	18.19	19.70	35.59	25.69
				100	17.17	19.69	35.57	25.93
				150	16.82	19.63	35.46	25.93
				200	14.75	19.56	35.34	26.31
				300	12.44	19.48	35.19	26.67
				400	11.73	19.45	35.14	26.77
				515	9.31	19.26	34.79	26.92
				680	7.40	19.12	34.54	27.02
				840	6.32	19.08	34.47	27.11
				1330	3.67	19.17	34.63	27.55
				1824	2.50	19.14	34.58	27.62
			9.x	2718	33° 55' S. 153° 02' E.		0	19.98
	25	19.98				19.67	35.53	25.19
	50	19.98				19.68	35.55	25.20
	75	19.69				19.70	35.59	25.31
	100	19.17				19.66	35.52	25.39
	150	18.86				19.73	35.64	25.56
	200	18.43				19.68	35.55	25.60
	300	17.09				19.66	35.52	25.90
	400	15.47				19.59	35.39	26.19
	580	10.79				19.32	34.90	26.76
	785	8.12				19.11	34.52	26.90
	990	6.39				19.10	34.51	27.14
	1470	3.50				19.13	34.56	27.40
	1950	2.44				19.20	34.69	27.70
	2719	33° 52' S. 152° 38' E.					0	20.82
			25	20.83	19.65	35.50	24.94	
			50	20.13	19.67	35.53	25.15	
			75	19.74	19.68	35.55	25.26	
			100	19.25	19.69	35.57	25.41	
			150	18.35	19.70	35.59	25.65	
			200	18.09	19.73	35.64	25.76	
	300	16.43	19.63	35.46	26.02			
	400	14.16	19.55	35.32	26.41			

R.R.S. "Discovery II"

HYDROLOGICAL OBSERVATIONS					PLANKTOLOGICAL OBSERVATIONS								
O ₂	O ₂ %	pH	PO ₄ -P	$\frac{7}{NO_3}$	Net	Depth (m.)	Duration (min.)	Volume (cc.)	O.D.	Count			
										I	II	III	IV
5.40	100		7-1	5									
5.25	96		5	0									
5.38	98		4-5	0									
5.70	104		6	0									
4.40	79		12-0	25									
4.23	75		17	58									
4.03	69		21-0	100									
4.31	72		26	120									
4.25	69		25-0	138									
3.78	58		40	220									
3.44	51		52	299									
3.60	52		55	310									
3.02	41		73	348									
2.92	38		68	364									
4.67	87		6-1	4									
5.22	98		7	2									
5.28	99		7-0	0									
5.02	94		5	0									
5.15	94		5-3	4									
5.16	95		7	8									
4.86	89		10-2	24									
4.27	79		16	57									
4.17	72		27-0	93									
3.84	61		33	185									
3.69	55		43-0	209									
3.84	55		53-0	272									
3.28	44		65-1	421									
3.21	42		66-1	421									
5.14	98		4-3	3									
5.31	101		4	2									
5.63	106		5-6	2									
5.08	95		6	2									
4.57	85		8-5	16									
5.43	99		7	10									
5.21	95		12-0	12									
4.54	80		17	61									
5.43	92		16-0	81									

R.R.S. "Discovery II"

Date	Station	Position	Sounding (fathoms)	HYDROLOGICAL OBSERVATIONS				
				Depth (m.)	Temp °C.	Cl°/oo	S°/oo	σ _t
1950 9.x	2719	33° 52' S. 152° 38' E.		560	10.81	19.32	34.90	26.75
				745	8.07	19.13	34.56	26.94
				925	6.56	19.11	34.52	27.12
				1390	3.80	19.10	34.51	27.44
				1850	2.56	19.17	34.63	27.65
	2720	34° 02' S. 152° 27' E.		0	19.91	19.68	35.55	25.22
				25	19.83	19.66	35.52	25.22
				50	19.78	19.64	35.48	25.20
				75	19.64	19.70	35.59	25.32
				100	19.53	19.71	35.61	25.37
				150	18.94	19.73	35.64	25.54
				200	18.25	19.70	35.59	25.68
				300	16.11	19.63	35.46	26.09
				400	13.23	19.53	35.28	26.58
				585	10.46	19.34	34.94	26.85
				760	8.44	19.20	34.69	26.98
				930	6.68	19.13	34.56	27.14
				1390	3.80	19.13	34.56	27.48
				1855	2.57	19.16	34.61	27.64
	2721	34° 05' S. 152° 03' E.		0	21.15	19.63	35.46	24.82
				25	21.08	19.66	35.52	24.88
				50	21.03	19.65	35.50	24.88
				75	20.09	19.68	35.55	25.17
				100	19.75	19.70	35.59	25.29
				150	18.70	19.73	35.64	25.60
				200	17.56	19.67	35.53	25.82
				300	15.28	19.57	35.35	26.20
			400	13.09	19.45	35.14	26.50	
			565	10.12	19.28	34.83	26.82	
			755	7.91	19.13	34.56	26.96	
			945	6.32	19.09	34.49	27.12	
	1400	3.50	19.14	34.58	27.53			
	1850	2.43	19.20	34.69	27.70			

R.R.S. "Discovery II"

HYDROLOGICAL OBSERVATIONS					PLANKTOLOGICAL OBSERVATIONS								
O ₂	O ₂ %	pH	PO ₄ -P	Z NO ₃ -N	Net	Depth (m.)	Duration (min.)	Volume (cc.)	D.O.	Count			
										I	II	III	IV
4.53	72		31	182									
4.23	63		37-9	198									
3.85	56		47-1	279									
3.41	46		61-2	356									
3.23	43		65-0	356									
5.05	95		2-11	4									
4.97	93		1	3									
5.56	104		2-7	3									
5.72	107		4	3									
4.91	91		8-3	6									
4.79	88		6	25									
5.18	94		3-12	14									
4.29	75		19	130									
4.68	78		25-4	151									
4.29	68		33	269									
4.58	69		40-11	340									
4.01	58		49-6	420									
3.58	49		68-1	490									
3.37	44		71-0	503									
4.13	79		7-3	4									
5.26	100		7	0									
5.07	96		7-4	0									
5.51	103		9	0									
5.08	95		9-2	6									
4.73	87		8	37									
4.16	75		16-5	47									
4.43	77		19	85									
4.33	72		29-1	164									
4.46	70		39	219									
4.36	65		47-5	306									
3.87	56		56-0	377									
5.12	69		68-1	444									
3.36	44		65-0	401									

R. R. S. "Discovery II"

Date	Station	Position	Sounding (fathoms)	HYDROLOGICAL OBSERVATIONS							
				Depth (m.)	Temp °C.	Cl°/oo	S°/oo	σ_t			
1950 9.x	2722	34° 04' S. 151° 45' E.		0	21.44	19.58	35.37	24.68			
				25	21.33	19.69	35.57	24.86			
				50	21.07	19.71	35.61	24.96			
				75	20.53	19.67	35.53	25.04			
				100	19.73	19.73	35.64	25.34			
				150	18.55	19.73	35.64	25.64			
				200	17.31	19.67	35.53	25.86			
				300	15.15	19.57	35.35	26.23			
				400	12.83	19.45	35.14	26.56			
				583	9.82	19.30	34.87	26.90			
				771	7.88	19.16	34.61	27.01			
				959	5.99	19.08	34.47	27.16			
	2723	34° 08' S. 151° 33' E.		0	21.34	19.66	35.52	24.81			
				25	21.22	19.62	35.44	24.78			
				50	20.83	19.75	35.68	25.07			
				75	20.14	19.74	35.66	25.24			
				100	19.34	19.74	35.66	25.45			
				150	18.24	19.78	35.73	25.79			
				200	16.42	19.67	35.53	26.08			
				250	14.05	19.52	35.26	26.40			
				2724	34° 05' S. 151° 25' E.		0	21.15	19.63	35.46	24.82
							25	21.13	19.59	35.39	24.78
							50	20.45	19.67	35.53	25.07
							75	19.64	19.74	35.66	25.38
	100	18.55				19.74	35.66	25.66			
	140	16.56				19.65	35.50	26.02			
	2725	34° 05' S. 151° 24' E.		0	20.94	19.58	35.37	24.82			
				25	20.94	19.61	35.43	24.85			
				50	20.42	19.69	35.57	25.10			
				75	18.45	19.70	35.59	25.63			
				100	16.34	19.65	35.50	26.07			
				150	15.94	19.59	35.39	26.08			

R.R.S. "Discovery II"

HYDROLOGICAL OBSERVATIONS					PLANKTOLOGICAL OBSERVATIONS									
O ₂	O ₂ %	pH	PO ₄ -P	Z NO ₃ N	Net	Depth (m.)	Duration (min.)	Volume (cc.)	D.O.	Count				
										I	II	III	IV	
5.48	105		6-3	3										
5.09	98		9	2										
4.96	94		6-9	2										
4.42	84		13	25										
4.51	84		11-0	32										
4.57	84		13	44										
4.56	82		16-3	68										
4.44	76		24	94										
4.12	68		33-16	170										
4.89	76		37	211										
4.43	66		53-0	316										
4.42	63		59-0	342										
5.20	99		4-7	2										
5.30	101		6	3										
5.23	99		6-4	2										
4.36	82		10	22										
4.32	80		18-0	28										
4.40	80		14	37										
4.26	75		20-4	70										
4.08	69		30	125										
5.09	97		5-5	5										
4.69	89		4	0										
4.09	77		12-6	17										
3.92	73		21	37										
3.75	69		17-2	58										
3.94	69		18	92										
4.71	89		7-4	0										
4.77	91		6	0										
4.39	83		11-2	5										
3.81	70		14	48										
3.81	67		19-4	80										
2.75	48		22	101										

R. R. S. "Discovery II"

Date	Station	Position	Sounding (fathoms)	HYDROLOGICAL OBSERVATIONS				
				Depth (m.)	Temp °C.	Cl ^o /oo	S ^o /oo	σ _t
1950 19. x	2726	34° 06' S. 152° 52' E.		0	19.50	19.57	35.35	25.18
				10	19.45	19.59	35.39	25.22
				20	19.48	19.60	35.41	25.23
				30	19.48	19.59	35.39	25.22
				50	19.46	19.58	35.37	25.21
				75	19.46	19.59	35.39	25.22
				100	19.46	19.62	35.44	25.25
				150	19.17	19.61	35.43	25.32
				200	18.77	19.66	35.52	25.49
				300	17.98	19.65	35.50	25.68
				400	14.01	19.49	35.21	26.37
				783	8.86	19.10	34.51	26.78
				970	6.94	19.05	34.42	26.98
				1449	3.94	19.08	34.47	27.39
				2435	2.12	19.16	34.61	27.68
				3295	1.46	19.18	34.65	27.75
				4255	1.15	19.18	34.65	27.77

R.R.S. "Discovery II"

HYDROLOGICAL OBSERVATIONS					PLANKTOLOGICAL OBSERVATIONS									
O ₂	O ₂ %	pH	PO ₄ -P	Σ O ₂ Z	Net	Depth (m.)	Duration (min.)	Volume (cc.)	D.O.	Count				
										I	II	III	IV	
5.32	99		6	14										
			8											
5.32	99		10	14										
			6	14										
5.28	98		7	14										
			4	46										
5.32	99		7	39										
4.95	91		10	24										
4.80	88		11	24										
4.62	84		15	60										
4.38	74		26	325										
4.35	66		48	466										
4.33	63		58	591										
3.54	48		90	871										
3.40	44		92	871										
3.66	50		79	1120										
3.60	46		82	1182										

R.R.S. "Discovery II"

Date	Station	Position	Sounding (fathoms)	HYDROLOGICAL OBSERVATIONS					
				Depth (m.)	Temp °C.	Cl°/∞	S°/∞	σ _t	
1951									
8.1	2778	33° 10' S. 124° 58' E.		0	19.71	19.79	35.75	25.42	
				25	19.57	19.81	35.79	25.47	
				50	19.42	19.82	35.81	25.55	
8- 9.1	2779	33° 34' S. 125° 00' E.		0	19.24	19.80	35.77	25.57	
				25	19.12	19.77	35.71	25.55	
				50	18.81	19.81	35.79	25.69	
9.1	2780	34° 30' S. 124° 58' E.		0	18.48	19.74	35.66	25.68	
				25	18.31	19.72	35.62	25.69	
				50	18.11	19.73	35.64	25.75	
				75	16.01	19.66	35.52	26.16	
				100	14.57	19.60	35.41	26.40	
				150	13.37	19.49	35.21	26.50	
				200	12.77	19.41	35.07	26.51	
				300	11.34	19.34	34.94	26.69	
				400	9.83	19.24	34.76	26.71	
				590	8.38	19.10	34.51	26.85	
				790	6.74	19.03	34.38	26.99	
				990	4.43	19.00	34.33	27.22	
				1475	2.66	19.13	34.56	27.58	
				1975	2.27	19.20	34.69	27.72	
	2781	35° 20' S. 125° 02' E.		0	18.35	19.69	35.57	25.64	
				25	18.00	19.67	35.53	25.70	
				50	17.33	19.68	35.55	25.87	
				75	15.80	19.67	35.53	26.22	
				100	14.75	19.64	35.48	26.41	
				150	14.06	19.58	35.37	26.48	
				200	13.18	19.50	35.23	26.55	
				300	11.57	19.36	34.97	26.67	
				400	11.64	19.40	35.05	26.71	
				585	8.30	19.14	34.58	26.92	
				780	6.19	19.06	34.43	27.10	
				975	4.10	19.00	34.33	27.26	
				1475	2.68	19.13	34.56	27.58	
				1975	2.28	19.18	34.65	27.69	

R.R.S. "Discovery II"

HYDROLOGICAL OBSERVATIONS					PLANKTOLOGICAL OBSERVATIONS								
O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N	Net	Depth (m.)	Duration (min.)	Volume (cc.)	O.D.	Count			
										I	II	III	IV
5.46	102		3										
5.46	102		3										
5.46	101		3										
5.44	101		1										
5.53	102		0										
5.50	101		1										
5.56	102		2										
5.63	103		3										
5.56	101		2										
5.96	104		3										
6.00	102		4										
5.91	99		5										
5.84	96		9										
5.63	89		14										
5.70	88		19										
5.24	79		25										
4.45	65		36										
4.05	56		46										
3.58	47		55										
3.76	49		64										
			4										
4.66	84		4										
4.88	87		3										
4.92	83		3										
4.70	80		5										
4.33	73		9										
4.46	74		11										
4.91	79		19										
4.55	73		19										
4.18	63		39										
3.79	54		52										
3.49	48		64										
3.00	40		67										
3.06	40		66										

R. R. S. "Discovery II"

Date	Station	Position	Sounding (fathoms)	HYDROLOGICAL OBSERVATIONS				
				Depth (m.)	Temp. °C.	Cl ^o /oo	S ^o /oo	σ _t
1951 9- 10.1	2782	36° 10' S. 125° 00' E.		0	18.11	19.70	35.59	25.71
				25	18.06	19.70	35.59	25.72
				50	17.83	19.70	35.59	25.78
				75	15.70	19.64	35.48	26.20
				100	14.94	19.65	35.50	26.39
				150	13.80	19.53	35.28	26.46
				200	13.05	19.49	35.21	26.57
				300	11.74	19.39	35.03	26.68
				400	10.06	19.25	34.78	26.79
				580	8.59	19.17	34.63	26.91
				720	7.37	19.08	34.47	26.97
				860	5.75	19.04	34.40	27.13
				1170	3.55	19.04	34.40	27.37
				1425	2.75	19.11	34.52	27.55
10.1	2784	37° 49' S. 124° 44' E.		0	16.33	19.56	35.34	25.95
				25	15.74	19.52	35.26	26.03
				50	15.31	19.51	35.25	26.11
				75	12.96	19.41	35.07	26.47
				100	12.53	19.41	35.07	26.55
				150	11.42	19.35	34.96	26.68
				200	11.03	19.33	34.92	26.73
				300	9.85	19.29	34.85	26.87
				400	8.95	19.22	34.72	26.93
				590	8.54	19.18	34.65	26.93
				790	7.42	19.11	34.52	27.00
				990	5.28	19.03	34.38	27.18
				1490	2.85	19.13	34.56	27.57
				1980	2.36	19.21	34.70	27.73
12.1	2786	40° 05' S. 118° 00' E.		0	14.60	19.39	35.03	26.10
				25	14.12	19.35	34.96	26.14
				50	13.41	19.34	34.94	26.28
				75	12.01	19.35	34.96	26.57
				100	11.12	19.30	34.87	26.67
				150	10.22	19.30	34.87	26.83
				200	10.43	19.32	34.90	26.82
	300	9.14	19.18	34.65	26.84			

R.R.S. "Discovery II"

HYDROLOGICAL OBSERVATIONS					PLANKTOLOGICAL OBSERVATIONS								
O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N	Net	Depth (m.)	Duration (min.)	Volume (cca.)	D.O.	Count			
										I	II	III	IV
5.14	93		2										
5.28	96		5										
5.23	95		7										
5.52	96		13										
5.46	97		13										
5.32	89		19										
5.28	91		21										
5.16	83		29										
5.47	85		33										
5.06	76		37										
4.51	66		42										
4.26	61		60										
3.95	53		68										
3.50	46		66										
5.62	99		2										
5.62	98		5										
			7										
5.84	97		13										
5.75	94		13										
5.75	92		19										
5.66	90		21										
5.47	85		29										
5.47	83		33										
4.74	72		37										
4.37	64		42										
3.93	55		59										
3.33	44		68										
3.21	42		66										
6.15	105		13										
6.19	104		12										
6.21	107		15										
6.18	100		16										
6.28	100		16										
6.28	98		19										
5.71	90		27										
6.05	63		33										

R. R. S. "Discovery II"

Date	Station	Position	Sounding (fathoms)	HYDROLOGICAL OBSERVATIONS					
				Depth (m.)	Temp °C.	Cl°/oo	S°/oo	σ _t	
1951									
12.1	2786	40° 05' S. 118° 00' E.		400	8.80	19.19	34.67	26.91	
				600	8.43	19.14	34.58	26.90	
				800	7.31	19.08	34.47	26.98	
				1000	5.15	19.01	34.34	27.16	
				1500	2.94	19.13	34.56	27.56	
				2000	2.48	19.21	34.70	27.72	
13.1	2787	38° 25' S. 118° 06' E.		0	15.59	19.55	35.32	26.10	
				25	15.55	19.55	35.32	26.11	
				50	15.37	19.59	35.39	26.21	
				75	14.40	19.59	35.39	26.42	
				100	13.67	19.56	35.34	26.54	
				150	12.75	19.49	35.21	26.63	
				200	11.46	19.36	34.97	26.69	
				300	9.92	19.23	34.74	26.79	
				400	9.10	19.20	34.69	26.87	
				540	8.53	19.16	34.61	26.92	
				700	8.10	19.08	34.47	26.86	
				975	5.21	19.04	34.40	27.19	
				1010	4.44	19.03	34.38	27.27	
				1370	3.02	19.15	34.60	27.58	
	2788	37° 34' S. 118° 05' E.		0	17.31	19.71	35.61	25.92	
				25	16.04	19.55	35.32	26.00	
				50	15.80	19.62	35.44	26.15	
				75	14.20	19.54	35.30	26.40	
				100	13.98	19.56	35.34	26.47	
				150	12.04	19.40	35.05	26.63	
				200	11.40	19.35	34.96	26.68	
				300	9.94	19.24	34.76	26.79	
				400	9.09	19.09	34.49	26.72	
				600	8.51	19.11	34.52	26.74	
				785	6.84	19.04	34.40	26.99	
				970	4.77	18.99	34.31	27.17	
				1460	2.83	19.05	34.42	27.45	
				1960	2.41	19.16	34.61	27.66	

R.R.S. "Discovery II"

HYDROLOGICAL OBSERVATIONS					PLANKTOLOGICAL OBSERVATIONS								
O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N	Net	Depth (m.)	Duration (min.)	Volume (ccs.)	D.O.	Count			
										I	II	III	IV
6.00	91		35										
5.38	81		38										
4.71	71		47										
4.34	61		58										
3.64	48		69										
3.76	49		67										
6.03	105		10										
6.09	106		10										
5.82	101		10										
5.85	99		11										
5.77	97		13										
5.80	96		16										
5.67	91		20										
5.78	90		29										
5.68	87		34										
5.32	80		37										
6.23	93		66										
4.34	61		59										
4.02	55		60										
3.13	42		54										
5.22	93		6										
6.06	106		5										
6.08	106		7										
6.02	102		14										
5.81	98		13										
5.99	97		17										
5.96	96		22										
6.09	94		29										
5.88	89		37										
5.26	79		39										
4.16	60		57										
4.04	56		68										
3.52	47		74										
3.58	47		71										

R. R. S. "Discovery II"

Date	Station	Position	Sounding (fathoms)	HYDROLOGICAL OBSERVATIONS				
				Depth (m.)	Temp °C.	Cl ^o /∞	S ^o /∞	σ _t
1951 13- 14. i	2789	36° 45' S. 118° 02' E.		0	17.79	19.83	35.82	25.97
				25	17.59	19.78	35.73	25.95
				50	17.58	19.80	35.77	25.98
				75	16.08	19.75	35.68	26.26
				100	15.16	19.71	35.61	26.43
				150	14.74	19.68	35.55	26.47
				200	14.06	19.61	35.43	26.52
				300	11.97	19.42	35.08	26.67
				400	10.14	19.28	34.83	26.81
				545	9.02	19.20	34.69	26.89
				785	8.07	19.14	34.58	26.96
				980	5.49	18.99	34.31	27.09
				1480	2.87	19.13	34.56	27.57
				1980	2.37	19.20	34.69	27.71
			14. i	2790	35° 54' S. 118° 02' E.		0	18.36
	25	18.36				19.69	35.57	25.64
	50	17.66				19.69	35.57	25.79
	75	14.89				19.63	35.46	26.37
	100	13.74				19.55	35.32	26.50
	150	12.95				19.52	35.26	26.64
	200	12.07				19.42	35.08	26.65
	300	10.57				19.31	34.88	26.78
	400	9.08				19.19	34.67	26.87
	600	8.42				19.09	34.49	26.83
	800	6.55				19.04	34.40	27.03
	1000	3.99				18.99	34.31	27.26
	1480	2.87				19.08	34.47	27.50
	1980	2.46				19.19	34.67	27.69
	2791	35° 35' S. 118° 03' E.					0	18.38
			25	18.16	19.71	35.61	25.72	
			50	17.46	19.68	35.55	25.84	
			75	15.92	19.68	35.55	26.21	
			100	14.57	19.60	35.41	26.40	
			150	13.26	19.52	35.26	26.59	
			200	12.42	19.46	35.16	26.66	
	300	10.72	19.34	34.94	26.81			

R.R.S. "Discovery II"

HYDROLOGICAL OBSERVATIONS					PLANKTOLOGICAL OBSERVATIONS								
O ₂	O ₂ /‰	pH	PO ₄ -P	Z NO ₃	Net	Depth (m.)	Duration (min.)	Volume (cc.)	D.O.	Count			
										I	II	III	IV
5.65	102		4										
5.65	102		15										
5.71	103		9										
5.81	102		7										
5.75	99		9										
5.77	99		12										
5.71	97		12										
5.96	97		20										
5.96	93		28										
5.44	83		36										
5.08	76		44										
4.31	61		61										
3.58	48		72										
3.74	49		74										
5.60	102		17										
5.64	103		15										
5.95	107		13										
5.88	101		12										
5.87	99		13										
5.74	95		20										
5.74	93		26										
5.74	91		35										
5.66	86		41										
5.18	78		48										
4.28	62		60										
4.04	55		74										
3.51	47		78										
3.60	47		80										
5.58	100		15										
5.58	101		15										
5.80	104		14										
5.77	101		18										
5.75	98		17										
5.67	95		21										
5.78	95		25										
5.81	92		34										

R.R.S. "Discovery II"

Date	Station	Position	Sounding (fathoms)	HYDROLOGICAL OBSERVATIONS					
				Depth (m.)	Temp °C.	Cl ^o /oo	S ^o /oo	σ _t	
1951 14.1	2791	35° 35' S. 118° 03' E.		400	9.10	19.19	34.67	26.86	
				560	8.46	19.16	34.61	26.93	
				750	6.75	19.08	34.47	27.06	
				940	4.18	19.03	34.38	27.30	
				1435	2.74	19.17	34.63	27.64	
				1895	2.30	19.21	34.70	27.73	
	2792	35° 25' S. 118° 03' E.		0	19.42	19.83	35.82	25.56	
				25	19.26	19.81	35.79	25.57	
				50	18.71	19.76	35.70	25.64	
				75	17.46	19.82	35.81	26.04	
				100	16.90	19.76	35.70	26.09	
				125	16.59	19.80	35.77	26.22	
	2793	35° 16' S. 118° 02' E.		0	19.56	19.76	35.70	25.42	
				25	19.56	19.76	35.70	25.42	
				50	18.62	19.76	35.70	25.67	
	16.1	2794	32° 03' S. 109° 39' E.		0	19.75	19.79	35.75	25.41
					25	19.18	19.83	35.82	25.62
					50	18.62	19.84	35.84	25.77
				75	17.64	19.84	35.84	26.02	
				100	16.63	19.75	35.68	26.14	
				150	15.53	19.77	35.71	26.42	
				200	13.54	19.56	35.34	26.56	
				300	11.75	19.41	35.07	26.71	
				400	9.99	19.27	34.81	26.83	
				580	8.93	19.16	34.61	26.85	
				770	7.39	19.04	34.40	26.91	
				960	4.64	18.99	34.31	27.19	
				1450	2.98	19.09	34.49	27.50	
				1950	2.44	19.14	34.58	27.62	

R.R.S. "Discovery II"

HYDROLOGICAL OBSERVATIONS					PLANKTOLOGICAL OBSERVATIONS								
O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N	Net	Depth (m.)	Duration (min.)	Volume (ccs.)	D.O.	Count			
										I	II	III	IV
5.78	88		48										
4.43	78		50										
4.34	63		67										
4.19	57		73										
3.61	48		81										
3.73	49		81										
5.35	101		10										
5.36	101		7										
5.50	103		9										
5.47	98		10										
4.92	88		12										
5.45	96		11										
5.31	99		15										
5.32	99		20										
5.38	100		12										
5.46	102		4										
5.46	103		4										
5.69	106		3										
5.66	102		5										
5.75	102		7										
5.65	98		9										
5.68	95		13										
5.87	95		19										
5.93	92		27										
5.53	84		33										
4.77	70		43										
4.28	59		58										
3.52	46		75										
3.58	47		73										

R.R.S. "Discovery II"

Date	Station	Position	Sounding (fathoms)	HYDROLOGICAL OBSERVATIONS				
				Depth (m.)	Temp. °C.	Cl°/∞	S°/∞	σ _t
1951 17.1	2795	32° 13' S. 111° 46' E.		0	19.85	19.76	35.70	25.35
				25	19.56	19.75	35.68	25.41
				50	19.51	19.74	35.66	25.41
				75	19.44	19.71	35.61	25.39
				100	19.37	19.76	35.70	25.48
				150	18.11	19.81	35.79	25.86
				200	16.57	19.78	35.73	26.20
				300	14.10	19.66	35.52	26.58
				400	12.28	19.43	35.10	26.63
				500	10.10	19.23	34.74	26.75
				670	8.50	19.11	34.52	26.84
				970	4.85	19.04	34.40	27.23
				1465	3.12	19.13	34.56	27.54
				1945	2.42	19.14	34.58	27.62
				2796	32° 06' S. 112° 41' E.		0	19.99
	25	19.56				19.81	35.79	25.49
	50	18.71				19.84	35.84	25.75
	75	18.03				19.88	35.91	25.98
	100	17.06				19.83	35.82	26.15
	150	15.65				19.79	35.75	26.42
	200	14.55				19.69	35.57	26.53
	300	12.70				19.55	35.32	26.71
	400	10.17				19.26	34.79	26.78
	525	9.43				19.21	34.70	26.84
	690	8.27				19.16	34.61	26.96
	855	6.01				19.08	34.47	27.15
	1305	3.19				19.09	34.49	27.51
	1765	2.54				19.17	34.63	27.65
X 18.1	2797	32° 00' S. 113° 33' E.					0	19.86
				25	18.34	19.79	35.75	25.78
				50	17.66	19.78	35.73	25.94
				75	15.78	19.72	35.62	26.29
				100	14.82	19.66	35.52	26.42
				150	13.19	19.54	35.30	26.61
				200	12.19	19.45	35.14	26.68
				300	10.34	19.30	34.87	26.81

R.R.S. "Discovery II"

HYDROLOGICAL OBSERVATIONS					PLANKTOLOGICAL OBSERVATIONS								
O ₂	O ₂ /∞	pH	PO ₄ -P	NO ₃ -N	Net	Depth (m.)	Duration (min.)	Volume (cc.)	D.O.	Count			
										I	II	III	IV
5.36	100		6										
5.40	101		5										
5.44	101		6										
5.35	99		5										
5.36	99		5										
5.35	97		6										
5.45	96		9										
5.62	95		16										
5.99	98		18										
5.59	87		30										
5.24	79		39										
4.37	61		63										
3.46	92		70										
3.49	46		72										
5.40	101		3										
5.44	101		4										
5.62	102		4										
5.60	102		4										
5.53	99		6										
5.50	96		10										
5.53	95		12										
5.96	98		14										
5.96	96		30										
5.50	85		33										
5.14	77		38										
4.35	62		56										
3.52	47		72										
3.61	48		112										
5.31	99		15										
5.56	102		7										
6.11	110		6										
5.82	102		8										
5.83	100		11										
5.69	95		16										
5.78	94		23										
5.93	93		29										

R.R.S. "Discovery II"

Date	Station	Position	Sounding (fathoms)	HYDROLOGICAL OBSERVATIONS				
				Depth (m.)	Temp °C.	Cl°/oo	S°/oo	σ _t
1951 18.1	2797	32° 00' S. 113° 33' E.		400	9.26	19.20	34.69	26.85
				570	8.58	19.18	34.65	26.93
				770	6.81	19.07	34.45	27.03
				970	4.18	19.03	34.38	27.30
				1450	2.89	19.14	34.58	27.58
				1950	2.33	19.20	34.69	27.71
X	2798	31° 58' S. 114° 33' E.		0	21.32	19.86	35.88	25.09
				25	20.11	19.85	35.86	25.41
				50	18.59	19.80	35.77	25.73
				75	17.69	19.79	35.75	25.94
				100	17.28	19.80	35.77	26.06
				150	16.13	19.72	35.62	26.21
				200	15.12	19.65	35.50	26.34
				300	12.36	19.44	35.12	26.63
				400	10.23	19.27	34.81	26.79
				560	8.68	19.14	34.58	26.86
				740	5.99	19.09	34.49	27.17
				920	3.94	19.06	34.43	27.36
				1420	2.91	19.15	34.60	27.59
				1890	2.19	19.22	34.72	27.75
X	2799	31° 56' S. 114° 56' E.		0	22.11	19.70	35.59	24.65
				25	20.93	19.76	35.70	25.06
				50	20.14	19.77	35.71	25.30
				75	19.75	19.78	35.73	25.39
				100	19.13	19.78	35.73	25.57
				150	17.53	19.82	35.81	26.02
				200	16.51	19.79	35.75	26.22
				275	14.69	19.63	35.46	26.41
				370	12.03	19.38	35.01	26.51
				470	9.39	19.22	34.72	26.85

R.R.S. "Discovery II"

HYDROLOGICAL OBSERVATIONS					PLANKTOLOGICAL OBSERVATIONS								
O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N	Net	Depth (m.)	Duration (min.)	Volume (cc.)	D.O.	Count			
										I	II	III	IV
5.83	89		33										
5.46	82		39										
4.43	64		48										
4.03	55		61										
3.41	45		64										
3.46	45		70										
5.28	101		15										
5.31	100		7										
5.47	100		5										
5.65	102		6										
5.54	99		6										
5.54	97		12										
5.56	96		11										
5.62	92		20										
6.00	94		25										
5.47	83		35										
4.46	64		59										
4.04	55		67										
3.55	47		68										
3.67	48		68										
5.02	97		3										
5.08	97		3										
5.25	99		8										
5.23	98		4										
5.45	101		3										
5.35	96		7										
5.34	94		13										
5.24	90		19										
5.43	89		25										
5.52	85		34										

R.R.S. "Discovery II"

Date	Station	Position	Sounding (fathoms)	HYDROLOGICAL OBSERVATIONS							
				Depth (m.)	Temp °C.	Cl ^o /oo	S ^o /oo	σ _t			
1951 18.1	✓ 2800	31° 56' S. 115° 07' E.		0	21.61	19.73	35.64	24.83			
				25	20.86	19.76	35.70	25.08			
				50	20.62	19.80	35.77	25.20			
				75	20.23	19.79	35.75	25.29			
				100	20.07	19.79	35.75	25.33			
				150	19.99	19.76	35.70	25.31			
				200	18.38	19.82	35.81	25.81			
				300	13.32	19.59	35.39	26.65			
				385	13.03	19.67	35.53	26.82			
				595	8.17	19.15	34.60	26.95			
				695	6.38	19.09	34.49	27.12			
				✓ 2801	31° 56' S. 115° 25' E.		0	21.74	19.83	35.82	24.93
						25	20.65	19.75	35.68	25.12	
						50	20.43	19.82	35.81	25.28	
	75	20.41	19.80			35.77	25.26				

R.R.S. "Discovery II"

HYDROLOGICAL OBSERVATIONS					PLANKTOLOGICAL OBSERVATIONS									
O ₂	O ₂ /∞	pH	PO ₄ -P	Z NO ₃	Net	Depth (m.)	Duration (min.)	Volume (cc.)	D.O.	Count				
										I	II	III	IV	
5.23	101		6											
5.21	99		9											
5.16	98		5											
5.12	96		12											
5.12	96		7											
5.05	95		11											
5.10	93		11											
5.57	93		25											
5.28	88		20											
5.27	79		46											
4.58	66		61											
5.16	100		11											
5.30	100		11											
5.55	105		10											
5.18	98		9											