

OCEANOGRAPHICAL STATION LIST

Volume 33

Coastal Hydrological Investigations in Eastern and
South-western Australia, 1957

Compiled by D. J. Rochford



Division of Fisheries and Oceanography
Commonwealth Scientific and Industrial
Research Organization, Australia

Melbourne 1958

Printed by C.S.I.R.O., Melbourne

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COASTAL HYDROLOGICAL INVESTIGATIONS IN EASTERN AND SOUTH-WESTERN
AUSTRALIA, 1957

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I. INTRODUCTION

In previous years the results of analyses of coastal waters in eastern and south-western Australia were all published in one volume. This year they have been divided up, so that the data from Eden and Port Hacking appear as separate volumes. This volume contains the data from the remaining coastal stations.

II. METHODS AND UNITS

The hydrological methods and units have been given in a previous volume (C.S.I.R.O. Aust. (1957)), but this year $\mu\text{g at./l.}$ instead of $\mu\text{g/l.}$ has been used for nutrients.

The phosphate data have been subdivided so that, in some cases, two figures will be given under $\text{PO}_4\text{-P}$. The first is the inorganic and the second the organic phosphate figure, determined as a difference between the total phosphorus and the inorganic phosphate content of the water. Where only one figure appears, this is total phosphorus.

III. PERSONNEL

The sampling has been the responsibility of Mr. R. Bradley. The laboratory analyses have been carried out by Messrs. C. Walker, F. Davies, K. Champion, and G. Dal Pont at Cronulla, and Messrs. A. Middleton and N. Dyson at Perth. Misses O. Jacobsen, E. Mayman, F. Luce, and R. Weidenhofer, and Mrs. R. Birks have been responsible for the processing of the data and the preparation of the typed sheets, under the general direction of Mr. A. D. Crooks.

IV. REFERENCE

C.S.I.R.O. Aust (1957).—Onshore and oceanic hydrological investigations in eastern and south-western Australia, 1955. *C.S.I.R.O. Aust. Oceanogr. Sta. List 27*: 1-145.

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
1957 8.1	0	13.50	19.36	26.29	5.90	98		0.39- 0.064	0
	10	13.40	19.37	26.32	5.95	98		0.36- 0.097	0
	20	13.40	19.38	26.34	5.95	98		0.36- 0.097	1.43
	30	13.55	19.38	26.35	5.90	98		0.36- 0.097	0
	40	13.35	19.39	26.36	5.82	96		0.36- 0.097	0.71
	50	13.35	19.39	26.36	5.82	96		0.36- 0.097	0.71
22.1	0	14.55	19.33	26.02	5.95	100		0.32-0	0
	10	14.30	19.39	26.16	5.95	100		0.42-0	0
	20	14.10	19.37	26.18	5.90	100		0.42-0	0
	30	13.80	19.37	26.24	5.90	99		0.32-0	0
	40	13.80	19.37	26.24	5.90	99		0.32-0	0
	50	13.20	19.35	26.33	5.78	96		0.42-0	0.71
5.11	0	14.70	19.37	26.05	5.77	98		0.39-0	0
	10	14.40	19.37	26.11	5.83	98		0.39-0	0
	20	14.35	19.38	26.14	5.83	98		0.36- 0.032	0
	30	14.30	19.38	26.16	5.83	98		0.36- 0.097	0
	40	14.25	19.39	26.17	5.81	98		0.36- 0.097	0
	50	14.25	19.38	26.17	5.77	97		0.32-0	0

Station: MARIA ISLAND

Latitude: 42°36' S.

Longitude: 148°16' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1957 19.ii	0	16.10	19.41	25.79	5.71	100		0.36-0	0
	10	15.90	19.40	25.82	5.71	99		0.39-0	0
	20	15.05	19.37	25.97	5.75	98		0.39-0	0
	30	14.20	19.36	26.15	5.65	95		0.36- 0.32	1.79
	40	13.80	19.37	26.24	5.51	92		0.52-0	2.86
	50	13.40	19.34	26.28	5.51	92		0.52-0	4.29
5.iii	0	15.35	19.37	25.91	5.78	100		0.39-0	0.71
	10	15.00	19.37	25.98	5.83	100		0.39-0	0
	20	14.80	19.37	26.03	5.72	98		0.39-0	0
	30	14.60	19.37	26.07	5.60	96		0.45- 0.032	0.36
	40	14.45	19.37	26.10	5.60	95		0.45- 0.032	1.07
	50	14.25	19.37	26.15	5.58	94		0.48-0	1.43
2.iv	0	14.35	19.37	26.12	5.60	95		0.36- 0.032	1.07
	10	14.20	19.37	26.16	5.67	96		0.36- 0.032	1.07
	20	14.20	19.37	26.16	5.67	96		0.39- 0.19	0.71
	30	14.20	19.36	26.15	5.64	96		0.36- 0.097	1.43
	40	14.20	19.36	26.15	5.67	96		0.36- 0.064	1.43
	50	14.20	19.36	26.15	5.67	96		0.39- 0.032	1.43

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
1957 16.1v	0	14.40	19.43	26.20	5.61	95		0.36- 0.23	0.36
	10	14.40	19.43	26.20	5.64	96		0.64-0	0
	20	14.40	19.43	26.20	5.64	96		0.36- 0.19	0
	30	14.40	19.43	26.20	5.67	96		0.36- 0.36	0
	40	14.40	19.43	26.20	5.67	96		0.36-0	0
	50	14.40	19.43	26.20	5.67	96		0.32- 0.064	0
3.v	0	13.40	19.37	26.32	5.65	94		0.42- 0.032	2.14
	10	13.40	19.37	26.32	5.65	94		0.42-0	1.43
	20	13.40	19.36	26.31	5.65	94		0.42- 0.032	1.79
	30	13.40	19.36	26.31	5.65	94		0.42- 0.032	1.79
	40	13.40	19.36	26.31	5.65	94		0.42- 0.064	1.79
	50	13.40	19.36	26.31	5.65	94		0.42-0	1.79
4.vi	0	13.20	19.44	26.46	5.71	95		0.39- 0.097	1.79
	10	13.20	19.44	26.46	5.71	95		0.39-0	1.43
	20	13.20	19.44	26.46	5.71	95		0.39-0	2.14
	30	13.20	19.44	26.46	5.71	95		0.39-0	2.14
	40	13.20	19.44	26.46	5.71	95		0.39-0	2.14
	50	13.20	19.44	26.46	5.71	95		0.36- 0.032	2.14

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
1957 3.vii	0	12.40	19.44	26.62	5.89	96		0.39	1.43
	10	12.40	19.44	26.62	5.94	97		0.45	1.43
	20	12.50	19.44	26.60	5.89	96		0.45-0	1.43
	30	12.50	19.44	26.60	5.92	97		0.45-0	1.07
	40	12.50	19.44	26.60	6.30	103		0.45-0	1.43
	50	12.50	19.44	26.60	5.89	96		0.45	1.07
16.vii	0	12.40	19.46	26.65	5.95	97		0.36- 0.064	2.14
	10	12.40	19.46	26.65	5.95	97		0.39- 0.064	1.79
	20	12.40	19.46	26.65	5.95	97		0.45-0	1.79
	30	12.40	19.46	26.65	5.95	97		0.45-	1.43
	40	12.40	19.46	26.65	5.95	97		0.45-0	1.43
	50	12.40	19.46	26.65	5.95	97		0.45-0	1.43
6.viii	0	12.10	19.46	26.70	6.02	98		0.45-0	1.07
	10	12.15	19.46	26.69	6.02	98		0.45-0	1.07
	20	12.15	19.46	26.69	6.02	98		0.45- 0.032	0.36
	30	12.20	19.46	26.69	6.02	98		0.45- 0.26	0.71
	40	12.20	19.46	26.69	6.02	98		0.45-0	0.71
	50	12.20	19.46	26.69	6.02	98		0.45- 0.13	0.36
20.viii	0	12.15	19.49	26.74	6.02	98		0.42-0	1.79
	10	12.15	19.49	26.74	6.02	98		0.42-0	1.43
	20	12.15	19.49	26.74	6.05	98		0.42- 0.032	1.43
	30	12.15	19.49	26.74	6.05	98		0.42- 0.032	1.07
	40	12.10	19.49	26.75	6.05	98		0.42-0	1.43
	50	12.05	19.49	26.76	6.05	98		0.42-0	1.79

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
1957 3.ix	0	11.90	19.49	26.79	6.10	99		0.42-0	1.79
	10	11.90	19.49	26.79	6.10	99		0.42-0	1.43
	20	11.90	19.49	26.79	6.15	100		0.42-0	1.07
	30	11.90	19.49	26.79	6.10	99		0.39-0	1.07
	40	11.90	19.49	26.79	6.15	100		0.39-0	0.71
	50	11.90	19.49	26.79	6.15	100		0.36- 0.032	1.07
19.ix	0	12.00	19.47	26.74	5.95	97		0.45-0	1.79
	10	12.05	19.47	26.73	6.02	98		0.45-0	1.43
	20	12.05	19.47	26.73	6.02	98		0.45-0	0.71
	30	12.05	19.47	26.73	5.95	97		0.45-0	1.43
	40	12.05	19.47	26.73	6.08	99		0.45-0	1.43
	50	12.05	19.47	26.73	6.02	98		0.45-0	1.43
15.x	0	11.70	19.44	26.75	6.07	97		0.42-0	1.79
	10	11.65	19.44	26.76	6.07	97		0.42- 0.032	1.79
	20	11.65	19.44	26.76	6.11	98		0.45-0	1.43
	30	11.75	19.45	26.77	5.95	96		0.42-0	0.71
	40	11.70	19.45	26.77	6.11	98		0.42-0	0.71
	50	11.70	19.45	26.77	6.05	97		0.42-0	1.07
1.xi	50	11.45	19.40	26.74	6.06	97		0.45-0	2.50
28.xi	0	12.60	19.36	26.47	5.95	97		0.32- 0.064	0.36
	10	12.40	19.36	26.51	6.06	99		0.39- 0.032	0
	20	12.35	19.36	26.52	-	-		0.42-0	0
	30	12.20	19.35	26.53	6.04	98		0.42-0	0
	40	12.20	19.35	26.53	6.01	97		0.45-0	0.36
	50	12.20	19.35	26.53	5.98	97		0.45-0	0

Station: **MARIA ISLAND**

Latitude: **42°36' S.**

Longitude: **148°16' E.**

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1957 17.xii	0	12.70	19.35	26.43	6.03	99		0.43-0	1.07
	10	12.70	19.35	26.43	6.09	100		0.42-0	1.07
	20	12.65	19.35	26.44	6.09	100		0.42- 0.032	1.07
	30	12.60	19.35	26.45	6.09	100		0.42-0	1.07
	40	12.60	19.35	26.45	6.03	99		0.42- 0.032	0.71
	50	12.60	19.35	26.45	5.98	98		0.42- 0.032	1.07

Station: PORT SORELL

Latitude: 40°51' S.

Longitude: 146°24' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1957 3.i	0	14.20	19.50	26.34	5.82	98		0.74	
	10	14.20	19.55	26.40	5.82	98		0.32	
	20	13.80	19.56	26.51	5.82	97		0.23	
	30	13.70	19.56	26.53	5.67	95		0.29	
	40	13.70	19.57	26.54	5.58	94		0.39	
	50	13.40	19.55	26.57	7.00	116		0.39	
21.v	0	13.70	19.50	26.44				0.55	
	10	13.70	19.50	26.44				0.55	
	20	13.80	19.50	26.42				0.55	
	30	13.80	19.50	26.42				0.55	
	40	13.90	19.51	26.41				0.58	
	50	13.80	19.52	26.45				0.90	
16.vii	0	12.10	19.24	26.40				0.48	
	10	12.30	19.40	26.58				0.48	
	20	12.60	19.50	26.67				0.48	
	30	12.50	19.50	26.69				0.52	
	40	12.50	19.50	26.69				0.45	
	50	12.60	19.52	26.70				0.58	
15.viii	0	11.70	19.38	26.68				0.39	
	10	11.60	19.39	26.70				0.39	
	20	11.70	19.41	26.71				0.42	
	30	12.10	19.51	26.77				0.42	
	40	12.20	19.56	26.83				0.42	
	50	12.10	19.56	26.85				0.52	
31.x	0	12.40	19.57	26.80	6.02	98		0.55	
	10	12.40	19.57	26.80	6.02	98		1.26	
	20	12.40	19.62	26.87	5.95	97		0.42	
	30	12.10	19.66	26.99	5.89	96		0.55	
	40	12.20	19.62	26.91	5.95	97		0.39	
	50	12.10	19.66	26.99	5.89	96		0.42	

Station: PORT SORELL

Latitude: 40°51' S.

Longitude: 146°24' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1957 31.xii	0	16.00	19.52	25.97	5.81	102		0.39	
	10	15.20	19.50	26.12	5.86	101		0.24	
	20	14.70	19.51	26.24	5.81	99		0.42	
	30	14.40	19.56	26.38	5.81	99		0.61	
	40	14.00	19.56	26.47	5.70	96		0.45	
	50	14.00	19.56	26.47	5.67	95		0.55	

Station: CAPE SORELL

Latitude: 42°10' S.

Longitude: 145°10' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1957 25.iii	0	15.60	18.59	24.77				0.23	
	10	15.20	19.16	25.65	5.63	97		0.36	
	20	15.20	19.39	25.97	5.06	88		0.29	
	30	15.20	19.41	26.00	5.04	87		0.26	
	40	15.10	19.45	26.08	5.04	87		0.32	
	50	15.05	19.50	26.15	5.02	87		0.29	
27.v	0	13.50	15.40	20.58				0.45	
	10	14.05	18.99	25.66				0.32	
	20	14.25	19.42	26.21				0.32	
	30	14.30	19.46	26.26				0.35	
	40	14.60	19.51	26.26				0.29	
	50	14.50	19.51	26.28				0.32	
9.vii	0	11.75	15.02	20.39				0.77	
	10	12.85	19.12	26.09				0.48	
	20	13.10	19.36	26.38				0.42	
	30	13.10	19.43	26.49				0.42	
	40	13.80	19.54	26.51				0.42	
	50	13.85	19.54	26.50				0.42	
15.viii	0	12.80	18.82	25.68				0.45	
	10	13.20	19.53	26.58				0.36	
	20	13.20	19.57	26.64				0.36	
	30	13.20	19.57	26.64				0.36	
	40	13.25	19.57	26.63				0.36	
	50	13.25	19.57	26.63				0.42	
10.ix	0	13.30	19.30	26.25				0.23	
	10	13.10	19.42	26.45				0.23	
	20	13.00	19.50	26.59				0.23	
	30	12.50	19.51	26.70				0.26	
	40	13.00	19.55	26.65				0.36	

Station: CAPE SORELL

Latitude: 42°10' S.

Longitude: 145°10' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1957 18.xii	0	14.90	18.43	24.69				0.45	
	10	14.40	18.56	24.99				0.36	
	20	13.70	18.93	25.65				0.55	
	30	13.00	19.32	26.34				0.48	
	40	12.80	19.39	26.47				0.32	
	50	12.40	19.45	26.64				0.61	

Station: STANLEY

Latitude: 40°40' S.

Longitude: 145°27' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1957 16.i	0	15.30	19.48	26.07					0
	10	15.30	19.49	26.09				0.29	0
	20	15.10	19.54	26.20				0.45	0
	30	15.10	19.55	26.21				0.29	0
	40	15.10	19.54	26.20				0.26	0
	45	15.10	19.52	26.17				0.26	0
28.x	0	12.80	19.45	26.56	5.93	97		0.32	0
	10	12.80	19.45	26.56	5.95	98		0.35	0
	20	12.70	19.45	26.58	5.95	98		0.35	0
	30	12.60	19.45	26.60	6.02	98		0.29	0
	40	12.60	19.45	26.60	6.02	98		0.29	0
	23.xii	0	14.90	19.53	26.22	5.65	97		0.36
10		14.90	19.53	26.22	5.65	97		0.32	0
20		14.80	19.53	26.22	5.65	97		0.36	0
30		14.70	19.52	26.26	5.70	97		0.29	0
40		14.60	19.52	26.28	5.70	97		0.39	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
1957 9.i	0	13.80	19.35	26.21	5.82	97		0.36	
	10	13.75	19.36	26.24	5.82	97		0.55	
	20	13.60	19.37	26.28	5.92	98		0.48	
	30	13.50	19.39	26.33	5.90	98		0.58	
	40	13.50	19.39	26.33	5.92	98		0.77	
	50	13.40	19.38	26.34	5.82	97		0.58	
6.ii	0	15.20	19.43	26.03	5.88	101		0.48	
	10	15.05	19.42	26.04	5.88	101		0.52	
	20	14.70	19.41	26.11	5.83	99		0.42	
	30	14.70	19.42	26.12	5.83	99		0.36	
	40	14.40	19.42	26.18	5.81	98		0.77	
	50	14.40	19.42	26.18	5.77	97		0.48	
6.iii	0	15.70	19.48	25.98	5.83	101		0.42	
	10	15.60	19.48	26.00	5.89	102		0.39	
	20	15.40	19.47	26.04	5.83	101		0.32	
	30	15.20	19.47	26.08	5.72	99		0.42	
	40	15.15	19.45	26.07	5.72	98		0.36	
	50	15.10	19.45	26.08	5.70	98		0.39	
3.iv	0	16.45	19.59	25.96	5.43	95		0.36	
	10	16.45	19.59	25.96	5.43	95		0.36	
	20	16.30	19.59	26.00	5.43	95		0.39	
	30	16.00	19.55	26.01	5.43	94		0.36	
	40	15.75	19.53	26.03	5.37	93		0.42	
	50	15.75	19.52	26.03	5.31	92		0.42	
2.v	0	14.55	19.39	26.11	5.48	93		0.52	
	10	14.65	19.49	26.23	5.45	93		0.42	
	20	14.65	19.50	26.24	5.41	92		0.45	
	30	14.60	19.50	26.25	5.41	92		0.52	
	40	14.60	19.50	26.25	5.41	92		0.39	
	50	14.50	19.50	26.27	5.41	92		0.42	

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
1957 5.vi	0	13.10	19.44	26.48	5.77	95		0.39	
	10	13.10	19.44	26.48	5.77	95		0.42	
	20	13.10	19.44	26.48	5.77	95		0.42	
	30	13.10	19.44	26.48	5.77	95		0.42	
	40	13.15	19.44	26.47	5.77	95		0.29	
	50	13.15	19.44	26.47	5.77	95		0.32	
10.vii	0	12.40	19.41	26.58	5.86	96		0.45	
	10	12.50	19.44	26.60	5.83	95		0.42	
	20	12.50	19.44	26.60	5.89	96		0.42	
	30	12.45	19.44	26.61	5.89	96		0.42	
	40	12.40	19.44	26.62	5.89	96		0.42	
	50	12.40	19.44	26.62	5.89	96		0.45	
13.viii	0	11.90	19.43	26.71	6.00	97		0.45	
	10	12.00	19.43	26.69	6.02	97		0.45	
	20	12.00	19.44	26.70	6.00	97		0.45	
	30	12.00	19.46	26.72	6.02	97		0.45	
	40	12.00	19.46	26.72	6.00	97		0.39	
	50	12.00	19.46	26.72	6.07	98		0.39	
10.ix	0	12.20	19.38	26.58	6.22	101		0.32	
	10	12.10	19.45	26.70	6.22	101		0.35	
	20	12.05	19.47	26.73	6.17	100		0.38	
	30	12.05	19.47	26.73	6.13	100		0.35	
	40	12.05	19.47	26.73	6.13	100		0.38	
	50	12.05	19.47	26.73	6.13	100		0.38	
7.x	0	12.45	19.47	26.66	6.10	100		0.39	
	10	12.00	19.47	26.74	6.17	100		0.39	
	20	12.00	19.47	26.74	6.17	100		0.39	
	30	11.95	19.47	26.75	6.17	100		0.36	
	40	11.95	19.47	26.75	6.17	100		0.42	
	50	11.95	19.47	26.75	6.17	100		0.39	

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
1957 12.xi	0	12.90	19.40	26.46	6.20	102		0.35	
	10	12.80	19.40	26.48	6.24	103		0.35	
	20	12.80	19.40	26.48	6.27	103		0.35	
	30	12.75	19.40	26.49	6.24	103		0.39	
	40	12.40	19.40	26.56	6.04	98		0.39	
	50	12.20	19.40	26.60	5.98	97		0.39	
10.xii	0	13.90	19.36	26.21	6.04	101		0.32	
	10	13.90	19.36	26.21	6.07	102		0.32	
	20	13.80	19.36	26.23	6.13	103		0.32	
	30	12.90	19.36	26.42	5.95	98		0.35	
	40	12.80	19.36	26.44	5.90	97		0.39	
	50	12.80	19.36	26.44	5.90	97		0.39	

Station: ALBANY 50 METRE

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
1957 17.1	0	20.55	19.69	25.07	5.40	102		0.064- 0.097	0
	10	20.50	19.68	25.07	5.37	102		0.13- 0.032	0
	20	20.55	19.66	25.02	5.28	100		0- 0.19	0
	30	20.50	19.69	25.08	5.32	101		0- 0.16	0
	40	20.55	19.70	25.08	5.43	103		0- 0.19	0
	50	20.50	19.70	25.09	-	-		0- 0.26	0

Station: FREMANTLE - ROTTNEST ISLAND

Latitude:

Longitude:

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1957 4.1									
Stn. 2	0	21.5	19.70	24.82	5.00	96		0.064-	
	10	21.5	19.83	25.00	5.03	97		0.097	
Stn. 5	0	21.0	19.71	24.98	5.30	101		0.032-	
	20	20.9	19.69	24.97	5.38	102		0.064	
								0.13	
								0.097-	
								0.032	
10.1									
Stn. 2	0	22.05	19.75	24.73	5.07	99		0-	0
	10	21.65	19.79	24.90	5.26	101		0.19	
Stn. 5	0	21.45	19.74	24.89	5.43	104		0.032-	0
	20	21.45	19.77	24.93	5.46	105		0.16	
								0.064-	0
								0.19	
								0-	0
								0.26	
22.1									
Stn. 2	0	22.70	19.67	24.45	5.04	99		0-	0
	10	21.55	19.73	24.84	5.28	102		0.19	
Stn. 5	0	22.35	19.77	24.68	5.23	102		0-	0
	20	21.50	19.77	24.91	5.40	104		0.23	
								0.064-	0
								0.19	
								0-	0
								0.36	

Station: FREMANTLE - ROTTNEST ISLAND

Latitude:

Longitude:

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1957 5.11 Stn. 2	0	23.15	19.81	24.50	4.98	99		0.097-	0
	10	22.85	19.83	24.62	4.98	98		0.23	0
Stn. 5	0	22.60	19.83	24.69	5.44	107		0.032-	0
	20	22.60	19.87	24.75	5.27	103		0.29	0
								0.097-	0
								0.13	0
								0-	0
								0	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
1957 4.1	0	20.9	19.63	24.90	5.20	99		0.032- 0.19	0
	10	20.65	19.64	24.97	5.23	99		0.064- 0.16	0
	20	19.80	19.57	25.10	5.23	98		0.064- 0.26	0
	30	19.55	19.65	25.28	5.30	99		0.064- 0.26	0
	40	19.60	19.64	25.25	5.32	99		0.064- 0.26	0
	50	19.55	19.58	25.18	5.20	97		0.064- 0.23	0
10.1	0	21.30	19.73	24.91	5.04	97		0- 0.29	0
	10	20.70	19.71	25.06	5.32	101		0- 0.16	0
	20	20.30	19.62	25.03	5.23	99		0- 0.19	0
	30	19.10	19.76	25.55	5.07	94		0.032- 0.13	0
	40	18.80	19.72	25.57	4.97	92		0.097- 0.097	0
	50	18.55	19.74	25.66	5.04	92		0.032- 0.13	0
22.1	0	22.10	19.57	24.48	5.10	99		0- 0.16	0
	10	21.85	19.74	24.78	5.14	99		0- 0.19	0
	20	21.50	19.75	24.89	5.30	102		0- 0.16	0
	30	20.65	19.73	25.09	5.34	101		0- 0.16	0
	40	20.50	19.72	25.12	5.14	97		0- 0.13	0
	50	20.50	19.69	25.08	5.37	101		0- 0.19	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
1957 5.ii	0	22.65	19.84	24.69	4.98	98		0-	0
	10	22.45	19.79	24.68	5.33	104		0	0
	20	22.35	19.82	24.75	5.39	105		0.13	0
	30	22.25	19.80	24.75	5.22	102		0-	0
	40	22.45	19.82	24.73	5.18	101		0.19	0
	50	22.35	19.82	24.75	5.11	100		0	0
								0.032-	0.032

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
1957 23.i	0	21.10	19.64	24.85	5.65	108		0.58	
	10	20.50	19.64	25.01	5.82	110		0.81	
	20	20.10	19.64	25.11	5.76	108		1.06	
	30	17.40	19.64	25.80	5.70	102		0.87	
	40	16.20	19.60	26.03	4.35	76		1.42	
	50	16.00	19.62	26.10	4.23	74		2.00	
13.iii	0	21.80	19.32	24.22	5.33	102		1.55	
	10	21.50	19.40	24.41	5.33	102		1.36	
	20	21.40	19.50	24.58	5.33	102		1.78	
	30	20.00	19.55	25.02	4.99	93		1.36	
	40	18.30	19.61	25.54	4.69	85		1.13	
	50	17.90	19.60	25.63	4.51	82		1.61	
15.iv	0	21.50	19.58	24.66	5.04	97		0.42	
	10	21.40	19.58	24.69	5.02	96		0.45	
	20	21.30	19.58	24.72	5.08	97		0.52	
	30	21.20	19.57	24.73	5.02	96		0.55	
	40	21.20	19.57	24.73	5.11	97		0.48	
	50	21.10	19.58	24.77	5.02	96		0.45	
22.v	0	19.40	19.75	25.45	5.09	95		0.39	
	10	19.40	19.73	25.42	5.07	94		0.32	
	20	19.30	19.74	25.46	5.07	94		0.26	
	30	19.20	19.73	25.47	5.09	94		0.39	
	40	18.90	19.71	25.53	5.19	96		0.36	
	50	18.90	19.71	25.53	5.19	96		1.19	
28.vi	0	18.40	19.63	25.54	5.20	95		0.55	
	10	17.80	19.62	25.67	5.57	101		0.55	
	20	17.60	19.62	25.72	5.27	95		0.77	
	30	17.50	19.62	25.75	5.44	98		0.71	
	40	17.50	19.62	25.75	5.27	95		0.42	
	50	17.40	19.61	25.76	5.31	95		0.61	

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
1957 2.viii	0	17.40	19.67	25.84	5.21	93		0.48	
	10	17.40	19.67	25.84	5.33	96		0.48	
	20	17.30	19.67	25.87	5.25	94		0.90	
	30	17.50	19.68	25.83	5.33	96		0.48	
	40	17.30	19.68	25.88	5.33	95		0.45	
	50	17.20	19.68	25.90	5.25	94		0.55	
22.viii	0	17.90	19.68	25.73	4.86	88		0.65	
	10	17.90	19.67	25.72	4.93	89		0.55	
	20	17.40	19.67	25.84	4.89	88		0.48	
	30	17.20	19.68	25.90	5.23	93		0.45	
	40	16.90	19.67	25.96	5.45	97		0.48	
	50	16.90	19.67	25.96	5.45	97		0.65	
28.ix	0	18.40	19.65	25.57	5.66	103		0.52	
	10	18.30	19.65	25.60	5.64	103		0.36	
	20	18.30	19.65	25.60	5.60	102		0.36	
	30	18.30	19.64	25.58	5.47	100		0.26	
	40	18.10	19.65	25.65	5.34	97		0.36	
	50	17.90	19.63	25.67	4.93	89		0.39	
16.x	0	18.10	19.66	25.66	5.05	92		0.48	
	10	17.90	19.66	25.71	5.16	93		0.39	
	20	17.80	19.66	25.73	5.37	97		0.77	
	30	17.60	19.67	25.80	5.31	96		0.74	
	40	17.20	19.64	25.85	5.49	98		0.81	
	50	17.00	19.63	25.89	5.60	100		0.55	
13.xi	0	19.80	19.69	25.27	5.58	104		0.36	
	10	19.40	19.69	25.37	5.61	104		0.36	
	20	19.30	19.69	25.40	5.52	102		0.42	
	30	19.00	19.61	25.36	4.81	89		0.65	
	40	19.00	19.60	25.35	4.57	84		0.87	
	50	18.90	19.59	25.36	4.63	85		0.90	

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
1957 11.xii	0	20.60	19.69	25.06	5.47	103		0.36	
	10	20.10	19.69	25.19	5.40	101		0.36	
	20	19.40	19.69	25.37	5.37	100		0.52	
	30	18.90	19.67	25.47	5.04	93		0.48	
	40	18.30	19.67	25.62	5.11	93		0.42	
	50	18.30	19.66	25.61	4.93	90		0.42	

Station: COFF'S HARBOUR

Latitude: 30°17' S.

Longitude: 153°16' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1957 18.i	0	24.90	19.54	23.62	4.97	101		0.87	
	10	24.90	19.54	23.62	5.06	103		1.06	
	20	24.80	19.54	23.65	5.06	103		0.94	
	30	23.00	19.60	24.26	4.85	95		1.16	
	40	21.10	19.62	24.82	4.73	90		0.65	
	50	20.20	19.63	25.08	4.56	86		1.45	
21.ii	0	24.80	19.50	23.60	4.76	97		0.36	
	10	24.80	19.51	23.61	4.91	100		0.36	
	20	24.70	19.47	23.59	4.70	95		0.48	
	30	24.10	19.49	23.80	4.64	93		0.48	
	40	19.50	19.69	25.35	3.67	68		0.87	
	50	18.60	19.67	25.55	3.72	68		0.94	
14.iii	0	24.80	19.16	23.14	4.96	100		1.09	
	10	24.20	19.25	23.43	4.96	99		1.29	
	20	18.60	19.45	25.25	4.44	81		1.55	
	30	18.60	19.62	25.47	4.24	78		1.42	
	40	15.80	19.57	26.08	4.18	73		2.24	
	50	15.70	19.56	26.10	4.18	73		2.10	
9.iv	0	23.10	19.50	24.10	4.96	98		0.42	
	10	23.20	19.50	24.07	5.08	100		0.42	
	20	22.90	19.49	24.15	4.96	97		0.65	
	30	21.60	19.53	24.56	4.08	78		0.45	
	40	20.70	19.54	24.82	4.26	81		0.74	
	50	20.40	19.50	24.85	5.06	95		0.58	
17.v	0	23.30	19.67	24.27	4.77	94		0.39	
	10	22.40	19.67	24.53	5.09	99		0.52	
	20	22.20	19.67	24.58	4.95	96		0.26	
	30	22.20	19.67	24.58	4.93	96		0.23	
	40	22.10	19.66	24.60	4.99	97		0.19	
	50	21.20	19.63	24.81	4.99	95		0.26	

Station: COFF'S HARBOUR

Latitude: 30°17' S.

Longitude: 153°16' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1957 25.vi	0	21.70	19.58	24.61	4.94	95		1.52	
	10	21.70	19.58	24.61	4.99	96		-	
	20	21.40	19.58	24.69	5.02	96		0.42	
	30	21.10	19.59	24.78	4.94	94		0.65	
	40	21.00	19.59	24.81	4.99	95		0.65	
	50	18.50	19.59	25.47	5.15	94		0.42	
30.vii	0	19.70	19.67	25.27	5.37	100		0.32	
	10	19.60	19.67	25.29	5.34	99		0.29	
	20	19.60	19.67	25.29	5.27	98		0.35	
	30	19.50	19.69	25.35	5.12	95		0.42	
	40	18.90	19.70	25.51	4.62	85		0.35	
	50	18.80	19.70	25.54	4.58	84		0.45	
26.viii	0	19.40	19.68	25.35	5.40	100		0.48	
	10	19.40	19.68	25.35	5.40	100		0.42	
	20	19.30	19.68	25.38	5.15	96		0.42	
	30	19.00	19.68	25.46	5.05	93		0.46	
	40	18.50	19.68	25.58	5.22	96		0.51	
	50	18.40	19.68	25.61	5.27	96		0.61	
25.ix	0	18.90	19.65	25.45	5.34	98		0.36	
	10	18.80	19.65	25.47	5.24	96		0.39	
	20	18.80	19.64	25.45	4.99	92		0.52	
	30	18.60	19.64	25.50	4.65	85		0.49	
	40	18.60	19.63	25.49	4.74	87		0.55	
	50	18.50	19.63	25.52	4.88	89		0.55	
22.x	0	19.70	19.66	25.25	5.37	100		0.74	
	10	18.30	19.66	25.61	5.29	97		0.26	
	20	18.00	19.66	25.68	4.80	89		0.77	
	30	16.50	19.65	26.03	4.68	83		0.65	
	40	17.70	19.64	25.73	4.60	83		0.61	
	50	17.20	19.63	25.84	4.57	82		0.77	

Station: COFF'S HARBOUR.

Latitude: 30°17' S.

Longitude: 153°16' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1957 19.xi	0	18.70	19.60	25.43	5.27	97		0.77	
	10	17.40	19.60	25.75	4.75	85		0.87	
	20	17.00	19.58	25.82	4.29	76		0.77	
	30	16.20	19.59	26.02	4.36	76		0.84	
	40	15.60	19.59	26.16	4.68	81		0.90	
	50	15.60	19.59	26.16	4.20	73		0.90	
	18.xii	0	25.40	19.62	23.57	4.79	98		0.29
10		25.30	19.62	23.60	4.82	99		0.29	
20		23.90	19.65	24.07	5.11	102		0.42	
30		22.60	19.66	24.46	4.70	92		0.71	
40		21.50	19.66	24.77	3.87	74		0.74	
50		19.80	19.66	25.22	3.77	70		0.71	

Station: EVANS HEAD

Latitude: 29°07' S.

Longitude: 153°38' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1957 19.i	0	23.80	19.43	23.80	5.24	104		1.00	
	10	23.70	19.54	23.98	5.17	103		1.00	
	20	23.70	19.54	23.98	5.12	102		0.81	
	30	23.50	19.53	24.02	5.32	106		1.00	
	40	23.00	19.53	24.16	4.97	98		1.06	
	50	22.90	19.54	24.21	4.97	98		2.33	
15.iii	0	25.10	19.42	23.39	4.84	99		1.26	
	10	25.00	19.42	23.42	4.93	100		1.42	
	20	24.70	19.42	23.51	4.87	98		1.29	
	30	19.20	19.58	25.28	4.15	77		2.20	
	40	17.20	19.56	25.75	3.81	68		2.30	
	50	17.10	19.57	25.78	3.77	67		2.10	
8.iv	0	24.10	19.45	23.74	4.85	97		0.45	
	10	24.00	19.45	23.77	4.88	97		0.55	
	20	23.60	19.49	23.94	4.99	99		0.52	
	30	22.40	19.51	24.31	5.02	98		0.45	
	40	19.50	19.58	25.20	3.85	72		0.97	
	50	19.40	19.57	25.21	3.93	73		0.81	
18.v	0	22.50	19.64	24.46	5.02	98		0.26	
	10	22.40	19.65	24.50	4.99	97		0.26	
	20	22.30	19.65	24.53	4.99	97		0.19	
	30	22.20	19.65	24.56	4.90	95		0.36	
	40	22.00	19.65	24.62	4.77	92		0.36	
	50	22.10	19.64	24.57	4.77	92		0.36	
24.vi	0	21.20	19.63	24.81	5.34	102		0.45	
	10	20.90	19.61	24.86	5.37	102		0.36	
	20	20.80	19.61	24.89	5.09	96		0.39	
	30	20.80	19.61	24.89	5.15	98		0.32	
	40	20.60	19.62	24.95	5.02	95		0.42	
	50	20.50	19.62	24.98	5.04	95		0.42	

Station: EVANS HEAD

Latitude: 29°07' S.

Longitude: 150°38' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1957 30.vii	0	19.40	19.67	25.34	5.25	98		0.36	
	10	19.40	19.68	25.35	5.33	99		0.36	
	20	19.40	19.68	25.35	5.25	98		0.42	
	30	19.30	19.68	25.38	5.18	96		0.39	
	40	19.30	19.69	25.40	5.02	93		0.32	
	50	19.30	19.69	25.40	5.02	93		0.32	
25.viii	0	18.50	19.65	25.55	5.05	92		0.55	
	10	18.40	19.65	25.75	4.87	89		0.65	
	20	18.20	19.63	25.59	4.64	85		0.52	
	30	17.90	19.63	25.67	4.37	79		0.72	
	40	17.80	19.62	25.67	4.37	79		0.65	
	50	17.80	19.62	25.67	4.37	79		0.68	
24.ix	0	19.40	19.64	25.30	5.08	94		0.36	
	10	19.00	19.64	25.40	4.80	89		0.42	
	20	18.90	19.64	25.43	4.47	82		0.55	
	30	18.70	19.65	25.50	4.43	81		0.42	
	40	18.70	19.66	25.51	4.56	84		0.52	
	50	18.70	19.66	25.51	4.59	84		0.42	
20.x	0	19.70	19.66	25.25	5.33	99		0.71	
	10	19.60	19.67	25.29	5.44	101		0.48	
	20	19.40	19.67	25.34	5.29	98		0.55	
	30	18.90	19.67	25.47	4.02	74		0.77	
	40	18.60	19.66	25.53	3.72	68		0.77	
	50	18.60	19.66	25.53	3.72	68		0.81	
18.xi	0	19.20	19.65	25.37	4.72	87		0.81	
	10	18.70	19.65	25.50	4.36	80		0.74	
	20	18.40	19.58	25.48	4.03	74		0.87	
	30	18.40	19.59	25.49	4.03	74		0.94	
	40	18.40	19.56	25.45	4.00	73		0.84	
	50	18.20	19.56	25.50	4.23	77		0.77	

Station: EVANS HEAD

Latitude: 29°07' S.

Longitude: 150°38' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1957 16.xii	0	25.50	19.62	23.54	4.82	99		0.42	
	10	23.60	19.65	24.16	4.76	95		0.45	
	20	22.40	19.67	24.53	4.55	89		0.61	
	30	21.30	19.67	24.84	4.63	89		0.52	
	40	20.40	19.66	25.07	4.25	80		0.71	
	50	20.10	19.66	25.14	3.93	74		0.65	

Station: PORT MACQUARIE

Latitude: 31°30' S.

Longitude: 153°10' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1957 21.i	0	23.40	19.61	24.16	5.02	99		0.71	
	10	21.50	19.61	24.70	5.06	97		0.81	
	20	21.20	19.62	24.79	4.90	94		0.58	
	30	19.80	19.63	25.18	4.97	93		0.87	
	40	19.60	19.63	25.24	4.97	93		1.03	
	50	18.50	19.64	25.53	4.79	88		1.23	
17.iii	0	23.50	19.58	24.10	4.90	97		1.55	
	10	23.50	19.58	24.10	4.90	97		1.36	
	20	23.40	19.58	24.13	5.20	103		1.13	
	30	22.90	19.52	24.19	4.95	97		1.36	
	40	22.80	19.50	24.18	4.98	98		1.42	
	50	22.70	19.51	24.22	4.98	97		1.26	
11.iv	0	18.20	19.55	25.48	4.62	84		0.55	
	10	17.80	19.55	25.58	4.47	81		0.74	
	20	17.30	19.56	25.72	4.35	78		0.74	
	30	17.30	19.56	25.72	4.44	79		0.65	
	40	17.20	19.56	25.75	4.44	79		0.84	
	50	17.20	19.57	25.76	4.44	79		0.61	
20.v	0	22.90	19.69	24.42	4.81	94		0.23	
	10	22.80	19.70	24.45	4.84	95		0.87	
	20	22.60	19.70	24.51	4.84	95		0.19	
	30	20.30	19.65	25.08	4.95	93		0.39	
	40	20.20	19.64	25.09	4.99	94		0.32	
	50	20.30	19.64	25.06	4.99	94		0.32	
27.vi	0	21.00	19.59	24.81	4.18	79		0.97	
	10	19.20	19.60	25.30	4.13	76		1.32	
	20	18.90	19.57	25.33	4.18	77		1.00	
	30	17.70	19.54	25.59	4.47	80		0.65	
	40	17.30	19.54	25.69	4.82	86		0.42	
	50	17.20	19.54	25.72	4.99	89		0.45	

Station: PORT MACQUARIE

Latitude: 31°30' S.

Longitude: 153°10' E.

Date	Depth (m)	Temp. °C	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1957 1.viii	0	18.10	19.70	25.71	5.10	93		0.36	
	10	18.00	19.70	25.74	5.10	93		0.45	
	20	18.00	19.70	25.74	5.10	93		0.48	
	30	17.90	19.70	25.76	5.10	92		0.48	
	40	17.90	19.70	25.76	5.14	93		0.65	
	50	17.80	19.69	25.78	5.08	92		0.42	
26.ix	0	19.70	19.68	25.28	5.62	105		0.52	
	10	19.10	19.67	25.42	5.52	102		0.45	
	20	18.70	19.65	25.50	4.86	89		0.45	
	30	18.60	19.65	25.52	4.96	91		0.39	
	40	18.10	19.64	25.63	4.83	88		0.52	
	50	17.90	19.63	25.67	4.80	87		0.45	
24.x	0	18.90	19.68	25.48				0.48	
	10	18.30	19.67	25.62				0.45	
	20	18.10	19.68	25.68				0.45	
	30	18.10	19.68	25.68				0.58	
	40	18.00	19.67	25.70				0.58	
	50	17.90	19.67	25.72				0.58	
16.xi	0	19.20	19.65	25.37	4.95	92		0.58	
	10	18.90	19.66	25.47	4.98	92		0.58	
	20	17.60	19.66	25.78	4.68	84		0.77	
	30	16.70	19.63	25.96	4.29	76		0.81	
	40	15.70	19.60	26.15	4.17	73		0.74	
	50	14.70	19.66	26.45	4.99	85		0.65	
19.xii	0	21.80	19.65	24.67	5.27	102		0.48	
	10	21.30	19.65	24.81	5.20	99		0.55	
	20	21.10	19.64	24.85	4.88	90		0.61	
	30	20.60	19.62	24.95	3.99	75		1.03	
	40	20.70	19.62	24.92	3.93	74		0.87	
	50	20.50	19.62	24.98	3.96	75		0.84	

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
1957									
9.i	0	19.40	19.64	25.30	5.60	104		1.58	
	10	18.80	19.62	25.42	5.60	103		1.58	
	20	18.20	19.58	25.53	5.60	102		1.28	
	30	18.00	19.58	25.58	5.50	100		1.52	
	40	17.80	19.58	25.63	5.38	97		1.36	
	50	17.60	19.58	25.68	5.38	97		1.42	
4.ii	0	19.60	19.62	25.22	5.40	101		0.44	
	10	19.40	19.62	25.27	5.40	100		0.65	
	20	18.70	19.60	25.43	5.37	99		0.36	
	30	17.80	19.58	25.63	4.96	90		0.42	
	40	15.90	19.55	26.03	4.51	79		0.58	
	50	15.50	19.52	26.08	4.51	78		0.42	
2.iii	0	20.75	19.60	24.89	5.20	98		0.55	
	10	20.60	19.60	24.93	5.30	100		0.45	
	20	18.60	19.56	25.40	4.95	91		0.81	
	30	15.18	19.51	26.14	4.55	78		1.13	
	40	14.80	19.50	26.21	4.39	75		1.23	
	50	14.70	19.51	26.24	4.52	77		1.13	
4.iv	0	21.70	19.61	24.64	5.18	100		0.45	
	10	21.55	19.60	24.67	5.42	104		0.45	
	20	21.20	19.63	24.81	5.22	100		0.39	
	30	20.90	19.62	24.87	5.29	100		0.36	
	40	20.70	19.64	24.95	5.42	102		0.42	
	50	20.50	19.61	24.97	5.71	108		0.32	
7.vii	0	15.65	19.71	26.32	5.65	98		0.32	
	10	15.78	19.71	26.29	5.47	95		0.42	
	20	15.75	19.71	26.29	5.65	98		0.65	
	30	15.80	19.72	26.29	5.60	97		0.23	
	40	15.60	19.71	26.33	5.82	101		0.29	
	50	15.60	19.70	26.31	5.55	96		0.36	

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
1957 6.viii	0	16.20	19.71	26.19	5.60	98		0.42	
	10	16.10	19.70	26.19	5.55	97		0.45	
	20	16.10	19.70	26.19	5.60	98		0.42	
	30	16.00	19.69	26.21	5.65	99		0.45	
	40	16.00	19.69	26.21	5.65	99		0.48	
	50	16.00	19.71	26.24	5.60	98		0.45	
16.ix	0	15.20	19.62	26.28	5.54	96		0.48	
	10	15.20	19.60	26.26	5.57	96		0.48	
	20	15.00	19.60	26.30	5.52	95		0.52	
	30	14.90	19.60	26.33	5.52	95		0.52	
	40	14.60	19.57	26.35	5.37	91		0.55	
	50	14.20	19.55	26.40	5.14	87		0.52	
12.x	0	15.50	19.60	26.19	5.22	90		0.42	
	10	15.30	19.60	26.24	5.10	88		0.42	
	20	15.10	19.59	26.27	5.29	91		0.52	
	30	15.10	19.59	26.27	5.50	95		0.52	
	40	14.90	19.58	26.30	5.60	96		0.58	
	50	14.70	19.59	26.36	5.76	98		0.61	
8.xi	0	16.80	19.59	25.88	4.96	88		0.42	
	10	16.70	19.58	25.89	5.12	91		0.39	
	20	16.30	19.57	25.97	4.99	88		0.65	
	30	16.20	19.53	25.93	5.60	98		0.77	
	40	16.00	19.53	25.98	6.25	109		0.74	
	50	14.30	19.54	26.37	6.09	103		0.90	
3.xii	0	18.50	19.70	25.61	5.21	95		0.65	
	10	18.40	19.70	25.64	5.37	98		0.65	
	20	18.10	19.69	25.70	5.37	98		0.61	
	30	17.80	19.68	25.76	5.04	91		0.45	
	40	15.80	19.61	26.14	4.49	78		0.42	
	50	15.60	19.60	26.17	4.47	78		0.52	

OCEANOGRAPHICAL STATION LISTS

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

OCEANOGRAPHICAL STATION LISTS

(Continued)

27. Onshore and oceanic hydrological investigations in eastern and south-western Australia, 1955
28. Surface sampling in the Tasman and Coral Seas, 1955
29. Estuarine hydrological investigations in eastern and south-western Australia, 1955
30. Onshore and oceanic hydrological investigations in eastern and south-western Australia, 1956
31. Surface sampling in the Tasman and Coral Seas and the south-eastern Indian Ocean, 1956
32. Estuarine hydrological investigations in eastern and south-western Australia, 1956
33. Coastal hydrological investigations in eastern and south-western Australia, 1957