

OCEANOGRAPHICAL STATION LIST

Volume 40

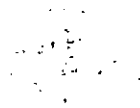
Coastal Hydrological Investigations
in South-eastern Australia, 1958

Compiled by A. D. Crooks



Division of Fisheries and Oceanography
Commonwealth Scientific and Industrial
Research Organization, Australia
Melbourne 1960

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COASTAL HYDROLOGICAL INVESTIGATIONS IN SOUTH-EASTERN AUSTRALIA, 1958

Compiled by A. D. Crooks

I. INTRODUCTION

The general programme of coastal sampling remained the same as in previous years. This year the results have again been divided into three volumes; this volume contains data from all stations except Port Hacking, Eden, and Bermagui.

II. METHODS AND UNITS

The methods and units have been given in a previous volume (C.S.I.R.O. Aust. 1959). The phosphate given is total phosphorus in $\mu\text{g-atom/l}$.

III. PERSONNEL

The sampling has been the responsibility of Messrs. F. Davies, R. Bradley, W. Prothero, and C. Walker at Cronulla, and Mr. O. Mieзитis at Hobart. The laboratory analyses have been carried out by Messrs. C. Walker, F. Davies, J. Dal Pont, and W. Prothero at Cronulla, and by Mr. O. Mieзитis at Hobart. Mrs. E. Wood and Misses F. Luce and R. Weidenhofer have been responsible for the processing of the data under the direction of Mr. A. D. Crooks. The typed sheets for printing were prepared by Mrs. R. Birks and Mrs. D. Schmitzer.

IV. REFERENCES

C.S.I.R.O. AUSTR. (1959).—Coastal hydrological investigations in the New South Wales tuna fishing area, 1958. *C.S.I.R.O. Aust. Oceanogr. Sta. List* **38**: 1-96.

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
1958 17.1	0	24.60	19.66	23.87	4.76	103		0.42	
	10	24.40	19.66	23.93	4.73	102		0.39	
	20	23.40	19.60	24.17	3.87	82		0.81	
	30	18.80	19.60	25.40	3.87	75		0.77	
	40	18.80	19.61	25.41	3.80	74		0.81	
	50	18.80	19.60	25.40	3.82	74		1.68	
26.11	0	25.00	19.62	23.69	4.85	99		0.52	
	10	24.80	19.62	23.75	4.87	99		0.52	
	20	24.70	19.62	23.78	4.82	98		0.74	
	30	24.05	19.61	23.97	4.64	93		0.77	
	40	24.00	19.62	23.99	4.44	89		0.68	
	50	23.80	19.63	24.07	4.42	88		0.87	
30.111	0	24.06	19.58	23.93	4.49	90		0.48	
	10	24.05	19.57	23.91	4.41	88		0.39	
	20	24.05	19.58	23.93	4.41	88		0.45	
	30	23.09	19.58	24.21	4.17	82		0.52	
	40	22.02	19.60	24.54	3.78	73		0.71	
	50	21.07	19.60	24.53	3.63	69		0.81	
20.1v	0	23.30	19.46	23.98	4.73	93		0.48	
	10	23.80	19.46	23.83	4.79	95		0.42	
	20	23.80	19.46	23.83	4.82	96		0.45	
	30	23.70	19.46	23.86	4.70	93		0.42	
	40	23.70	19.49	23.91	4.64	92		0.55	
	50	23.70	19.46	23.86	4.88	97		0.55	
24.v	0	21.50	19.67	24.78	5.57	114		0.32	
	10	21.40	19.67	24.81	5.73	117		0.29	
	20	21.40	19.67	24.81	6.03	123		0.32	
	30	20.90	19.68	24.95	6.06	123		0.48	
	40	20.00	19.70	25.23	4.83	97		0.45	
	50	19.80	19.70	25.28	4.83	96		0.61	

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
1958 17.vi	0	21.00 ^{cl}	19.62	24.86	5.06	103		0.35	
	10	21.00	19.64	24.90	5.04	102		0.40	
	20	20.90	19.66	24.94	5.04	102		0.35	
	30	20.70	19.66	25.00	5.06	102		0.46	
	40	20.60	19.66	25.02	5.06	102		0.46	
	50	20.60	19.66	25.02	5.15	104		0.90	
15.vii	0	20.80	19.64	24.94	5.08	103		0.44	
	10	20.70	19.64	24.97	5.04	102		0.45	
	20	20.70	19.64	24.97	5.00	101		0.45	
	30	20.70	19.64	24.97	5.02	101		0.41	
	40	20.70	19.63	24.96	5.04	102		0.53	
	50	20.70	19.63	24.96	5.02	101		0.53	
24.viii	0	20.80	19.69	25.02	5.30	107		0.42	
	10	20.60	19.69	25.06	5.27	106		0.42	
	20	19.10	19.66	25.41	4.80	94		0.58	
	30	19.00	19.66	25.44	4.68	92		0.51	
	40	18.95	19.65	25.44	4.71	92		1.10	
	50	18.90	19.65	25.45	4.74	93		0.64	
26.ix	0	19.45	19.70	25.38	5.18	103		0.38	
	10	19.45	19.72	25.41	5.11	101		0.40	
	20	19.45	19.72	25.41	5.09	101		0.48	
	30	19.40	19.72	25.42	5.04	100		0.52	
	40	19.40	19.72	25.42	5.15	102		0.44	
	50	19.40	19.73	25.43	5.04	100		0.49	
19.x	0	20.55	19.71	25.10	4.75	96		0.59	
	10	20.40	19.71	25.14	4.75	96		0.56	
	20	20.10	19.70	25.21	4.78	96		0.56	
	30	19.85	19.68	25.25	4.83	96		0.56	
	40	19.75	19.67	25.27	4.93	98		0.63	
	50	19.70	19.67	25.28	4.90	97			

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
1958 24.xi	0	20.65	19.67	25.02	4.36	88		0.63	
	10	19.50	19.67	25.34	4.00	79		0.66	
	20	19.35	19.66	25.36	4.03	80		0.90	
	30	19.25	19.66	25.38	3.92	77		0.76	
	40	19.15	19.66	25.40	3.92	77		0.77	
	50	19.15	19.66	25.40	3.94	78			
18.xii	0	22.85	19.74	24.51	5.01	105		0.44	
	10	22.85	19.75	24.51	4.84	101		0.50	
	20	22.85	19.75	24.51	4.78	100		0.53	
	30	22.75	19.76	24.54	4.84	101		0.51	
	40	19.80	19.69	25.29	3.81	76		0.64	
	50	19.65	19.69	25.31	3.79	75		0.76	

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
1958 17.i	0	23.70	19.61	24.07	4.98	106		0.55	
	10	23.50	19.62	24.14	5.34	113		0.55	
	20	23.00	19.63	24.30	4.87	102		0.42	
	30	21.70	19.62	24.65	4.37	90		0.58	
	40	19.90	19.60	25.12	3.74	75		0.81	
	50	19.80	19.60	25.14	4.98	99		0.71	
23.ii	0	24.80	19.64	23.78	4.67	95		0.45	
	10	25.00	19.64	23.72	4.82	98		0.68	
	20	25.00	19.64	23.72	4.58	93		0.48	
	30	24.70	19.64	23.81	4.67	95		0.52	
	40	24.50	19.64	23.87	4.46	90		0.52	
	50	22.00	19.64	24.60	3.75	73		0.77	
26.iii	0	26.10	19.58	23.31	4.62	96		0.32	
	10	26.00	19.58	23.34	4.46	92		0.32	
	20	26.00	19.58	23.34	4.49	93		0.32	
	30	25.80	19.58	23.40	4.43	92		0.35	
	40	25.70	19.57	23.41	4.43	91		0.32	
	50	25.70	19.58	23.43	4.46	92		0.32	
22.iv	0	23.90	19.54	23.92	4.88	97		0.29	
	10	23.80	19.57	23.99	4.97	99		0.23	
	20	23.80	19.57	23.99	4.91	98		0.39	
	30	23.70	19.58	24.04	4.88	97		0.32	
	40	23.20	19.56	24.15	4.91	97		0.48	
	50	23.00	19.55	24.19	4.76	94		0.42	
21.v	0	22.20	19.67	24.58	5.14	107		0.29	
	10	21.90	19.68	24.68	5.20	107		0.32	
	20	21.50	19.70	24.92	5.29	108		0.39	
	30	21.30	19.70	24.88	5.09	104		0.42	
	40	21.10	19.70	24.93	5.25	107		0.32	
	50	20.80	19.70	25.11	5.17	105		0.32	

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
1958 17.vii	0	19.60	19.59	25.20	5.02	100		0.42	
	10	19.60	19.59	25.20	5.06	100		0.42	
	20	19.20	19.62	25.34	5.04	99		0.44	
	30	19.10	19.63	25.37	5.15	101		0.41	
	40	19.00	19.65	25.42	5.12	101		0.35	
	50	19.00	19.65	25.42	5.15	101		0.43	
26.viii	0	19.60	19.70	25.36	5.30	105		0.56	
	10	19.60	19.70	25.36	5.27	105		0.41	
	20	19.60	19.71	25.37	5.35	106		0.41	
	30	19.00	19.71	25.51	5.22	103		0.39	
	40	18.90	19.69	25.52	4.63	91		0.53	
	50	18.00	19.66	25.68	4.25	82		0.66	
24.ix	0	20.60	19.72	25.11	5.15	104		0.32	
	10	20.60	19.72	25.11	5.27	106		0.32	
	20	20.60	19.72	25.11	5.24	105		0.32	
	30	20.45	19.72	25.14	5.02	101		0.37	
	40	20.45	19.72	25.14	5.09	102		0.29	
	50	20.40	19.72	25.15	5.15	104		0.40	
17.x	0	20.00	19.71	25.25	5.18	104		0.42	
	10	20.00	19.71	25.25	5.23	105		0.42	
	20	19.95	19.72	25.29	5.18	104		0.42	
	30	19.80	19.72	25.33	5.02	100		0.52	
	40	18.75	19.68	25.53	4.57	89		0.73	
	50	17.85	19.65	25.71	4.14	80		0.66	
21.xi	0	22.25	19.73	24.66	4.95	103		0.38	
	10	22.20	19.73	24.67	4.95	103		0.38	
	20	20.70	19.69	25.04	4.84	98		0.50	
	30	19.25	19.66	25.37	4.46	88		0.57	
	40	18.95	19.65	25.44	4.38	86		0.54	
	50	18.90	19.65	25.45	4.33	85		0.63	

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
1958 13.xii	0	23.70	19.78	24.30	4.93	105		0.42	
	10	23.00	19.76	24.49	4.93	104		0.47	
	20	22.00	19.74	24.76	4.65	96		0.66	
	30	21.15	19.73	24.96	4.07	83		0.66	
	40	20.85	19.72	25.04	3.98	100		0.58	
	50	20.40	19.71	25.14	3.78	76		0.58	

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
1958 20.i	0	22.40	19.63	24.47	4.78	99		0.52	
	10	21.40	19.62	24.73	4.52	92		0.55	
	20	21.20	19.56	24.72	4.00	81		0.81	
	30	21.00	19.60	24.82	4.52	92		0.61	
	40	20.70	19.62	24.92	4.76	96		0.52	
	50	15.50	19.57	26.15	4.00	73		0.77	
21.ii	0	25.50	19.62	23.54	4.82	99		0.42	
	10	25.50	19.62	23.54	4.70	97		0.39	
	20	24.20	19.62	23.93	4.52	91		0.52	
	30	21.70	19.60	24.63	4.29	83		0.65	
	40	16.80	19.55	25.82	4.00	71		0.94	
	50	16.00	19.54	26.00	3.88	68			
3.iv	0	23.80	19.51	23.90	4.55	91		0.48	
	10	23.20	19.54	24.12	4.49	89		0.52	
	20	22.30	19.56	24.41	4.37	85		0.68	
	30	20.30	19.59	25.00	3.92	74		0.90	
	40	19.90	19.59	25.11	3.75	70		0.77	
	50	19.80	19.59	25.13	3.73	69		0.77	
28.v	0	20.10	19.65	25.14	4.99	100		0.35	
	10	20.00	19.65	25.16	4.99	100		0.42	
	20	19.80	19.66	25.22	4.94	98		0.45	
	30	19.50	19.67	25.32	4.65	92		0.45	
	40	19.30	19.68	25.38	4.45	88		0.48	
	50	19.10	19.68	25.43	4.27	84		0.61	
22.vii	0	18.90	19.67	25.47	5.17	101		0.49	
	10	18.90	19.66	25.46	5.12	100		0.66	
	20	18.80	19.66	25.48	5.08	99		0.44	
	30	18.70	19.65	25.50	5.06	99		0.43	
	40	18.70	19.65	25.50	5.06	99		0.44	
	50	18.70	19.65	25.50	5.04	98		0.53	

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
1958 21.viii	0	18.70	19.67	25.53	4.83	94		0.56	
	10	18.60	19.68	25.57	4.68	91		0.64	
	20	18.60	19.69	25.58	4.63	90		0.56	
	30	18.60	19.70	25.60	4.59	90		0.64	
	40	18.50	19.71	25.63	4.68	91		0.54	
	50	18.40	19.71	25.65	4.28	83		0.55	
30.ix	0	20.30	19.74	25.22	5.34	107		0.35	
	10	20.25	19.74	25.23	5.44	109		0.38	
	20	20.25	19.74	25.23	5.34	107		0.39	
	30	20.25	19.74	25.23	5.31	107		0.38	
	40	20.00	19.73	25.29	5.27	105		0.39	
	50	19.80	19.73	25.34	5.31	106		0.41	
21.x	0	21.20	19.73	24.96	5.23	107		0.38	
	10	21.20	19.73	24.96	5.18	106		0.58	
	20	20.85	19.72	25.04	5.30	108		0.39	
	30	20.20	19.70	25.18	5.04	101		0.45	
	40	19.95	19.68	25.22	4.78	95		0.51	
	50	19.45	19.67	25.34	4.60	91		0.55	
20.xi	0	20.35	19.67	25.10	5.16	103		0.66	
	10	19.75	19.66	25.16	4.95	99		0.65	
	20	17.35	19.61	25.77	3.86	74		0.77	
	30	16.90	19.60	25.88	3.66	69		0.88	
	40	16.90	19.60	25.88	3.68	69		1.10	
	50	16.90	19.58	25.86	3.63	68		0.89	
12.xii	0	22.75	19.76	24.56	4.38	92		0.56	
	10	22.35	19.75	24.67	4.38	91		0.57	
	20	21.05	19.72	24.99	3.95	80		0.54	
	30	20.20	19.71	25.19	3.84	77		0.57	
	40	19.75	19.70	25.31	3.81	76		0.54	
	50	19.40	19.69	25.38	3.95	78		0.57	

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
1958 21.i	0	21.60	19.66	24.74	5.07	104		0.32	
	10	20.90	19.66	24.93	5.09	103		0.35	
	20	20.20	19.66	25.12	5.09	102		0.45	
	30	19.60	19.66	25.28	5.02	100		0.45	
	40	18.50	19.64	25.53	4.60	89		0.61	
	50	17.20	19.62	25.82	4.41	84		0.71	
20.ii	0	24.50	19.57	23.78	4.64	94		0.48	
	10	22.70	19.58	24.33	4.87	96		0.48	
	20	21.20	19.59	24.76	4.64	85		0.87	
	30	18.20	19.60	25.55	4.16	76		1.06	
	40	17.10	19.58	25.80	5.01	89		1.06	
	50	16.20	19.58	26.01	4.93	86		0.97	
4.iv	0	22.40	19.59	24.42	4.98	97		0.45	
	10	22.40	19.58	24.41	5.15	100		0.48	
	20	22.40	19.59	24.42	5.32	104		0.52	
	30	22.20	19.59	24.48	5.32	103		0.52	
	40	22.20	19.59	24.48	5.32	103		0.39	
	50	21.80	19.59	24.59	5.08	98		0.48	
24.iv	0	22.40	19.56	24.38	4.97	97			
	10	22.20	19.58	24.47	5.02	97		0.39	
	20	21.50	19.60	24.69	4.61	88		0.52	
	30	21.30	19.61	24.75	4.58	88		0.58	
	40	20.60	19.63	24.97	4.47	84		0.52	
	50	20.60	19.65	25.00	4.09	77		0.61	
29.v	0	19.90	19.70	25.25	5.14	103		0.39	
	10	19.90	19.70	25.25	5.10	102		0.32	
	20	19.80	19.70	25.28	5.09	101		0.35	
	30	19.80	19.70	25.28	5.10	102		0.32	
	40	19.70	19.70	25.31	5.10	101		0.39	
	50	19.00	19.70	25.49					

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
1958 10.vii	0	18.40	19.66	25.58	5.34	104		0.39	
	10	18.40	19.66	25.58	4.98	97		0.44	
	20	18.40	19.66	25.58	5.32	103		0.44	
	30	18.30	19.66	25.61	5.28	102		0.42	
	40	18.30	19.66	25.61	5.34	103		0.36	
	50	18.10	19.66	25.66	5.28	102		0.40	
19.viii	0	17.04	19.61	25.85				0.84	
	10	17.02	19.61	25.85	5.06	96		0.63	
	20	17.00	19.61	25.86	5.25	99		0.62	
	30	16.90	19.61	25.89	5.13	97		0.55	
	40	16.90	19.61	25.89	4.49	85		0.65	
	50	16.90	19.61	25.89	4.92	93		0.54	
1.x	0	18.50	19.68	25.59	5.85	114		0.47	
	10	18.50	19.68	25.59	5.80	113		0.48	
	20	18.50	19.68	25.59	5.76	112		0.50	
	30	18.50	19.68	25.59	5.73	112		0.49	
	40	18.40	19.67	25.60	5.53	108		0.39	
	50	18.35	19.67	25.62	4.96	96		0.49	
15.x	0	21.15	19.72	24.96	5.20	106		0.37	
	10	20.75	19.71	25.06	5.23	106		0.42	
	20	20.25	19.71	25.19	5.23	105		0.44	
	30	18.65	19.67	25.54	5.30	104		0.47	
	40	18.40	19.66	25.59	5.18	101		0.58	
	50	17.80	19.64	25.71	4.90	94		0.65	
19.xi	0	20.50	19.70	25.22	5.33	107		0.36	
	10	20.15	19.69	25.23	5.39	108		0.36	
	20	19.85	19.68	25.25	5.42	108		0.32	
	30	19.25	19.65	25.36	5.30	105		0.49	
	40	18.35	19.63	25.54	4.81	93		0.56	
	50	16.10	19.68	26.19	5.89	109		0.43	

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
1958									
10.xii	0	19.45	19.54	25.14	5.49	108		0.71	
	10	19.25	19.56	25.24	5.36	106		0.59	
	20	17.35	19.61	25.77	3.83	73		0.87	
	30	15.80	19.55	26.05	3.83	71		0.94	
	40	15.00	19.52	26.19	3.50	63		1.17	
	50	15.00	19.51	26.17	3.58	65		1.07	

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
1958 13.1x	0	16.65	19.69	26.06	5.20	98		0.49	
	10	16.60	19.69	26.08	5.23	98		0.45	
	20	16.55	19.69	26.09	5.08	95		0.55	
	30	16.05	19.66	26.16	5.01	93		0.61	
	40	15.10	19.61	26.29	4.72	86		0.64	
	50	13.40	19.53	26.54	4.43	78		0.82	

Station: PORT HACKING

Latitude: 34°05' S.

Longitude: 151°17' E.

Date	Depth (m)	Temp °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1958 13.ix	0	16.80	19.69	26.03	5.17	97		0.45	
	10	16.80	19.69	26.03	5.30	100		0.45	
	20	16.85	19.69	26.02	5.23	99		0.43	
	30	16.90	19.69	26.00	5.11	97		0.45	
	40	16.85	19.69	26.02	5.17	98		0.40	
	50	16.90	19.69	26.00	5.20	98		0.42	
	75	15.05	19.60	26.29	4.60	84		0.59	
	100	12.90	19.49	26.59	4.60	80		0.69	
125	12.60	19.48	26.63	4.71	81		0.73		

Station: PORT HACKING

Latitude: 34°05' S.

Longitude: 151°21' E.

Date	Depth (m)	Temp °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1958 13.1x	0	17.30	19.70	25.92	5.15	98		0.74	
	10	17.30	19.70	25.92	5.33	102		0.40	
	20	17.30	19.70	25.92	5.30	101		0.43	
	30	17.10	19.70	25.97	5.30	101		0.39	
	40	16.90	19.70	26.02	5.30	100		0.41	
	50	16.85	19.69	26.02	5.23	99		0.40	
	75	14.40	19.55	26.36	4.36	78		0.75	
	100	13.30	19.51	26.53	4.68	82		0.72	
130	12.80	19.50	26.62	4.84	84		0.90		

Station: **KIAMA**

Latitude: **34°40' S.**

Longitude: **150°53' E.**

Date	Depth (m)	Temp °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1958 12.iX	0	15.95	19.66	26.18	5.47	101		0.43	
	10	15.95	19.66	26.18	5.52	102		0.43	
	20	15.90	19.66	26.19	5.50	102		0.46	
	30	14.90	19.66	26.41	5.55	101		0.43	
	40	15.15	19.62	26.29	5.18	94		0.55	
	50	14.30	19.58	26.43	4.85	87		0.61	

Station: KIAMA

Latitude: 34°40' S.

Longitude: 150°57' E.

Date	Depth (m)	Temp °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1958 12.1x	0	16.00	19.67	26.18	5.50	102		0.36	
	10	16.10	19.67	26.17	5.66	105		0.44	
	20	16.00	19.66	26.17	5.44	101		0.48	
	30	16.05	19.66	26.16	5.63	104		0.44	
	40	15.95	19.66	26.18	5.63	104		0.46	
	50	15.95	19.66	26.18	5.55	103		0.48	
	75	14.95	19.56	26.26	4.80	87		0.66	
	100	13.50	19.54	26.53	4.85	86		0.73	

Station: **KIAMA**

Latitude: **34°40' S.**

Longitude: **151°02' E.**

Date	Depth (m)	Temp °C	Cl ‰	σ_t	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1958 12.1x	0	16.35	19.67	26.10	5.15	96		0.43	
	10	16.25	19.67	26.13	5.09	95		0.44	
	20	16.25	19.67	26.13	5.31	99		0.47	
	30	16.25	19.67	26.13	5.15	96		0.45	
	40	16.20	19.67	26.14	5.27	98		0.45	
	50	15.20	19.67	26.36	5.09	93		0.46	
	75	14.25	19.56	26.41	4.58	82		0.63	
	100	14.75	19.56	26.30	4.44	80		0.57	
	125	14.50	19.55	26.34	4.85	87		0.65	

Station: KIAMA

Latitude: 34°40' S.

Longitude: 151°06' E.

Date	Depth (m)	Temp °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1958 12.ix	0	16.20	19.67	26.14	5.15	96		0.44	
	10	16.20	19.67	26.14	5.36	100		0.45	
	20	16.20	19.67	26.14	5.34	99		0.43	
	30	16.20	19.67	26.14	5.34	99		0.43	
	40	16.20	19.67	26.14	5.31	99		0.46	
	50	16.15	19.67	26.15	5.15	96		0.44	
	75	16.20	19.65	26.11	5.09	95		0.50	
	100	14.50	19.58	26.38	4.73	85		0.65	
	150	13.60	19.57	26.56	4.82	85		0.60	
	200	12.25	19.45	26.66	4.70	81		0.79	

Station: KIAMA

Latitude: 34°40' S.

Longitude: 151°10' E.

Date	Depth (m)	Temp °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1958 12.1x	0	16.20	19.67	26.14	5.26	98		0.33	
	25	16.20	19.67	26.14	5.23	97		0.47	
	50	16.05	19.66	26.16	4.78	89		0.52	
	75	15.55	19.66	26.27	4.78	88		0.45	
	100	15.30	19.64	26.29	5.23	96		0.53	
	150	14.60	19.63	26.43	5.01	90		0.55	
	200	13.00	19.50	26.58	4.54	79		0.67	
	300	11.75	19.40	26.69	4.48	76		0.93	
	400	10.20	19.28	26.81	4.43	72		1.14	

Station: JERVIS BAY

Latitude: 35°07' S.

Longitude: 150°48' E.

Date	Depth (m)	Temp °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1958 12.1x	0	15.10	19.62	26.30	5.20	95		0.56	
	10	15.10	19.62	26.30	5.17	94		0.48	
	20	15.05	19.62	26.31	5.49	100		0.55	
	30	15.05	19.62	26.31	5.42	99		0.58	
	40	15.05	19.62	26.31	5.39	98		0.57	
	50	14.90	19.62	26.35	5.39	98		0.56	
	75	13.75	19.58	26.54	5.17	92		0.59	

Station: JERVIS BAY

Latitude: 35°07' S.

Longitude: 150°52' E.

Date	Depth (m)	Temp °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1958 12.iX	0	15.60	19.65	26.24	5.33	98		0.46	
	10	15.55	19.65	26.25	5.55	102		0.46	
	20	15.50	19.68	26.31	5.46	100		0.45	
	30	15.50	19.64	26.24	5.30	97		0.55	
	40	15.25	19.63	26.28	4.78	87		0.55	
	50	14.95	19.62	26.34	5.46	99		0.55	
	75	14.20	19.60	26.48	5.39	97		0.54	
	100	13.30	19.54	26.58	5.04	88		0.63	

Station: JERVIS BAY

Latitude: 35°07' S.

Longitude: 150°57' E.

Date	Depth (m)	Temp °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1958 12.ix	0	15.50	19.63	26.23	5.11	94		0.47	
	10	15.50	19.63	26.23	5.55	102		0.48	
	20	15.50	19.64	26.25	5.52	101		0.45	
	30	15.40	19.64	26.27	5.42	99		0.46	
	40	15.40	19.63	26.25	5.52	101		0.49	
	50	15.30	19.63	26.27	5.52	101		0.54	
	75	14.90	19.63	26.37	5.39	98		0.54	
	100	14.10	19.57	26.45	5.04	90		0.77	
	125	13.50	19.53	26.52	4.95	87		0.71	

Station: JERVIS BAY

Latitude: 35°07' S.

Longitude: 151°01' E.

Date	Depth (m)	Temp °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1958 12.1x	0	15.70	19.65	26.22	5.49	101		0.54	
	25	15.55	19.65	26.25	5.49	101		0.52	
	50	15.10	19.64	26.33	5.55	101		0.53	
	75	15.10	19.64	26.33	5.55	101		0.54	
	100	15.05	19.63	26.33	5.55	101		0.54	
	150	14.70	19.62	26.40	5.23	94		0.63	
	200	13.15	19.51	26.56	4.72	83		0.77	
	300	11.80	19.43	26.72	5.01	85		0.87	

Station: JERVIS BAY

Latitude: 35°07' S.

Longitude: 151°05' E.

Date	Depth (m)	Temp °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1958 12.1x	0	16.05	19.65	26.15	5.79	108		0.55	
	25	15.85	19.64	26.17	5.71	107		0.50	
	50	15.40	19.63	26.25	5.79	106		0.45	
	75	15.20	19.63	26.29	5.60	102		0.90	
	100	15.10	19.63	26.32	5.66	103		0.52	
	150	13.65	19.58	26.56	5.30	94		0.63	
	200	12.50	19.49	26.67	5.23	90		0.67	
	300	10.60	19.31	26.77	4.75	78		1.00	
	500	9.50	19.25	26.88	4.81	77		1.18	

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
1958 6.ii	0	21.80	19.64	24.67	4.96	102		0.35	
	10	21.80	19.65	24.68	4.96	102		0.39	
	20	21.70	19.67	24.74	5.04	103		0.39	
	30	20.70	19.68	25.02	5.10	103		0.32	
	40	18.60	19.65	25.57	4.71	92		0.58	
	50	16.80	19.63	25.94	4.20	79		0.68	
5.iii	0	23.05	19.60	24.25	5.03	99		0.42	
	10	22.90	19.60	24.29	4.93	97		0.45	
	20	22.60	19.61	24.39	4.82	94		0.39	
	30	21.80	19.59	24.59	4.96	96		0.42	
	40	19.20	19.58	25.28	4.42	82		0.55	
	50	17.15	19.57	25.77	3.75	67		0.61	
7.iv	0	21.00	19.63	24.86	4.93	94		0.55	
	10	20.80	19.63	24.96	4.93	93		0.55	
	20	19.50	19.63	25.26	4.38	81		0.71	
	30	18.80	19.63	25.44	3.71	68		0.74	
	40	18.60	19.61	25.46	3.46	63		0.90	
	50	18.60	19.61	25.46	4.04	74		0.87	
5.vi	0	18.40	19.71	25.66	4.88	95		0.42	
	10	18.40	19.71	25.66	4.91	96		0.42	
	20	18.40	19.71	25.66	4.94	96		0.45	
	30	18.30	19.71	25.68	4.94	96		0.45	
	40	17.60	19.67	25.80	4.54	87		0.48	
	50	17.40	19.67	25.84	4.46	85		0.52	
4.vii	0	15.10	19.28	25.83	5.63	102		0.43	
	10	15.30	19.37	25.91	5.55	101		0.53	
	20	15.50	19.48	26.02	5.47	100		0.52	
	30	15.50	19.49	26.03	5.50	101		0.55	
	40	15.60	19.58	26.14	5.47	101		0.53	
	50	15.60	19.63	26.21	5.43	100		0.45	

Station: ULLADULLA

Latitude: 35°22' S.

Longitude: 150°35' E.

Date	Depth (m)	Temp °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1958 8.viii	0	13.90	19.59	26.52	5.70	101		0.56	
	10	13.80	19.59	26.54	5.73	102		0.59	
	20	13.80	19.59	26.54	5.76	102		0.56	
	30	12.90	19.53	26.64	5.24	91		0.65	
	40	12.90	19.53	26.64	5.82	101		0.51	
	50	12.70	19.51	26.65	5.28	92		0.77	
8.ix	0	14.80	19.61	26.36	5.57	101		0.52	
	10	14.70	19.60	26.37	5.79	104		0.50	
	20	14.60	19.60	26.39	5.76	104		0.47	
	30	14.40	19.60	26.43	5.67	102		0.50	
	40	14.40	19.60	26.43	5.57	100		0.52	
	50	14.30	19.59	26.44	5.42	97		0.56	
8.x	0	15.65	19.62	26.18	6.31	116		0.45	
	10	15.35	19.62	26.25	6.26	114		0.48	
	20	14.90	19.61	26.34	5.76	104		0.57	
	30	14.60	19.59	26.37	5.60	101			
	40	14.45	19.59	26.41	5.40	97		0.67	
	50	14.10	19.57	26.47	5.15	92		0.69	
6.xi	0	17.85	19.70	25.78	5.45	105		0.42	
	10	17.75	19.70	25.81	5.52	106		0.49	
	20	17.50	19.69	25.85	5.45	104		0.44	
	30	17.00	19.67	25.95	5.38	102		0.54	
	40	16.50	19.66	26.05	5.26	99		0.54	
	50	15.75	19.63	26.18	4.86	90		0.76	
3.xii	0	18.95	19.62	25.39	5.39	105		0.62	
	10	18.80	19.60	25.40	5.52	108		0.40	
	20	18.30	19.58	25.50	5.66	110			
	30	17.80	19.57	25.61	5.58	107		0.51	
	40	17.15	19.56	25.75	5.55	105		0.55	
	50	16.25	19.56	25.96	5.26	98		0.56	

Station: BATEMAN'S BAY

Latitude: 35°43' S.

Longitude: 150°19' E.

Date	Depth (m)	Temp °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1958 10.ix	0	14.90	19.63	26.37	6.10	111		0.50	
	10	14.90	19.63	26.37	6.04	109		0.53	
	20	14.90	19.63	26.37	5.96	108		0.53	
	30	14.60	19.62	26.42	5.52	99		0.47	
	40	13.85	19.60	26.55	5.80	103		0.54	
	50	13.80	19.62	26.59	5.94	106		0.54	

Station: BATEMAN'S BAY

Latitude: 35°43' S.

Longitude: 150°23' E.

Date	Depth (m)	Temp °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1958 10.1x	0	15.15	19.65	26.33	5.04	92		0.45	
	10	15.15	19.64	26.32	5.52	101		0.49	
	20	15.15	19.64	26.32	5.76	105		0.49	
	30	15.10	19.63	26.31	5.36	97		0.50	
	40	15.10	19.63	26.31	5.40	98		0.49	
	50	14.90	19.62	26.35	5.40	98		0.53	
	75	13.55	19.58	26.58	5.55	98		0.57	
	100	13.30	19.61	26.68	5.60	98		0.56	

Station: BATEMAN'S BAY

Latitude: 35°43' S.

Longitude: 150°27' E.

Date	Depth (m)	Temp °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1958 10.ix	0	16.90	19.70	26.02	5.42	102		0.55	
	10	16.85	19.70	26.03	5.46	103		0.54	
	20	16.85	19.69	26.02	5.23	99		0.55	
	30	16.00	19.67	26.18	5.06	94		0.44	
	40	15.55	19.67	26.28	5.66	104		0.44	
	50	15.25	19.67	26.34	5.68	104		0.54	
	75	14.95	19.65	26.39	5.60	102		0.51	
	100	14.40	19.63	26.48	5.63	101		0.53	
	125	13.60	19.63	26.64	5.79	102		0.55	

Station: BATEMAN'S BAY

Latitude: 35°43' S.

Longitude: 150°32' E.

Date	Depth (m)	Temp °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1958 10.ix	0	17.05	19.68	25.95	5.02	95		0.64	
	10	17.00	19.68	25.96	5.23	99		0.58	
	20	17.00	19.68	25.96	5.02	95		0.56	
	30	16.95	19.68	25.97	4.81	91		0.60	
	40	16.75	19.67	26.01	5.02	95		0.56	
	50	15.50	19.64	26.24	5.15	94		0.65	
	75	15.10	19.64	26.33	5.11	93		0.66	
	100	13.60	19.51	26.47	4.57	81		0.90	
	125	13.40	19.61	26.66	5.39	95		0.64	

Station: BATEMAN'S BAY

Latitude: 35°43' S.

Longitude: 150°36' E.

Date	Depth (m)	Temp °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1958 10.ix	0	17.20	19.69	25.93	5.34	102		0.52	
	25	17.15	19.69	25.94	5.27	100		0.49	
	50	17.10	19.69	25.95	5.31	101		0.49	
	75	15.20	19.57	26.20	4.42	81		0.75	
	100	14.20	19.52	26.36	4.39	79		0.77	
	150	12.75	19.45	26.57	4.49	78		0.81	
	200	12.20	19.44	26.66	4.94	85		0.87	
	300	12.20	19.52	26.77	5.47	94		0.65	
500	11.80	19.54	26.88	5.55	94		0.66		

Station: BATEMAN'S BAY

Latitude: 35°43' S.

Longitude: 150°40' E.

Date	Depth (m)	Temp °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1958 10.ix	0	17.15	19.67	25.91	4.96	94		0.42	
	25	17.00	19.67	25.94	5.06	96		0.52	
	50	17.00	19.67	25.94	4.42	84		0.51	
	75	16.20	19.63	26.08	4.47	83		0.63	
	100	13.95	19.50	26.38	4.31	77		0.90	
	150	12.75	19.43	26.53	4.45	77		0.90	
	200	11.95	19.40	26.65	4.67	80		1.02	
	300	10.60	19.31	26.77	4.45	73		1.03	
	500	8.65	19.19	26.93	4.49	71		1.41	

Station: BROULEE IS.

Latitude: 35°52' S.

Longitude: 150°15' E.

Date	Depth (m)	Temp °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1958 24.viii	0	13.80	19.58	26.53					
	10	13.75	19.58	26.54					
	20	13.75	19.58	26.54					
	30	13.75	19.58	26.54					
	40	13.70	19.58	26.55					
	50	13.55	19.58	26.58					

Station: BROULEE IS.

Latitude: 35°52' S.

Longitude: 150°19' E.

Date	Depth (m)	Temp °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1958 24.viii	0	14.05	19.58	26.48					
	10	14.05	19.58	26.48					
	20	14.05	19.58	26.48					
	30	14.00	19.58	26.49					
	40	14.00	19.58	26.49					
	50	14.00	19.58	26.49					
	75	13.75	19.58	26.54					
	100	13.60	19.58	26.57					

Station: BROULEE IS.

Latitude: 35°52' S.

Longitude: 150°23' E.

Date	Depth (m)	Temp °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1958 24.viii	0	15.05	19.61	26.30					
	10	14.50	19.58	26.39					
	20	13.90	19.57	26.59					
	30	13.75	19.57	26.53					
	40	13.75	19.58	26.54					
	50	13.60	19.58	26.57					
	75	13.60	19.58	26.57					
	100	13.50	19.58	26.59					
	120	13.40	19.58	26.61					

Station: BROULEE IS.

Latitude: 35°52' S.

Longitude: 150°27' E.

Date	Depth (m)	Temp °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1958 24.viii	0	15.10	19.62	26.30					
	10	15.15	19.63	26.31					
	20	14.80	19.58	26.32					
	30	14.10	19.58	26.46					
	40	13.80	19.58	26.53					
	50	13.65	19.57	26.54					
	75	13.60	19.57	26.55					
	100	13.35	19.57	26.61					
	125	13.05	19.55	26.64					

Station: BROULEE IS.

Latitude: 35°52' S.

Longitude: 150°31' E.

Date	Depth (m)	Temp °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1958 24.viii	0	15.20	19.63	26.30					
	25	15.15	19.63	26.31					
	50	14.90	19.61	26.34					
	75	14.40	19.58	26.41					
	100	13.80	19.58	26.53					
	200	12.60	19.56	26.74					
	300	12.35	19.56	26.79					
	500	12.30	19.56	26.80					

Station: BROULEE IS.

Latitude: 35°52' S.

Longitude: 150°35' E.

Date	Depth (m)	Temp °C	Cl ‰	σ_t	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1958 24.viii	0	15.50	19.65	26.26					
	25	15.40	19.65	26.28					
	50	15.35	19.65	26.30					
	75	15.10	19.63	26.32					
	100	14.60	19.59	26.37					
	150	13.25	19.53	26.57					
	200	13.30	19.55	26.59					
	300	12.75	19.57	26.74					
500	11.60	19.49	26.85						

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
1958 13.i	0	16.40	19.54	25.90	5.56	97		0.42	0
	10	16.10	19.55	25.98	5.58	97		0.35	0
	20	15.90	19.54	26.02	5.67	99		0.35	0
	30	15.20	19.53	26.16	5.67	97		0.35	0
	40	14.90	19.53	26.22	5.53	95		0.42	0
17.iii	0	16.80	19.64	25.94	5.51	97		0.42	0.4
	10	16.60	19.64	25.99	5.56	98		0.61	0
	20	16.50	19.64	26.01	5.56	98		0.42	0
	30	16.40	19.64	26.04	5.51	97		0.55	0
	40	16.40	19.64	26.04	5.51	97		0.42	0

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
1958									
31.1	0	16.60	19.61	25.95				0.26	0
	10	16.50	19.61	25.97	5.65	100		0.29	0
	20	16.40	19.61	26.00	5.65	99		0.29	0
	30	16.20	19.61	26.04	5.67	99		0.32	0
	40	15.20	19.61	26.27	5.67	98		0.52	0.8
	50	14.80	19.59	26.34	5.40	93		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
1958 14.i	0	14.70	19.38	26.07	5.89	100		0.35	0
	10	14.15	19.35	26.19	5.83	98		0.55	0
	20	13.95	19.38	26.25	5.72	96		0.39	1.00
	30	13.80	19.38	26.26	5.64	95		0.48	1.40
	40	13.60	19.38	26.30	5.64	94		0.55	1.40
	50	13.60	19.38	26.30	5.61	94		0.45	1.40
13.ii	0	16.25	19.55	25.95	5.65	99		0.35	0
	10	16.10	19.55	25.98	5.67	99		0.35	0
	20	15.95	19.54	26.01	5.67	99		0.39	0
	30	15.80	19.54	26.04	5.57	97		0.42	0
	40	15.05	19.51	26.16	5.47	94		0.45	2.20
	50	14.85	19.51	26.21	5.38	92		0.45	2.60
11.iii	0	16.60	19.58	25.92	5.56	98		0.32	0
	10	16.45	19.58	25.95	5.61	99		0.35	0
	20	16.45	19.58	25.95	5.61	99		0.42	0
	30	16.45	19.58	25.95	5.58	98		0.42	0
	40	16.45	19.58	25.95	5.61	99		0.39	0
	50	16.45	19.58	25.95	5.58	98		0.42	0
10.iv	0	15.70	19.62	26.17	5.38	93		0.32	0.80
	10	15.70	19.62	26.17	5.43	94		0.35	0.80
	20	15.70	19.62	26.17	5.40	94		0.35	0.80
	30	15.60	19.62	26.19	5.43	94		0.35	0.80
	40	15.60	19.62	26.19	5.43	94		0.35	0.80
	50	15.60	19.62	26.19	5.43	94		0.35	0.80
13.v	0	12.70	19.46	26.59				0.39	1.40
	10	12.80	19.49	26.62				0.39	1.40
	20	12.80	19.50	26.63				0.42	1.40
	30	12.80	19.54	26.68				0.42	1.40
	40	12.70	19.54	26.70				0.42	1.40
	50	12.70	19.54	26.70				0.42	1.40

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
1958									
10.vi	0	12.15	19.31	26.49	5.83	95		0.39	1.80
	10	12.40	19.37	26.52	5.83	95		0.39	1.00
	20	12.40	19.37	26.52	5.88	95		0.35	1.80
	30	12.40	19.37	26.52	5.83	95		0.42	2.20
	40	12.40	19.37	26.52	5.83	95		0.42	1.80
	50	12.40	19.37	26.52	5.78	94		0.42	1.80
10.vii	0	12.40	19.49	26.70	5.77	94		0.42	1.80
	10	12.45	19.49	26.69	5.79	95		0.42	1.40
	20	12.45	19.49	26.69	5.86	96		0.42	1.40
	30	12.45	19.49	26.69	5.86	96		0.42	1.40
	40	12.45	19.49	26.69	5.82	95		0.42	1.40
	50	12.45	19.49	26.69	5.79	95		0.42	1.40
12.viii	0	11.80	19.46	26.76	5.92	95		0.42	3.20
	10	11.80	19.46	26.76	5.92	95		0.42	3.20
	20	11.80	19.46	26.76	5.92	95		0.42	3.60
	30	11.80	19.46	26.76	5.97	96		0.42	3.60
	40	11.80	19.46	26.76	5.97	96		0.42	3.60
	50	11.80	19.46	26.76	5.92	95		0.42	2.80
9.ix	0	11.60	19.11	26.31	6.64	106		0.42	1.00
	10	11.50	19.35	26.67	6.35	102		0.42	2.20
	20	11.40	19.36	26.70	6.08	97		0.42	3.60
	30	11.40	19.37	26.71	6.08	97		0.42	3.60
	40	11.40	19.37	26.71	6.08	97		0.42	3.60
	50	11.40	19.37	26.71	6.02	96		0.48	2.80
14.x	0	12.65	18.16	24.78	6.37	103		0.61	1.00
	10	12.20	19.25	26.40	6.17	100		0.48	0.80
	20	12.20	19.39	26.59	6.07	98		0.48	1.40
	30	12.00	19.39	26.63	6.02	97		0.42	1.40
	40	11.90	19.39	26.65	6.02	97		0.52	1.00
	50	11.90	19.42	26.69	5.86	95		0.52	1.40

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
1958 11.xi	0	13.85	19.28	26.10	6.32	106		0.32	0
	10	12.95	19.38	26.44	6.55	108		0.39	0
	20	12.50	19.40	26.54	6.05	99		0.39	1.40
	30	12.25	19.41	26.61	5.92	96		0.45	2.50
	40	12.20	19.41	26.62	5.80	94		0.48	2.80
	50	12.10	19.41	26.64	5.71	93		0.55	2.80
9.xii	0	14.90	19.35	25.98	6.01	103		0.32	0
	10	14.20	19.35	26.13	6.10	103		0.39	0
	20	13.80	19.35	26.21	6.10	102		0.39	0
	30	12.90	19.35	26.40	5.95	98		0.42	0.80
	40	12.60	19.35	26.45	5.80	95		0.48	1.40
	50	12.50	19.35	26.47	5.73	94		0.52	1.80

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
1958 28.i	0	15.00	18.40	24.64				0.42	0
	10	14.90	18.50	24.80				0.35	0
	20	14.70	19.27	25.91				0.35	0
	30	14.50	19.34	26.05				0.35	0
	40	14.30	19.34	26.10				0.35	0
	50	14.20	19.35	26.13				0.48	0.4
6.iii	0	16.20	16.62	21.91				0.42	0
	10	15.60	19.32	25.78				0.39	0
	20	15.80	19.34	25.77				0.35	0
	30	15.40	19.35	25.87				0.32	0
	40	15.40	19.35	25.87				0.32	0
	50	15.30	19.35	25.89				0.32	0
3.vi	0	12.50	11.62	15.35				0.26	0.8
	10	13.90	18.77	25.38				0.35	0.4
	20	14.00	18.99	25.67				0.35	0
	30	14.20	19.27	26.02				0.29	0
	40	14.60	19.51	26.26				0.39	0
	50	14.60	19.42	26.14				0.39	0
4.viii	0	10.20	11.82	20.24				0.35	1.0
	10	11.75	18.31	25.17				0.32	1.4
	20	12.20	19.09	26.17				0.32	1.8
	30	12.50	19.36	26.49				0.32	2.2
	40	12.50	19.45	26.62				0.32	2.2
	50	12.75	19.49	26.63				0.35	2.2
11.ix	0	11.60	16.46	22.60				0.35	1.0
	10	11.80	18.97	26.08				0.35	2.2
	20	11.90	19.30	26.52				0.35	2.2
	30	11.80	19.32	26.57				0.35	2.2
	40	11.80	19.35	26.61				0.35	2.2
	50	11.80	19.36	26.63				0.39	2.2

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
1958									
13.x	0	12.80	18.62	25.40				0.39	1.0
	10	12.20	19.02	26.07				0.39	1.0
	20	11.80	19.31	26.55				0.42	2.2
	30	11.70	19.38	26.68				0.42	3.6
	40	11.70	19.41	26.71				0.42	2.8
	50	11.60	19.42	26.74				0.45	2.8
21.xii	0	13.40	18.14	24.61				0.42	1.4
	10	12.50	19.32	26.43				0.42	0.8
	20	11.80	19.42	26.71				0.42	3.2
	30	11.60	19.44	26.77				0.48	3.2
	40	11.60	19.42	26.74				0.48	3.6
	50	11.50	19.42	26.76				0.48	4.6

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
1958 7.1	0	14.60	19.34	26.03	5.97	102		0.29	0
								-0.29	
	10	14.40	19.34	26.07	5.95	101		0.29	0
								-0.29	
	20	14.40	19.34	26.07	5.95	101		0.29	0
								-0.35	
	30	14.30	19.34	26.10	5.92	100		0.29	0
							-0.35		
	40	14.30	19.34	26.10	5.88	99		0.29	0
								-0.35	
	50	14.90	19.48	26.16	5.78	99		0.29	0
								-0.35	
21.1	0	14.50	19.37	26.09	5.72	97		0.29	0
								-0.32	
	10	14.50	19.37	26.09	5.72	97		0.29	0
								-0.32	
	20	14.50	19.37	26.09	5.72	97		0.35	0
								-0.35	
	30	14.50	19.37	26.09	5.75	97		0.32	0
							-0.35		
	40	14.50	19.37	26.09	5.77	98		0.42	0
								-0.45	
	50	14.50	19.37	26.09	5.77	98		0.35	0
								-0.35	

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
1958 4.ii	0	15.95	19.52	25.98	5.67	99		0.32 -0.32	0.4
	10	15.90	19.52	25.99	5.70	99		0.35 -0.35	0.4
	20	15.90	19.52	25.99	5.72	100		0.35 -0.35	0
	30	15.90	19.56	26.05	5.72	100		0.35 -0.35	0.4
	40	15.85	19.56	26.06	5.61	98		0.32 -0.32	0
	50	14.65	19.47	26.20	5.57	95		0.48 -0.48	0.8
18.ii	0	16.25	19.50	25.88	5.70	100		0.32 -0.32	0.4
	10	16.25	19.51	25.89	5.70	100		0.29 -0.32	0
	20	16.25	19.53	25.92	5.72	100		0.32 -0.32	0
	30	15.95	19.51	25.96	5.72	100		0.35 -0.39	0
	40	15.40	19.50	26.08	5.59	97		0.42	0.8
	50	15.20	19.50	26.12	5.59	97		0.42	1.0

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
1958 5.111	0	15.90	19.52	25.99	5.59	97		0.32	0
								-0.32	
	10	15.80	19.52	26.02	5.56	96		0.32	0
								-0.32	
	20	15.80	19.52	26.02	5.56	96		0.32	0
								-0.32	
	30	15.80	19.52	26.02	5.56	96		0.32	0
							-0.32		
	40	15.65	19.51	26.03	5.53	96		0.35	0.8
								-0.35	
	50	15.45	19.51	26.08	5.46	94		0.35	0.8
								-0.35	
18.111	0	16.20	19.57	25.99	5.46	95		0.32	0
								-0.42	
	10	16.20	19.57	25.99	5.50	96		0.32	0
								-0.42	
	20	16.20	19.57	25.99	5.53	97		0.39	0
								-0.42	
	30	16.15	19.56	25.99	5.56	97		0.39	0
							-0.45		
	40	15.85	19.53	26.01	5.56	97		0.45	0
								-0.45	
	50	15.85	19.52	26.01	5.53	96		0.45	0
								-0.45	

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
1958 2.iv	0	15.20	19.51	26.13	5.50	95		0.39	1.0
								-0.42	
	10	15.20	19.51	26.13	5.55	95		0.42	1.0
								-0.42	
	20	15.20	19.51	26.13	5.53	95		0.42	1.0
								-0.42	
	30	15.40	19.53	26.11	5.48	95		0.42	1.0
								-0.42	
	40	15.35	19.53	26.12	5.48	95		0.42	0.8
								-0.42	
	50	15.25	19.52	26.14	5.48	94		0.45	0.8
								-0.45	
15.iv	0	14.60	19.46	26.19	5.53	94		0.42	1.0
								-0.42	
	10	14.60	19.46	26.19	5.58	95		0.39	0.8
								-0.39	
	20	14.60	19.46	26.19	5.58	95		0.39	1.0
								-0.51	
	30	14.60	19.46	26.19	5.58	95		0.45	0.8
							-0.48		
	40	14.60	19.46	26.19	5.48	93		0.42	0.8
								-0.42	
	50	14.60	19.46	26.19	5.53	94		0.42	0.8
								-0.42	

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
1958 8.v	0	13.15	19.35	26.34	5.68	94		0.55	2.6
								-0.55	
	10	13.15	19.35	26.34	5.77	95		0.55	2.2
								-0.55	
	20	13.15	19.35	26.34	5.66	94		0.52	1.4
								-0.52	
	30	13.15	19.35	26.34	5.66	94		0.52	2.2
								-0.52	
	40	13.15	19.35	26.34	5.71	95		0.48	1.8
								-0.48	
	50	13.15	19.35	26.34	5.71	95		0.42	2.2
								-0.42	
3.vi	0	13.20	19.43	26.45	5.72	95		0.42	1.0
								-0.42	
	10	13.20	19.43	26.45	5.77	95		0.42	1.0
								-0.42	
	20	13.20	19.43	26.45	5.77	95		0.42	1.0
								-0.42	
	30	13.20	19.43	26.45	5.72	95		0.42	1.0
							-0.42		
40	13.15	19.43	26.46	5.72	95		0.42	1.0	
							-0.42		
50	13.00	19.42	26.47	5.77	95		0.42	1.0	
							-0.42		

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
1958 18.vi	0	12.95	19.46	26.54	5.77	95		0.42 -0.42	0.8
	10	12.95	19.46	26.54	5.77	95		0.42 -0.42	0.6
	20	12.95	19.46	26.54	5.77	95		0.42 -0.42	0.8
	30	12.95	19.46	26.54	5.77	95		0.42 -0.42	0.6
	40	12.95	19.46	26.54	5.77	95		0.42 -0.42	0.6
	50	12.95	19.46	26.54	5.77	95		0.42 -0.42	0.4
1.vii	0	12.70	19.42	26.53	5.82	95		0.39 -0.39	1.8
	10	12.70	19.42	26.53	5.82	95		0.39 -0.39	1.8
	20	12.70	19.42	26.53	5.82	95		0.42 -0.42	1.8
	30	12.70	19.42	26.53	5.82	95		0.45 -0.45	1.8
	40	12.70	19.42	26.53	5.88	96		0.48 -0.48	1.4
	50	12.70	19.42	26.53	5.88	96		0.45 -0.45	1.4

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
1958 15.vii	0	12.10	19.43	26.67	5.86	95		0.42	1.8
								-0.42	
	10	12.10	19.43	26.67	5.89	95		0.45	1.4
								-0.45	
	20	12.15	19.43	26.66	5.92	96		0.45	1.4
								-0.45	
	30	12.15	19.43	26.66	5.89	95		0.45	1.4
							-0.45		
	40	12.15	19.43	26.66	5.80	94		0.45	1.4
								-0.45	
	50	12.15	19.43	26.66	5.89	95		0.45	1.4
								-0.45	
5.viii	0	11.50	19.42	26.76	5.98	96		0.48	3.2
								-0.48	
	10	11.50	19.42	26.76	5.98	96		0.45	3.6
								-0.80	
	20	11.50	19.42	26.76	6.04	97		0.45	3.2
								-0.45	
	30	11.45	19.42	26.77	5.80	93		0.45	3.2
							-0.45		
	40	11.40	19.43	26.80	5.95	95		0.48	2.8
								-0.48	
	50	11.40	19.43	26.80	5.98	96		0.48	2.8
								-0.48	

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
1958 21.viii	0	11.35	19.36	26.71	6.02	96		0.52	2.6
								-0.52	
	10	11.40	19.36	26.70	6.02	96		0.52	2.6
								-0.52	
	20	11.40	19.37	26.71	6.02	96		0.48	2.6
								-0.48	
	30	11.40	19.37	26.71	6.02	96		0.52	2.2
							-0.52		
	40	11.40	19.37	26.71	6.08	97		0.52	2.2
								-0.52	
	50	11.40	19.37	26.71	6.02	96		0.52	1.8
								-0.52	
3.ix	0	11.05	19.35	26.75	6.10	97		0.48	2.6
								-0.48	
	10	11.05	19.35	26.75	6.10	97		0.48	2.6
								-0.48	
	20	11.05	19.35	26.75	6.05	96		0.48	2.2
								-0.51	
	30	11.05	19.35	26.75	6.05	96		0.48	2.2
							-0.51		
	40	11.05	19.35	26.75	6.05	96		0.48	2.8
								-0.51	
	50	11.05	19.35	26.75	6.10	97		0.48	2.2
								-0.51	

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
1958 16.ix	0	11.20	19.33	26.69	6.20	99		0.45	2.2
								-0.45	
	10	11.20	19.33	26.69	6.20	99		0.45	2.6
								-0.45	
	20	11.20	19.33	26.69	6.20	99		0.45	2.6
								-0.45	
	30	11.20	19.33	26.69	6.20	99		0.45	2.6
							-0.45		
	40	11.20	19.33	26.69	6.20	99		0.45	2.6
								-0.45	
	50	11.20	19.33	26.69	6.20	99		0.45	2.6
								-0.45	
9.x	0	11.70	19.44	26.75	6.27	101		0.39	0.8
								-0.39	
	10	11.60	19.44	26.77	6.27	101		0.39	0.4
								-0.39	
	20	11.60	19.44	26.77	6.07	97		0.39	1.0
								-0.39	
	30	11.60	19.44	26.77	6.07	97		0.42	0.8
							-0.42		
	40	11.45	19.44	26.80	6.07	97		0.42	0.8
								-0.42	
	50	11.45	19.44	26.80	6.02	96		0.45	1.0
								-0.45	

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
1958 4.xi	0	11.80	19.32	26.57	6.27	101		0.32	0.8
								-0.42	
	10	11.80	19.32	26.57	6.37	103		0.35	0.8
								-0.42	
	20	11.60	19.32	26.61	6.42	103		0.39	0.4
								-0.45	
	30	11.45	19.32	26.64	6.32	101		0.42	1.0
							-0.42		
	40	11.45	19.32	26.64	6.19	99		0.48	1.0
								-0.48	
	50	11.45	19.32	26.64	6.14	98		0.48	1.0
								-0.48	
19.xi	0	13.15	19.31	26.29	6.32	105		0.35	1.0
								-0.35	
	10	12.20	19.31	26.48	6.42	105		0.35	1.0
								-0.42	
	20	12.00	19.31	26.52	6.28	102		0.42	1.0
								-0.42	
	30	12.00	19.31	26.52	6.28	102		0.42	1.0
							-0.42		
	40	11.85	19.31	26.54	6.28	101		0.48	1.4
								-0.48	
	50	11.85	19.31	26.54	6.17	100		0.48	1.0
								-0.48	

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
1958 2.xii	0	13.80	19.26	26.09	6.27	105		0.26 -0.26	0
	10	13.60	19.26	26.13	6.33	106		0.26 -0.26	0
	20	13.10	19.27	26.25	6.20	102		0.32 -0.35	0.4
	30	12.60	19.28	26.36	6.04	99		0.39 -0.39	0
	40	12.60	19.29	26.37	6.04	98		0.42 -0.42	0
	50	12.45	19.29	26.40	6.01	98		0.42 -0.42	0.8
	16.xii	0	14.15	19.30	26.07	5.87	99		0.32 -0.35
10		14.05	19.30	26.09	5.87	98		0.32 -0.39	0
20		14.00	19.31	26.11	5.87	98		0.42 -0.42	0
30		13.95	19.32	26.14	5.83	97		0.35 -0.45	0
40		13.95	19.34	26.17	5.83	97		0.39 -0.42	0.4
50		13.80	19.35	26.21	5.83	97		0.42 -0.42	0.4

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
34. Coastal hydrological investigations at Port Hacking, New South Wales, 1957
35. Coastal hydrological investigations at Eden, New South Wales, 1957
36. Surface sampling in the Tasman and Coral Seas, 1957
37. Hydrological investigations from F.R.V. *Derwent Hunter*, 1957
38. Coastal hydrological investigations in the New South Wales tuna fishing area, 1958
39. Surface sampling in the Coral and Tasman Seas, 1958
40. Coastal hydrological investigations in south-eastern Australia, 1958