

OCEANOGRAPHICAL STATION LIST

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

Volume 18

**Onshore Hydrological Investigations in
Eastern and South-western Australia, 1953**

Compiled by D. J. Rochford and R. Spencer

**COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH
ORGANIZATION, AUSTRALIA
MELBOURNE 1954**

OCEANOGRAPHICAL STATION LIST

ONSHORE HYDROLOGICAL INVESTIGATIONS IN EASTERN AND SOUTH-WESTERN
AUSTRALIA, 1953

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I. INTRODUCTION

In this volume the results of the analyses of coastal waters in eastern and south-western Australia during 1953 are given.

The oceanographical data obtained by F.R.V. "Derwent Hunter" in the south-west Tasman Sea and Bass Strait during 1953 are also given.

During 1953 two survey ships of the R.A.N., H.M.A.S. "Barcoo" and H.M.A.S. "Warrego", worked some oceanographical stations off the New South Wales coast and these results are also contained in this volume.

II. METHODS AND UNITS

The methods and units are those given in Volume 4. No depth corrections have been applied to any of the data.

III. PERSONNEL

The laboratory analyses have been the responsibility of Messrs. R. Spencer, A. Middleton, H. Jitts, and the hydrology staff at Cronulla and Perth. Messrs. G. Kitchen, K. Champion, and C. Wirrell were responsible for the field collecting by C.S.I.R.O., and R.A.N. officers for the collecting of samples from H.M.A.S. "Barcoo" and "Warrego".

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: EVAN'S HEAD

Latitude: 29°07'30" S.

Longitude: 153°38' E.

| Date | Depth (m.) | Temp. °C. | Cl ‰ | σ_t | O ₂ | O ₂ ‰ | pH | PO ₄ -P | NO ₃ -N |
|--------|------------|-----------|-------|------------|----------------|------------------|------|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 30.iii | 0 | 23.40 | 18.60 | 22.78 | 5.15 | 101 | 8.25 | 4-16-0 | 0 |
| | 10 | 24.50 | 19.30 | 23.41 | 4.91 | 99 | 8.19 | 2-10-3 | 0 |
| | 20 | 24.50 | 19.41 | 23.56 | 4.91 | 99 | 8.27 | 0-13-0 | 0 |
| | 30 | 24.50 | 19.50 | 23.69 | 4.99 | 100 | 8.21 | 0-13-0 | 0 |
| | 40 | 24.60 | 19.44 | 23.57 | 4.96 | 100 | 8.23 | 3-10-0 | 0 |
| | 50 | 24.60 | 19.49 | 23.65 | 4.99 | 101 | 8.16 | 2-9-1 | 0 |
| 26.iv | 0 | 23.70 | 19.63 | 24.10 | 4.76 | 95 | 8.01 | 8-0-0 | |
| | 10 | 22.20 | 19.62 | 24.51 | 4.19 | 81 | 8.14 | 12 | |
| | 20 | 22.00 | 19.60 | 24.55 | 4.68 | 90 | 8.13 | 12-1-5 | |
| | 30 | 21.30 | 19.57 | 24.70 | 4.57 | 87 | 8.12 | 13-0-0 | |
| | 40 | 21.10 | 19.56 | 24.74 | 3.96 | 75 | 8.10 | 15-0-0 | |
| | 50 | 21.00 | 19.51 | 24.70 | 3.86 | 73 | 8.08 | 19-0-0 | |
| 22.v | 0 | 21.70 | 19.57 | 24.59 | 5.18 | 100 | 8.23 | 6 | |
| | 10 | 21.60 | 19.54 | 24.58 | 5.18 | 99 | 8.23 | 5 | |
| | 20 | 21.30 | 19.60 | 24.74 | 4.88 | 93 | 8.20 | 7 | |
| | 30 | 21.00 | 19.65 | 24.89 | 4.64 | 88 | 8.18 | 7 | |
| | 40 | 21.00 | 19.66 | 24.90 | 4.46 | 85 | 8.18 | 12 | |
| | 50 | 21.00 | 19.60 | 24.86 | 4.61 | 88 | 8.17 | 9 | |
| 24.vi | 0 | 20.30 | 19.69 | 25.14 | 5.11 | 96 | 8.19 | 6-6 | 3 |
| | 10 | 20.10 | 19.67 | 25.16 | 5.16 | 97 | | 6-0-6 | 3 |
| | 20 | 20.30 | 19.68 | 25.12 | 5.29 | 99 | | 2-5-1 | 0 |
| | 30 | 20.30 | 19.69 | 25.14 | 5.29 | 99 | | 3-0-0 | 6 |
| | 40 | 20.20 | 19.67 | 25.11 | 5.14 | 97 | | 4-0-0 | 0 |
| | 50 | 19.50 | 19.68 | 25.33 | 4.20 | 78 | 8.15 | 12-0-0 | 34 |
| 2.viii | 0 | 20.70 | 19.68 | 25.01 | 4.66 | 88 | 8.16 | 12-26 | |
| | 10 | 20.60 | 19.69 | 25.06 | 4.51 | 85 | 8.17 | 11-12 | |
| | 20 | 20.60 | 19.67 | 25.03 | 4.51 | 85 | 8.19 | 10-0-0 | |
| | 30 | 20.50 | 19.69 | 25.08 | 4.53 | 85 | 8.20 | 10-6-5 | |
| | 40 | 20.60 | 19.69 | 25.06 | 4.53 | 86 | 8.20 | 10-0-0 | |
| | 50 | 20.60 | 19.69 | 25.06 | 4.42 | 84 | 8.20 | 10-0-2 | |

Station: EVAN'S HEAD

Latitude: 29°07'30" S.

Longitude: 153°38' E.

| Date | Depth (m.) | Temp. °C. | Cl ‰ | σ_t | O ₂ | O ₂ ‰ | pH | PO ₄ -P | NO ₃ -N |
|-------|------------|-----------|-------|------------|----------------|------------------|------|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 4.x | 0 | 20.80 | 19.61 | 24.89 | 4.84 | 92 | 8.22 | 5-9-0 | 29 |
| | 10 | 20.80 | 19.61 | 24.89 | 4.78 | 91 | 8.24 | 3-23 | 15 |
| | 20 | 20.40 | 19.62 | 25.01 | 4.81 | 91 | 8.24 | 3-17-3 | 39 |
| | 30 | 20.20 | 19.66 | 25.12 | 4.60 | 86 | 8.22 | 2-10-5 | 11 |
| | 40 | 20.30 | 19.65 | 25.08 | 4.49 | 84 | 8.19 | 2-10-1 | 24 |
| | 50 | 20.20 | 19.66 | 25.12 | 4.37 | 82 | 8.02 | 3-28 | 46 |
| 25.x | 0 | 20.80 | 19.67 | 24.97 | 5.24 | 99 | 8.23 | 6-14-0 | 7 |
| | 10 | 20.80 | 19.67 | 24.97 | 5.25 | 99 | | 8-6-3 | 7 |
| | 20 | 20.40 | 19.66 | 25.07 | 4.97 | 94 | 8.26 | 5-13-2 | 0 |
| | 30 | 19.60 | 19.66 | 25.28 | 3.82 | 71 | | 8-20-3 | 60 |
| | 40 | 19.60 | 19.66 | 25.28 | 3.87 | 72 | | 13-16 | 45 |
| | 50 | 19.60 | 19.66 | 25.28 | 3.71 | 69 | 8.02 | 14-9-3 | 71 |
| 29.xi | 0 | 20.60 | 19.64 | 24.98 | 6.25 | 118 | 8.24 | 7-11-2 | 0 |
| | 10 | 18.60 | 19.61 | 25.46 | 5.27 | 96 | 8.18 | 14-18 | 8 |
| | 20 | 17.60 | 19.62 | 25.72 | 4.81 | 86 | 8.14 | 17-0 | 55 |
| | 30 | 17.00 | 19.62 | 25.87 | 4.58 | 81 | 8.13 | 16-1-0 | 73 |
| | 40 | 17.00 | 19.64 | 25.90 | 4.38 | 78 | 8.14 | 17-16 | 69 |
| | 50 | 17.00 | 19.60 | 25.85 | 4.38 | 78 | 8.14 | 15-11 | 91 |

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 |
|--------------|------------|-----------|-------|----------------|----------------|------------------|------|--------------------|--------------------|
| 1953 27.i | 0 | 24.00 | 19.63 | 24.01 | 5.15 | 103 | 8.15 | 5-2 | 0 |
| | 10 | 24.00 | 19.62 | 23.99 | 5.15 | 103 | 8.15 | 6-3 | 0 |
| | 20 | 24.00 | 19.62 | 23.99 | 5.15 | 103 | 8.15 | 5-6 | 0 |
| | 30 | 23.80 | 19.62 | 24.05 | 5.20 | 104 | 8.15 | 6-3 | 0 |
| | 40 | 23.70 | 19.61 | 24.07 | 5.18 | 103 | 8.13 | 5-4 | 0 |
| | 50 | 23.00 | 19.59 | 24.25 | 5.15 | 101 | 8.10 | 3-8 | 0 |
| 30.iii | 0 | 24.50 | 18.96 | 22.95 | 5.42 | 109 | 8.23 | 3-8 | 2 |
| | 10 | 24.10 | 19.11 | 23.27 | 5.15 | 102 | 8.21 | 3-12 | 3 |
| | 20 | 24.70 | 19.20 | 23.21 | 5.02 | 101 | 8.21 | 2-7 | 0 |
| | 30 | 24.60 | 19.41 | 23.53 | 5.15 | 104 | 8.20 | 2-7 | 0 |
| | 40 | 24.60 | 19.36 | 23.46 | 4.91 | 99 | 8.20 | 2-9 | 0 |
| | 50 | 24.40 | 19.38 | 23.56 | 4.91 | 99 | 8.27 | 2-7 | 3 |
| 24.iv | 0 | 23.30 | 19.41 | 23.92 | 5.18 | 102 | 8.25 | 0-7 | |
| | 10 | 22.30 | 19.38 | 24.17 | 5.33 | 103 | 8.24 | 0-9 | |
| | 20 | 21.40 | 19.52 | 24.61 | 3.96 | 76 | 8.22 | 0-9 | |
| | 30 | 20.50 | 19.57 | 24.92 | 2.63 | 50 | 8.18 | 7-11 | |
| | 40 | 20.40 | 19.58 | 24.97 | 4.05 | 76 | 8.15 | 7-13 | |
| | 50 | 20.30 | 19.56 | 24.97 | 3.88 | 73 | 8.14 | 11-12 | |
| 21.v | 0 | 20.90 | 19.63 | 24.90 | 4.70 | 89 | 8.27 | 7-0 | |
| | 10 | 20.90 | 19.68 | 24.97 | 4.70 | 89 | 8.27 | 6-0 | |
| | 20 | 21.10 | 19.63 | 24.84 | 4.61 | 88 | 8.27 | 5-0 | |
| | 30 | 21.10 | 19.63 | 24.84 | 4.57 | 87 | 8.26 | 10-0 | |
| | 40 | 21.20 | 19.62 | 24.79 | 4.98 | 95 | 8.26 | 10-0 | |
| | 50 | 21.20 | 19.62 | 24.79 | 4.70 | 90 | 8.25 | 10-0 | |
| 22.vi | 0 | 19.60 | 19.69 | 25.32 | 3.57 | 66 | 8.15 | 0-12 | 2 |
| | 10 | 19.50 | 19.69 | 25.35 | 5.03 | 93 | | 0-12 | 0 |
| | 20 | 19.40 | 19.68 | 25.35 | 5.29 | 98 | | 2-8 | 0 |
| | 30 | 19.50 | 19.69 | 25.35 | 5.03 | 93 | | 4-7 | 0 |
| | 40 | 19.50 | 19.68 | 25.33 | 5.07 | 94 | | 8-3 | 0 |
| | 50 | 19.30 | 19.67 | 25.37 | 4.27 | 79 | 8.15 | 8-3 | 14 |

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 |
|--------|------------|-----------|-------|----------------|----------------|------------------|------|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 31.vii | 0 | 18.80 | 19.74 | 25.59 | 5.46 | 101 | 8.31 | 8-5 | |
| | 10 | 18.40 | 19.73 | 25.68 | 5.59 | 102 | 8.31 | 5-10 | |
| | 20 | 18.40 | 19.70 | 25.64 | 5.49 | 100 | 8.30 | 5-9 | |
| | 30 | 18.40 | 19.71 | 25.66 | 5.56 | 102 | 8.30 | 5-9 | |
| | 40 | 18.40 | 19.72 | 25.67 | 5.52 | 101 | 8.30 | 11-1 | |
| | 50 | 18.40 | 19.70 | 25.64 | 5.46 | 100 | 8.30 | 5-9 | |
| 2.x | 0 | 20.60 | 19.65 | 25.00 | 5.42 | 102 | 8.28 | 0-8 | 13 |
| | 10 | 20.40 | 19.64 | 25.04 | 5.39 | 102 | 8.30 | 4-3 | 14 |
| | 20 | 20.20 | 19.65 | 25.11 | 5.33 | 100 | 8.28 | 4-11 | 13 |
| | 30 | 19.90 | 19.64 | 25.17 | 5.15 | 96 | 8.24 | 7-8 | 6 |
| | 40 | 19.90 | 19.64 | 25.17 | 5.11 | 95 | 8.24 | 4-9 | 22 |
| | 50 | 18.20 | 19.58 | 25.53 | 4.59 | 83 | 8.17 | 10-34 | 96 |
| 23.x | 0 | 21.20 | 19.66 | 24.85 | 5.35 | 102 | 8.23 | 0-14 | 0 |
| | 10 | 21.10 | 19.66 | 24.88 | 5.10 | 97 | | 0-12 | 0 |
| | 20 | 20.60 | 19.66 | 25.01 | 5.03 | 95 | 8.22 | 2 | 0 |
| | 30 | 19.80 | 19.66 | 25.22 | 4.80 | 90 | 8.13 | 5-10 | 0 |
| | 40 | 17.80 | 19.65 | 25.72 | 3.92 | 71 | | 9-10 | 4 |
| | 50 | 17.40 | 19.64 | 25.80 | 4.01 | 72 | 8.14 | 12-16 | 0 |
| 28.xi | 0 | 21.60 | 19.65 | 24.73 | 5.65 | 109 | 8.18 | 6-16 | 4 |
| | 10 | 20.00 | 19.63 | 25.13 | 6.00 | 112 | 8.20 | 9-23 | 4 |
| | 20 | 17.80 | 19.64 | 25.70 | | | 8.12 | 17-14 | 37 |
| | 30 | 17.40 | 19.64 | 25.80 | 4.23 | 76 | 8.13 | 18-11 | 50 |
| | 40 | 17.30 | 19.67 | 25.87 | 3.87 | 69 | 8.00 | 15-23 | 63 |
| | 50 | 17.30 | 19.64 | 25.82 | 3.56 | 64 | 8.10 | 18-18 | 75 |
| 17.xii | 0 | 23.00 | 19.69 | 24.39 | 5.34 | 105 | 8.16 | 6-10 | 40 |
| | 10 | 23.00 | 19.68 | 24.37 | 5.22 | 103 | 8.16 | 8-7 | 30 |
| | 20 | 22.80 | 19.68 | 24.42 | 5.22 | 102 | 8.16 | 4-11 | 0 |
| | 30 | 22.60 | 19.68 | 24.48 | 5.28 | 103 | 8.16 | 5-10 | 0 |
| | 40 | 22.80 | 19.67 | 24.41 | 5.28 | 104 | 8.16 | 3-19 | 0 |
| | 50 | 22.60 | 19.69 | 24.50 | 5.34 | 104 | 8.16 | 4-18 | 0 |

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 |
|---------|------------|-----------|-------|------------|----------------|------------------|------|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 29.i | 0 | 24.00 | 19.62 | 23.99 | 5.02 | 100 | 8.11 | 6-0-0 | 0 |
| | 10 | 21.00 | 19.60 | 24.82 | 4.82 | 91 | 8.14 | 15-0-0 | 0 |
| | 20 | 18.90 | 19.58 | 25.35 | 4.53 | 83 | 8.15 | 15-2-0 | 0 |
| | 30 | 18.50 | 19.61 | 25.49 | 4.45 | 81 | 8.13 | 18 | 0 |
| | 40 | 16.50 | 19.60 | 25.96 | 4.39 | 77 | 8.15 | 18-18 | 0 |
| | 50 | 17.30 | 19.61 | 25.78 | 4.45 | 80 | 8.15 | 14-0-0 | 0 |
| 23.iv | 0 | 23.20 | 19.50 | 24.07 | 4.34 | 85 | 8.22 | 0-18-0 | |
| | 10 | 22.90 | 19.51 | 24.17 | 5.18 | 102 | 8.20 | 0-15-0 | |
| | 20 | 22.40 | 19.51 | 24.31 | 5.08 | 99 | 8.21 | 0-14-0 | |
| | 30 | 21.60 | 19.55 | 24.59 | 4.76 | 91 | 8.19 | 5-19-0 | |
| | 40 | 20.60 | 19.55 | 24.97 | 4.34 | 82 | 8.14 | 7-13-0 | |
| | 50 | 20.00 | 19.57 | 25.06 | 4.02 | 75 | 8.15 | 9-10-1 | |
| 20.v | 0 | 20.10 | 19.46 | 24.87 | 4.88 | 91 | 8.27 | 8-24 | |
| | 10 | 20.30 | 19.52 | 24.91 | 4.96 | 93 | 8.27 | 8-7-0 | |
| | 20 | 20.90 | 19.64 | 24.90 | 4.70 | 89 | 8.26 | 8-6-4 | |
| | 30 | 20.90 | 19.71 | 25.00 | 4.73 | 90 | 8.24 | 6-8-0 | |
| | 40 | 20.90 | 19.69 | 24.97 | 4.73 | 90 | 8.24 | 8-4-4 | |
| | 50 | 21.00 | 19.69 | 24.95 | 4.67 | 89 | 8.24 | 7-5-6 | |
| 30.vii | 0 | 19.20 | 19.75 | 25.50 | 5.39 | 100 | 8.27 | 6-11-0 | |
| | 10 | 19.10 | 19.74 | 25.52 | 5.52 | 102 | 8.27 | 8-8-0 | |
| | 20 | 19.00 | 19.71 | 25.51 | 5.46 | 101 | 8.27 | 11-8-0 | |
| | 30 | 19.00 | 19.75 | 25.55 | 5.43 | 100 | 8.23 | 13-1-0 | |
| | 40 | 18.80 | 19.74 | 25.59 | 5.34 | 98 | 8.24 | 8-4-2 | |
| | 50 | 18.40 | | | 4.94 | | 8.26 | 7-4-3 | |
| 23.viii | 0 | 16.90 | 19.67 | 25.96 | 5.48 | 98 | 8.22 | | |
| | 10 | 17.00 | 19.66 | 25.93 | 5.12 | 91 | 8.22 | | |
| | 20 | 16.90 | 19.66 | 25.95 | 5.24 | 93 | 8.20 | | |
| | 30 | 16.40 | 19.63 | 26.03 | 5.12 | 90 | 8.18 | | |
| | 40 | 16.30 | 19.62 | 26.03 | 5.05 | 89 | 8.19 | | |
| | 50 | 15.20 | 19.55 | 26.19 | 4.75 | 82 | 8.00 | | |

ide: 150°10' E.

| O ₂ | O ₂ % | pH | PO ₄ -P | NO ₃ -N |
|----------------|------------------|------|--------------------|--------------------|
| .97 | 93 | 8.21 | 0-18-5 | 21 |
| .99 | 93 | 8.19 | 4-13-1 | 31 |
| .99 | 93 | 8.19 | 4-64 | 41 |
| .60 | 85 | 8.17 | 6-14-3 | 43 |
| .15 | 74 | 8.16 | 15-9-0 | 108 |
| .06 | 72 | 8.17 | 16-12 | 134 |
| .48 | 82 | 8.08 | 10-6-3 | 27 |
| .45 | 81 | | 9-5-0 | 10 |
| | | 8.16 | 10-4-0 | 19 |
| .23 | 76 | 8.12 | 0-16-4 | 0 |
| .92 | 71 | | 9-5-7 | 17 |
| .32 | 78 | 8.13 | 7-0-8 | 16 |
| .52 | 102 | 8.26 | | |
| .83 | 107 | 8.26 | | |
| .77 | 85 | 8.18 | | |
| .77 | 85 | 8.26 | | |
| .75 | 83 | 8.26 | | |
| .88 | 86 | 8.13 | | |
| .12 | 101 | 8.16 | 3-25-0 | 0 |
| .94 | 97 | 8.16 | 5-19-0 | 0 |
| .12 | 100 | 8.14 | 4-21-5 | 0 |
| .23 | 79 | 8.13 | 10-25 | 3 |
| .98 | 74 | 8.07 | 18-12 | 45 |
| .11 | 75 | 8.01 | 12-19 | 1 |

Station: PORT STEPHENS

Latitude: 32°43' S.

Longitude: 152°18' E.

| Date | Depth (m.) | Temp. °C. | Cl ‰ | σ_t | O ₂ | O ₂ % | pH | PO ₄ -P | NO ₃ -N |
|--------|------------|-----------|-------|------------|----------------|------------------|------|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 21.i | 0 | 21.40 | 19.61 | 24.72 | 5.49 | 105 | 8.12 | 3-7 | 21 |
| | 10 | 21.40 | 19.61 | 24.72 | 5.55 | 106 | 8.10 | 7-1 | 13 |
| | 20 | 20.80 | 19.63 | 24.92 | 5.55 | 105 | 8.11 | 6-1 | 3 |
| | 30 | 18.70 | 19.62 | 25.45 | 5.36 | 98 | 8.11 | 15-0 | 8 |
| | 40 | 16.90 | 19.62 | 25.89 | 4.43 | 79 | 8.09 | 18-4 | 0 |
| | 50 | 16.00 | 19.60 | 26.08 | 4.22 | 74 | 8.10 | 20-0 | 0 |
| 19.ii | 0 | 20.90 | 19.58 | 24.83 | 5.33 | 101 | | 6-3 | 0 |
| | 10 | 20.90 | 19.57 | 24.81 | 5.39 | 102 | | 2-4 | 0 |
| | 20 | 20.80 | 19.58 | 24.86 | 5.31 | 101 | | 0-5 | 0 |
| | 30 | 20.80 | 19.57 | 24.84 | 5.28 | 100 | | 0-7 | 0 |
| | 40 | 20.60 | 19.58 | 24.91 | 5.11 | 96 | | 5-2 | 0 |
| | 50 | 19.70 | 19.60 | 25.17 | 4.86 | 91 | | 2-14 | 0 |
| 24.iii | 0 | 21.20 | 19.44 | 24.55 | 5.65 | 108 | 8.19 | 4-7 | 0 |
| | 10 | 20.10 | 19.54 | 24.99 | 5.20 | 97 | 8.23 | 2-10 | 0 |
| | 20 | 18.80 | 19.58 | 25.38 | 4.79 | 88 | 8.22 | 4-10 | 7 |
| | 30 | 17.60 | 19.66 | 25.78 | 3.64 | 65 | 8.13 | 13-9 | 46 |
| | 40 | 17.30 | 19.60 | 25.77 | 4.30 | 77 | 8.13 | 15-9 | 50 |
| | 50 | 17.00 | 19.59 | 25.83 | 3.60 | 64 | 8.13 | 15-10 | 85 |
| 21.iv | 0 | 21.40 | 19.49 | 24.57 | 5.42 | 104 | 8.22 | 0-20 | |
| | 10 | 21.20 | 19.51 | 24.64 | 5.31 | 101 | 8.21 | 1-18 | |
| | 20 | 21.20 | 19.51 | 24.64 | 5.33 | 101 | 8.20 | 2-15 | |
| | 30 | 21.10 | 19.53 | 24.70 | 5.02 | 95 | 8.18 | 4-16 | |
| | 40 | 20.50 | 19.57 | 24.92 | 4.96 | 93 | 8.20 | 6-7 | |
| | 50 | 19.80 | 19.56 | 25.10 | 4.64 | 86 | 8.19 | 10 | |
| 18.v | 0 | 20.10 | 18.66 | 23.77 | 5.38 | 100 | 8.27 | 8-8 | |
| | 10 | 21.10 | 19.25 | 24.32 | 5.08 | 96 | 8.27 | 4-13 | |
| | 20 | 21.20 | 19.40 | 24.49 | 4.76 | 90 | 8.26 | 5-15 | |
| | 30 | 21.10 | 19.44 | 24.57 | 4.74 | 90 | 8.24 | 6-17 | |
| | 40 | 19.90 | 19.58 | 25.10 | 4.39 | 82 | 8.22 | 9-14 | |
| | 50 | 19.50 | 19.57 | 25.18 | 4.23 | 78 | 8.19 | 12-13 | |

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 |
|---------|------------|-----------|-------|----------------|----------------|------------------|------|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 19.vi | 0 | 18.20 | 19.67 | 25.65 | 5.33 | 97 | 8.15 | 11-0 | 11 |
| | 10 | 18.20 | 19.68 | 25.66 | 5.36 | 98 | | 6-3 | 2 |
| | 20 | 18.30 | 19.68 | 25.64 | 5.29 | 97 | | 5-7 | 11 |
| | 30 | 18.20 | 19.68 | 25.66 | 5.29 | 96 | | 4-8 | 7 |
| | 40 | 18.00 | 19.65 | 25.67 | 5.20 | 94 | | 6-4 | 11 |
| | 50 | 17.90 | 19.61 | 25.64 | 5.20 | 94 | 8.15 | 12-3 | 3 |
| 29.vii | 0 | 17.00 | 19.66 | 25.93 | 5.49 | 98 | 8.26 | 5-9 | |
| | 10 | 16.90 | 19.69 | 25.99 | 5.68 | 101 | 8.26 | 8-6 | |
| | 20 | 16.80 | 19.69 | 26.02 | 5.65 | 100 | 8.29 | 7-6 | |
| | 30 | 16.80 | 19.70 | 26.03 | 5.52 | 98 | 8.26 | 5-9 | |
| | 40 | 16.80 | 19.70 | 26.03 | 5.65 | 100 | 8.24 | 5-9 | |
| | 50 | 16.60 | 19.69 | 26.07 | 5.26 | 93 | 8.23 | 3-10 | |
| 21.viii | 0 | 16.70 | 19.69 | 26.04 | 5.42 | 96 | 8.22 | 6-6 | 34 |
| | 10 | 16.60 | 19.64 | 25.99 | 5.48 | 97 | 8.22 | 2-12 | 24 |
| | 20 | 16.30 | 19.62 | 26.03 | 5.48 | 96 | 8.23 | 4-13 | 34 |
| | 30 | 16.20 | 19.63 | 26.07 | 5.42 | 95 | 8.23 | 2-14 | 8 |
| | 40 | 16.00 | 19.61 | 26.09 | 5.48 | 96 | 8.23 | 4-9 | 52 |
| | 50 | 16.00 | 19.62 | 26.10 | 5.42 | 95 | 8.23 | 4-9 | 43 |
| 30.ix | 0 | 17.70 | 19.65 | 25.75 | 5.39 | 97 | 8.21 | 4-14 | 19 |
| | 10 | 17.40 | 19.64 | 25.80 | 5.58 | 100 | 8.22 | 3-20 | 12 |
| | 20 | 17.00 | 19.64 | 25.90 | 5.67 | 101 | 8.22 | 3-13 | 4 |
| | 30 | 16.80 | 19.63 | 25.93 | 5.58 | 99 | 8.19 | 3-9 | 7 |
| | 40 | 16.50 | 19.62 | 25.98 | 5.36 | 94 | 8.19 | 0-14 | 32 |
| | 50 | 15.50 | 19.60 | 26.19 | 4.59 | 80 | 8.18 | 0-19 | 83 |
| 4.xi | 0 | 17.80 | 19.54 | 25.57 | 6.13 | 111 | 8.14 | 6-10 | 0 |
| | 10 | 17.70 | 19.55 | 25.60 | 6.26 | 113 | 8.24 | 5-7 | 0 |
| | 20 | 17.60 | 19.58 | 25.68 | 6.20 | 112 | 8.20 | 9-4 | 0 |
| | 30 | 17.40 | 19.53 | 25.65 | 5.30 | 95 | 8.20 | 5-10 | 0 |
| | 40 | 17.40 | 19.54 | 25.67 | 5.49 | 98 | 8.17 | 8-5 | 1 |
| | 50 | 14.40 | 19.52 | 26.33 | 3.87 | 66 | 8.02 | 27-3 | 50 |

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 |
|--------|------------|-----------|-------|------------|----------------|------------------|------|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 24.xi | 0 | 19.00 | 19.66 | 25.43 | 5.39 | 99 | 8.08 | 10-12 | 3 |
| | 10 | 18.90 | 19.67 | 25.47 | 5.45 | 100 | 8.18 | 10-15 | 7 |
| | 20 | 18.20 | 19.66 | 25.63 | 5.05 | 92 | 8.15 | 15-3 | 11 |
| | 30 | 17.80 | 19.67 | 25.75 | 4.66 | 84 | 8.15 | 17-8 | 21 |
| | 40 | 17.00 | 19.66 | 25.93 | 4.18 | 76 | 8.14 | 22-20 | 37 |
| | 50 | 16.80 | 19.61 | 25.90 | 3.98 | 71 | 8.14 | 22-10 | 65 |
| 15.xii | 0 | 20.40 | 19.71 | 25.14 | 5.12 | 96 | 8.13 | 14-4 | 0 |
| | 10 | 20.40 | 19.68 | 25.09 | 5.28 | 99 | 8.13 | 13-17 | 0 |
| | 20 | 19.90 | 19.70 | 25.25 | 5.12 | 96 | 8.13 | | 0 |
| | 30 | 18.70 | 19.68 | 25.53 | 5.00 | 92 | 8.15 | | 0 |
| | 40 | 18.20 | 19.67 | 25.65 | 5.00 | 91 | 8.15 | 22-1 | 0 |
| | 50 | 18.20 | 19.69 | 25.68 | 5.05 | 92 | 8.15 | 15-7 | 8 |

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 |
|-------|------------|-----------|-------|------------|----------------|------------------|------|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 14.i | 0 | 21.00 | 19.66 | 24.90 | 5.46 | 104 | 8.18 | 6-9 | 6 |
| | 10 | 20.40 | 19.66 | 25.07 | 5.55 | 105 | 8.19 | 9-3 | 0 |
| | 20 | 18.80 | 19.61 | 25.41 | 5.75 | 106 | 8.17 | 12-9 | 0 |
| | 30 | 17.20 | 19.60 | 25.80 | 5.94 | 106 | 8.16 | 6-12 | 0 |
| | 40 | 16.60 | 19.59 | 25.93 | 5.18 | 92 | 8.16 | 16-9 | 25 |
| | 50 | 16.10 | 19.59 | 26.04 | 4.84 | 85 | 8.17 | 14-12 | 76 |
| 26.ii | 0 | 22.40 | 19.46 | 24.24 | 5.33 | 104 | 8.18 | 0-11 | 0 |
| | 10 | 22.00 | 19.49 | 24.40 | 5.19 | 100 | 8.17 | 0-6 | 0 |
| | 20 | 21.00 | 19.49 | 24.68 | 4.95 | 94 | 8.15 | 6-11 | 0 |
| | 30 | 19.20 | 19.47 | 25.12 | 4.59 | 85 | 8.15 | 17-2 | 0 |
| | 40 | 15.60 | 19.44 | 25.95 | 3.90 | 68 | 8.19 | 30-0 | 0 |
| | 50 | 14.60 | 19.51 | 26.26 | 3.93 | 67 | 8.16 | 38-0 | 0 |
| 2.iv | 0 | 21.00 | 19.53 | 24.72 | 5.31 | 101 | 8.15 | 3-12 | 4 |
| | 10 | 21.00 | 19.53 | 24.72 | 5.25 | 100 | 8.15 | 2-9 | 0 |
| | 20 | 21.10 | 19.54 | 24.71 | 5.22 | 99 | 8.15 | 2-10 | 0 |
| | 30 | 21.20 | 19.59 | 24.76 | 5.31 | 101 | 8.17 | 6-3 | 0 |
| | 40 | 20.80 | 19.58 | 24.86 | 6.23 | 118 | 8.17 | 3-8 | 0 |
| | 50 | 20.10 | 19.61 | 25.08 | 4.94 | 93 | 8.18 | 6-9 | 6 |
| 22.iv | 0 | 21.80 | 19.54 | 24.52 | 5.17 | 100 | 8.26 | | 6 |
| | 10 | 21.80 | 19.59 | 24.59 | 5.15 | 99 | 8.24 | | 6 |
| | 20 | 21.20 | 19.59 | 24.76 | 4.96 | 94 | 8.21 | | 8 |
| | 30 | 21.20 | 19.59 | 24.76 | 5.02 | 96 | 8.19 | | 9 |
| | 40 | 21.30 | 19.58 | 24.72 | 5.02 | 96 | 8.19 | | 7 |
| | 50 | 21.20 | 19.55 | 24.70 | 4.93 | 94 | 8.19 | | 7 |
| 26.v | 0 | 18.80 | 19.61 | 25.41 | 5.27 | 97 | 8.25 | 9-12 | |
| | 10 | 18.80 | 19.61 | 25.41 | 5.31 | 97 | 8.23 | 8-17 | |
| | 20 | 18.80 | 19.59 | 25.39 | 5.25 | 97 | 8.20 | 9-10 | |
| | 30 | 18.70 | 19.60 | 25.43 | 5.27 | 97 | 8.20 | 8-13 | |
| | 40 | 18.70 | 19.61 | 25.44 | 5.27 | 97 | 8.18 | 10-11 | |
| | 50 | 18.70 | 19.60 | 25.43 | 5.23 | 96 | 8.18 | 6-9 | |

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 |
|--------|------------|-----------|-------|------------|----------------|------------------|------|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 29.vi | 0 | 17.60 | 19.74 | 25.89 | 5.55 | 100 | 8.21 | 0-11 | 0 |
| | 10 | 17.60 | 19.70 | 25.84 | 5.55 | 100 | 8.21 | 2-12 | 0 |
| | 20 | 17.60 | 19.73 | 25.88 | 5.57 | 100 | 8.21 | 0-11 | 0 |
| | 30 | 17.60 | 19.73 | 25.88 | 5.55 | 100 | 8.20 | 3-11 | 2 |
| | 40 | 17.40 | 19.70 | 25.88 | 5.39 | 97 | 8.18 | 8-4 | 17 |
| | 50 | 17.40 | 19.73 | 25.92 | 5.55 | 99 | 8.17 | 9-3 | 8 |
| 31.vii | 0 | 15.60 | 19.63 | 26.21 | 5.28 | 92 | 8.21 | 11-1 | 44 |
| | 10 | 15.60 | 19.57 | 26.13 | 5.71 | 99 | 8.21 | 11-2 | 39 |
| | 20 | 15.50 | 19.57 | 26.15 | 5.19 | 90 | 8.20 | 12-0 | 44 |
| | 30 | 15.20 | | | 4.99 | | 8.19 | 12-0 | 55 |
| | 40 | 15.40 | | | 5.28 | | 8.19 | 11-1 | 33 |
| | 50 | 15.00 | 19.61 | 26.31 | 4.78 | 82 | 8.19 | 17-0 | 117 |
| 2.ix | 0 | 15.70 | | | 5.37 | | 8.13 | 7-6 | 28 |
| | 10 | 15.70 | | | 5.24 | | 8.18 | 5-0 | 68 |
| | 20 | 15.60 | 19.69 | 26.30 | 5.24 | 91 | 8.18 | 11-0 | 66 |
| | 30 | 15.10 | | | 5.00 | | 8.15 | 9-0 | 77 |
| | 40 | 14.60 | 19.67 | 26.49 | 4.75 | 81 | 8.15 | 20-0 | 110 |
| | 50 | 14.50 | | | 4.57 | | 8.16 | 16-0 | |
| 28.x | 0 | 18.30 | 19.67 | 25.62 | 6.07 | 111 | 8.24 | 0-13 | 2 |
| | 10 | 17.80 | 19.64 | 25.70 | 6.15 | 111 | 8.23 | 0-7 | 2 |
| | 20 | 17.80 | 19.61 | 25.66 | 5.64 | 102 | 8.17 | 5-9 | 16 |
| | 30 | 17.40 | 19.61 | 25.76 | 5.29 | 95 | 8.12 | 9-9 | 14 |
| | 40 | 17.40 | 19.54 | 25.67 | 4.87 | 87 | 8.11 | 15-12 | 91 |
| | 50 | 17.30 | 19.54 | 25.69 | 4.21 | 75 | 8.13 | 15-5 | 78 |
| 3.xii | 0 | 18.90 | 19.58 | 25.35 | 5.22 | 96 | | 8-21 | 10 |
| | 10 | 18.70 | 19.64 | 25.48 | 5.52 | 101 | | 6-19 | 1 |
| | 20 | 18.00 | 19.64 | 25.65 | 5.28 | 96 | | 10-17 | 5 |
| | 30 | 16.80 | 19.62 | 25.91 | 5.17 | 92 | | 12-14 | 6 |
| | 40 | 16.50 | 19.65 | 26.03 | 4.94 | 87 | | 13-13 | 30 |
| | 50 | 15.10 | 19.56 | 26.23 | 4.71 | 81 | | 23-5 | 55 |

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 |
|-------|------------|-----------|-------|------------|----------------|------------------|------|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 14.1 | 0 | 20.80 | 19.66 | 24.96 | 5.46 | 103 | 8.18 | 9-0-0 | 0 |
| | 10 | 19.90 | 19.65 | 25.19 | 5.65 | 106 | 8.19 | 3-9-6 | 0 |
| | 20 | 18.70 | 19.60 | 25.43 | 5.87 | 108 | 8.15 | 10-12 | 4 |
| | 30 | 16.80 | 19.58 | 25.87 | 4.58 | 81 | 8.15 | 18-4-4 | 39 |
| | 40 | 15.90 | 19.58 | 26.18 | 4.73 | 83 | 8.14 | 13-16 | 68 |
| | 50 | 15.20 | 19.59 | 26.25 | 4.55 | 78 | 8.16 | 18-6-2 | 110 |
| 27.1 | 0 | 21.80 | 19.60 | 24.60 | 5.39 | 104 | 8.17 | 4-5-0 | 8 |
| | 10 | 21.50 | 19.66 | 24.76 | 5.31 | 102 | 8.16 | 3-7-7 | 6 |
| | 20 | 21.00 | 19.65 | 24.89 | 5.22 | 99 | 8.15 | 3-6-0 | 6 |
| | 30 | 19.30 | 19.61 | 25.28 | 4.91 | 91 | 8.16 | 7-2-9 | 5 |
| | 40 | 17.80 | 19.61 | 25.66 | 4.59 | 83 | 8.15 | 12-13 | 11 |
| | 50 | 17.50 | 19.59 | 25.71 | 4.68 | 84 | 8.12 | 13-7-0 | 4 |
| 3.11 | 0 | 21.70 | 19.63 | 24.67 | 5.39 | 104 | 8.16 | 6-0-0 | 13 |
| | 10 | 21.60 | 19.62 | 24.68 | 5.39 | 103 | 8.17 | 3-0-0 | 6 |
| | 20 | 21.10 | 19.61 | 24.81 | 5.39 | 103 | 8.16 | 5-0-0 | 6 |
| | 30 | 17.80 | 19.60 | 25.65 | 5.42 | 98 | 8.09 | 4-0-0 | 13 |
| | 40 | 17.00 | 19.60 | 25.84 | 5.08 | 90 | 8.09 | 9-3-0 | 44 |
| | 50 | 17.00 | 19.58 | 25.82 | 5.15 | 92 | 8.02 | 9-0-0 | 30 |
| 9.11 | 0 | 20.10 | 19.52 | 24.96 | 6.09 | 114 | 8.18 | 4 | 4 |
| | 10 | 19.10 | 19.54 | 25.24 | 6.16 | 114 | 8.20 | 6 | 4 |
| | 20 | 18.50 | 19.55 | 25.41 | 5.90 | 108 | 8.16 | 7 | 4 |
| | 30 | 16.20 | 19.54 | 25.95 | 4.98 | 87 | 8.16 | 15 | 7 |
| | 40 | 15.40 | 19.50 | 26.08 | 4.74 | 82 | 8.15 | 18 | 33 |
| | 50 | 15.20 | 19.54 | 26.18 | 4.40 | 76 | 8.18 | 22 | 21 |
| 25.11 | 0 | 21.50 | 19.58 | 24.66 | 5.22 | 100 | 8.18 | 4-11-3 | 0 |
| | 10 | 21.40 | 19.58 | 24.69 | 5.11 | 98 | 8.17 | 8-7-0 | 0 |
| | 20 | 21.00 | 19.61 | 24.83 | 5.05 | 96 | 8.15 | 6-11-0 | 0 |
| | 30 | 19.50 | 19.63 | 25.26 | 4.65 | 86 | 8.17 | 12-3-0 | 0 |
| | 40 | 19.40 | 19.61 | 25.26 | 4.77 | 88 | 8.15 | 12-2-4 | 0 |
| | 50 | 16.80 | 19.60 | 25.89 | 4.30 | 76 | 8.06 | 15-10 | 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 |
|-------|------------|-----------|-------|----------------|----------------|------------------|------|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 6.iii | 0 | 21.40 | 19.59 | 24.70 | | | 8.17 | 6-6-2 | 6 |
| | 10 | 20.40 | 19.60 | 24.99 | | | 8.20 | 6-6-6 | 6 |
| | 20 | 19.10 | 19.61 | 25.34 | | | 8.19 | 9-6-3 | 13 |
| | 30 | 18.20 | 19.60 | 25.55 | | | 8.19 | 9-6-3 | 12 |
| | 40 | 17.00 | 19.58 | 25.82 | | | 8.17 | 15-11 | 93 |
| | 50 | 16.70 | 19.61 | 25.93 | | | 8.16 | 15-10 | 84 |
| 2.iv | 0 | 21.40 | 19.57 | 24.67 | 5.36 | 102 | 8.17 | 3-4-2 | 0 |
| | 10 | 21.30 | 19.55 | 24.67 | 5.28 | 101 | 8.17 | 2-5-0 | 0 |
| | 20 | 21.30 | 19.52 | 24.63 | 5.25 | 100 | 8.16 | 2-4-5 | 4 |
| | 30 | 21.10 | 19.47 | 24.62 | 5.18 | 98 | 8.16 | 2-12-1 | 4 |
| | 40 | 21.10 | 19.50 | 24.66 | | | 8.06 | 5-3-0 | 11 |
| | 50 | 17.90 | 19.52 | 25.52 | 4.70 | 85 | 8.00 | 10-20 | 52 |
| 9.iv | 0 | 21.60 | 19.56 | 24.61 | 5.22 | 100 | | 3-7-3 | 0 |
| | 10 | 21.70 | 19.56 | 24.58 | 5.27 | 101 | 8.19 | 3-9-7 | 0 |
| | 20 | 21.70 | 19.57 | 24.59 | 4.93 | 95 | 8.20 | 3-10-0 | 0 |
| | 30 | 21.60 | 19.58 | 24.64 | 5.17 | 99 | 8.19 | 2-10-0 | 0 |
| | 40 | 21.60 | 19.58 | 24.64 | 5.39 | 103 | 8.17 | 3-11-0 | 0 |
| | 50 | 21.00 | 19.58 | 24.80 | 5.22 | 99 | 8.18 | 4-8-0 | 0 |
| 14.iv | 0 | 21.40 | 19.54 | 24.63 | 5.31 | 102 | 8.20 | 6-7-0 | |
| | 10 | 20.40 | 19.62 | 25.01 | 5.17 | 97 | 8.19 | 7-7-17 | |
| | 20 | 19.80 | 19.64 | 25.19 | 4.98 | 93 | 8.18 | 9-5-0 | |
| | 30 | 19.30 | 19.63 | 25.31 | 4.76 | 88 | 8.16 | 11-4-2 | |
| | 40 | 17.80 | 19.62 | 25.67 | 4.76 | 86 | 8.16 | 15-6-0 | |
| | 50 | 17.80 | 19.62 | 25.67 | 4.46 | 81 | 8.16 | 15-6-4 | |
| 21.iv | 0 | 22.20 | 19.55 | 24.42 | 4.98 | 96 | 8.24 | 5-9-0 | |
| | 10 | 22.20 | 19.58 | 24.47 | 5.22 | 101 | 8.23 | 4-11-0 | |
| | 20 | 21.30 | 19.59 | 24.73 | 5.10 | 97 | 8.22 | 6-8-5 | |
| | 30 | 20.40 | 19.59 | 24.97 | 4.98 | 94 | 8.20 | 9-0-9 | |
| | 40 | 19.60 | 19.58 | 25.17 | 4.64 | 86 | 8.17 | 11-4-0 | |
| | 50 | 19.20 | 19.60 | 25.30 | 4.67 | 86 | 8.15 | 13-12 | |

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 |
|-------|------------|-----------|-------|----------------|----------------|------------------|------|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 28.iv | 0 | 22.00 | 19.56 | 24.50 | 5.33 | 103 | 8.24 | 2-4-0 | |
| | 10 | 21.70 | 19.58 | 24.61 | 5.27 | 101 | 8.21 | 2-2-0 | |
| | 20 | 21.10 | 19.62 | 24.82 | | | 8.22 | 2-3-0 | |
| | 30 | 21.10 | 19.59 | 24.78 | 5.33 | 101 | 8.21 | 5-1-4 | |
| | 40 | 21.00 | 19.64 | 24.88 | 5.27 | 100 | 8.18 | 15-0-0 | |
| | 50 | 19.30 | 19.68 | 25.39 | 4.39 | 81 | 8.06 | 18-0-0 | |
| 11.v | 0 | 19.40 | 17.85 | 22.84 | 5.25 | 95 | 8.22 | 9-13-4 | |
| | 10 | 20.80 | 19.24 | 24.38 | 5.08 | 96 | 8.21 | 5-7-4 | |
| | 20 | 20.60 | 19.31 | 24.52 | 4.96 | 93 | 8.24 | 4-6-2 | |
| | 30 | 20.70 | 19.35 | 24.56 | 4.59 | 87 | 8.23 | 7-5-2 | |
| | 40 | 20.70 | 19.35 | 24.56 | 4.88 | 92 | 8.27 | 8-7-0 | |
| | 50 | 20.60 | 19.40 | 24.64 | 4.78 | 90 | 8.32 | 11-4-0 | |
| 19.v | 0 | 20.30 | 19.19 | 24.71 | 4.80 | 90 | 8.22 | 8-10-2 | |
| | 10 | 19.80 | 19.38 | 24.85 | 4.56 | 85 | 8.18 | 12-4-0 | |
| | 20 | 19.80 | 19.55 | 25.08 | 3.90 | 73 | 8.14 | 14-4-6 | |
| | 30 | 19.70 | 19.54 | 25.09 | 3.90 | 72 | 8.16 | 15-5-2 | |
| | 40 | 19.30 | 19.61 | 25.28 | 4.14 | 77 | 8.15 | 18-4-0 | |
| | 50 | 18.60 | 19.62 | 25.47 | 3.90 | 71 | 8.16 | 20-4-0 | |
| 25.v | 0 | 19.00 | 19.64 | 25.40 | 3.85 | 71 | 8.15 | 12-3-0 | |
| | 10 | 19.00 | 19.63 | 25.39 | 4.81 | 89 | 8.19 | 14-3-0 | |
| | 20 | 19.00 | 19.65 | 25.42 | 5.04 | 93 | 8.20 | 13-3-3 | |
| | 30 | 19.00 | 19.64 | 25.40 | 5.10 | 94 | 8.20 | 12-1-1 | |
| | 40 | 19.10 | 19.63 | 25.37 | 5.20 | 96 | 8.20 | 12-1-0 | |
| | 50 | 19.00 | 19.63 | 25.40 | 5.07 | 94 | 8.20 | 13-4-0 | |
| 1.vi | 0 | 18.80 | 19.58 | 25.38 | 5.48 | 101 | 8.23 | 8-0-1 | 0 |
| | 10 | 18.80 | 19.58 | 25.38 | 5.08 | 93 | 8.23 | 9-0-4 | 0 |
| | 20 | 18.80 | 19.60 | 25.40 | 5.56 | 102 | 8.24 | 9-6-2 | 0 |
| | 30 | 18.80 | 19.60 | 25.40 | 5.39 | 99 | 8.21 | 9-9-0 | 5 |
| | 40 | 18.70 | 19.67 | 25.52 | 5.31 | 97 | 8.22 | 8-0-0 | 5 |
| | 50 | 18.50 | 19.60 | 25.49 | 5.36 | 98 | 8.22 | 11-4-3 | 3 |

Station: PORT HACKING

Latitude: 34°05' S.

Longitude: 151°13' E.

| Date | Depth (m.) | Temp. °C. | Cl ‰ | σ_t | O ₂ | O ₂ ‰ | pH | PO ₄ -P | NO ₃ -N |
|--------|------------|-----------|-------|------------|----------------|------------------|------|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 10.vi | 0 | 17.90 | 19.67 | 25.72 | 5.15 | 93 | 8.21 | 7-7-0 | 12 |
| | 10 | 17.90 | 19.64 | 25.68 | 5.21 | 94 | 8.29 | 7-3-2 | 4 |
| | 20 | 17.90 | 19.65 | 25.70 | 5.15 | 93 | 8.29 | 8-5-0 | 21 |
| | 30 | 17.90 | 19.65 | 25.70 | 5.10 | 92 | 8.26 | 8-0-0 | 4 |
| | 40 | 17.90 | 19.64 | 25.68 | 5.03 | 91 | 8.19 | 4-2-0 | 2 |
| | 50 | 17.90 | 19.62 | 25.65 | 5.10 | 92 | 8.03 | 5-2-5 | 2 |
| 19.vi | 0 | 17.90 | 19.69 | 25.75 | | | 8.00 | 0-0-0 | 1 |
| | 10 | 17.90 | 19.70 | 25.76 | | | 8.18 | 0-0-10 | 7 |
| | 20 | 17.90 | 19.68 | 25.73 | | | 8.18 | 1-7-0 | 19 |
| | 30 | 17.90 | 19.70 | 25.76 | | | 8.20 | 0-0-0 | 11 |
| | 40 | 17.80 | 19.67 | 25.75 | | | 8.20 | 0-0-8 | 0 |
| | 50 | 17.60 | 19.66 | 25.88 | | | 8.20 | 2-6-2 | 0 |
| 30.vi | 0 | 17.20 | 19.64 | 25.85 | 5.64 | 101 | 8.21 | 7-5-6 | 16 |
| | 10 | 17.50 | 19.66 | 25.81 | 5.64 | 101 | 8.21 | 7-10-0 | 28 |
| | 20 | 17.50 | 19.66 | 25.81 | 5.51 | 99 | 8.21 | 8-3-0 | 29 |
| | 30 | 17.50 | 19.66 | 25.81 | 5.75 | 103 | 8.17 | 8-8-2 | 31 |
| | 40 | 17.40 | 19.64 | 25.80 | 5.64 | 101 | 8.16 | 8-17-0 | 33 |
| | 50 | 17.40 | 19.66 | 25.83 | 5.51 | 99 | 8.09 | 8-11-0 | 38 |
| 6.vii | 0 | 17.30 | | | 5.51 | | 8.30 | 4-7-5 | 91 |
| | 10 | 17.20 | | | 5.51 | | 8.29 | 5-3-0 | 63 |
| | 20 | 17.20 | | | 5.39 | | 8.29 | 3-7-0 | 97 |
| | 30 | 17.10 | | | 5.55 | | 8.26 | 5-10-0 | 113 |
| | 40 | 16.90 | | | 5.39 | | 8.24 | 6-11-1 | 59 |
| | 50 | 16.90 | | | 5.45 | | 8.16 | 9-2-0 | 96 |
| 15.vii | 0 | 16.80 | 19.65 | 25.96 | 5.39 | 96 | 8.19 | 4-10-1 | 67 |
| | 10 | 17.00 | 19.68 | 25.95 | 5.42 | 96 | 8.18 | 4-11-0 | 62 |
| | 20 | 17.00 | 19.65 | 25.92 | 5.45 | 97 | 8.16 | 6-7-0 | 61 |
| | 30 | 16.90 | 19.65 | 25.94 | 5.39 | 96 | 8.16 | 6-15-0 | 42 |
| | 40 | 17.00 | 19.66 | 25.93 | 5.36 | 95 | 8.11 | 6-12-2 | 36 |
| | 50 | 16.60 | 19.65 | 26.01 | 5.36 | 95 | 8.00 | 10-6-2 | 48 |

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 |
|---------|------------|-----------|-------|------------|----------------|------------------|------|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 31.vii | 0 | 15.70 | | | 5.36 | | 8.21 | 11-34 | 42 |
| | 10 | 15.60 | 19.64 | 26.22 | 5.28 | 92 | 8.21 | 11-15 | 42 |
| | 20 | 15.40 | 19.64 | 26.27 | 5.28 | 91 | 8.18 | 12-33 | 44 |
| | 30 | 15.00 | | | 4.66 | | 8.13 | 17-29 | 86 |
| | 40 | 14.90 | 19.60 | 26.33 | 4.66 | 80 | 8.13 | 17-66 | 84 |
| | 50 | 14.80 | | | 4.59 | | 8.13 | 18-37 | 92 |
| 28.viii | 0 | 16.00 | 19.61 | 26.10 | 5.30 | 93 | 8.23 | 2-16-0 | 0 |
| | 10 | 16.00 | 19.61 | 26.10 | 5.56 | 97 | 8.23 | 5-40-2 | 21 |
| | 20 | 16.00 | 19.61 | 26.10 | 5.71 | 100 | 8.22 | 3-43-0 | 44 |
| | 30 | 16.00 | 19.61 | 26.09 | 5.60 | 98 | 8.22 | 3-47-0 | 37 |
| | 40 | 15.70 | 19.60 | 26.15 | 5.66 | 98 | 8.22 | 3-47-0 | 48 |
| | 50 | 15.80 | 19.61 | 26.14 | 5.71 | 99 | 8.17 | 5-47-0 | 45 |
| 2.ix | 0 | 15.90 | 19.63 | 26.14 | 5.42 | 95 | 8.21 | 4-12-0 | 24 |
| | 10 | 15.90 | 19.62 | 26.12 | 5.42 | 95 | 8.21 | 6-8-0 | 4 |
| | 20 | 15.90 | 19.61 | 26.11 | 5.30 | 92 | 8.24 | 6-10-0 | 17 |
| | 30 | 15.80 | 19.88 | 26.51 | 5.30 | 93 | 8.13 | 12-27 | 99 |
| | 40 | 14.80 | 19.73 | 26.52 | 4.75 | 81 | 8.14 | 16-9-0 | 112 |
| | 50 | 14.50 | 19.69 | 26.54 | 4.52 | 77 | 8.15 | 9-17-0 | 14 |
| 8.ix | 0 | 16.30 | 19.66 | 26.09 | 5.39 | 95 | 8.23 | 7-3 | 3 |
| | 10 | 15.90 | 19.65 | 26.17 | 5.70 | 99 | 8.24 | 9-4 | 3 |
| | 20 | 15.50 | 19.66 | 26.27 | 5.57 | 97 | 8.22 | 9 | 8 |
| | 30 | 15.40 | 19.61 | 26.33 | 5.10 | 88 | 8.20 | 10-0-0 | 8 |
| | 40 | 15.10 | 19.61 | 26.29 | 5.05 | 87 | 8.18 | 12-0-0 | 36 |
| | 50 | 15.00 | 19.61 | 26.31 | 5.15 | 88 | 8.17 | 10-1-2 | 38 |
| 17.ix | 0 | 16.30 | 19.66 | 26.09 | 6.45 | 113 | 8.26 | 3-0-9 | 35 |
| | 10 | 16.20 | | | 6.21 | | 8.26 | 3 | |
| | 20 | | 19.67 | | 5.58 | | 8.22 | 3 | 42 |
| | 30 | 16.20 | 19.62 | 26.05 | 5.13 | 90 | 8.14 | 9-0-17 | 63 |
| | 40 | | 19.59 | | 4.57 | | 8.17 | 10-4-0 | 81 |
| | 50 | 16.00 | 19.66 | 26.16 | 5.84 | 102 | 8.25 | 15 | 12 |

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 |
|-------|------------|-----------|-------|------------|----------------|------------------|------|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 1.x | 0 | 16.30 | 19.64 | 26.06 | 5.40 | 95 | 8.24 | 5-13-0 | 2 |
| | 10 | 15.70 | 19.62 | 26.17 | 5.21 | 91 | 8.22 | 7-24 | 34 |
| | 20 | 15.60 | 19.61 | 26.18 | 5.21 | 90 | 8.18 | 9-14-4 | 54 |
| | 30 | 14.70 | 19.57 | 26.33 | 4.92 | 84 | 8.16 | 15-13 | 131 |
| | 40 | 14.20 | 19.56 | 26.42 | 4.78 | 81 | 8.17 | 20-0-2 | 158 |
| | 50 | 13.80 | 19.55 | 26.49 | 4.49 | 76 | 8.12 | 23-14 | 103 |
| 6.x | 0 | 16.00 | 19.58 | 26.06 | 5.46 | 95 | 8.20 | 8-12-0 | 69 |
| | 10 | 15.30 | 19.58 | 26.22 | 5.15 | 89 | 8.20 | 12-9-2 | 75 |
| | 20 | 14.60 | 19.56 | 26.34 | 4.99 | 85 | 8.16 | 16-10 | 43 |
| | 30 | 14.00 | 19.55 | 26.45 | 4.84 | 82 | 8.20 | 20-0-8 | 99 |
| | 40 | 13.90 | 19.56 | 26.49 | 4.86 | 82 | 8.20 | 21-4-0 | 125 |
| | 50 | 13.60 | 19.56 | 26.55 | 4.84 | 81 | 8.20 | 21-10 | 111 |
| 28.x | 0 | 18.30 | 19.58 | 25.51 | 5.77 | 105 | 8.19 | 0-17-2 | 11 |
| | 10 | 17.60 | 19.61 | 25.71 | 5.77 | 104 | 8.19 | 0-15-1 | 12 |
| | 20 | 17.10 | 19.57 | 25.78 | 5.30 | 94 | 8.08 | 10-17 | 52 |
| | 30 | 16.80 | 19.55 | 25.82 | 4.78 | 85 | 8.08 | 15-15 | 78 |
| | 40 | 16.40 | 19.53 | 25.88 | 4.35 | 76 | 8.09 | 19-13 | 146 |
| | 50 | 16.30 | 19.58 | 25.99 | 4.49 | 79 | 8.09 | 19-17 | 152 |
| 10.xi | 0 | 17.80 | 19.68 | 25.76 | 5.57 | 101 | 8.11 | 4-14-1 | 6 |
| | 10 | 17.50 | 19.67 | 25.82 | 5.63 | 101 | 8.27 | 4-9-13 | 6 |
| | 20 | 17.50 | 19.67 | 25.82 | 5.57 | 100 | 8.19 | 5-21-0 | 0 |
| | 30 | 17.40 | 19.65 | 25.82 | 5.63 | 104 | 8.20 | 4-12-0 | 2 |
| | 40 | 17.50 | 19.64 | 25.78 | 5.57 | 100 | 8.19 | 4 | 0 |
| | 50 | 17.10 | 19.66 | 25.90 | 4.81 | 86 | 8.15 | 4-0-27 | 5 |
| 3.xii | 0 | 19.00 | 19.61 | 25.36 | 5.70 | 105 | | 7-18-5 | 1 |
| | 10 | 18.80 | 19.59 | 25.39 | 5.57 | 102 | | 6-16-0 | 39 |
| | 20 | 18.70 | 19.62 | 25.45 | 5.27 | 97 | | 12-19 | 29 |
| | 30 | 15.80 | 19.59 | 26.11 | 4.53 | 79 | | 27-19 | 27 |
| | 40 | 15.10 | 19.56 | 26.23 | 4.58 | 79 | | 25-13 | 64 |
| | 50 | 14.50 | 19.56 | 26.36 | 4.46 | 76 | | 25-17 | 62 |

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 |
|--------|------------|-----------|-------|------------|----------------|------------------|------|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 9.xii | 0 | 18.20 | 19.61 | 25.56 | 5.58 | 101 | | 14-13 | 30 |
| | 10 | 18.00 | 19.60 | 25.60 | 5.65 | 102 | | 16-19 | 31 |
| | 20 | 17.30 | 19.60 | 25.77 | 5.40 | 97 | | 14-12 | 36 |
| | 30 | 15.20 | 19.56 | 26.21 | 4.69 | 81 | | 23-8-7 | 39 |
| | 40 | 14.50 | 19.56 | 26.36 | 4.51 | 77 | | 25-26 | 80 |
| | 50 | 13.70 | 19.51 | 26.45 | 4.69 | 79 | | 24-18 | 141 |
| 30.xii | 0 | 19.90 | 19.68 | 25.22 | 5.48 | 102 | 8.17 | 5-6-0 | 6 |
| | 10 | 19.30 | 19.67 | 25.37 | 5.37 | 100 | 8.17 | 5-5-0 | 0 |
| | 20 | 18.70 | 19.65 | 25.50 | 5.48 | 101 | 8.20 | 6-4-0 | 18 |
| | 30 | 17.90 | 19.62 | 25.65 | 5.25 | 95 | 8.13 | 9-17-0 | 33 |
| | 40 | 16.70 | 19.60 | 25.92 | 4.79 | 85 | 8.10 | 14-8-0 | 41 |
| | 50 | 16.50 | 19.63 | 26.00 | 4.79 | 84 | 7.97 | 14-11 | 44 |

Station: PORT HACKING

Latitude: 34°05'30" S.

Longitude: 151°15'30" E.

| Date | Depth (m.) | Temp. °C. | Cl ‰ | σ_t | O ₂ | O ₂ ‰ | pH | PO ₄ -P | NO ₃ -N |
|-------|------------|-----------|-------|------------|----------------|------------------|------|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 19.v | 0 | 21.10 | 19.52 | 24.69 | 5.00 | 95 | 8.22 | 7-0-0 | |
| | 10 | 21.10 | 19.54 | 24.71 | 5.08 | 97 | 8.21 | 7-0-0 | |
| | 20 | 20.80 | 19.62 | 24.90 | 4.56 | 86 | 8.20 | 10-0-3 | |
| | 30 | 20.50 | 19.66 | 25.04 | 5.19 | 98 | 8.23 | 7-0-0 | |
| | 40 | 20.20 | 19.70 | 25.09 | 5.16 | 97 | 8.20 | 8-0-0 | |
| | 50 | 20.20 | 19.72 | 25.20 | 5.08 | 95 | 8.20 | 7-0-0 | |
| 1.vi | 0 | 18.60 | 19.62 | 25.47 | 5.39 | 99 | 8.23 | 8 | 0 |
| | 10 | 18.60 | 19.58 | 25.43 | 5.42 | 99 | 8.24 | 8 | 1 |
| | 20 | 18.70 | 19.63 | 25.47 | 5.56 | 102 | 8.23 | 9 | 0 |
| | 30 | 18.80 | 19.63 | 25.44 | 5.34 | 98 | 8.19 | 8 | 17 |
| | 40 | 18.80 | 19.62 | 25.42 | 5.20 | 96 | 8.19 | 9 | 0 |
| | 50 | 18.80 | 19.62 | 25.42 | 5.33 | 98 | 8.14 | 11 | 0 |
| | 75 | 17.10 | 19.64 | 25.87 | 4.88 | 87 | 8.17 | 15 | 44 |
| | 100 | 16.20 | 19.69 | 26.16 | 4.42 | 78 | 8.15 | 19 | 93 |
| 10.vi | 0 | 17.90 | 19.57 | 25.58 | 5.15 | 93 | 8.38 | 7-12-0 | 0 |
| | 10 | 17.80 | 19.56 | 25.60 | 5.10 | 92 | 8.38 | 8-10-0 | 0 |
| | 20 | 18.00 | 19.59 | 25.59 | 5.15 | 93 | 8.38 | 8-10-0 | 3 |
| | 30 | 17.90 | 19.59 | 25.61 | 5.10 | 92 | 8.38 | 8-9-0 | 0 |
| | 40 | 18.00 | 19.63 | 25.64 | 5.21 | 95 | 8.38 | 8-9-0 | 19 |
| | 50 | 17.80 | 19.62 | 25.67 | 5.03 | 91 | 8.34 | 7-9-0 | 4 |
| | 75 | 17.90 | 19.62 | 25.65 | 4.79 | 87 | 8.32 | 10-6-0 | 19 |
| | 100 | 16.80 | 19.60 | 25.89 | 4.49 | 80 | 8.30 | 13-7-1 | 39 |
| 19.vi | 0 | | 19.64 | | | | 8.24 | 7-10-0 | 10 |
| | 10 | | 19.68 | | | | 8.23 | 0-14-0 | 14 |
| | 20 | 17.90 | 19.67 | 25.72 | | | 8.22 | 1-16-0 | 10 |
| | 30 | 17.90 | 19.64 | 25.68 | | | 8.22 | 0-11-0 | 9 |
| | 40 | 18.00 | 19.69 | 25.73 | | | 8.22 | 0-14-0 | 0 |
| | 50 | 18.00 | 19.68 | 25.71 | | | 8.22 | 0-16-0 | 10 |
| | 75 | 16.80 | 19.68 | 26.00 | | | 8.23 | 3-11-0 | 4 |
| | 100 | 16.40 | 19.62 | 26.01 | | | 8.14 | 7-13-0 | 30 |

Station: PORT HACKING

Latitude: 34°05'30" S.

Longitude: 151°15'30" E.

| Date | Depth (m.) | Temp. °C. | Cl ‰ | σ_t | O ₂ | O ₂ ‰ | pH | PO ₄ -P | NO ₃ -N |
|---------------|------------|-----------|-------|------------|----------------|------------------|------|--------------------|--------------------|
| 1953 30.vi | 0 | 17.50 | 19.65 | 25.80 | 5.58 | 100 | 8.21 | 8-3-27 | 29 |
| | 10 | 17.60 | 19.65 | 25.77 | 5.56 | 100 | 8.21 | 8-4-0 | 51 |
| | 20 | 17.60 | 19.65 | 25.77 | 5.52 | 99 | 8.21 | 8-0-0 | 34 |
| | 30 | 17.60 | 19.65 | 25.77 | 5.58 | 101 | 8.21 | 7-7-0 | 33 |
| | 40 | 17.60 | 19.64 | 25.75 | 5.52 | 99 | 8.21 | 10-4-0 | 19 |
| | 50 | 17.60 | 19.64 | 25.75 | 5.52 | 99 | 8.21 | 8-10-0 | 32 |
| | 75 | 16.80 | 19.64 | 25.74 | 5.16 | 92 | 8.20 | 14-4-0 | 64 |
| | 100 | 16.20 | 19.65 | 26.11 | 5.56 | 98 | 8.16 | 9-5-0 | 33 |
| 6.vii | 0 | 17.20 | 19.66 | 25.88 | 5.55 | 99 | 8.30 | 4-9-13 | 37 |
| | 10 | 17.20 | 19.63 | 25.84 | 5.51 | 98 | 8.28 | 4-17-0 | 60 |
| | 20 | 17.20 | 19.60 | 25.80 | 5.49 | 98 | 8.28 | 3-11-0 | 56 |
| | 30 | 17.10 | 19.59 | 25.81 | 5.45 | 97 | 8.28 | 6-8-2 | 24 |
| | 40 | 17.00 | | | 5.36 | | 8.28 | 6-10-2 | 73 |
| | 50 | 17.00 | | | 5.49 | | 8.28 | 6-10-3 | 59 |
| | 75 | 16.80 | | | 5.29 | | 8.28 | 6-11-2 | 81 |
| | 100 | 16.90 | | | 5.63 | | 8.29 | 4-15-0 | 73 |
| 15.vii | 0 | 16.80 | 19.65 | 25.96 | 5.45 | 90 | 8.23 | 5-16-0 | 47 |
| | 10 | 17.00 | 19.68 | 25.95 | 5.42 | 96 | 8.22 | 5-11-0 | 45 |
| | 20 | 17.00 | 19.68 | 25.95 | 5.45 | 97 | 8.19 | 6-5-3 | 45 |
| | 30 | 17.00 | 19.66 | 25.93 | 5.31 | 94 | 8.19 | 4-9-4 | 47 |
| | 40 | 17.00 | 19.65 | 25.92 | 5.36 | 95 | 8.19 | 3-11-4 | 59 |
| | 50 | 17.00 | 19.62 | 25.92 | 5.39 | 96 | 8.19 | 4-12-1 | 67 |
| | 75 | 16.80 | 19.63 | 25.93 | 5.11 | 91 | 8.16 | 10-7-0 | 85 |
| | 100 | 15.20 | 19.63 | 26.30 | 4.67 | 81 | 8.15 | 14-0-0 | 147 |
| 3.viii | 0 | 16.70 | 19.71 | 26.07 | 5.64 | 100 | 8.23 | 6-2-0 | |
| | 10 | 16.60 | 19.69 | 25.83 | 5.79 | 102 | 8.23 | 7-4-1 | |
| | 20 | 16.60 | 19.68 | 25.81 | 5.71 | 101 | 8.24 | 9-1-11 | |
| | 30 | 16.50 | 19.67 | 26.06 | 5.64 | 99 | 8.19 | 9-5-0 | |
| | 40 | 15.90 | 19.64 | 26.15 | 5.42 | 95 | 8.21 | 12-12 | |
| | 50 | 15.20 | 19.62 | 26.28 | 4.96 | 86 | 8.17 | 17-7-0 | |
| | 75 | 15.10 | 19.60 | 26.28 | 4.96 | 85 | 8.17 | 18-7-0 | |
| | 100 | 15.00 | 19.61 | 26.31 | 4.80 | 82 | 8.20 | 14-9-4 | |

Station: PORT HACKING

Latitude: 34°05'30" S.

Longitude: 151°15'30" E.

| Date | Depth (m.) | Temp. °C. | Cl ‰ | σ _t | O ₂ | O ₂ ‰ | pH | PO ₄ -P | NO ₃ -N |
|-------|------------|-----------|-------|----------------|----------------|------------------|------|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 4.ix | 0 | 16.00 | 19.61 | 26.09 | 5.57 | 97 | 8.28 | 16-0-0 | 34 |
| | 10 | 16.00 | 19.67 | 26.18 | 5.57 | 97 | 8.26 | 13-0-0 | 39 |
| | 20 | 16.00 | 19.66 | 26.16 | 5.46 | 95 | 8.26 | 11-0-0 | 23 |
| | 30 | 16.00 | 19.66 | 26.16 | 5.58 | 98 | 8.23 | 17-0-6 | 0 |
| | 40 | 15.60 | 19.65 | 26.24 | 5.25 | 91 | 8.21 | 24-0-0 | 29 |
| | 50 | 15.50 | 19.62 | 26.21 | 5.25 | 91 | 8.18 | 22-0-0 | 36 |
| | 75 | 13.40 | 19.57 | 26.60 | 4.86 | 81 | 8.17 | 22-0-0 | 69 |
| | 100 | 13.40 | 19.52 | 26.54 | 4.86 | 81 | 8.17 | 21-0-5 | 65 |
| 8.ix | 0 | 16.20 | 19.65 | 26.10 | 5.64 | 99 | 8.17 | 10-23 | 21 |
| | 10 | 16.00 | 19.65 | 26.15 | 5.93 | 104 | 8.24 | 7-9-2 | 26 |
| | 20 | 15.80 | 19.64 | 26.18 | 5.57 | 97 | 8.19 | 7-0-6 | 0 |
| | 30 | 15.60 | 19.62 | 26.19 | 5.57 | 97 | 8.19 | 9-20-0 | 50 |
| | 40 | 15.20 | 19.59 | 26.25 | 5.39 | 93 | 8.18 | 10-4-4 | 43 |
| | 50 | 14.40 | 19.59 | 26.42 | 5.39 | 92 | 8.17 | 10-10 | 48 |
| | 75 | 14.40 | 19.58 | 26.41 | 4.99 | 85 | 8.12 | 17-27 | 76 |
| | 100 | 14.00 | 19.54 | 26.44 | 4.99 | 84 | 7.97 | 20-7-0 | 67 |
| 17.ix | 0 | 16.40 | 19.59 | 25.97 | 6.06 | 107 | 8.26 | 5 | 0 |
| | 10 | 16.00 | 19.59 | 26.07 | 6.01 | 105 | 8.24 | 4 | 8 |
| | 20 | 16.40 | 19.61 | 26.00 | 6.17 | 108 | 8.26 | 6 | 27 |
| | 30 | 15.80 | 19.61 | 26.14 | 6.09 | 106 | 8.26 | 4 | 18 |
| | 40 | 15.20 | 19.60 | 26.26 | 4.72 | 81 | 8.18 | 10 | 33 |
| | 50 | 15.00 | 19.58 | 26.28 | 4.86 | 84 | 8.16 | 13 | 87 |
| | 75 | 13.80 | 19.50 | 26.42 | 4.54 | 76 | 8.16 | 15-17 | 102 |
| | 100 | 13.50 | 19.49 | 26.47 | 4.60 | 77 | 8.02 | 17-0-0 | 91 |
| 6.x | 0 | 17.40 | 19.63 | 25.79 | 5.71 | 102 | 8.23 | 4-10-4 | 9 |
| | 10 | 17.00 | 19.63 | 25.89 | 5.80 | 103 | 8.23 | 6-6-0 | 15 |
| | 20 | 17.00 | 19.63 | 25.89 | 5.85 | 104 | 8.23 | 2-8-1 | 15 |
| | 30 | 16.70 | 19.63 | 25.96 | 5.56 | 98 | 8.24 | 4-11-0 | 10 |
| | 40 | 15.40 | 19.56 | 26.16 | 4.86 | 84 | 8.12 | 10-8-0 | 74 |
| | 50 | 14.60 | 19.55 | 26.32 | 4.86 | 83 | 8.20 | 14-8-6 | 52 |
| | 75 | 13.20 | 19.48 | 26.52 | 4.82 | 80 | 8.17 | 20-16 | 190 |
| | 100 | 12.90 | 19.49 | 26.60 | 4.69 | 78 | 8.08 | 22-4-0 | 190 |

Station: PORT HACKING

Latitude: 34°05'30" S.

Longitude: 151°15'30" E.

| Date | Depth (m.) | Temp. °C. | Cl ‰ | σ _t | O ₂ | O ₂ % | pH | PO ₄ -P | NO ₃ -N |
|--------|------------|-----------|-------|----------------|----------------|------------------|------|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 28.x | 0 | 18.80 | 19.66 | 25.48 | 5.90 | 108 | 8.23 | 0-12-2 | 3 |
| | 10 | 18.50 | 19.65 | 25.55 | 5.90 | 108 | 8.23 | 0-14-7 | 6 |
| | 20 | 18.10 | 19.63 | 25.62 | 5.96 | 108 | 8.21 | 0-15-4 | 36 |
| | 30 | 18.00 | 19.59 | 25.59 | 5.83 | 106 | 8.13 | 7-17-3 | 8 |
| | 40 | 16.70 | 19.61 | 25.93 | 4.69 | 83 | 8.08 | 14-16 | 51 |
| | 50 | 16.70 | 19.53 | 25.81 | 4.38 | 77 | 8.08 | 17-15 | 145 |
| | 75 | 16.70 | 19.51 | 25.79 | 4.52 | 80 | 8.06 | 20-14 | 145 |
| | 100 | 16.70 | 19.50 | 25.78 | 4.44 | 78 | 8.09 | 20-16 | 170 |
| | 10.xi | 0 | 17.40 | 19.67 | 25.84 | 5.70 | 102 | | 3-42-0 |
| 10 | | 17.40 | 19.69 | 25.87 | 5.77 | 103 | | 4-14 | 4 |
| 20 | | 17.60 | 19.69 | 25.83 | 5.70 | 103 | | 4-21-0 | 0 |
| 30 | | 17.40 | 19.68 | 25.85 | 5.70 | 102 | 8.10 | 6-19-0 | 6 |
| 40 | | 17.40 | 19.69 | 25.87 | 5.57 | 100 | 8.10 | 4-14-5 | 4 |
| 50 | | 17.40 | 19.67 | 25.84 | 5.52 | 99 | 3.08 | 3-13 | 13 |
| 75 | | 15.30 | 19.59 | 26.23 | 4.87 | 84 | 8.04 | 13-13 | 74 |
| 100 | | 14.10 | 19.55 | 26.43 | 4.48 | 76 | 7.98 | 17-43 | 138 |
| 9.xii | | 0 | 19.50 | 19.65 | 25.29 | 5.51 | 102 | | 9-34 |
| | 10 | 19.40 | 19.64 | 25.30 | 5.57 | 103 | | 9-23-7 | 25 |
| | 20 | 18.10 | 19.64 | 25.63 | 5.22 | 95 | | 22-3-0 | 35 |
| | 30 | 17.70 | 19.61 | 25.69 | 5.18 | 93 | | 20-18 | 54 |
| | 40 | 16.30 | 19.61 | 26.02 | 4.75 | 83 | | 23-31 | 59 |
| | 50 | 15.60 | 19.63 | 26.21 | 4.70 | 82 | | 23-21 | 67 |
| 30.xii | 0 | 19.70 | 19.67 | 25.27 | 5.55 | 103 | 8.19 | 5-0-0 | 0 |
| | 10 | 19.30 | 19.66 | 25.35 | 5.55 | 103 | 8.20 | 5-0-0 | 0 |
| | 20 | 18.90 | 19.67 | 25.47 | 5.55 | 102 | 8.20 | 9-5-0 | 0 |
| | 30 | 17.70 | 19.62 | 25.70 | 5.70 | 103 | 8.22 | 9-1-0 | 7 |
| | 40 | 17.10 | 19.60 | 25.82 | 4.96 | 88 | 8.18 | 9-2-4 | 32 |
| | 50 | 16.50 | 19.65 | 26.03 | 4.79 | 84 | 8.16 | 9-7-0 | 22 |

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 |
|-------|------------|-----------|-------|----------------|----------------|------------------|------|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 6.i | 0 | 18.20 | 19.59 | 25.54 | 5.91 | 107 | 8.15 | 2-3 | 7 |
| | 10 | 18.10 | 19.59 | 25.57 | 5.83 | 106 | 8.13 | 3-0 | 5 |
| | 20 | 17.90 | 19.56 | 25.57 | 5.70 | 103 | 8.09 | 3-6 | 24 |
| | 30 | 15.80 | 19.52 | 26.02 | 5.19 | 90 | 8.06 | 12-0 | 90 |
| | 40 | 13.80 | 19.52 | 26.45 | 4.92 | 83 | 8.06 | 12-3 | 100 |
| | 50 | 13.50 | 19.48 | 26.45 | 4.92 | 82 | 8.12 | 16-0 | 186 |
| 13.ii | 0 | 20.60 | 19.68 | 25.04 | 5.49 | 104 | 8.22 | 3-0 | 0 |
| | 10 | 20.60 | 19.67 | 25.03 | 5.42 | 102 | 8.22 | 2-2 | 0 |
| | 20 | 20.40 | 19.65 | 25.06 | 5.42 | 102 | 8.20 | 2-1 | 0 |
| | 30 | 20.10 | 19.69 | 25.19 | 5.52 | 104 | 8.21 | 2-2 | 7 |
| | 40 | 19.30 | 19.61 | 25.28 | 5.65 | 107 | 8.20 | 3-3 | 2 |
| | 50 | 19.00 | 19.61 | 25.36 | 5.58 | 103 | 8.21 | 3-6 | 2 |
| 9.iii | 0 | 21.10 | 19.60 | 24.80 | 5.48 | 104 | 8.20 | 3-2 | 0 |
| | 10 | 21.00 | 19.67 | 24.92 | | | 8.17 | 6-0 | 0 |
| | 20 | 20.80 | 19.67 | 24.97 | 5.91 | 112 | 8.17 | 4-0 | 6 |
| | 30 | 20.50 | 19.70 | 25.09 | 5.55 | 105 | 8.18 | 3-0 | 4 |
| | 40 | 19.70 | 19.62 | 25.19 | 5.48 | 102 | 8.17 | 6-0 | 4 |
| | 50 | 19.50 | 19.65 | 25.29 | 5.55 | 103 | 8.18 | 6-0 | 4 |
| 9.iv | 0 | 20.80 | 19.64 | 24.93 | 5.27 | 100 | 8.19 | 5-3 | |
| | 10 | 20.80 | 19.67 | 24.97 | 5.31 | 101 | 8.17 | 4-4 | |
| | 20 | 20.70 | 19.70 | 25.04 | 5.33 | 101 | 8.20 | 5-4 | |
| | 30 | 20.20 | 19.68 | 25.14 | 5.25 | 98 | 8.17 | 6-3 | |
| | 40 | 19.60 | 19.68 | 25.30 | 5.20 | 97 | 8.15 | 6-9 | |
| | 50 | 18.80 | 19.67 | 25.50 | 4.93 | 91 | 8.13 | 11-2 | |
| 16.v | 0 | 18.50 | 19.43 | 25.25 | 5.36 | 98 | 8.20 | 7-3 | |
| | 10 | 18.50 | 19.45 | 25.28 | 5.33 | 97 | 8.20 | 5-4 | |
| | 20 | 18.50 | 19.47 | 25.30 | 5.38 | 98 | 8.20 | 5-8 | |
| | 30 | 18.60 | 19.47 | 25.28 | 5.33 | 97 | 8.20 | 3-12 | |
| | 40 | 18.60 | 19.50 | 25.32 | 5.27 | 96 | 8.20 | 5-16 | |
| | 50 | 18.90 | 19.57 | 25.33 | 5.16 | 95 | 8.17 | 5-7 | |

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 |
|--------|------------|-----------|--------|------------|----------------|------------------|------|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 15.vii | 0 | 15.40 | 19.63 | 26.26 | 5.48 | 95 | 8.19 | 5-6 | 49 |
| | 10 | 15.40 | 19.66 | 26.30 | 5.55 | 96 | 8.18 | 6-3 | 27 |
| | 20 | 15.40 | 19.65 | 26.29 | 5.61 | 97 | 8.16 | 4-7 | 58 |
| | 30 | 14.80 | 19.65 | 26.42 | 5.39 | 92 | 8.12 | 9-2 | 64 |
| | 40 | 14.10 | 19.64 | 26.55 | 5.55 | 94 | 8.08 | 10-3 | 75 |
| | 50 | 14.10 | 19.67 | 26.60 | 5.33 | 90 | 8.03 | 10-2 | 81 |
| 5.viii | 0 | 14.60 | 19.63 | 26.43 | 5.97 | 102 | 8.14 | 4 | |
| | 10 | 14.60 | 19.70 | 26.53 | 5.60 | 96 | 8.12 | 5-8 | |
| | 20 | 14.40 | 19.65 | 26.51 | 5.97 | 102 | 8.12 | 6-0 | |
| | 30 | 14.20 | 19.61 | 26.49 | 5.83 | 99 | 8.12 | 3-10 | |
| | 40 | 13.80 | 19.69 | 26.69 | 5.60 | 94 | 8.12 | 4-12 | |
| | 50 | 13.60 | 19.64 | 26.66 | 5.56 | 93 | 8.09 | 6-1 | |
| 8.ix | 0 | 15.20 | 19.62 | 26.28 | 5.87 | 101 | 8.13 | 0-15 | 41 |
| | 10 | 14.60 | 19.63 | 26.43 | 5.84 | 100 | 8.14 | 6-12 | 58 |
| | 20 | 14.50 | 19.62 | 26.43 | 5.78 | 100 | 8.14 | 7-9 | 26 |
| | 30 | 14.40 | 19.64 | 26.49 | 5.73 | 97 | 8.14 | 7-44 | 47 |
| | 40 | 13.80 | 19.60 | 26.56 | 5.50 | 93 | 8.15 | 9-19 | 77 |
| | 50 | 13.10 | 19.55 | 26.63 | 5.19 | 86 | 8.15 | 9-12 | 37 |
| 14.x | 0 | 15.60 | 19.61 | 26.18 | 5.91 | 103 | 8.15 | 8-14 | 3 |
| | 10 | 15.50 | 19.61 | 26.20 | 5.86 | 101 | 8.15 | 9-6 | 4 |
| | 20 | 15.50 | 19.59 | 26.18 | 6.02 | 104 | 8.18 | 8-7 | 4 |
| | 30 | 15.40 | 19.61 | 26.23 | 6.02 | 104 | 8.18 | 8-7 | 4 |
| | 40 | 15.40 | 19.62 | 26.24 | 5.79 | 100 | 8.18 | 7-8 | 5 |
| | 50 | 15.30 | 19.62 | 26.26 | 5.81 | 100 | 8.15 | 9-8 | 4 |
| 11.xi | 0 | 17.10 | 19.66 | 25.90 | 5.61 | 100 | 7.85 | 0-17 | 0 |
| | 10 | 17.10 | 19.63 | 25.86 | 5.67 | 101 | 7.65 | 0-16 | 4 |
| | 20 | 16.00 | 19.59 | 26.07 | 5.86 | 102 | 7.23 | 2-15 | 0 |
| | 30 | 14.80 | 19.57 | 26.31 | 5.56 | 95 | 8.09 | 7-13 | 8 |
| | 40 | 14.50 | 19.56 | 26.36 | 5.61 | 95 | 8.04 | 11-11 | 23 |
| | 50 | 14.10 | 19.59 | 26.49 | 5.05 | 85 | 7.99 | 16-15 | 55 |

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 |
|-------|------------|-----------|-------|------------|----------------|------------------|----|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 3.xii | 0 | 18.90 | | | | | | 6-18 | 13 |
| | 10 | 18.60 | 19.63 | 25.49 | 5.89 | 108 | | 7-16 | 15 |
| | 20 | 17.80 | 19.65 | 25.72 | 5.83 | 105 | | 9-16 | 14 |
| | 30 | 16.50 | 19.60 | 25.96 | 5.39 | 95 | | 11-14 | 25 |
| | 40 | 15.20 | 19.59 | 26.25 | 5.33 | 92 | | 16-12 | 40 |
| | 50 | 14.40 | 19.57 | 26.39 | 5.23 | 89 | | 18-8 | 50 |

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 |
|--------|------------|-----------|-------|------------|----------------|------------------|------|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 7.i | 0 | 15.90 | 19.53 | 26.00 | 5.80 | 101 | 8.16 | 3-6 | 7 |
| | 10 | 15.90 | 19.53 | 26.00 | 5.80 | 101 | 8.14 | 5-8 | 14 |
| | 20 | 15.40 | 19.53 | 26.11 | 5.56 | 96 | 8.12 | 7-6 | 38 |
| | 30 | 15.40 | 19.58 | 26.19 | 5.56 | 96 | 8.12 | 6-0 | 37 |
| | 40 | 15.30 | 19.64 | 26.29 | 5.42 | 94 | 8.12 | 9-0 | 38 |
| | 50 | 14.80 | 19.59 | 26.34 | 5.19 | 107 | 8.13 | 11-0 | 69 |
| 13.ii | 0 | 17.90 | 19.56 | 25.57 | 5.85 | 106 | 8.20 | 0-5 | 0 |
| | 10 | 17.80 | 19.56 | 25.60 | 5.80 | 105 | 8.20 | 2-3 | 0 |
| | 20 | 17.80 | 19.56 | 25.60 | 5.89 | 106 | 8.19 | 3-2 | 0 |
| | 30 | 17.80 | 19.58 | 25.63 | 5.89 | 106 | 8.19 | 2-5 | 0 |
| | 40 | 17.80 | 19.58 | 25.63 | 5.92 | 107 | 8.18 | 2-1 | 0 |
| | 50 | 17.70 | 19.58 | 25.63 | 6.00 | 108 | 8.16 | 0-4 | 0 |
| 12.iii | 0 | 19.70 | 19.58 | 25.15 | 5.55 | 103 | 8.19 | 5-1 | 2 |
| | 10 | 19.00 | 19.57 | 25.31 | 5.75 | 106 | 8.20 | 8-0 | 4 |
| | 20 | 18.60 | 19.50 | 25.32 | 5.42 | 99 | 8.18 | 6-3 | 6 |
| | 30 | 18.50 | 19.54 | 25.40 | 5.55 | 101 | 8.15 | 9-0 | 13 |
| | 40 | 18.10 | 19.50 | 25.44 | 5.48 | 99 | 8.15 | 6-3 | 35 |
| | 50 | 17.40 | 19.47 | 25.57 | 5.30 | 95 | 8.02 | 14-0 | 45 |
| 9.iv | 0 | 18.80 | 19.67 | 25.50 | 5.45 | 100 | 8.19 | 8-3 | 20 |
| | 10 | 18.80 | 19.70 | 25.54 | 5.52 | 102 | 8.19 | 8-4 | 29 |
| | 20 | 18.80 | 19.70 | 25.59 | 5.39 | 99 | 8.15 | 6-3 | 43 |
| | 30 | 18.10 | 19.61 | 25.59 | | | 8.13 | 8-3 | 39 |
| | 40 | 18.80 | 19.69 | 25.53 | 5.31 | 98 | 8.12 | 8-9 | 33 |
| | 50 | 17.60 | 19.62 | 25.72 | 5.10 | 92 | 8.11 | 16-2 | 46 |
| 15.v | 0 | 18.20 | 18.99 | 24.72 | 5.38 | 97 | 8.13 | 5-12 | |
| | 10 | 18.70 | 19.54 | 25.35 | 5.08 | 93 | 8.13 | 6-7 | |
| | 20 | 18.70 | 19.60 | 25.43 | 5.21 | 96 | 8.13 | 6-4 | |
| | 30 | 18.40 | 19.59 | 25.49 | 4.98 | 91 | 8.11 | 8-6 | |
| | 40 | 17.50 | 19.63 | 25.76 | 4.82 | 87 | 8.09 | 11-12 | |
| | 50 | 17.40 | 19.63 | 25.79 | 4.91 | 88 | 8.10 | 12-5 | |

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 |
|--------|------------|-----------|-------|------------|----------------|------------------|------|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 10.vi | 0 | 14.80 | 19.66 | 26.43 | 5.68 | 97 | 8.17 | 6-8-4 | 0 |
| | 10 | 14.80 | 19.67 | 26.44 | 5.63 | 97 | 8.17 | 7-11-3 | 2 |
| | 20 | 14.80 | 19.68 | 26.45 | 5.63 | 97 | 8.16 | 7-10-0 | 8 |
| | 30 | 14.80 | 19.68 | 26.45 | 5.68 | 97 | 8.17 | 6-13-0 | 1 |
| | 40 | 14.80 | 19.69 | 26.47 | 5.65 | 97 | 8.16 | 7-9-2 | 5 |
| | 50 | 14.80 | 19.65 | 26.42 | 5.68 | 97 | 8.15 | 7-12-0 | 0 |
| 8.vii | 0 | 13.20 | 19.67 | 26.78 | 5.92 | 99 | 8.14 | 8-0 | 10 |
| | 10 | 13.20 | 19.70 | 26.82 | 5.92 | 99 | 8.19 | 7-3 | 11 |
| | 20 | 13.20 | 19.66 | 26.77 | 6.07 | 101 | 8.15 | 6-3 | 11 |
| | 30 | 13.20 | 19.65 | 26.76 | 6.07 | 101 | 8.15 | 7-4 | 6 |
| | 40 | 13.20 | 19.62 | 26.71 | 6.11 | 102 | 8.15 | 7-3 | 10 |
| | 50 | 13.20 | 19.62 | 26.71 | 5.98 | 100 | 8.04 | 7-4 | 7 |
| 7.viii | 0 | 12.40 | 19.56 | 26.79 | 5.98 | 98 | 8.16 | 2-5 | |
| | 10 | 12.60 | 19.56 | 26.75 | 5.98 | 98 | 8.16 | 7-0 | |
| | 20 | 12.70 | 19.58 | 26.76 | 5.83 | 96 | 8.16 | 3-4 | |
| | 30 | 12.60 | 19.59 | 26.79 | 5.93 | 98 | 8.16 | 3-7 | |
| | 40 | 12.60 | 19.61 | 26.82 | 5.93 | 98 | 8.14 | 2-18 | |
| | 50 | 12.50 | 19.61 | 26.84 | 5.77 | 95 | 8.16 | 3-11 | |
| 9.ix | 0 | 13.00 | 19.56 | 26.67 | 6.04 | 100 | 8.12 | 8-7 | 19 |
| | 10 | 13.00 | 19.55 | 26.65 | 5.96 | 99 | 8.13 | 10-3 | 55 |
| | 20 | 13.00 | 19.55 | 26.65 | 6.01 | 100 | 8.13 | 9-4 | 36 |
| | 30 | 12.80 | 19.55 | 26.69 | 5.96 | 98 | 8.15 | 9-4 | 0 |
| | 40 | 12.80 | 19.55 | 26.69 | 5.90 | 97 | 8.13 | 8-11 | 22 |
| | 50 | 12.80 | 19.54 | 26.68 | 5.96 | 98 | 8.13 | 6-9 | 51 |
| 15.x | 0 | 13.40 | 19.60 | 26.65 | 6.43 | 108 | 8.16 | 5-4 | 4 |
| | 10 | 13.40 | 19.61 | 26.66 | 6.17 | 103 | 8.16 | 6-8 | 6 |
| | 20 | 13.20 | 19.62 | 26.71 | 6.32 | 105 | 8.16 | 7-7 | 4 |
| | 30 | 13.20 | 19.60 | 26.69 | 6.35 | 106 | 8.16 | 9-7 | 5 |
| | 40 | 13.20 | 19.58 | 26.66 | 6.02 | 100 | 8.16 | 7-11 | 3 |
| | 50 | 13.20 | 19.59 | 26.67 | 6.28 | 104 | 8.16 | 8-10 | 4 |

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 |
|-------|------------|-----------|-------|----------------|----------------|------------------|----|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 11.xi | 0 | 15.00 | 19.54 | 26.22 | 5.78 | 99 | | 3-18 | 3 |
| | 10 | 14.50 | 19.53 | 26.31 | 5.89 | 100 | | 6-12 | 4 |
| | 20 | 14.30 | 19.53 | 26.35 | 5.86 | 99 | | 3-12 | 16 |
| | 30 | 14.10 | 19.50 | 26.36 | 5.80 | 98 | | 4-15 | 0 |
| | 40 | 14.10 | 19.52 | 26.39 | 5.75 | 97 | | 3-15 | 2 |
| | 50 | 14.00 | 19.49 | 26.37 | 5.72 | 96 | | 3-15 | 12 |
| 2.xii | 0 | 16.10 | 19.57 | 26.01 | 5.95 | 104 | | 7-11 | 15 |
| | 10 | 15.50 | 19.56 | 26.14 | 5.95 | 103 | | 7-8 | 8 |
| | 20 | 15.10 | 19.56 | 26.23 | 6.13 | 105 | | 9-4 | 1 |
| | 30 | 14.90 | 19.56 | 26.27 | 6.00 | 103 | | 8-14 | 9 |
| | 40 | 14.90 | 19.57 | 26.28 | 6.00 | 103 | | 12-12 | 0 |
| | 50 | 14.80 | 19.57 | 26.31 | 6.00 | 103 | | 14-20 | 13 |

Station: PADDOCK

Latitude: 38°47' S.

Longitude: 149°10' E.

| Date | Depth (m.) | Temp. °C. | Cl ‰ | σ_t | O ₂ | O ₂ ‰ | pH | PO ₄ -P | NO ₃ -N |
|---------------|------------|-----------|-------|------------|----------------|------------------|----|--------------------|--------------------|
| 1953 10.vi | 0 | 15.70 | 19.66 | 26.23 | 5.25 | 91 | | | |
| | 20 | 15.60 | 19.64 | 26.22 | 5.02 | 87 | | | |
| | 40 | 15.60 | 19.67 | 26.27 | 5.37 | 93 | | | |
| | 50 | 15.40 | 19.68 | 26.32 | 5.08 | 88 | | | |
| | 75 | 15.50 | 19.67 | 26.29 | 5.42 | 94 | | | |
| | 100 | 15.30 | 19.62 | 26.26 | 5.25 | 91 | | | |
| 29.viii | 0 | 14.10 | 19.61 | 26.51 | 5.08 | 86 | | | |
| | 20 | 14.10 | 19.58 | 26.48 | 4.62 | 78 | | | |
| | 40 | 14.10 | | | 5.11 | | | | |
| | 50 | 14.00 | 19.60 | 26.52 | 5.03 | 85 | | | |
| | 75 | 13.70 | 19.55 | 26.51 | 3.82 | 64 | | | |
| | 100 | 13.60 | 19.56 | 26.55 | 5.45 | 91 | | | |
| | 500 | 8.20 | | | | | | | |

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 |
|---------------|------------|-----------|-------|------------|----------------|------------------|----|--------------------|--------------------|
| 1953 19.ii | 0 | 18.90 | 19.63 | 25.42 | 5.53 | 102 | | 12-0 | 6 |
| | 10 | 18.20 | 19.60 | 25.55 | 5.64 | 103 | | 6-0 | 0 |
| | 20 | 18.20 | 19.62 | 25.57 | 5.45 | 99 | | 5-4 | 0 |
| | 30 | 17.80 | 19.63 | 25.69 | 5.38 | 96 | | 11-0 | 0 |
| | 40 | 15.70 | 19.61 | 26.16 | 5.11 | 89 | | 12-0 | 0 |
| | 50 | 15.80 | 19.60 | 26.13 | 4.86 | 85 | | 17-0 | 0 |
| 17.v | 0 | 15.90 | 19.68 | 26.21 | 5.48 | 96 | | 9-0 | |
| | 10 | 15.80 | 19.67 | 26.22 | 5.42 | 95 | | 8-0 | |
| | 20 | 15.80 | 19.71 | 26.28 | 5.37 | 94 | | 6-0 | |
| | 30 | 15.70 | 19.69 | 26.27 | 5.34 | 93 | | 11-2 | |
| | 40 | 15.80 | 19.69 | 26.25 | 5.45 | 95 | | 9-14 | |
| | 50 | 15.70 | 19.69 | 26.27 | 5.37 | 93 | | 9-0 | |
| 8.vi | 0 | 14.70 | 19.61 | 26.38 | | | | 5-12-0 | 0 |
| | 10 | 14.70 | 19.61 | 26.38 | | | | 2-10-0 | 0 |
| | 20 | 14.70 | 19.62 | 26.39 | | | | 0-12-0 | 6 |
| | 30 | 14.60 | 19.60 | 26.39 | | | | 0 | 6 |
| | 40 | 14.70 | 19.64 | 26.42 | | | | 0 | 9 |
| | 50 | 14.60 | 19.67 | 26.49 | | | | 4 | 4 |
| 15.viii | 0 | 12.60 | 19.75 | 27.01 | 5.56 | 92 | | 3-13 | 28 |
| | 10 | 12.50 | 19.76 | 27.05 | 5.56 | 91 | | 2-11 | 31 |
| | 20 | 12.60 | 19.76 | 27.03 | 5.93 | 98 | | 3-8 | 35 |
| | 30 | 12.60 | 19.76 | 27.03 | 5.82 | 96 | | 5-8 | 23 |
| | 40 | 12.60 | 19.74 | 27.00 | 5.71 | 94 | | 1-8 | 18 |
| | 50 | 12.50 | 19.74 | 27.02 | 5.06 | 83 | | 0-10 | 34 |
| 12.ix | 0 | 12.40 | 19.69 | 26.97 | 6.00 | 99 | | 3 | 19 |
| | 10 | 12.40 | 19.71 | 27.00 | 5.28 | 87 | | 6 | 0 |
| | 20 | 12.40 | 19.69 | 26.97 | 6.02 | 99 | | 4 | 25 |
| | 30 | 12.40 | 19.69 | 26.97 | 5.84 | 96 | | 4 | 0 |
| | 40 | 12.40 | 19.69 | 26.97 | 5.94 | 98 | | 12 | 13 |
| | 50 | 12.40 | 19.71 | 27.00 | 5.67 | 93 | | 4 | 15 |

Station: PORT FAIRY WIDE

Latitude: 39°01' S.

Longitude: 142°25' E.

| Date | Depth (m.) | Temp. °C. | Cl ‰ | σ_t | O ₂ | O ₂ % | pH | PO ₄ -P | NO ₃ -N |
|---------------|------------|-----------|-------|------------|----------------|------------------|----|--------------------|--------------------|
| 1953 2.iii | 0 | 17.60 | 19.57 | 25.66 | 5.40 | 97 | | 6-6 | 17 |
| | 20 | 17.60 | 19.57 | 25.66 | 5.65 | 101 | | 4-5 | 0 |
| | 40 | 16.60 | 19.58 | 25.92 | 5.89 | 104 | | 3-9 | 0 |
| | 50 | 15.40 | 19.52 | 26.11 | 6.11 | 106 | | 6-8 | 8 |
| | 75 | 13.50 | 19.45 | 26.42 | 6.35 | 106 | | 11-1 | 0 |
| | 100 | 12.20 | 19.49 | 26.74 | 5.80 | 95 | | 15-0 | 38 |
| 1.v | 0 | 15.80 | 19.55 | 26.05 | 5.70 | 99 | | 2-4 | |
| | 20 | 15.60 | 19.54 | 26.09 | 5.76 | 100 | | 2-5 | |
| | 40 | 15.80 | 19.61 | 26.14 | 5.76 | 100 | | 0-14 | |
| | 50 | 15.60 | 19.55 | 26.10 | 5.74 | 99 | | 0-12 | |
| | 75 | 15.60 | 19.58 | 26.15 | 5.70 | 99 | | 4-5 | |
| | 100 | 14.20 | 19.55 | 26.41 | 6.07 | 103 | | 4-6 | |
| 14.viii | 0 | 13.00 | 19.55 | 26.65 | 5.82 | 97 | | 1-12 | 33 |
| | 20 | 13.10 | 19.57 | 26.66 | 5.71 | 95 | | 2-10 | 48 |
| | 40 | 13.20 | 19.57 | 26.64 | 5.66 | 94 | | 1-9 | 38 |
| | 50 | 13.20 | 19.57 | 26.64 | 5.56 | 93 | | 1-7 | 0 |
| | 75 | 13.20 | 19.59 | 26.67 | 5.30 | 88 | | 1-8 | 8 |
| | 100 | 13.20 | 19.59 | 26.67 | 5.77 | 96 | | 1-8 | 0 |

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 |
|-------|------------|-----------|-------|------------|----------------|------------------|----|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 13.v | 0 | 14.80 | 19.66 | 26.43 | | | | 10-5 | |
| | 20 | 14.80 | 19.68 | 26.46 | | | | 10-0 | |
| | 50 | 13.35 | 19.61 | 26.67 | | | | 29-1 | |
| 26.ix | 0 | 11.00 | 19.36 | 26.78 | 4.16 | 66 | | 4 | 8 |
| | 20 | 11.10 | 19.40 | 26.81 | 4.56 | 73 | | 3 | 12 |
| | 50 | 11.20 | 19.60 | 27.08 | 6.05 | 97 | | 3-11 | 6 |

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 |
|--------|------------|-----------|-------|------------|----------------|------------------|----|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 15.ii | 0 | 18.20 | 19.64 | 25.60 | 5.64 | 103 | | 4-0 | 0 |
| | 20 | 18.20 | 19.64 | 25.60 | 5.64 | 103 | | 4-0 | 0 |
| | 50 | 16.00 | 19.55 | 26.01 | 5.56 | 97 | | 8-1 | 0 |
| 12.vi | 0 | 13.10 | 19.56 | 26.65 | | | | 8-9 | 26 |
| | 20 | 13.10 | 19.53 | 26.60 | | | | 8-5 | 13 |
| | 50 | 13.00 | 19.53 | 26.62 | | | | 7-9 | 33 |
| 28.ix | 0 | 11.80 | 19.50 | 26.82 | | | | 8-9 | 30 |
| | 20 | 11.60 | 19.48 | 26.83 | | | | 7-8 | 57 |
| | 50 | 11.50 | 19.47 | 26.84 | | | | 6-12 | 15 |
| 31.xii | 0 | 13.80 | 19.38 | 26.26 | | | | 11-4 | 31 |
| | 20 | 13.30 | 19.40 | 26.38 | | | | 9-6 | 40 |
| | 50 | 12.70 | 19.39 | 26.49 | | | | 14-0 | 92 |

Longitude: 148°16' E.

| | O ₂ | O ₂ % | pH | PO ₄ -P | NO ₃ -N |
|------|----------------|------------------|----|--------------------|--------------------|
| .30 | | | | 5-13-2 | 5 |
| .03 | | | | 11-18 | 36 |
| .03 | | | | 9-16-5 | 28 |
| .81 | 5.78 | 100 | | 4-14-7 | 0 |
| .78 | 5.78 | 100 | | 6-16-0 | 0 |
| .06 | 5.53 | 91 | | 8-15-0 | 0 |
| .72 | 5.77 | 102 | | 5-7-2 | 0 |
| .85 | 5.75 | 101 | | 9-3-3 | 6 |
| .92 | 5.42 | 93 | | 11-4-2 | 21 |
| .99 | 5.20 | 91 | | 6-4-4 | 12 |
| .02 | 5.16 | 90 | | 8-4-0 | 17 |
| .08 | 5.00 | 87 | | 9-4-1 | 19 |
| .31 | | | | 7-0-5 | |
| .30 | 5.45 | 92 | | 7-1-12 | |
| .30 | 5.34 | 90 | | 7-0-1 | |
| .48 | 5.74 | 95 | | 3-8-0 | 24 |
| .51 | 5.80 | 96 | | 2-4-0 | 28 |
| .52 | 5.85 | 97 | | 5-1-0 | 36 |
| 6.80 | | | | 7-10-2 | |
| 6.81 | | | | 7-8-3 | |
| 6.80 | | | | 9-15-3 | |
| 6.62 | | | | 5-48-0 | 47 |
| 6.67 | 3.87 | 63 | | 3-51-0 | 37 |
| 6.94 | 4.65 | 75 | | 3-55-0 | 32 |
| 6.79 | 6.00 | 97 | | 9-8-9 | 19 |
| 6.88 | 6.45 | 104 | | 9-9-0 | 25 |
| 6.85 | 6.63 | 107 | | 11-3-4 | 13 |

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 |
|--------|------------|-----------|-------|------------|----------------|------------------|----|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 1.x | 0 | 11.80 | 19.47 | 26.78 | 5.30 | 86 | | 10-9-4 | 40 |
| | 20 | 11.60 | 19.48 | 26.83 | 6.02 | 97 | | 10-0-6 | 26 |
| | 50 | 11.60 | 19.50 | 26.86 | 5.36 | 87 | | 10-7-0 | 21 |
| 28.x | 0 | 13.50 | 19.34 | 26.26 | 6.55 | 109 | | 4-8-4 | 0 |
| | 20 | 11.70 | 19.32 | 26.39 | 6.80 | 110 | | 7-14-4 | 0 |
| | 50 | 11.50 | 19.28 | 26.57 | 5.88 | 95 | | 12-0-0 | 0 |
| 20.xi | 0 | 13.40 | 19.31 | 26.24 | 6.04 | 101 | | 3-5-0 | 4 |
| | 20 | 12.30 | 19.30 | 26.45 | 5.91 | 97 | | 4-10-0 | 15 |
| | 50 | 12.00 | 19.31 | 26.52 | 5.85 | 95 | | 8-4-2 | 27 |
| 11.xii | 0 | 12.50 | 19.36 | 26.49 | 5.91 | 97 | | 11-3-6 | 16 |
| | 20 | 12.40 | 19.34 | 26.48 | 5.98 | 98 | | 13-3-3 | 35 |
| | 50 | 12.60 | 19.34 | 26.44 | 5.91 | 97 | | 13-14 | 18 |
| 30.xii | 0 | 13.60 | 19.36 | 26.27 | | | | 8-4-2 | 36 |
| | 20 | 13.50 | 19.40 | 26.34 | | | | 9-4-0 | 31 |
| | 50 | 13.10 | 19.36 | 26.37 | | | | 9-2-8 | 17 |

Station: CAPE PILLAR

Latitude: 43°13' S.

Longitude: 148°07' E.

| Date | Depth (m.) | Temp. °C. | Cl ‰ | σ_t | O ₂ | O ₂ ‰ | pH | PO ₄ -P | NO ₃ -N |
|--------|------------|-----------|-------|------------|----------------|------------------|----|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 10.ii | 0 | 15.40 | 19.32 | 25.83 | 5.77 | 99 | | 4-11 | 0 |
| | 20 | 15.50 | 19.38 | 25.89 | 5.58 | 100 | | 2-6 | 0 |
| | 50 | 15.40 | 19.36 | 25.89 | 5.81 | 100 | | 4-11 | 0 |
| 17.vi | 0 | 13.20 | 19.43 | 26.45 | 5.85 | 97 | | 0-13 | 14 |
| | 20 | 13.20 | 19.43 | 26.45 | 5.74 | 96 | | 2-12 | 0 |
| | 50 | 13.30 | 19.45 | 26.46 | 5.80 | 97 | | 0-18 | 17 |
| 3.x | 0 | 11.40 | 19.13 | 26.38 | | | | 12-2 | 48 |
| | 20 | 11.40 | 19.13 | 26.38 | | | | 10-27 | 7 |
| | 50 | 11.40 | 19.25 | 26.55 | | | | 15-2 | 15 |
| 29.xii | 0 | 13.00 | 19.30 | 26.31 | | | | 17-0 | 55 |
| | 20 | 12.90 | 19.30 | 26.33 | | | | 12-2 | 72 |
| | 50 | 12.40 | 19.32 | 26.45 | | | | 14-4 | 17 |

Station: ALBATROSS ISLAND

Latitude: 40° 20' S.

Longitude: 144° 26' E.

| Date | Depth (m.) | Temp. °C. | Cl ‰ | σ_t | O ₂ | O ₂ ‰ | pH | PO ₄ -P | NO ₃ -N |
|-------|------------|-----------|-------|------------|----------------|------------------|----|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 10.v | 0 | 14.80 | 19.57 | 26.30 | 5.67 | 97 | | 11-3 | |
| | 20 | 14.80 | 19.62 | 26.37 | 5.76 | 99 | | 9-5 | |
| | 40 | 14.80 | 19.60 | 26.35 | 5.65 | 97 | | 9-7 | |
| | 50 | 14.80 | 19.62 | 26.37 | 5.70 | 98 | | 10-7 | |
| 24.ix | 0 | 12.40 | 19.62 | 26.87 | | | | 7-9 | 25 |
| | 20 | 12.50 | 19.63 | 26.87 | | | | 5-6 | 38 |
| | 40 | 12.40 | 19.62 | 26.87 | | | | 4-7 | 26 |
| | 50 | 12.40 | 19.65 | 26.92 | | | | 4-12 | 22 |

itude: 115°25' E.

| O ₂ | O ₂ % | pH | PO ₄ -P | NO ₃ -N |
|----------------|------------------|------|--------------------|--------------------|
| 5.72 | 109 | 8.24 | 6-8 | 0 |
| 5.47 | 106 | 8.24 | 8-10 | 0 |
| 5.47 | 103 | 8.26 | 10-4 | 0 |
| 5.47 | 104 | 8.26 | 8-8 | 0 |
| 5.59 | 104 | 8.26 | 9-8 | 0 |
| 5.59 | 104 | 8.26 | 10 | 0 |
| 5.24 | | 8.16 | 5-12 | 0 |
| 5.17 | 97 | 8.16 | 4-14 | 0 |
| 5.20 | | 8.16 | 7-14 | 0 |
| 5.17 | 97 | 8.17 | 5-14 | 0 |
| 5.17 | | 8.16 | 5-19 | 0 |
| 5.12 | 95 | 8.16 | 6-26 | 0 |
| 5.30 | 101 | 8.22 | 5-3 | 0 |
| 5.24 | 99 | 8.23 | 6-8 | 0 |
| 5.19 | 98 | 8.22 | 9-0 | 0 |
| 5.24 | 98 | 8.23 | 6-2 | 0 |
| 5.13 | 95 | 8.23 | 8-1 | 0 |
| 5.19 | 96 | 8.22 | 7-6 | 0 |
| 5.35 | 104 | 8.24 | 2-10 | 0 |
| 5.53 | 107 | 8.24 | 2-7 | 0 |
| 5.35 | 103 | 8.24 | 3-10 | 0 |
| 5.19 | 100 | 8.23 | 3-11 | 0 |
| 5.21 | 100 | 8.24 | 3-10 | 0 |
| 5.21 | 100 | 8.23 | 3-10 | 0 |
| 5.10 | 99 | 8.24 | 4-7 | 3 |
| 5.10 | 98 | 8.26 | 2-6 | 0 |
| 5.13 | 99 | 8.25 | 2-6 | 0 |
| 5.10 | 98 | 8.24 | 0-7 | 0 |
| 4.99 | 96 | 8.24 | 0-9 | 0 |
| 5.13 | 98 | 8.24 | 0-11 | 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 |
|--------|------------|-----------|-------|------------|----------------|------------------|------|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 27.iv | 0 | 22.40 | 19.58 | 24.41 | 4.86 | 95 | 8.22 | 6-10 | 0 |
| | 10 | 22.30 | 19.61 | 24.48 | 4.92 | 96 | 8.23 | 9-2 | 0 |
| | 20 | 22.30 | 19.61 | 24.48 | 4.92 | 96 | 8.23 | 4-7 | 0 |
| | 30 | 22.20 | 19.68 | 24.60 | 5.01 | 98 | 8.22 | 5-10 | 0 |
| | 40 | 22.20 | 19.69 | 24.61 | 4.75 | 92 | 8.22 | 4-9 | 0 |
| | 50 | 22.00 | 19.69 | 24.67 | 5.01 | 97 | 8.22 | 5-7 | 0 |
| 14.v | 0 | 21.40 | 19.66 | 24.79 | 5.09 | 98 | 8.26 | 0-25 | 0 |
| | 10 | 21.40 | 19.66 | 24.79 | 5.05 | 97 | 8.28 | 0-14 | 0 |
| | 20 | 21.40 | 19.66 | 24.79 | 5.13 | 98 | 8.30 | 0-9 | 0 |
| | 30 | 21.40 | 19.66 | 24.79 | 5.15 | 99 | 8.29 | 0-15 | 8 |
| | 40 | 21.30 | 19.66 | 24.82 | 5.09 | 98 | 8.22 | 0-12 | 0 |
| | 50 | 21.20 | 19.67 | 24.87 | 4.98 | 95 | 8.22 | 0-18 | 0 |
| 19.vi | 0 | 19.95 | 19.49 | 24.96 | 5.34 | 100 | 8.40 | 11-3 | 0 |
| | 10 | 19.90 | 19.52 | 25.01 | 5.36 | 100 | 8.40 | 13-0 | 0 |
| | 20 | 19.90 | 19.52 | 25.01 | 5.34 | 100 | 8.42 | 12-0 | 0 |
| | 30 | 18.90 | 19.52 | 25.27 | 5.39 | 99 | 8.41 | 14-1 | 0 |
| | 40 | 19.25 | 19.52 | 25.18 | 5.46 | 101 | 8.41 | 11-2 | 0 |
| | 50 | 19.20 | 19.52 | 25.19 | 5.41 | 100 | 8.41 | 9-10 | 0 |
| 6.vii | 0 | 20.50 | 19.51 | 24.83 | 5.34 | 101 | 8.45 | 4-11 | 0 |
| | 10 | 20.60 | 19.51 | 24.80 | 5.30 | 100 | 8.46 | 4-10 | 0 |
| | 20 | 20.50 | 19.47 | 24.78 | 5.42 | 102 | 8.45 | 6-2 | 0 |
| | 30 | 20.60 | 19.51 | 24.80 | 5.33 | 101 | 8.45 | 6-2 | 0 |
| | 40 | 20.60 | 19.45 | 24.73 | 5.33 | 101 | 8.45 | 7-3 | 0 |
| | 50 | 19.60 | 19.45 | 24.99 | 4.75 | 89 | 8.40 | 11-0 | 15 |
| 21.vii | 0 | 20.75 | 19.43 | 24.66 | 5.41 | 102 | | 5-4 | 0 |
| | 10 | 20.65 | 19.46 | 24.72 | 5.41 | 102 | | 4-6 | 8 |
| | 20 | 20.70 | 19.47 | 24.73 | 5.44 | 103 | | 5-5 | 4 |
| | 30 | 20.55 | 19.48 | 24.78 | 5.44 | 103 | | 6-4 | 12 |
| | 40 | 18.70 | 19.48 | 25.26 | 5.48 | 101 | | 6-4 | 19 |
| | 50 | 18.00 | 19.49 | 25.45 | 5.52 | 100 | | 6-4 | 19 |

Longitude: 115°25' E.

| St | O ₂ | O ₂ % | pH | PO ₄ -P | NO ₃ -N |
|----|----------------|------------------|------|--------------------|--------------------|
| 19 | 5.70 | 105 | | 12 | 0 |
| 18 | 5.49 | 101 | | 10 | 0 |
| 18 | 5.61 | 103 | | 8-17 | 0 |
| 43 | 5.58 | 102 | | 9-14 | 0 |
| 53 | 5.61 | 102 | | 14-7 | 0 |
| 52 | 5.66 | 103 | | 5-24 | 0 |
| 40 | 5.68 | 103 | | 5-4 | 0 |
| 44 | 6.01 | 108 | | 4-8 | 0 |
| 48 | 6.01 | 106 | | 6-2 | 0 |
| 45 | 5.96 | 105 | | 4-6 | 0 |
| 50 | 5.91 | 104 | | 7-3 | 0 |
| 48 | 5.91 | 104 | | 4-5 | 0 |
| 43 | 5.44 | 100 | 8.26 | 2-8 | 0 |
| 45 | 5.49 | 100 | 8.26 | 5-7 | 41 |
| 45 | 5.55 | 102 | 8.26 | 4-6 | 0 |
| 45 | 5.55 | 102 | 8.28 | 4-6 | 0 |
| 51 | 5.39 | 99 | 8.28 | 4-9 | 0 |
| 49 | 5.44 | 99 | 8.28 | 5-8 | 0 |
| 22 | 5.44 | 102 | 8.23 | 8-3 | 0 |
| 33 | 5.55 | 103 | 8.24 | 8-4 | 0 |
| 30 | 5.55 | 103 | 8.24 | 8-7 | 0 |
| 28 | 5.55 | 103 | 8.24 | 7-7 | 0 |
| 29 | 5.44 | 101 | 8.24 | 8-7 | 0 |
| 28 | 5.55 | 103 | 8.24 | 11-3 | 0 |
| 41 | 5.44 | 100 | 8.23 | 0-8 | 0 |
| 48 | 5.59 | 101 | 8.24 | 0-6 | 0 |
| 47 | 5.50 | 101 | 8.24 | 1-17 | 0 |
| 57 | 5.47 | 100 | 8.24 | 0-10 | 0 |
| 54 | 5.41 | 99 | 8.24 | 2-6 | 0 |
| 57 | 5.54 | 101 | 8.24 | 2-5 | 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 |
|--------|------------|-----------|-------|------------|----------------|------------------|------|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 23.x | 0 | 18.90 | 19.64 | 25.43 | 5.45 | 100 | 8.22 | 5-4 | 0 |
| | 10 | 18.50 | 19.68 | 25.59 | 5.60 | 103 | 8.22 | 5-7 | 0 |
| | 20 | 18.40 | 19.61 | 25.52 | 5.68 | 104 | 8.22 | 5-5 | 0 |
| | 30 | 18.50 | 19.64 | 25.53 | 5.60 | 103 | 8.22 | 5-5 | 0 |
| | 40 | 18.40 | 19.64 | 25.55 | 5.54 | 101 | 8.21 | 2-12 | 0 |
| | 50 | 18.50 | 19.62 | 25.50 | 5.60 | 103 | 8.22 | 1-10 | 0 |
| 6.xi | 0 | 18.25 | 19.74 | 25.73 | 5.68 | 104 | 8.26 | 12-7 | 0 |
| | 10 | 17.80 | 19.75 | 25.85 | 5.55 | 100 | 8.26 | 12-7 | 0 |
| | 20 | 17.80 | 19.76 | 25.87 | 5.65 | 102 | 8.27 | 15-11 | 0 |
| | 30 | 17.80 | 19.80 | 25.93 | 5.77 | 105 | 8.27 | 14-7 | 0 |
| | 40 | 17.80 | 19.78 | 25.90 | 5.73 | 104 | 8.27 | 12-7 | 0 |
| | 50 | 17.80 | 19.77 | 25.88 | 5.68 | 103 | 8.27 | 11-8 | 0 |
| 19.xi | 0 | 18.80 | 19.82 | 25.71 | 5.55 | 102 | 8.23 | 0-15 | 0 |
| | 10 | 19.15 | 19.83 | 25.63 | 5.78 | 107 | 8.25 | 1-14 | 0 |
| | 20 | 19.15 | 19.83 | 25.63 | 5.69 | 106 | 8.25 | 0-17 | 0 |
| | 30 | 18.90 | 19.83 | 25.69 | 5.94 | 110 | 8.25 | 2-12 | 0 |
| | 40 | 18.90 | 19.87 | 25.75 | 5.66 | 105 | 8.25 | 1-14 | 0 |
| | 50 | 18.80 | 19.86 | 25.76 | 5.84 | 108 | 8.26 | 1-14 | 0 |
| 2.xii | 0 | 18.15 | 19.67 | 25.66 | 5.62 | 103 | 8.24 | 1-7 | 0 |
| | 10 | 18.20 | 19.68 | 25.66 | 5.70 | 104 | 8.25 | 1-3 | 0 |
| | 20 | 18.20 | 19.69 | 25.68 | 5.73 | 104 | 8.25 | 1-5 | 0 |
| | 30 | 18.00 | 19.77 | 25.83 | 5.81 | 106 | 8.26 | 5-0 | 0 |
| | 40 | 18.00 | 19.79 | 25.86 | 5.65 | 102 | 8.26 | 4-2 | 0 |
| | 50 | 18.00 | 19.81 | 25.89 | 5.73 | 104 | 8.26 | 4-3 | 0 |
| 22.xii | 0 | 19.70 | 19.86 | 25.52 | 5.84 | 109 | 8.31 | 4-5 | 0 |
| | 10 | 19.20 | 19.81 | 25.59 | 5.88 | 109 | 8.31 | 4-7 | 0 |
| | 20 | 19.10 | 19.81 | 25.61 | 5.88 | 109 | 8.31 | 3-6 | 0 |
| | 30 | 19.00 | 19.81 | 25.64 | 5.88 | 109 | 8.31 | 2-9 | 0 |
| | 40 | 19.00 | 19.80 | 25.63 | 5.80 | 107 | 8.32 | 3-8 | 0 |
| | 50 | 18.95 | 19.78 | 25.61 | 5.82 | 107 | 8.33 | 4-5 | 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 |
|--------|------------|-----------|-------|------------|----------------|------------------|------|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 27.i | | | | | | | | | |
| Stn. 2 | 0 | | 19.91 | | 5.47 | | 8.24 | 9-10 | 0 |
| | 10 | 20.60 | 19.93 | 25.39 | 5.47 | 100 | 8.23 | 12-5 | 0 |
| Stn. 5 | 0 | | 19.89 | | | | 8.25 | 6-8 | 0 |
| | 10 | 20.50 | 19.89 | 25.36 | | | 8.26 | 7-7 | 0 |
| 9.ii | | | | | | | | | |
| Stn. 2 | 0 | 21.00 | 19.88 | 25.20 | 5.09 | 96 | 8.18 | 2-11 | 0 |
| | 10 | 21.05 | 19.88 | 25.19 | 5.17 | 97 | 8.18 | 2-13 | 0 |
| Stn. 5 | 0 | 20.45 | 19.78 | 25.22 | 5.28 | 100 | 8.17 | 4-22 | 0 |
| | 10 | | 19.81 | | 5.09 | | 8.18 | 3-15 | 0 |
| 27.ii | | | | | | | | | |
| Stn. 2 | 0 | 22.25 | 20.04 | 25.10 | 5.19 | 101 | 8.25 | 5-3 | 0 |
| | 10 | 22.20 | 20.05 | 25.14 | 5.13 | 101 | 8.26 | 4-7 | 0 |
| Stn. 5 | 0 | 21.60 | 19.91 | 25.10 | 5.30 | 102 | 8.23 | 6-2 | 0 |
| | 10 | 21.50 | 19.88 | 25.08 | 5.30 | 102 | 8.24 | 6-7 | 0 |
| 13.iii | | | | | | | | | |
| Stn. 2 | 0 | 22.90 | 20.04 | 24.90 | 5.19 | 102 | 8.26 | 2-8 | 0 |
| | 10 | 22.70 | 20.07 | 24.99 | 5.21 | 103 | 8.26 | 2-15 | 0 |
| Stn. 5 | 0 | 21.30 | 19.84 | 25.06 | 5.19 | 99 | 8.22 | 6-11 | 0 |
| | 10 | 21.20 | 19.89 | 25.17 | 5.24 | 100 | 8.24 | 4-10 | 0 |
| 27.iv | | | | | | | | | |
| Stn. 2 | 0 | 21.60 | 19.41 | 24.40 | 4.75 | 91 | 8.17 | 5-9 | 0 |
| | 10 | 21.00 | 19.71 | 24.98 | 4.92 | 94 | 8.18 | 7-7 | 0 |
| Stn. 5 | 0 | 21.50 | 19.66 | 24.76 | 4.96 | 95 | 8.20 | 4-8 | 0 |
| | 10 | 21.45 | 19.68 | 24.81 | 4.86 | 94 | 8.20 | 3-7 | 0 |
| 14.v | | | | | | | | | |
| Stn. 2 | 0 | 18.95 | 19.73 | 25.54 | 5.22 | 96 | 8.26 | 0-23 | 5 |
| | 10 | 19.00 | 19.73 | 25.52 | 5.30 | 98 | 8.26 | 0-14 | 0 |
| Stn. 5 | 0 | 19.60 | 19.67 | 25.29 | 5.15 | 96 | 8.27 | 0-15 | 0 |
| | 10 | 19.65 | 19.71 | 25.34 | 5.18 | 97 | 8.26 | 0-15 | 2 |

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 |
|---------|------------|-----------|-------|------------|----------------|------------------|------|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 19.vi | | | | | | | | | |
| Stn. 2 | 0 | 16.40 | 18.13 | 23.96 | 5.91 | 103 | 8.28 | 9-5 | 59 |
| | 10 | 17.90 | 19.47 | 25.45 | 5.53 | 100 | 8.38 | 9-2 | 6 |
| Stn. 5 | 0 | 18.60 | 19.51 | 25.33 | 5.57 | 102 | 8.41 | 9-8 | 0 |
| | 10 | 18.50 | 19.54 | 25.40 | 5.55 | 102 | 8.40 | 9-4 | 0 |
| 21.vii | | | | | | | | | |
| Stn. 2 | 0 | 15.70 | 18.66 | 24.85 | 6.01 | 103 | | 7-5 | 18 |
| | 10 | 15.65 | 18.70 | 24.91 | 6.01 | 103 | | 7-5 | 18 |
| Stn. 5 | 0 | 15.90 | 18.52 | 24.60 | 6.06 | 105 | | 10-5 | 33 |
| | 10 | 17.35 | 18.74 | 24.57 | 5.88 | 104 | | 6-7 | 18 |
| 12.viii | | | | | | | | | |
| Stn. 2 | 0 | 17.30 | 19.39 | 25.48 | 5.70 | 102 | | 9-14 | 0 |
| | 10 | 17.20 | 19.45 | 25.59 | 5.90 | 105 | | 9-12 | 0 |
| Stn. 5 | 0 | 18.55 | 19.47 | 25.29 | 5.70 | 104 | | 6-17 | 0 |
| | 10 | 17.50 | 19.48 | 25.56 | 5.84 | 105 | | 8-19 | 0 |
| 25.viii | | | | | | | | | |
| Stn. 2 | 0 | 16.30 | 19.07 | 25.27 | 5.96 | 104 | | 6-3 | 0 |
| | 10 | 15.80 | 19.13 | 25.47 | 6.06 | 105 | | 4-4 | 0 |
| Stn. 5 | 0 | 16.10 | 19.03 | 25.27 | 6.20 | 108 | | 3-8 | 0 |
| | 10 | 16.70 | 19.22 | 25.39 | 6.13 | 108 | | 6-7 | 0 |
| 10.ix | | | | | | | | | |
| Stn. 2 | 0 | 16.60 | 19.20 | 25.38 | 5.90 | 104 | 8.06 | 5-4 | 0 |
| | 10 | 16.15 | 19.33 | 25.67 | 5.99 | 105 | 8.22 | 3-7 | 0 |
| Stn. 5 | 0 | 18.00 | 19.61 | 25.62 | 5.76 | 105 | 8.26 | 7-4 | 0 |
| | 10 | 17.40 | 19.63 | 25.79 | 5.70 | 102 | 8.27 | 5-6 | 0 |
| 21.ix | | | | | | | | | |
| Stn. 2 | 0 | 17.30 | 19.23 | 25.27 | 5.90 | 105 | 8.18 | 7-6 | 0 |
| | 10 | 17.10 | 19.47 | 25.65 | 5.96 | 106 | 8.20 | 7-6 | 0 |
| Stn. 5 | 0 | 17.70 | 19.51 | 25.55 | 5.87 | 106 | 8.21 | 8-7 | 0 |
| | 10 | 17.80 | 19.56 | 25.60 | 5.76 | 104 | 8.21 | 7-6 | 0 |

ST ISLAND

Longitude:

| σ_t | O ₂ | O ₂ % | pH | PO ₄ -P | NO ₃ -N |
|------------|----------------|------------------|------|--------------------|--------------------|
| 25.27 | 5.59 | 101 | 8.18 | 0-8 | 0 |
| 25.61 | 5.34 | 96 | 8.20 | 6-0 | 0 |
| 25.43 | 5.56 | 101 | 8.21 | 1-8 | 0 |
| 25.57 | 5.47 | 99 | 8.21 | 2-5 | 0 |
| 25.35 | 5.77 | 104 | 8.19 | 2-6 | 0 |
| 25.45 | 5.84 | 105 | 8.18 | 2-5 | 0 |
| 25.48 | 5.54 | 101 | 8.20 | 2-6 | 0 |
| 25.55 | 5.99 | 108 | 8.20 | 9-1 | 0 |
| 25.41 | 5.58 | 101 | 8.19 | 9-8 | 0 |
| 25.59 | 5.85 | 105 | 8.21 | 9-6 | 0 |
| 25.46 | 6.04 | 110 | 8.21 | 13-4 | 0 |
| 25.70 | 5.91 | 106 | 8.21 | 10-11 | 0 |
| 25.02 | 5.58 | 103 | 8.20 | 2-12 | 0 |
| 25.45 | 5.88 | 108 | 8.20 | 2 | 0 |
| 25.27 | 5.94 | 111 | 8.19 | 1-13 | 0 |
| 25.92 | 5.78 | 107 | 8.22 | 2-11 | 0 |
| 25.21 | 5.52 | 103 | 8.20 | 6-5 | 0 |
| 25.24 | 5.70 | 106 | 8.20 | 2-6 | 0 |
| 25.25 | 5.86 | 109 | 8.22 | 2-6 | 0 |
| 25.25 | 5.86 | 109 | 8.22 | 2-7 | 0 |
| 25.53 | 5.59 | 105 | 8.35 | 6-4 | 0 |
| 25.56 | 5.80 | 109 | 8.35 | 4-4 | 0 |
| 25.55 | 5.88 | 110 | 8.35 | 5-6 | 0 |
| 25.61 | 5.84 | 109 | 8.32 | 3-8 | 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 |
|--------|------------|-----------|-------|------------|----------------|------------------|------|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 23.i | 0 | 19.00 | 19.79 | 25.61 | 5.72 | 106 | 8.16 | 6-18 | 0 |
| | 10 | 19.30 | 19.77 | 25.50 | 5.77 | 107 | 8.16 | 3-11 | 0 |
| | 20 | 19.00 | 19.78 | 25.60 | 5.77 | 106 | 8.16 | 2-19 | 0 |
| | 30 | 18.10 | 19.79 | 25.84 | 5.81 | 106 | 8.16 | 5-13 | 0 |
| | 40 | 19.00 | 19.78 | 25.60 | 5.77 | 106 | 8.16 | 3-22 | 0 |
| | 50 | 16.55 | 19.80 | 26.23 | 5.77 | 102 | 8.15 | 4-16 | 0 |
| 6.ii | 0 | 19.15 | 19.71 | 25.47 | 5.24 | 97 | 8.15 | 10-0 | 0 |
| | 10 | 19.10 | 19.71 | 25.48 | 5.28 | 98 | 8.15 | 10-1 | 0 |
| | 20 | 19.10 | 19.69 | 25.45 | 5.35 | 99 | 8.15 | 10-3 | 0 |
| | 30 | 20.50 | 19.71 | 25.11 | 5.24 | 99 | 8.14 | 9-3 | 0 |
| | 40 | 19.10 | 19.70 | 25.46 | 5.24 | 97 | 8.14 | 8-0 | 0 |
| | 50 | 19.10 | 19.71 | 25.48 | 5.24 | 97 | 8.14 | 8-3 | 0 |
| 12.iii | 0 | 19.90 | 19.86 | 25.47 | 5.30 | 99 | 8.25 | 2-6 | 0 |
| | 10 | 19.80 | 19.91 | 25.57 | 5.35 | 100 | 8.24 | 2-6 | 0 |
| | 20 | 19.80 | 19.92 | 25.58 | 5.35 | 100 | 8.25 | 3-9 | 0 |
| | 30 | 19.80 | 19.92 | 25.58 | 5.35 | 100 | 8.24 | 4-10 | 0 |
| | 40 | 19.70 | 19.92 | 25.61 | 5.47 | 103 | 8.24 | 4-7 | 0 |
| | 50 | 19.70 | 19.92 | 25.61 | 5.30 | 99 | 8.25 | 4-7 | 0 |
| 8.iv | 0 | 20.00 | 19.80 | 25.37 | 5.28 | 99 | 8.32 | 1-10 | 0 |
| | 10 | 19.95 | 19.81 | 25.38 | 5.20 | 98 | 8.32 | 2-6 | 0 |
| | 20 | 19.95 | 19.83 | 25.42 | 5.20 | 98 | 8.31 | 1-7 | 0 |
| | 30 | 19.95 | 19.84 | 25.43 | 5.28 | 99 | 8.32 | 0-8 | 0 |
| | 40 | 19.70 | 19.84 | 25.49 | 5.20 | 97 | 8.32 | 0-7 | 0 |
| | 50 | 19.90 | 19.84 | 25.44 | 5.28 | 99 | 8.32 | 0-11 | 0 |
| 20.v | 0 | 19.25 | 19.79 | 25.55 | 5.47 | 101 | 8.15 | 3-42 | 0 |
| | 10 | 19.15 | 19.77 | 25.54 | 5.47 | 101 | 8.15 | 4-11 | 0 |
| | 20 | 19.10 | 19.84 | 25.65 | 5.28 | 98 | 8.14 | 3-17 | 0 |
| | 30 | 19.00 | 19.79 | 25.61 | 5.54 | 102 | 8.14 | 3-14 | 0 |
| | 40 | 19.00 | 19.81 | 25.64 | 5.41 | 100 | 8.12 | 6-12 | 10 |
| | 50 | 19.00 | 19.82 | 25.66 | 5.32 | 98 | 8.11 | 5-7 | 1 |

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 |
|---------|------------|-----------|-------|------------|----------------|------------------|------|--------------------|--------------------|
| 1953 | | | | | | | | | |
| 11.viii | 0 | 17.10 | 19.57 | 25.78 | 5.77 | 103 | 8.37 | 3-16 | 0 |
| | 10 | 17.00 | 19.62 | 25.87 | 5.90 | 105 | 8.37 | 5-18 | 0 |
| | 20 | 17.05 | 19.62 | 25.86 | 5.92 | 105 | 8.38 | 3-22 | 0 |
| | 30 | 17.00 | 19.63 | 25.89 | 5.84 | 104 | 8.38 | 4-17 | 0 |
| | 40 | 17.10 | 19.63 | 25.86 | 5.73 | 102 | 8.37 | 4-19 | 0 |
| | 50 | 16.90 | 19.63 | 25.91 | 5.90 | 105 | 8.37 | 3-18 | 0 |
| 4.ix | 0 | 17.65 | 19.68 | 25.80 | 5.57 | 100 | 8.30 | 6-6 | 0 |
| | 10 | 17.60 | 19.68 | 25.81 | 5.55 | 100 | 8.31 | 9-3 | 0 |
| | 20 | 17.60 | 19.69 | 25.83 | 5.76 | 102 | 8.32 | 5-10 | 0 |
| | 30 | 17.60 | 19.69 | 25.83 | 5.65 | 101 | 8.35 | 6-8 | 0 |
| | 40 | 17.60 | 19.69 | 25.83 | 5.65 | 101 | 8.32 | 5-9 | 0 |
| | 50 | 17.60 | 19.69 | 25.83 | 5.48 | 99 | 8.32 | 4-9 | 0 |
| 6.x | 0 | 17.50 | 19.57 | 25.68 | 5.20 | 93 | 8.25 | 5-2 | 0 |
| | 10 | 17.50 | 19.64 | 25.79 | 5.66 | 102 | 8.26 | 7-13 | 0 |
| | 20 | 17.50 | 19.62 | 25.75 | 5.56 | 100 | 8.26 | 5-5 | 0 |
| | 30 | 17.60 | 19.59 | 25.69 | 5.47 | 99 | 8.26 | 4-9 | 0 |
| | 40 | 17.50 | 19.58 | 25.70 | 6.13 | 110 | 8.26 | 4-4 | 0 |
| | 50 | 17.60 | 19.60 | 25.70 | 5.34 | 96 | 8.26 | 4-5 | 0 |
| 10.xi | 0 | 17.30 | 19.68 | 25.88 | 5.62 | 100 | 8.26 | 3-8 | 0 |
| | 10 | 17.20 | 19.74 | 25.99 | 5.81 | 104 | 8.27 | 6-1 | 0 |
| | 20 | 17.20 | 19.71 | 25.95 | 5.91 | 106 | 8.27 | 2-9 | 0 |
| | 30 | 17.05 | 19.74 | 26.03 | 5.88 | 105 | 8.28 | 2-6 | 0 |
| | 40 | 17.05 | 19.68 | 25.94 | 5.43 | 97 | 8.28 | 2-8 | 0 |
| | 50 | 17.00 | 19.68 | 25.95 | 5.58 | 99 | 8.28 | 5-3 | 0 |
| 1.xii | 0 | 18.10 | 19.77 | 25.81 | 5.65 | 103 | 8.25 | 2-6 | 0 |
| | 10 | 17.70 | 19.74 | 25.87 | 5.76 | 104 | 8.25 | 0-6 | 0 |
| | 20 | 17.50 | 19.73 | 25.90 | 5.76 | 104 | 8.25 | 2-5 | 0 |
| | 30 | 17.40 | 19.74 | 25.94 | 5.80 | 104 | 8.28 | 4-4 | 0 |
| | 40 | 17.20 | 19.77 | 26.03 | 5.40 | 97 | 8.26 | 2-6 | 0 |
| | 50 | 17.20 | 19.75 | 26.00 | 5.73 | 103 | 8.26 | 5-10 | 0 |

H.M.A.S. "Barcoo"

| Date | Station | Position | Sounding (fathoms) | HYDROLOGICAL OBSERVATIONS | | | | |
|-------------|-------------------------|---------------------------|-----------------------|---------------------------|-------------|-------|-------|----------------|
| | | | | Depth (m.) | Temp °C. | Cl°/∞ | S°/∞ | σ _t |
| 1953 8.1 | 1 | 37°04' S. 150°05' E. | | 0 | 17.40 | 19.58 | 35.37 | 25.73 |
| | | | | 25 | 16.20 | 19.55 | 35.32 | 25.96 |
| | | | | 50 | 14.00 | 19.50 | 35.23 | 26.38 |
| | | | | 75 | 13.80 | 19.50 | 35.23 | 26.42 |
| | 2 | 37°04' S. 150°11'4" E. | | 0 | 17.60 | 19.59 | 35.39 | 25.69 |
| | | | | 25 | 16.10 | 19.55 | 35.32 | 25.98 |
| | | | | 50 | 15.50 | 19.52 | 35.26 | 26.08 |
| | | | | 75 | 13.70 | 19.52 | 35.26 | 26.47 |
| | 3 | 37°04' S. 150°17'5" E. | | 0 | 17.90 | 19.60 | 35.41 | 25.63 |
| | | | | 25 | 18.70 | 19.61 | 35.43 | 25.44 |
| | | | | 50 | 16.00 | 19.58 | 35.37 | 26.06 |
| | | | | 75 | 14.70 | 19.54 | 35.30 | 26.29 |
| | | | | 100 | 13.20 | 19.51 | 35.25 | 26.56 |
| | 4 | 37°04' S. 150°23'8" E. | | 0 | 18.50 | 19.60 | 35.41 | 25.48 |
| | | | | 25 | 18.60 | 19.58 | 35.37 | 25.43 |
| | | | | 50 | 16.70 | 19.57 | 35.35 | 25.87 |
| | | | | 75 | 15.10 | 19.55 | 35.32 | 26.21 |
| | | | | 100 | 14.40 | 19.54 | 35.30 | 26.35 |
| | | | | 150 | 13.20 | 19.49 | 35.21 | 26.54 |
| | | | | 200 | 12.60 | 19.45 | 35.14 | 26.60 |
| | | | 300 | 10.80 | 19.32 | 34.90 | 26.75 | |
| 5 | 37°04' S. 150°30' E. | | 0 | 19.00 | 19.62 | 35.44 | 25.37 | |
| | | | 25 | 18.40 | 19.63 | 35.46 | 25.54 | |
| | | | 50 | 17.30 | 19.55 | 35.32 | 25.70 | |
| | | | 75 | 15.30 | 19.55 | 35.32 | 26.17 | |
| | | | 100 | 14.60 | 19.54 | 35.30 | 26.31 | |
| | | | 150 | 12.70 | 19.49 | 35.21 | 26.64 | |
| | | | 200 | 12.30 | 19.44 | 35.12 | 26.64 | |
| | | | 300 | 10.50 | 19.32 | 34.90 | 26.81 | |
| | 400 | 9.60 | 19.26 | 34.79 | 26.88 | | | |

H.M.A.S. "Barcoo"

| Date | Station | Position | Sounding (fathoms) | HYDROLOGICAL OBSERVATIONS | | | | |
|--------------|---------|-----------------------------|-----------------------|---------------------------|-------------|--------|-------|------------|
| | | | | Depth (m.) | Temp °C. | Cl°/oo | S°/oo | σ_t |
| 1953 3.11 | 6 | 34°05' S. 151°13' E. | | 0 | 21.10 | 19.62 | 35.44 | 24.82 |
| | | | | 25 | 18.20 | 19.59 | 35.39 | 25.54 |
| | | | | 50 | 15.00 | 19.54 | 35.30 | 26.22 |
| | 7 | 34°05'8" S. 151°18'8" E. | | 0 | 23.20 | 19.59 | 35.39 | 24.19 |
| | | | | 25 | 21.50 | 19.61 | 35.43 | 24.70 |
| | | | | 50 | 16.80 | 19.57 | 35.35 | 25.85 |
| | | | | 75 | 14.80 | 19.57 | 35.35 | 26.31 |
| | | | | 100 | 14.00 | 19.55 | 35.32 | 26.45 |
| | 8 | 34°06'7" S. 151°24'6" E. | | 0 | 22.80 | 19.65 | 35.50 | 24.39 |
| | | | | 25 | 21.00 | 19.63 | 35.46 | 24.86 |
| | | | | 50 | 16.50 | 19.59 | 35.39 | 25.95 |
| | | | | 75 | 15.00 | 19.56 | 35.34 | 26.25 |
| | | | | 100 | 14.40 | 19.55 | 35.32 | 26.36 |
| | 9 | 34°07'6" S. 151°30'4" E. | | 0 | 22.60 | 19.71 | 35.61 | 24.53 |
| | | | | 25 | 21.30 | 19.66 | 35.52 | 24.82 |
| | | | | 50 | 19.30 | 19.62 | 35.44 | 25.29 |
| | | | | 75 | 17.00 | 19.60 | 35.41 | 25.85 |
| | | | | 100 | 15.50 | 19.58 | 35.37 | 26.17 |
| | | | | 150 | 13.80 | 19.55 | 35.32 | 26.49 |
| | | | | 200 | 13.30 | 19.52 | 35.26 | 26.56 |
| | 10 | 34°08'5" S. 151°36'4" E. | | 0 | 22.80 | 19.67 | 35.53 | 24.41 |
| | | | | 25 | 22.50 | 19.68 | 35.55 | 24.51 |
| | | | | 50 | 20.60 | 19.64 | 35.48 | 24.98 |
| | | | | 75 | 18.90 | 19.64 | 35.48 | 25.43 |
| | | | | 100 | 17.50 | 19.63 | 35.46 | 25.77 |
| | | | | 150 | 15.10 | 19.57 | 35.35 | 26.24 |
| | | | | 200 | 14.00 | 19.56 | 35.34 | 26.47 |
| | | | | 250 | 13.40 | 19.51 | 35.25 | 26.52 |
| | | 300 | 12.00 | 19.40 | 35.05 | 26.64 | | |
| | | 400 | 11.50 | 19.38 | 35.01 | 26.72 | | |

H.M.A.S. "Barcoo"

| Date | Station | Position | Sounding (fathoms) | HYDROLOGICAL OBSERVATIONS | | | | | |
|----------------|---------|---------------------------|-----------------------------|---------------------------|-------------|--------|-------|----------------|-------|
| | | | | Depth (m.) | Temp °C. | Cl°/oo | S°/oo | σ _t | |
| 1953 13.iii | 11 | 37°04' S. 150°05' E. | | 0 | 19.40 | 19.65 | 35.50 | 25.32 | |
| | | | | 25 | 19.30 | 19.59 | 35.39 | 25.26 | |
| | | | | 50 | 16.40 | 19.53 | 35.28 | 25.88 | |
| | | | | 75 | 13.00 | 19.44 | 35.12 | 26.50 | |
| | 12 | 37°04' S. 150°11'4" E. | | 0 | 19.40 | 19.73 | 35.64 | 25.42 | |
| | | | | 25 | 18.90 | 19.72 | 35.62 | 25.54 | |
| | | | | 50 | 17.50 | 19.65 | 35.50 | 25.80 | |
| | | | | 75 | 13.30 | 19.44 | 35.12 | 26.44 | |
| | 13 | 37°04' S. 150°17'5" E. | | 0 | 20.60 | 19.71 | 35.61 | 25.09 | |
| | | | | 25 | 20.90 | 19.73 | 35.64 | 25.02 | |
| | | | | 50 | 18.80 | 19.60 | 35.41 | 25.40 | |
| | | | | 75 | 16.00 | 19.60 | 35.41 | 26.08 | |
| | | | | 100 | 14.50 | 19.52 | 35.26 | 26.30 | |
| | 14 | 37°04' S. 150°23'8" E. | | 0 | 20.60 | 19.74 | 35.66 | 25.12 | |
| | | | | 25 | 20.80 | 19.71 | 35.61 | 25.03 | |
| | | | | 50 | 20.20 | 19.71 | 35.61 | 25.19 | |
| | | | | 75 | 17.30 | 19.61 | 35.43 | 25.78 | |
| | | | | 100 | 16.20 | 19.61 | 35.43 | 26.04 | |
| | | | | 150 | 13.70 | 19.55 | 35.32 | 26.51 | |
| | | | | 200 | 12.70 | 19.46 | 35.16 | 26.59 | |
| | 15 | 37°04' S. 150°29' E. | | 0 | 19.70 | 19.72 | 35.62 | 25.34 | |
| | | | | 25 | 19.40 | 19.76 | 35.70 | 25.47 | |
| | | | | 50 | 19.80 | 19.80 | 35.77 | 25.42 | |
| | | | | 75 | 18.50 | 19.64 | 35.48 | 25.53 | |
| | | | | 100 | 16.50 | 19.60 | 35.41 | 25.96 | |
| | | | | 150 | 14.10 | 19.56 | 35.34 | 26.45 | |
| | | | | 200 | 13.50 | 19.54 | 35.30 | 26.54 | |
| | | | | 300 | 12.20 | 19.49 | 35.21 | 26.74 | |
| | 1.iv | 16 | 34°05'8" S. 151°18'8" E. | | 0 | 21.70 | 19.60 | 35.41 | 24.63 |
| | | | | | 25 | 21.60 | 19.60 | 35.41 | 24.66 |
| | | | | | 50 | 18.90 | 19.60 | 35.41 | 25.38 |

H.M.A.S. "Barcoo"

| Date | Station | Position | Sounding (fathoms) | HYDROLOGICAL OBSERVATIONS | | | | |
|--------------|---------|-----------------------------|-----------------------|---------------------------|-------------|-------|-------|----------------|
| | | | | Depth (m.) | Temp °C. | Cl°/∞ | S°/∞ | σ _t |
| 1953 1.iv | 16 | 34°05'8" S. 151°18'8" E. | | 75 | 17.60 | 19.60 | 35.41 | 25.70 |
| | | | | 100 | 14.60 | 19.54 | 35.30 | 26.31 |
| | 17 | 34°06'7" S. 151°24'6" E. | | 0 | 21.40 | 19.56 | 35.34 | 24.66 |
| | | | | 25 | 21.10 | 19.53 | 35.28 | 24.69 |
| | | | | 50 | 18.50 | 19.56 | 35.34 | 25.43 |
| | | | | 75 | 16.30 | 19.58 | 35.37 | 25.99 |
| | | | | 100 | 14.10 | 19.55 | 35.32 | 26.43 |
| | | | | | | | | |
| 7.iv | 18 | 34°05' S. 151°13' E. | | 0 | 21.50 | 19.55 | 35.32 | 24.61 |
| | | | | 25 | 20.60 | 19.57 | 35.35 | 24.89 |
| | | | | 50 | 17.90 | 19.58 | 35.37 | 25.60 |
| | 19 | 34°05'8" S. 151°18'8" E. | | 0 | 21.60 | 19.54 | 35.30 | 24.58 |
| | | | | 25 | 21.40 | 19.65 | 35.50 | 24.78 |
| | | | | 50 | 19.40 | 19.62 | 35.44 | 25.27 |
| | | | | 75 | 16.60 | 19.58 | 35.37 | 25.92 |
| | | | | 100 | 14.10 | 19.53 | 35.28 | 26.40 |
| | 20 | 34°06'7" S. 151°24'6" E. | | 0 | 21.60 | 19.54 | 35.30 | 24.58 |
| | | | | 25 | 21.30 | 19.58 | 35.37 | 24.72 |
| | | | | 50 | 20.80 | 19.66 | 35.52 | 24.96 |
| | | | | 75 | 16.80 | 19.62 | 35.44 | 25.91 |
| | | | | 100 | 14.30 | 19.52 | 35.26 | 26.35 |
| | 21 | 34°07'6" S. 151°30'4" E. | | 0 | 21.60 | 19.60 | 35.41 | 24.66 |
| | | | | 25 | 21.80 | 19.60 | 35.41 | 24.60 |
| | | | | 50 | 21.50 | 19.61 | 35.43 | 24.70 |
| | | | | 75 | 19.50 | 19.65 | 35.50 | 25.29 |
| | | | | 100 | 17.10 | 19.60 | 35.41 | 25.82 |
| | | | | 150 | 13.60 | 19.50 | 35.23 | 26.46 |
| | 22 | 34°08'5" S. 151°36'4" E. | | 200 | 12.80 | 19.47 | 35.17 | 26.59 |
| | | | | 0 | 23.70 | 19.53 | 35.28 | 23.96 |
| | | | | 25 | 22.20 | 19.61 | 35.43 | 24.50 |
| | | | | 50 | 21.50 | 19.71 | 35.61 | 24.84 |
| | | | | 75 | 20.80 | 19.70 | 35.59 | 25.01 |
| | 100 | 20.20 | 19.70 | 35.59 | 25.17 | | | |
| | 150 | 15.20 | 19.57 | 35.35 | 26.22 | | | |

H.M.A.S. "Barcoo"

| Date | Station | Position | Sounding (fathoms) | HYDROLOGICAL OBSERVATIONS | | | | |
|--------------|---------|-----------------------------|-----------------------|---------------------------|-------------|-------|-------|----------------|
| | | | | Depth (m.) | Temp °C. | Cl°/∞ | S°/∞ | σ _t |
| 1953 7.iv | 22 | 34°08'5" S. 151°36'4" E. | | 200 | 13.90 | 19.53 | 35.28 | 26.44 |
| | | | | 250 | 13.10 | 19.49 | 35.21 | 26.56 |
| | | | | 300 | 12.20 | 19.46 | 35.16 | 26.69 |
| | | | | 400 | 10.80 | 19.35 | 34.96 | 26.79 |
| 27.xi | 23 | 37°04' S. 150°05' E. | | 0 | 15.90 | 19.57 | 35.35 | 26.06 |
| | | | | 25 | 15.30 | 19.55 | 35.32 | 26.17 |
| | | | | 50 | 13.60 | 19.57 | 35.35 | 26.56 |
| | | | | 75 | 13.80 | 19.57 | 35.35 | 26.52 |
| | 24 | 37°04' S. 150°11'4" E. | | 0 | 16.30 | 19.54 | 35.30 | 25.93 |
| | | | | 25 | 15.80 | 19.57 | 35.35 | 26.08 |
| | | | | 50 | 13.70 | 19.57 | 35.35 | 26.54 |
| | | | | 75 | 13.60 | 19.57 | 35.35 | 26.56 |
| | 25 | 37°04' S. 150°17'5" E. | | 0 | 16.00 | 19.57 | 35.35 | 26.04 |
| | | | | 25 | 15.70 | 19.54 | 35.30 | 26.07 |
| | | | | 50 | 14.10 | 19.53 | 35.28 | 26.40 |
| | | | | 75 | 13.80 | 19.58 | 35.37 | 26.54 |
| | 26 | 37°04' S. 150°23'3" E. | | 100 | 14.00 | 19.57 | 35.35 | 26.48 |
| | | | | 0 | 16.60 | 19.57 | 35.35 | 25.90 |
| | | | | 25 | 16.00 | 19.59 | 35.39 | 26.07 |
| | | | | 50 | 15.70 | 19.54 | 35.30 | 26.07 |
| | | | | 75 | 14.00 | 19.57 | 35.35 | 26.48 |
| | | | | 100 | 13.60 | 19.56 | 35.34 | 26.55 |
| | | | | 120 | 13.20 | 19.61 | 35.43 | 26.70 |
| | | | | 150 | 13.00 | 19.56 | 35.34 | 26.67 |
| | | | | 200 | 12.50 | 19.55 | 35.32 | 26.75 |
| | | | | 400 | 9.80 | 19.32 | 34.90 | 26.93 |
| | | | | 0 | 17.90 | 19.63 | 35.46 | 25.67 |
| | | | | 25 | 17.20 | 19.65 | 35.50 | 25.87 |
| | 27 | 37°04' S. 150°30'2" E. | | 50 | 16.70 | 19.61 | 35.43 | 25.93 |
| | | | | 75 | 14.80 | 19.58 | 35.37 | 26.33 |
| | | | | 100 | 14.90 | 19.61 | 35.43 | 26.34 |
| | | | | 150 | 13.80 | 19.56 | 35.34 | 26.51 |
| | | | | 200 | 12.70 | 19.50 | 35.23 | 26.65 |
| | | | | 300 | 11.00 | 19.43 | 35.10 | 26.87 |
| | | | | 400 | 10.20 | 19.33 | 34.92 | 26.87 |
| | | | | | | | | |

erwent Hunter"

| (fathoms) | HYDROLOGICAL OBSERVATIONS | | | | |
|-----------|---------------------------|----------|---------------------|--------------------|----------------|
| | Depth (m.) | Temp °C. | Cl ^o /oo | S ^o /oo | σ _t |
| | 0 | 15.80 | 19.33 | 34.92 | 25.75 |
| | 55 | 15.70 | 19.33 | 34.92 | 25.77 |
| | 0 | 18.20 | 19.63 | 35.46 | 25.59 |
| | 550 | 9.40 | 19.28 | 34.83 | 26.94 |
| | 0 | 16.90 | 19.44 | 35.12 | 25.65 |
| | 60 | 14.90 | 19.44 | 35.12 | 26.10 |
| | 0 | 16.90 | 19.50 | 35.23 | 25.73 |
| | 50 | 15.20 | | | |
| | 0 | 17.50 | 19.60 | 35.41 | 25.73 |
| | 50 | 17.60 | 19.60 | 35.41 | 25.70 |
| | 0 | 17.40 | 19.64 | 35.48 | 25.80 |
| | 60 | 17.30 | | | |
| | 0 | 17.80 | 19.70 | 35.59 | 25.79 |
| | 50 | 15.10 | 19.63 | 35.46 | 26.32 |
| | 0 | 18.70 | 19.65 | 35.50 | 25.50 |
| | 55 | 14.90 | 19.64 | 35.48 | 26.38 |
| | 0 | 18.80 | 19.67 | 35.53 | 25.50 |
| | 55 | 16.00 | 19.66 | 35.52 | 26.16 |
| | 0 | 16.60 | 19.68 | 35.55 | 26.05 |
| | 50 | 16.00 | 19.68 | 35.55 | 26.19 |
| | 0 | 17.70 | 19.72 | 35.62 | 25.84 |
| | 55 | 15.50 | 19.70 | 35.59 | 26.33 |
| | 0 | 18.00 | 19.74 | 35.66 | 25.79 |
| | 40 | 16.40 | 19.70 | 35.59 | 26.12 |
| | 0 | 16.00 | 19.59 | 35.39 | 26.07 |
| | 50 | 16.00 | 19.60 | 35.41 | 26.08 |

F.R.V. "Derwent Hunter"

| Date | Station | Position | Sounding (fathoms) | HYDROLOGICAL OBSERVATIONS | | | | |
|------|---------|-------------------------|-----------------------|---------------------------|----------------|----------------|----------------|----------------|
| | | | | Depth (m.) | Temp °C. | Cl°/oo | S°/oo | σ_t |
| 1953 | | | | | | | | |
| 9.v | 27/53 | 40°10' S. 143°46' E. | | 0 50 | 15.80 15.30 | 19.65 19.62 | 35.50 35.44 | 26.20 26.26 |
| 11.v | 29/53 | 40°43' S. 145°21' E. | | 0 25 | 15.00 14.80 | 19.67 19.66 | 35.53 35.52 | 26.40 26.43 |
| 12.v | 30/53 | 40°52' S. 146°00' E. | | 0 60 | 15.20 15.20 | 19.66 19.64 | 35.52 35.48 | 26.34 26.31 |
| 29.v | 36/53 | 38°34' S. 145°21' E. | | 0 60 | 15.05 14.90 | 19.64 19.65 | 35.48 35.50 | 26.34 26.40 |
| | 37/53 | 38°59' S. 145°54' E. | | 0 65 | 15.30 15.20 | | | |
| 30.v | 38/53 | 39°10' S. 146°23' E. | | 0 60 | 15.00 15.00 | 19.67 19.70 | 35.53 35.59 | 26.40 26.44 |
| | 39/53 | 39°26' S. 147°20' E. | | 0 55 | 14.90 14.90 | 19.74 19.67 | 35.66 35.53 | 26.52 26.42 |
| 2.vi | 40/53 | 39°06' S. 148°16' E. | | 0 55 | 14.10 14.10 | 19.69 19.67 | 35.57 35.53 | 26.63 26.60 |
| | 44/53 | 39°21' S. 148°45' E. | | 0 500 | 14.10 8.40 | 19.54 19.17 | 35.30 34.63 | 26.42 26.93 |
| | 45/53 | 39°56' S. 148°34' E. | | 0 45 | 12.70 12.70 | 19.61 19.64 | 35.43 35.48 | 26.80 26.84 |
| | 46/53 | 40°42' S. 148°55' E. | | 0 675 | 15.10 9.10 | 19.64 19.22 | 35.48 34.72 | 26.33 26.90 |
| | 47/53 | 40°49' S. 148°30' E. | | 0 60 | 12.90 13.10 | 19.41 19.43 | 35.07 35.10 | 26.48 26.47 |
| | 49/53 | 41°55' S. 148°29' E. | | 0 50 | 12.90 13.10 | 19.42 19.45 | 35.08 35.14 | 26.49 26.50 |

F.R.V. "Derwent Hunter"

| Date | Station | Position | Sounding (fathoms) | HYDROLOGICAL OBSERVATIONS | | | | | |
|---------|---------|-------------------------|-----------------------|---------------------------|----------------|--------------------|-------------------|----------------|--|
| | | | | Depth (m.) | Temp °C. | Cl ^o /∞ | S ^o /∞ | σ _t | |
| 1953 | | | | | | | | | |
| 15.vi | 50/53 | 42°32' S. 148°30' E. | | 0 550 | 13.00 9.00 | 19.48 19.18 | 35.19 34.65 | 26.56 26.75 | |
| 19.vi | 51/53 | 43°31' S. 147°22' E. | | 0 60 | 12.95 13.20 | 19.43 19.45 | 35.10 35.14 | 26.50 26.48 | |
| 14.viii | 55/53 | 38°30' S. 142°16' E. | | 0 40 | 13.30 13.10 | 19.71 19.71 | 35.61 35.61 | 26.82 26.86 | |
| 15.viii | 56/53 | 38°35' S. 144°03' E. | | 0 60 | 12.90 12.90 | 19.75 19.74 | 35.68 35.66 | 26.95 26.94 | |
| 22.viii | 58/53 | 38°34' S. 145°21' E. | | 0 63 | 12.80 12.40 | 19.77 19.74 | 35.71 35.66 | 27.00 27.04 | |
| 23.viii | 59/53 | 38°59' S. 145°54' E. | | 0 70 | 12.60 12.10 | 19.73 19.69 | 35.64 35.57 | 26.98 27.03 | |
| | 60/53 | 39°10' S. 146°23' E. | | 0 63 | 11.80 11.80 | 19.60 19.70 | 35.41 35.59 | 26.96 27.10 | |
| | 61/53 | 39°26' S. 147°20' E. | | 0 47 | 12.40 12.40 | 19.67 19.89 | 35.53 35.93 | 26.94 27.25 | |
| 28.viii | 62/53 | 39°21' S. 148°45' E. | | 0 500 | 13.90 9.60 | 19.62 19.26 | 35.44 34.79 | 26.56 26.88 | |
| 6.ix | 64/53 | 39°56' S. 148°34' E. | | 0 50 | 11.80 11.80 | 19.53 19.51 | 35.28 35.25 | 26.86 26.83 | |
| 22.ix | 66/53 | 38°35' S. 144°03' E. | | 0 55 | 12.50 12.40 | 19.61 | 35.43 | 26.84 | |
| | 67/53 | 38°57' S. 143°34' E. | | 0 70 | 12.70 12.80 | 19.62 | 35.44 | 26.81 | |
| 23.ix | 68/53 | 39°40' S. 142°45' E. | | 0 840 | 12.60 8.40 | 19.58 | 35.37 | 26.78 | |

F.R.V. "Derwent Hunter"

| Date | Station | Position | Sounding (fathoms) | HYDROLOGICAL OBSERVATIONS | | | | |
|-------|---------|-------------------------|-----------------------|---------------------------|----------------|----------------|----------------|----------------|
| | | | | Depth (m.) | Temp °C. | Cl°/oo | S°/oo | σ_t |
| 1953 | | | | | | | | |
| 24.ix | 69/53 | 40°10' S. 143°46' E. | | 0 70 | 12.60 12.60 | 19.61 | 35.43 | 26.82 |
| 25.ix | 71/53 | 40°43' S. 145°21' E. | | 0 25 | 11.30 11.20 | 19.37 | 34.99 | 26.73 |
| | 72/53 | 40°52' S. 146°00' E. | | 0 60 | 11.20 11.20 | 19.38 | 35.01 | 26.77 |
| 27.ix | 74/53 | 40°46' S. 147°40' E. | | 0 25 | 11.60 11.50 | 19.44 19.45 | 35.12 35.14 | 26.77 26.81 |
| 28.ix | 75/53 | 40°49' S. 148°30' E. | | 0 60 | 11.70 11.50 | 19.45 19.44 | 35.14 35.12 | 26.77 26.79 |
| | 76/53 | 40°42' S. 148°55' E. | | 0 750 | 12.90 6.80 | 19.54 19.09 | 35.30 34.49 | 26.66 27.06 |
| 29.ix | 78/53 | 41°55' S. 148°29' E. | | 0 75 | 11.80 11.70 | 19.48 19.46 | 35.19 35.16 | 26.79 26.78 |
| 2.x | 80/53 | 42°32' S. 148°30' E. | | 0 680 | 12.00 8.00 | 19.52 19.12 | 35.26 34.54 | 26.81 26.94 |
| 4.x | 82/53 | 43°31' S. 147°22' E. | | 0 60 | 11.50 11.50 | 19.23 19.38 | 34.74 35.01 | 26.50 26.72 |
| 20.xi | 83/53 | 43°00' S. 145°24' E. | | 0 90 | 12.90 12.10 | 19.14 19.42 | 34.58 35.08 | 26.11 26.65 |
| 21.xi | 84/53 | 43°00' S. 145°05' E. | | 0 600 | 12.10 8.30 | 19.38 19.19 | 35.01 34.67 | 26.60 26.99 |
| | 85/53 | 43°00' S. 145°09' E. | | 0 200 | 12.00 10.90 | 19.40 | 35.05 | 26.84 |
| | 86/53 | 41°26' S. 144°37' E. | | 0 50 | 12.90 11.80 | 19.38 | 35.01 | 26.45 |

F.R.V. "Derwent Hunter"

| Date | Station | Position | Sounding (fathoms) | HYDROLOGICAL OBSERVATIONS | | | | |
|---------------|------------|------------|-----------------------|---------------------------|-------------|--------------------|-------------------|----------------|
| | | | | Depth (m.) | Temp °C. | Cl ^o /∞ | S ^o /∞ | σ _t |
| 1953 21.xi | 87/53 | 41°26' S. | | 0 | 13.50 | 19.54 | 35.30 | 26.54 |
| | | 144°18' E. | | 600 | 10.90 | | | |
| | 88/53 | 41°26' S. | | 0 | 13.50 | 19.52 | 35.26 | 26.51 |
| | | 144°23' E. | | 200 | 10.80 | | | |
| | 89/53 | 40°41' S. | | 0 | 13.20 | 19.54 | 35.30 | 26.60 |
| 143°34' E. | | | 600 | 8.40 | | | | |
| 90/53 | 40°41' S. | | 0 | 13.00 | 19.44 | 35.12 | 26.50 | |
| | 143°35' E. | | 190 | 11.80 | | | | |
| 91/53 | 40°41' S. | | 0 | 12.80 | 19.44 | 35.12 | 26.54 | |
| | 144°30' E. | | 60 | 12.20 | | | | |

H.M.A.S. "Warrego"

| Date | Station | Position | Sounding (fathoms) | HYDROLOGICAL OBSERVATIONS | | | | |
|---------------|---------|----------------------------|-----------------------|---------------------------|-------------|--------|-------|----------------|
| | | | | Depth (m.) | Temp °C. | Cl°/oo | S°/oo | σ _t |
| 1953 24.1x | 1 | 28°5'6" S. 153°40'5" E. | | 0 | 20.50 | 19.63 | 35.46 | 25.00 |
| | | | | 25 | 19.80 | 19.64 | 35.48 | 25.19 |
| | | | | 50 | 17.80 | 19.59 | 35.39 | 25.64 |
| | 2 | 28°5'6" S. 153°45'5" E. | | 0 | 21.80 | 19.56 | 35.34 | 24.55 |
| | | | | 25 | 21.80 | 19.61 | 35.43 | 24.61 |
| | | | | 50 | 20.20 | 19.60 | 35.41 | 25.04 |
| | | | | 75 | 18.40 | 19.59 | 35.39 | |
| | 3 | 28°5'6" S. 153°50'5" E. | | 0 | 22.30 | 19.57 | 35.35 | 24.42 |
| | | | | 25 | 22.20 | 19.58 | 35.37 | 24.47 |
| | | | | 50 | 22.30 | 19.63 | 35.46 | 24.50 |
| | | | | 75 | 22.20 | 19.61 | 35.43 | 24.50 |
| | | | | 100 | 21.60 | 19.62 | 35.44 | 24.68 |
| | | | | 150 | 18.80 | 19.57 | 35.35 | 25.36 |
| | 4 | 28°5'6" S. 153°55'5" E. | | 0 | 22.30 | 19.64 | 35.48 | 24.51 |
| | | | | 25 | 22.30 | 19.58 | 35.37 | 24.44 |
| | | | | 50 | 22.30 | 19.69 | 35.57 | 24.59 |
| | | | | 75 | 22.10 | 19.53 | 35.28 | 24.42 |
| | | | | 100 | 22.30 | 19.64 | 35.48 | 24.51 |
| | | | | 150 | 20.20 | 19.63 | 35.46 | 25.08 |
| | | | | 200 | 18.00 | 19.60 | 35.41 | 25.60 |
| | | | | 250 | 16.40 | 19.58 | 35.37 | 25.96 |
| | | | | 300 | 15.40 | 19.56 | 35.34 | 26.16 |
| | 5 | 28°5'6" S. 153°60'5" E. | | 0 | 22.30 | 19.63 | 35.46 | 24.50 |
| | | | | 25 | 22.30 | 19.68 | 35.55 | 24.57 |
| | | | | 50 | 22.30 | 19.67 | 35.53 | 24.56 |
| | | | | 75 | 22.30 | 19.67 | 35.53 | 24.56 |
| | | | | 100 | 21.90 | 19.66 | 35.52 | 24.65 |
| | | | | 150 | 20.70 | 19.70 | 35.59 | 25.04 |
| | | | | 200 | 19.00 | 19.67 | 35.53 | 25.45 |
| | | | | 250 | 17.40 | 19.62 | 35.44 | 25.77 |
| | | 300 | 15.70 | 19.55 | 35.32 | 26.08 | | |
| | | 400 | 12.90 | 19.46 | 35.16 | 26.55 | | |

H.M.A.S. "Warrego"

| Date | Station | Position | Sounding (fathoms) | HYDROLOGICAL OBSERVATIONS | | | | |
|---------------|---------|---------------------------|-----------------------|---------------------------|-------------|--------------------|-------------------|----------------|
| | | | | Depth (m.) | Temp °C. | Cl ^o /∞ | S ^o /∞ | σ _t |
| 1953 24.ix | 6 | 30°55'5" S. 153°10' E. | | 0 | 22.20 | 19.55 | 35.32 | 24.42 |
| | | | | 25 | 20.20 | 19.64 | 35.48 | 25.09 |
| | | | | 50 | 19.70 | 19.64 | 35.48 | 25.22 |
| | | | | 75 | 19.40 | 19.64 | 35.48 | 25.30 |
| | | | | 100 | 18.90 | 19.65 | 35.50 | 25.45 |
| | 7 | 30°55'5" S. 153°15' E. | | 0 | 22.30 | 19.55 | 35.32 | 24.39 |
| | | | | 25 | 22.30 | 19.55 | 35.32 | 24.39 |
| | | | | 50 | 22.20 | 19.54 | 35.30 | 24.41 |
| | | | | 75 | 21.80 | | | |
| | | | | 100 | 20.80 | | | |
| | | | | 150 | 18.80 | 19.60 | 35.41 | 25.40 |
| | | | | 200 | 15.40 | 19.50 | 35.23 | 26.08 |
| | 8 | 30°55'5" S. 153°20' E. | | 0 | 22.00 | 19.58 | 35.37 | 24.53 |
| | | | | 25 | 22.10 | 19.58 | 35.37 | 24.50 |
| | | | | 50 | 22.00 | 19.57 | 35.35 | 24.51 |
| | | | | 75 | 22.00 | 19.61 | 35.43 | 24.56 |
| | | | | 100 | 21.00 | 19.63 | 35.46 | 24.86 |
| | | | | 150 | 19.80 | 19.64 | 35.48 | 25.19 |
| | | | | 200 | 17.80 | 19.62 | 35.44 | 25.67 |
| | | | | 250 | 16.50 | 19.55 | 35.32 | 25.89 |
| | | | | 300 | 14.80 | 19.51 | 35.25 | 26.22 |
| | | | | 300 | 14.80 | 19.51 | 35.25 | 26.22 |
| | | | | 400 | 12.40 | 19.40 | 35.05 | 26.56 |
| | 9 | 30°55'5" S. 153°25' E. | | 0 | 22.20 | 19.56 | 35.34 | 24.44 |
| | | | | 25 | 22.20 | 19.59 | 35.39 | 24.48 |
| | | | | 50 | 22.10 | 19.63 | 35.46 | 24.56 |
| | | | | 75 | 21.10 | 19.69 | 35.57 | 24.92 |
| | | | | 100 | 20.70 | 19.69 | 35.57 | 25.03 |
| | | | | 150 | 20.30 | 19.63 | 35.46 | 25.05 |
| | | | | 200 | 18.50 | 19.60 | 35.41 | 25.48 |
| | | | | 250 | 18.10 | 19.63 | 35.46 | 25.62 |
| | | | | 300 | 16.80 | 19.59 | 35.39 | 25.88 |
| | | | | 400 | 13.70 | 19.45 | 35.14 | 26.38 |

H.M.A.S. "Warrego"

| Date | Station | Position | Sounding (fathoms) | HYDROLOGICAL OBSERVATIONS | | | | |
|---------------|---------|---------------------------|-----------------------|---------------------------|-------------|-------|-------|----------------|
| | | | | Depth (m.) | Temp °C. | Cl°/∞ | S°/∞ | σ _t |
| 1953 24.ix | 10 | 30°55'5" S. 153°30' E. | | 0 | 22.00 | 19.56 | 35.34 | 24.50 |
| | | | | 25 | 21.50 | 19.59 | 35.39 | 24.67 |
| | | | | 50 | 20.70 | 19.63 | 35.46 | 24.94 |
| | | | | 75 | 20.60 | 19.63 | 35.46 | 24.97 |
| | | | | 100 | 20.50 | 19.65 | 35.50 | 25.03 |
| | | | | 150 | 19.80 | 19.65 | 35.50 | 25.21 |
| | | | | 200 | 18.60 | | | |
| | | | | 250 | 18.40 | | | |
| | | | | 300 | 18.30 | | | |
| | | | | 400 | 14.70 | 19.50 | 35.23 | 26.23 |
| 26.xi | 11 | 34°05' S. 151°13' E. | | 0 | 18.80 | 19.67 | 35.53 | 25.50 |
| | | | | 25 | 18.80 | 19.66 | 35.52 | 25.48 |
| | | | | 50 | 17.50 | 19.63 | 35.46 | 25.77 |
| | 12 | 34°05' S. 151°18' E. | | 0 | 19.00 | 19.67 | 35.53 | 25.45 |
| | | | | 25 | 19.00 | 19.67 | 35.53 | 25.45 |
| | | | | 50 | 18.40 | 19.63 | 35.46 | 25.54 |
| | 75 | 14.30 | 19.55 | 35.32 | 26.38 | | | |
| | 100 | 13.60 | 19.50 | 35.23 | 26.46 | | | |
| 13 | 13 | 34°05' S. 151°23' E. | | 0 | 18.90 | 19.68 | 35.55 | 25.48 |
| | | | | 25 | 18.40 | 19.67 | 35.53 | 25.60 |
| | | | | 50 | 17.80 | 19.67 | 35.53 | 25.75 |
| | | | | 75 | 15.30 | 19.58 | 35.37 | 26.22 |
| | | | | 100 | 14.40 | 19.56 | 35.34 | 26.38 |
| 14 | 14 | 34°05' S. 151°28' E. | | 0 | 18.50 | 19.63 | 35.46 | 25.52 |
| | | | | 25 | 18.60 | 19.63 | 35.46 | 25.49 |
| | | | | 50 | 18.10 | 19.59 | 35.39 | 25.57 |
| | | | | 75 | 15.70 | 19.59 | 35.39 | 26.14 |
| | | | | 100 | 15.80 | 19.59 | 35.39 | 26.11 |
| | | | | 150 | 14.10 | 19.52 | 35.26 | 26.39 |
| | | | | 200 | 14.00 | 19.54 | 35.30 | 26.44 |
| | | | | 250 | 13.40 | 19.50 | 35.23 | 26.51 |

H.M.A.S. "Warrego"

| Date | Station | Position | Sounding (fathoms) | HYDROLOGICAL OBSERVATIONS | | | | |
|---------------|---------|-------------------------|-----------------------|---------------------------|-------------|--------|-------|----------------|
| | | | | Depth (m.) | Temp °C. | Cl°/oo | S°/oo | σ _t |
| 1953 26.xi | 15 | 34°08' S. 151°38' E. | | 0 | 18.20 | 19.59 | 35.39 | 25.54 |
| | | | | 25 | 18.30 | 19.59 | 35.39 | 25.52 |
| | | | | 50 | 18.20 | 19.61 | 35.43 | 25.56 |
| | | | | 75 | 16.80 | 19.60 | 35.41 | 25.89 |
| | | | | 100 | 13.70 | 19.49 | 35.21 | 26.43 |
| | | | | 150 | 12.90 | 19.45 | 35.14 | 26.54 |
| | | | | 200 | 12.80 | 19.46 | 35.16 | 26.57 |
| | | | | 250 | 12.20 | 19.43 | 35.10 | 26.65 |
| | | | | 290 | 11.80 | 19.37 | 34.99 | 26.64 |
| | | | | 367 | 11.00 | 19.33 | 34.92 | 26.73 |