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data report

PHYSICAL, CHEMICAL AND BIOLOGICAL DATA

TASADAY EXPEDITION

Leg I 5 June - 1 July 1973

Leg II 8 - 18 July 1973

Leg III 22 July - 4 August 1973

Leg IV 13 August - 6 September 1973

SIO Reference 91-28
1 December 1991

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TASADAY EXPEDITION aboard RV Thomas Washington was a multidisciplinary oceanographic expedition in the Pacific and Indian Oceans during 1973-1974. This report presents the physical, chemical and some of the biological data for Legs I, II, III and the physical and chemical data for Leg IV, all in the Pacific Ocean during 1973. These and other data not included in this report resulted in publications listed in the CONTENTS. No physical, chemical or biological data were collected during Legs V, VI or VII. Data collected during . . .

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UNIVERSITY OF CALIFORNIA

SCRIPPS INSTITUTION OF OCEANOGRAPHY

PHYSICAL, CHEMICAL AND BIOLOGICAL DATA

TASADAY Expedition - Legs I, II, III and IV

Leg I, 5 June - 1 July 1973

Leg II, 8 - 15 July 1973

Leg III, 22 July - 4 August 1973

Leg IV, 13 August - 6 September 1973

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INTRODUCTION

TASADAY EXPEDITION aboard RV *Thomas Washington* was a multidisciplinary oceanographic expedition in the Pacific and Indian Oceans during 1973-1974. This report presents the physical, chemical and some of the biological data for Legs I, II, III and the physical and chemical data for Leg IV, all in the Pacific Ocean during 1973. These and other data not included in this report resulted in publications listed in the CONTENTS. No physical, chemical, or biological data were collected during Legs V, VI or VII. Data collected during 1974 will appear in a later report.

Preceding the tabulated data for Legs I, II and III and for Leg IV of this Expedition are: (1) a description of the principal objectives and the hydrographic work carried out; (2) a description of any "non-standard" procedure; (3) a list of station positions with date, time and type of data collected; (4) a chart of station positions and (5) a list of scientific personnel participating in the collection of data.

The physical and chemical data were collected in part and processed by the Data Collection and Processing Group, Marine Life Research Group (DCPG, MLRG), Scripps Institution of Oceanography. The final processing and publication of the data were supported by MLRG and the Data Rescue Program of the National Oceanographic Data Center (NODC).

STANDARD PROCEDURES

Hydrographic Cast Data

Temperature was measured using paired deep-sea reversing thermometers and is reported to hundredths of a Celsius degree. Most Nansen bottles below 100 meters included unprotected (pressure) thermometers for depth determination.

Water samples on most stations were collected by Nansen bottles hung on the STD wire in conjunction with STD lowerings. Salinity for Legs I and III (no samples were collected during Leg II) was determined using an inductive salinometer. Samples from shallow casts on Leg IV were determined by inductive salinometer; a University of Washington (1960) conductive bridge was used to determine samples from deep casts. The values, tabulated in parts per thousand (‰), are reported to three decimal places provided the values meet accepted standards. The values are reported to two places when only one determination per sample was obtained or when the accuracy of a particular sample is in doubt.

Dissolved oxygen was determined by the Winkler method as modified by Carpenter (1965), using the equipment and procedures outlined by Anderson (1971). Determinations were made of reactive phosphate, reactive silicate, nitrite and nitrate with an automated analyzer by methods suggested by Strickland and Parsons (1968). Nutrient samples for many stations on Leg III were frozen for periods of four hours to six days before processing.

Chlorophyll-*a* and phaeopigments were determined from 500-550 ml water samples according to the fluorometric procedure outlined by Strickland and Parsons (1968; Sec.IV.3). The fluorometer was calibrated against a spectrophotometer using near-surface populations and cultures.

In situ Salinity/Temperature/Depth Recorder (STD) Data

The Bissett-Berman Model 9006 STD operated well throughout all Legs included in this report. A few lowerings of the Bissett-Berman Model 9040 CSTD were made on Legs I and IV. Any corrections to temperature and salinity were determined by comparison with the Nansen bottle data.

The observed data have been evaluated using the method described by Klein (1973). This involves consideration of their variation as functions of density or depth and their relations to each other, and comparison with adjacent observations.

TABULATED DATA

Hydrographic Cast Data

The reported hydrographic cast time is Greenwich Mean Time (GMT). For STD lowerings it is the "start down" time and for the bottle casts, it is the time of the messenger release on the STD wire.

Bottom depths, determined acoustically, have been corrected using Matthews (1939) tables and are reported in meters. The weather and dominate waves are coded using the National Oceanographic Data Center (NODC) method.

For the few hydrographic stations on Legs I and IV where salinity samples were collected from all Nansen bottles, data for observed depths are tabulated without interpolation. Salinities, calculated at time of collection, are tabulated in parts per thousand (%) as in previous expedition reports. Density-related parameters have been calculated from the International Equation of State of Seawater 1980 (EOS80, UNESCO, 1981). Computed values of potential temperature, sigma-theta ($\sigma\theta$), specific volume anomaly (SVA), dynamic height or geopotential anomaly and pressure are included with the observed depths.

In situ Salinity/Temperature/Depth Recorder (STD) Data

Most STD lowerings were recorded by a digital data logger (DDL) Model 8114. For a few stations where the STD was inoperable or did not begin recording at the surface, the data were digitized from the analog chart. The data are tabulated for the same standard depth levels as in earlier reports but have additional data columns as are noted for the observed data.

Chlorophyll-*a* and phaeopigments are tabulated with the hydrographic cast data.

FOOTNOTES

In addition to footnotes, special notations are used without footnotes because the meaning is always the same.

P: After depth value indicates the Nansen bottle posttripped.

U: Uncertain value. Values which seem to be in error without apparent reason.

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TASADAY EXPEDITION

LEGS I, II and III

The first Leg of the Tasaday Expedition had the dual purpose of investigating the temperature and salinity microstructure of the water column and studying various aspects of the biological energy flow, nutrient cycling and planktonic standing stocks in a "stable" oceanic community. The principal site of study for both projects was in the central gyral region of the North Pacific* although considerable work was also accomplished at a location near the western edge of the California Current. This latter site was of particular interest to the microstructure studies because of simultaneous work being conducted from a stable platform provided by the RV *FLIP* and by the USNS *Bartlett* where studies on horizontal microstructure were being carried out.

Leg II of Tasaday Expedition, in the same area of the North Pacific Gyre, provided for additional investigations which could not be included on Leg I.

Investigations conducted on Leg III were designed to provide data on the westward extent of the central gyre water mass.

TABULATED DATA

The data for Leg I consist mainly of STD tabulations at standard depths. The hydrographic data are reported as biological stations with observed depths, temperature, nutrients, chlorophyll and phaeopigments and as microstructure stations with observed depths, temperature, salinity and oxygen.

No water samples for salinity or nutrient determinations were collected for the nine stations of Leg II. The last calibration correction applied to the STD data for Leg I was continued on the data for Leg II. The hydrographic cast tabulations consist of observed depths, temperature, chlorophyll and phaeopigments.

The hydrographic cast data for Leg III again consists of observed depths, temperature, nutrients, chlorophyll and phaeopigments. However, salinity samples were collected from the top and bottom Nansen bottles for comparison with the STD data.

*SIO Reference 74-20(Climax I Expedition), SIO Reference 75-6(Climax II Expedition) and SIO Reference 90-4(Cato Expedition Legs I and IX).

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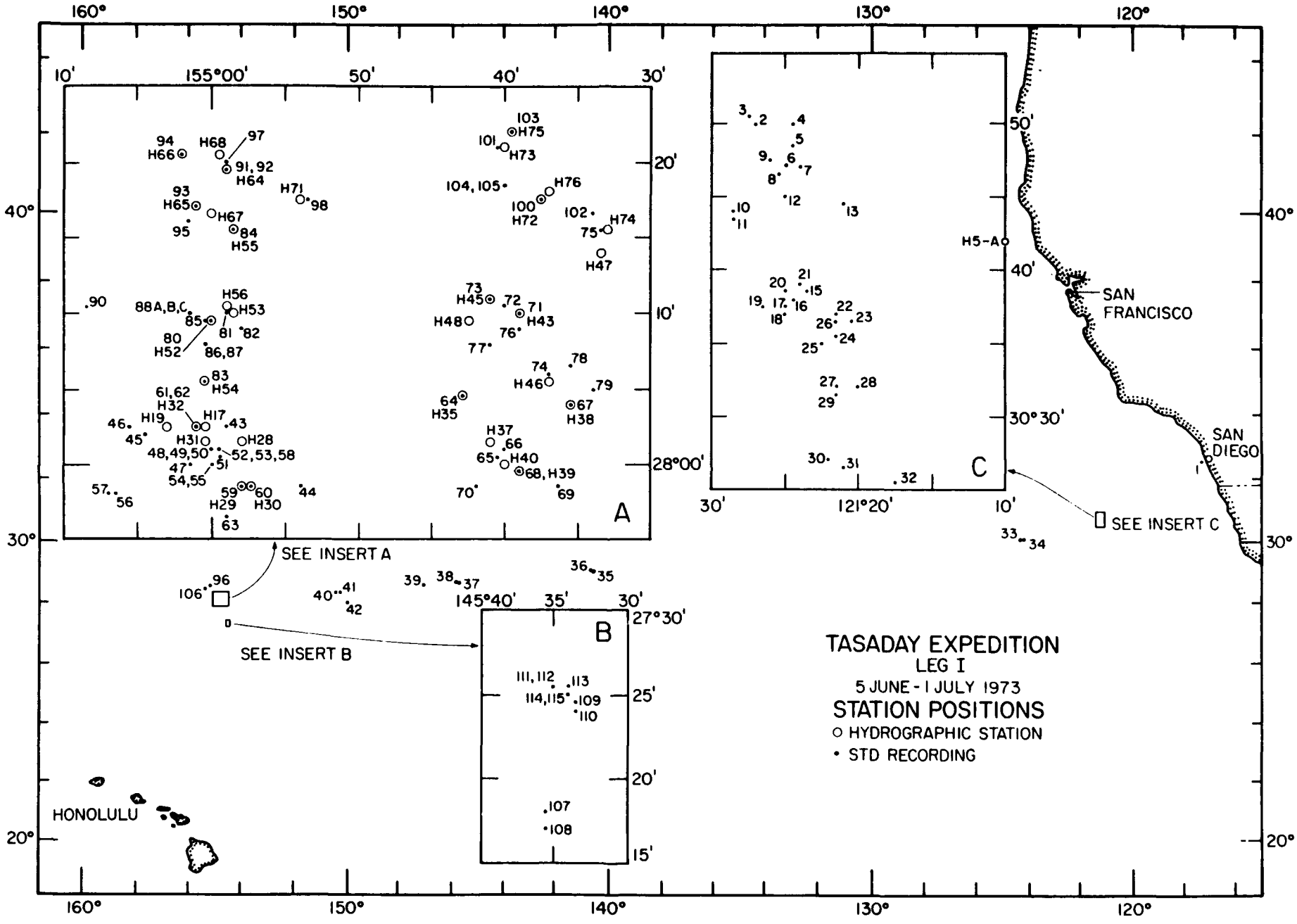

TASADAY EXPEDITION
LEG I
5 JUNE - 1 JULY 1973
STATION POSITIONS
○ HYDROGRAPHIC STATION
• STD RECORDING
SEE INSERT A
SEE INSERT B
SEE INSERT C
SAN FRANCISCO
SAN DIEGO
HONOLULU
A
B
C
155°00'
145°40'
121°20'
30°30'
28°00'
27°30'
160°
150°
140°
130°
120°
40°
30°
20°

TASADAY EXPEDITION LEG I

STATION POSITIONS

Station Number	Date 1973	Time GMT	Position Latitude N	Position Longitude W	Type of Data*
1	June 5	0437	32° 36.5	117° 24.5	S
2	June 6	0233	30° 50.0	121° 27.0	S
3	June 6	0412	30° 50.5	121° 27.5	S
4	June 6	0510	30° 50.0	121° 24.5	S
5	June 6	0606	30° 48.5	121° 24.5	S
6	June 6	0707	30° 47.0	121° 25.0	S
7	June 6	0811	30° 47.0	121° 24.0	S
8	June 6	0908	30° 46.5	121° 25.5	S
9	June 6	1007	30° 47.5	121° 26.0	S
10	June 6	1110	30° 44.0	121° 28.5	S
11	June 6	1218	30° 43.5	121° 28.5	S
12	June 6	2047	30° 45.0	121° 25.0	S
13	June 7	0005	30° 44.5	121° 21.0	S
5A	June 7	0218	30° 42.0	121° 10.0	H C
15	June 7	1606	30° 38.5	121° 23.5	S
16	June 7	2330	30° 38.0	121° 24.5	S
17	June 8	0159	30° 37.5	121° 25.0	S
18	June 8	0232	30° 37.0	121° 25.0	S
19	June 8	0304	30° 37.5	121° 26.5	S
20	June 8	0337	30° 38.5	121° 25.0	S
21	June 8	0424	30° 39.0	121° 24.0	S
22	June 8	0512	30° 37.0	121° 21.5	S
23	June 8	0545	30° 36.5	121° 20.5	S
24	June 8	0615	30° 35.5	121° 21.5	S
25	June 8	0646	30° 35.0	121° 22.5	S
26	June 8	0725	30° 36.5	121° 21.5	S
27	June 8	1613	30° 32.0	121° 21.5	S
28	June 8	2013	30° 32.0	121° 20.0	S
29	June 8	2235	30° 31.5	121° 21.5	S
30	June 9	1320	30° 27.0	121° 22.0	S
31	June 9	1641	30° 26.5	121° 21.0	S
32	June 9	2010	30° 25.5	121° 17.5	S
33	June 10	1236	30° 04.0	124° 29.5	S
34	June 10	1936	30° 04.0	124° 26.5	S
35	June 13	1816	29° 02.5	140° 33.5	S
36	June 13	1942	29° 02.5	140° 35.5	S
37	June 14	2114	28° 43.0	145° 46.5	S
38	June 14	2219	28° 43.5	145° 48.5	S

*S Salinity/Temperature/Depth Recorder
H Hydrographic
C Chlorophyll

Station Number	Date 1973	Time GMT	Position Latitude N	Position Longitude W	Type of Data*
39	June 15	0436	28° 37.0	147° 02.0	S
40	June 15	1908	28° 20.0	150° 23.0	S
41	June 15	2008	28° 20.0	150° 14.5	S
42	June 16	1846	28° 00.5	154° 59.5	S
17	June 16	2205	28° 02.5	155° 00.5	H C
43	June 17	0051	28° 02.5	154° 59.0	S
44	June 17	1623	27° 58.5	154° 54.0	S
19	June 17	1801	28° 02.5	155° 03.0	H
45	June 17	2003	28° 02.0	155° 04.5	S
46	June 18	0001	28° 02.5	155° 05.5	S
47	June 18	0346	28° 00.0	155° 01.5	S
48	June 18	0441	28° 01.0	155° 00.0	S
49	June 18	0604	28° 01.0	155° 00.0	S
50	June 18	0654	28° 01.0	155° 00.0	S
51	June 18	0839	28° 00.5	154° 59.5	S
52	June 18	0928	28° 01.0	154° 59.5	S
53	June 18	1055	28° 01.0	154° 59.5	S
54	June 18	1219	28° 00.0	155° 00.0	S
55	June 18	1336	28° 00.0	155° 00.0	S
56	June 18	1454	27° 58.0	155° 06.5	S
57	June 18	1619	27° 58.0	155° 07.0	S
58	June 18	1925	28° 01.0	154° 59.5	S
28	June 18	2057	28° 01.5	154° 58.0	H C
59	June 19	0157	27° 58.5	154° 58.0	S
29	June 19	0245	27° 58.5	154° 58.0	H C
60	June 19	0952	27° 58.5	154° 57.5	S
30	June 19	1023	27° 58.5	154° 57.5	H C
31	June 19	1254	28° 01.5	155° 00.5	H
61	June 19	1535	28° 02.5	155° 01.0	S
32	June 19	1605	28° 02.5	155° 01.0	H C
62	June 19	1751	28° 02.5	155° 01.0	S
63	June 20	0133	27° 56.5	154° 59.0	S
64	June 20	1502	28° 04.5	154° 42.5	S
35	June 20	1531	28° 04.5	154° 42.5	H C
65	June 20	1717	28° 00.5	154° 40.5	S
66	June 20	1913	28° 01.0	154° 40.5	S
37	June 20	2105	28° 01.5	154° 41.0	H C
67	June 21	0208	28° 04.0	154° 35.5	S
38	June 21	0237	28° 04.0	154° 35.5	H C
68	June 21	0939	27° 59.5	154° 39.0	S
39	June 21	1017	27° 59.5	154° 39.0	H C
40	June 21	1315	28° 00.0	154° 40.0	H
69	June 21	1642	27° 58.5	154° 36.0	S
70	June 22	0107	27° 58.5	154° 42.0	S
71	June 22	1349	28° 10.0	154° 39.0	S
43	June 22	1421	28° 10.0	154° 39.0	H C
72	June 22	1646	28° 10.5	154° 40.0	S
73	June 22	1923	28° 11.0	154° 41.0	S

Station Number	Date 1973	Time GMT	Position Latitude N	Position Longitude W	Type of Data*
45	June 22	2045	28° 11.0	154° 41.0	H C
74	June 23	0155	28° 06.0	154° 37.0	S
46	June 23	0229	28° 05.5	154° 37.0	H C
75	June 23	0812	28° 15.5	154° 33.5	S
47	June 23	0853	28° 14.0	154° 33.5	H C
48	June 23	1308	28° 09.5	154° 42.5	H
76	June 23	1716	28° 09.0	154° 39.0	S
77	June 23	2132	28° 08.0	154° 41.0	S
78	June 24	0654	28° 06.5	154° 35.5	S
79	June 24	0855	28° 05.0	154° 34.0	S
80	June 24	1412	28° 09.5	155° 00.0	S
52	June 24	1447	28° 09.5	155° 00.0	H C
81	June 24	1700	28° 10.0	154° 59.0	S
82	June 24	1944	28° 09.0	154° 58.0	S
53	June 24	2110	28° 10.0	154° 58.5	H C
83	June 25	0139	28° 05.5	155° 00.5	S
54	June 25	0211	28° 05.5	155° 00.5	H C
84	June 25	0739	28° 15.5	154° 58.5	S
55	June 25	0815	28° 15.5	154° 58.5	H C
56	June 25	1056	28° 10.5	154° 59.0	H
85	June 25	1557	28° 09.5	155° 00.5	S
86	June 25	1952	28° 08.0	155° 00.5	S
87	June 25	2016	28° 08.0	155° 00.5	S
88A	June 26	0024	28° 10.0	155° 01.5	S
88B	June 26	0034	28° 10.0	155° 01.5	S
88C	June 26	0046	28° 10.0	155° 01.5	S
90	June 26	0731	28° 10.5	155° 08.5	S
91	June 26	1318	28° 19.5	154° 59.0	S
92	June 26	1355	28° 19.5	154° 59.0	S
64	June 26	1428	28° 19.5	154° 59.0	H C
93	June 26	1940	28° 17.0	155° 01.0	S
65	June 26	2054	28° 17.0	155° 01.0	H C
94	June 27	0156	28° 20.5	155° 02.0	S
66	June 27	0229	28° 20.5	155° 02.0	H C
95	June 27	0817	28° 16.0	155° 01.5	S
67	June 27	0851	28° 16.5	155° 00.0	H C
68	June 27	1200	28° 20.5	154° 59.5	H
96	June 27	2123	28° 37.0	155° 14.0	S
97	June 28	0113	28° 20.0	154° 59.0	S
98	June 28	0850	28° 17.5	154° 53.5	S
71	June 28	1032	28° 17.5	154° 54.0	H
100	June 28	1614	28° 17.5	154° 37.5	S
72	June 28	1630	28° 17.5	154° 37.5	H C
101	June 28	1919	28° 21.0	154° 40.5	S
73	June 28	2053	28° 21.0	154° 40.0	H C
102	June 29	0152	28° 16.5	154° 34.0	S
74	June 29	0222	28° 15.5	154° 33.0	H C
103	June 29	0815	28° 22.0	154° 39.5	S

Station Number	Date 1973	Time GMT	Position Latitude N	Position Longitude W	Type of Data*
75	June 29	0847	28° 22.0	154° 39.5	H C
76	June 29	1142	28° 18.0	154° 37.0	H
104	June 29	1622	28° 18.5	154° 40.0	S
105	June 29	1640	28° 18.5	154° 40.0	S
106	June 29	2323	28° 30.5	154° 27.5	S
107	July 1	0210	27° 18.0	154° 35.5	S
108	July 1	0309	27° 17.0	154° 35.5	S
109	July 1	0403	27° 24.5	154° 33.5	S
110	July 1	0450	27° 24.0	154° 33.5	S
111	July 1	0600	27° 25.5	154° 35.0	S
112	July 1	0644	27° 25.5	154° 35.0	S
113	July 1	0749	27° 25.5	154° 34.0	S
114	July 1	0911	27° 25.0	154° 34.0	S
115	July 1	0946	27° 25.0	154° 34.0	S

PERSONNEL

TASADAY EXPEDITION, LEG I

SHIP'S CAPTAIN

Newbegin, Robert C.

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

Beers, John R.	Co-Chief Scientist, SIO
Gregg, Michael C.	Co-Chief Scientist, SIO
Cuhel, R.L.	Student/Technician, SIO
Heinbokel, J.F.	Graduate Student, SIO
Johnson, C.L.	Graduate Student, SIO
Johnson, W.P.	Electronic Technician, SIO
Kaye, H. Ross	Electronic Technician, SIO
Lucas, Jack C.	Technician, SIO
Moe, Ronald L.	Computer Technician, SIO
Morris, Jr., G.R.	Computer Consultant
Mullin, Michael M.	Associate Professor, SIO
Parks, W. Martin	Electronic Technician, SIO
Perry, M.J.	Graduate Student, SIO
Renger, Edward H.	Staff Research Associate, SIO
Shulenberger, Eric	Graduate Student, SIO
Smith, J.R.	Graduate Student, SIO
Venrick, Elizabeth L.	Assistant Research Biologist, SIO
Wells, James A.	Resident Technician, SIO

STD 1 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
32 36.5 N	117 24.5 W	05/06/73	0437 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	16.86	16.86	33.65	24.512	341.2	0.000	0
10	16.74	16.74	33.63	24.525	340.3	0.034	10
20	15.10	15.10	33.59	24.865	308.3	0.067	20
30	12.83	12.83	33.54	25.297	267.3	0.095	30
50	11.26	11.25	33.56	25.609	238.0	0.146	50
75	10.27	10.26	33.78	25.955	205.6	0.201	76
100	9.85	9.84	33.88	26.105	191.9	0.251	101
125	9.27	9.26	33.95	26.255	178.0	0.297	126
150	8.83	8.81	33.95	26.326	171.7	0.341	151
200	7.98	7.96	34.00	26.495	156.3	0.423	201
250	7.45	7.43	34.04	26.603	146.7	0.499	252
300	6.83	6.80	34.08	26.721	135.9	0.569	302
400	6.71	6.67	34.26	26.880	122.4	0.698	403
500	6.17	6.13	34.30	26.984	113.6	0.816	504
600	5.51	5.46	34.35	27.106	102.6	0.925	605
700	5.05	4.99	34.39	27.193	95.0	1.023	706
750	4.84	4.78	34.41	27.233	91.4	1.070	756

TASADAY EXPEDITION LEG I STD 2

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 50.0 N	121 27.0 W	06/06/73	0233 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	16.03	16.03	33.45	24.550	337.6	0.000	0
10	16.00	16.00	33.45	24.557	337.3	0.034	10
20	15.77	15.77	33.46	24.617	331.9	0.067	20
30	15.68	15.68	33.47	24.645	329.5	0.100	30
50	15.16	15.15	33.53	24.806	314.7	0.165	50
75	15.34	15.33	33.65	24.860	310.4	0.243	76
100	14.82	14.81	33.60	24.936	303.9	0.320	101
125	12.18	12.16	33.35	25.277	271.5	0.392	126
150	10.82	10.80	33.52	25.659	235.6	0.455	151
200	9.21	9.19	33.81	26.157	188.9	0.561	201
250	8.30	8.27	33.98	26.432	163.3	0.649	252
300	7.62	7.59	34.03	26.572	150.6	0.728	302
400	6.42	6.38	34.07	26.769	132.6	0.869	403

STD 3 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 50.5 N	121 27.5 W	06/06/73	0412 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	15.98	15.98	33.46	24.569	335.8	0.000	0
10	15.97	15.97	33.46	24.571	335.9	0.034	10
20	15.78	15.78	33.46	24.614	332.1	0.067	20
30	15.68	15.68	33.48	24.652	328.8	0.100	30
50	15.31	15.30	33.58	24.812	314.2	0.164	50
75	14.96	14.95	33.53	24.851	311.3	0.243	76
100	14.73	14.72	33.57	24.932	304.3	0.319	101
125	11.91	11.89	33.38	25.351	264.4	0.391	126
150	10.76	10.74	33.57	25.708	230.9	0.452	151
200	9.24	9.22	33.79	26.136	190.8	0.558	201
250	8.42	8.39	33.99	26.422	164.4	0.647	252
300	7.72	7.69	34.00	26.534	154.2	0.726	302
400	6.37	6.33	34.08	26.783	131.2	0.869	403

TASADAY EXPEDITION LEG I STD 4

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 50.0 N	121 24.5 W	06/06/73	0510 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	15.95	15.95	33.46	24.575	335.2	0.000	0
10	15.95	15.95	33.47	24.583	334.7	0.033	10
20	15.74	15.74	33.46	24.623	331.3	0.067	20
30	15.62	15.62	33.48	24.666	327.5	0.100	30
50	15.06	15.05	33.46	24.774	317.8	0.164	50
75	14.93	14.92	33.55	24.873	309.2	0.243	76
100	14.28	14.27	33.44	24.927	304.6	0.319	101
125	12.16	12.14	33.36	25.289	270.4	0.391	126
150	11.16	11.14	33.50	25.583	242.9	0.455	151
200	9.23	9.21	33.81	26.153	189.2	0.563	201
250	8.56	8.53	33.98	26.393	167.2	0.653	252
300	7.87	7.84	34.03	26.536	154.2	0.733	302
400	6.50	6.46	34.08	26.766	132.9	0.876	403

STD 5 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 48.5 N	121 24.5 W	06/06/73	0606 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	15.95	15.95	33.46	24.575	335.2	0.000	0
10	15.95	15.95	33.46	24.576	335.5	0.034	10
20	15.88	15.88	33.46	24.592	334.3	0.067	20
30	15.52	15.52	33.46	24.673	326.9	0.100	30
50	15.09	15.08	33.51	24.806	314.7	0.164	50
75	14.96	14.95	33.59	24.897	306.9	0.242	76
100	13.94	13.93	33.46	25.013	296.4	0.317	101
125	12.12	12.10	33.39	25.320	267.5	0.388	126
150	11.54	11.52	33.49	25.506	250.3	0.453	151
200	9.35	9.33	33.79	26.119	192.5	0.563	201
250	8.40	8.37	34.00	26.433	163.4	0.652	252
300	7.61	7.58	34.02	26.566	151.2	0.731	302
400	6.42	6.38	34.09	26.785	131.1	0.872	403

TASADAY EXPEDITION LEG I STD 6

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 47.0 N	121 25.0 W	06/06/73	0707 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	15.96	15.96	33.46	24.573	335.4	0.000	0
10	15.96	15.96	33.47	24.581	334.9	0.034	10
20	15.93	15.93	33.47	24.588	334.6	0.067	20
30	15.79	15.79	33.47	24.620	331.9	0.100	30
50	15.08	15.07	33.45	24.762	318.9	0.165	50
75	14.87	14.86	33.49	24.839	312.3	0.244	76
100	14.71	14.70	33.58	24.944	303.1	0.321	101
125	12.83	12.81	33.42	25.207	278.5	0.394	126
150	11.64	11.62	33.50	25.495	251.3	0.460	151
200	9.39	9.37	33.78	26.104	193.9	0.571	201
250	8.61	8.58	33.98	26.385	168.0	0.662	252
300	7.60	7.57	34.02	26.567	151.0	0.742	302
400	6.43	6.39	34.08	26.775	132.0	0.883	403

STD 7 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 47.0 N	121 24.0 W	06/06/73	0811 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	15.95	15.95	33.46	24.575	335.2	0.000	0
10	15.95	15.95	33.47	24.583	334.7	0.033	10
20	15.95	15.95	33.47	24.584	335.0	0.067	20
30	15.95	15.95	33.47	24.584	335.3	0.101	30
50	15.42	15.41	33.48	24.711	323.8	0.166	50
75	15.04	15.03	33.52	24.826	313.7	0.246	76
100	14.79	14.78	33.56	24.911	306.2	0.324	101
125	13.39	13.37	33.45	25.118	287.0	0.398	126
150	12.12	12.10	33.48	25.390	261.4	0.466	151
200	9.79	9.77	33.69	25.968	207.0	0.583	201
250	8.90	8.87	33.92	26.293	176.8	0.679	252
300	7.85	7.82	34.03	26.539	153.9	0.762	302
400	6.30	6.26	34.09	26.800	129.5	0.904	403

TASADAY EXPEDITION LEG I STD 8

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 46.5 N	121 25.5 W	06/06/73	0908 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	15.88	15.88	33.47	24.599	333.0	0.000	0
10	15.89	15.89	33.47	24.597	333.5	0.033	10
20	15.89	15.89	33.48	24.605	333.0	0.067	20
30	15.88	15.88	33.48	24.608	333.1	0.100	30
50	15.50	15.49	33.50	24.709	324.1	0.166	50
75	15.11	15.10	33.56	24.841	312.2	0.245	76
100	14.94	14.93	33.62	24.925	304.9	0.322	101
125	13.38	13.36	33.40	25.082	290.4	0.397	126
150	11.49	11.47	33.52	25.538	247.2	0.464	151
200	9.58	9.56	33.74	26.042	199.9	0.576	201
250	8.64	8.61	33.95	26.357	170.6	0.668	252
300	7.59	7.56	34.04	26.584	149.4	0.748	302
400	6.29	6.25	34.08	26.793	130.2	0.888	403

STD 9 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 47.5 N	121 26.0 W	06/06/73	1007 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	15.87	15.87	33.48	24.609	332.0	0.000	0
10	15.88	15.88	33.48	24.607	332.5	0.033	10
20	15.88	15.88	33.48	24.607	332.8	0.066	20
30	15.82	15.82	33.46	24.606	333.3	0.100	30
50	15.49	15.48	33.51	24.718	323.1	0.165	50
75	15.27	15.26	33.60	24.837	312.6	0.245	76
100	14.93	14.92	33.64	24.943	303.3	0.322	101
125	13.40	13.38	33.44	25.109	287.9	0.396	126
150	11.52	11.50	33.51	25.525	248.5	0.463	151
200	9.52	9.50	33.75	26.060	198.2	0.574	201
250	8.46	8.43	33.98	26.408	165.7	0.665	252
300	7.54	7.51	34.04	26.591	148.7	0.744	302
400	6.34	6.30	34.09	26.795	130.1	0.883	403

TASADAY EXPEDITION LEG I STD 10

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 44.0 N	121 28.5 W	06/06/73	1110 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	15.84	15.84	33.48	24.615	331.4	0.000	0
10	15.85	15.85	33.48	24.614	331.9	0.033	10
20	15.84	15.84	33.48	24.616	331.9	0.066	20
30	15.76	15.76	33.48	24.634	330.5	0.099	30
50	15.58	15.57	33.51	24.698	325.0	0.165	50
75	15.39	15.38	33.67	24.865	310.0	0.244	76
100	14.99	14.97	33.66	24.945	303.0	0.321	101
125	12.98	12.96	33.50	25.239	275.4	0.393	126
150	11.49	11.47	33.52	25.538	247.2	0.459	151
200	9.46	9.44	33.77	26.085	195.8	0.569	201
250	8.39	8.36	33.99	26.426	163.9	0.659	252
300	7.43	7.40	34.03	26.599	147.9	0.737	302
400	6.29	6.25	34.11	26.817	127.9	0.875	403

STD 11 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 43.5 N	121 28.5 W	06/06/73	1218 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	15.91	15.91	33.47	24.592	333.6	0.000	0
10	15.92	15.92	33.47	24.590	334.1	0.033	10
20	15.93	15.93	33.47	24.588	334.6	0.067	20
30	15.90	15.90	33.47	24.595	334.2	0.100	30
50	15.32	15.31	33.52	24.764	318.8	0.166	50
75	15.14	15.13	33.57	24.842	312.1	0.244	76
100	14.48	14.47	33.56	24.977	299.9	0.321	101
125	12.26	12.24	33.26	25.192	279.6	0.393	126
150	11.06	11.04	33.49	25.593	241.9	0.459	151
200	9.33	9.31	33.79	26.122	192.2	0.567	201
250	8.63	8.60	33.97	26.374	169.0	0.657	252
300	7.67	7.64	34.03	26.565	151.3	0.737	302
400	6.30	6.26	34.08	26.792	130.3	0.878	403
500	5.65	5.61	34.20	26.969	114.3	1.001	504
600	5.18	5.13	34.29	27.097	102.9	1.109	605
700	4.78	4.72	34.36	27.199	93.9	1.208	706
750	4.64	4.58	34.39	27.239	90.5	1.254	756

TASADAY EXPEDITION LEG I STD 12

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 45.0 N	121 25.0 W	06/06/73	2047 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	16.04	16.04	33.48	24.570	335.7	0.000	0
10	15.99	15.99	33.47	24.574	335.6	0.034	10
20	15.96	15.96	33.48	24.589	334.5	0.067	20
30	15.89	15.89	33.47	24.598	334.9	0.100	30
50	15.35	15.34	33.52	24.757	319.4	0.166	50
75	15.12	15.11	33.57	24.847	311.7	0.245	76
100	14.92	14.91	33.60	24.914	306.0	0.322	101
125	12.90	12.88	33.41	25.185	280.5	0.395	126
150	11.48	11.46	33.38	25.431	257.3	0.462	151
200	9.40	9.38	33.76	26.087	195.5	0.576	201
250	8.67	8.64	33.96	26.360	170.4	0.667	252
300	7.85	7.82	34.04	26.547	153.1	0.748	302
400	6.33	6.29	34.07	26.780	131.4	0.890	403
500	5.65	5.61	34.20	26.969	114.3	1.013	504
600	5.23	5.18	34.28	27.084	104.2	1.122	605
700	4.82	4.76	34.35	27.187	95.1	1.222	706
750	4.64	4.58	34.39	27.239	90.5	1.269	756

STD 13 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 44.5 N	121 21.0 W	07/06/73	0005 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	16.13	16.13	33.49	24.558	336.9	0.000	0
10	16.12	16.12	33.49	24.560	337.0	0.034	10
20	15.97	15.97	33.49	24.595	334.0	0.067	20
30	15.65	15.65	33.46	24.644	329.6	0.100	30
50	15.19	15.18	33.51	24.784	316.8	0.165	50
75	15.10	15.09	33.57	24.851	311.2	0.244	76
100	14.60	14.59	33.55	24.944	303.0	0.320	101
125	12.13	12.11	33.41	25.333	266.2	0.392	126
150	10.93	10.91	33.51	25.631	238.2	0.455	151
200	9.36	9.34	33.77	26.101	194.2	0.563	201
250	8.63	8.60	33.97	26.374	169.0	0.653	252
300	7.74	7.71	34.01	26.539	153.8	0.734	302
400	6.44	6.40	34.07	26.766	132.9	0.877	403
500	5.63	5.59	34.20	26.972	114.1	1.001	504
600	5.15	5.10	34.28	27.093	103.3	1.110	605
700	4.80	4.74	34.36	27.197	94.1	1.208	706
750	4.60	4.54	34.39	27.243	90.0	1.254	756

TASADAY EXPEDITION LEG I STD 15

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 38.5 N	121 23.5 W	07/06/73	1606 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	15.96	15.96	33.49	24.596	333.2	0.000	0
10	15.96	15.96	33.49	24.597	333.5	0.033	10
20	15.95	15.95	33.50	24.607	332.9	0.067	20
30	15.90	15.90	33.48	24.603	333.5	0.100	30
50	15.31	15.30	33.48	24.735	321.5	0.165	50
75	14.92	14.91	33.56	24.882	308.2	0.244	76
100	14.32	14.31	33.52	24.980	299.6	0.320	101
125	12.74	12.72	33.54	25.317	267.9	0.391	126
150	11.33	11.31	33.61	25.638	237.7	0.454	151
200	9.31	9.29	33.81	26.141	190.4	0.561	201
250	8.40	8.37	33.99	26.425	164.1	0.650	252
300	7.57	7.54	34.01	26.563	151.4	0.729	302
400	6.31	6.27	34.08	26.791	130.4	0.870	403
500	5.67	5.63	34.19	26.959	115.3	0.993	504
600	5.21	5.16	34.28	27.086	104.0	1.102	605
700	4.88	4.82	34.36	27.188	95.1	1.202	706
750	4.76	4.70	34.39	27.226	91.9	1.249	756

STD 16 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 38.0 N	121 24.5 W	07/06/73	2330 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	16.53	16.53	33.55	24.512	341.2	0.000	0
10	16.08	16.08	33.52	24.592	333.9	0.034	10
20	16.01	16.01	33.51	24.601	333.4	0.067	20
30	15.85	15.85	33.47	24.607	333.2	0.100	30
50	15.09	15.08	33.46	24.768	318.4	0.166	50
75	14.93	14.92	33.56	24.880	308.4	0.244	76
100	14.30	14.29	33.52	24.985	299.2	0.320	101
125	12.54	12.52	33.51	25.333	266.4	0.391	126
150	11.36	11.34	33.50	25.547	246.4	0.455	151
200	9.37	9.35	33.79	26.115	192.9	0.565	201
250	8.51	8.48	33.97	26.392	167.2	0.655	252
300	7.82	7.79	34.03	26.543	153.4	0.735	302
400	6.37	6.33	34.07	26.775	131.9	0.877	403
500	5.71	5.67	34.18	26.946	116.6	1.002	504
600	5.28	5.23	34.27	27.070	105.6	1.113	605
700	4.91	4.85	34.36	27.185	95.5	1.213	706
750	4.86	4.80	34.40	27.223	92.4	1.260	756

TASADAY EXPEDITION LEG I STD 17

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 37.5 N	121 25.0 W	08/06/73	0159 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	16.39	16.39	33.50	24.506	341.8	0.000	0
10	16.26	16.26	33.47	24.513	341.5	0.034	10
20	15.98	15.98	33.49	24.592	334.2	0.068	20
30	15.71	15.71	33.46	24.630	330.9	0.101	30
50	15.09	15.08	33.46	24.768	318.4	0.166	50
75	14.94	14.93	33.58	24.894	307.2	0.244	76
100	14.28	14.27	33.52	24.989	298.8	0.320	101
125	12.57	12.55	33.50	25.319	267.7	0.391	126
150	10.81	10.79	33.55	25.684	233.2	0.453	151
200	9.22	9.20	33.83	26.171	187.5	0.559	201
250	8.26	8.23	33.99	26.446	162.0	0.646	252
300	7.66	7.63	34.06	26.590	148.9	0.724	302
400	6.40	6.36	34.06	26.763	133.1	0.865	403

STD 18 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 37.0 N	121 25.0 W	08/06/73	0232 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	16.17	16.17	33.49	24.549	337.7	0.000	0
10	16.04	16.04	33.48	24.571	335.9	0.034	10
20	16.00	16.00	33.48	24.580	335.4	0.067	20
30	15.63	15.63	33.45	24.641	329.9	0.101	30
50	15.32	15.31	33.60	24.825	313.0	0.165	50
75	15.11	15.10	33.60	24.872	309.3	0.243	76
100	14.38	14.37	33.50	24.952	302.2	0.319	101
125	12.22	12.20	33.27	25.208	278.2	0.392	126
150	11.15	11.13	33.42	25.522	248.6	0.457	151
200	9.29	9.27	33.79	26.128	191.6	0.567	201
250	8.41	8.38	33.95	26.392	167.2	0.657	252
300	7.52	7.49	34.02	26.578	149.9	0.736	302
400	6.31	6.27	34.09	26.799	129.7	0.876	403

TASADAY EXPEDITION LEG I STD 19

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 37.5 N	121 26.5 W	08/06/73	0304 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	16.31	16.31	33.48	24.509	341.5	0.000	0
10	16.13	16.13	33.48	24.550	337.9	0.034	10
20	16.04	16.04	33.48	24.571	336.2	0.068	20
30	15.63	15.63	33.47	24.656	328.5	0.101	30
50	15.26	15.25	33.56	24.808	314.6	0.165	50
75	15.16	15.15	33.65	24.900	306.6	0.243	76
100	14.30	14.29	33.52	24.985	299.2	0.319	101
125	11.85	11.83	33.46	25.425	257.5	0.388	126
150	10.62	10.60	33.48	25.662	235.1	0.450	151
200	9.29	9.27	33.80	26.136	190.8	0.556	201
250	8.42	8.39	33.98	26.414	165.1	0.645	252
300	7.68	7.65	34.03	26.563	151.4	0.724	302
400	6.35	6.31	34.07	26.778	131.7	0.866	403

STD 20 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 38.5 N	121 25.0 W	08/06/73	0337 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	16.23	16.23	33.44	24.496	342.7	0.000	0
10	16.15	16.15	33.46	24.530	339.8	0.034	10
20	15.99	15.99	33.44	24.552	338.1	0.068	20
30	15.68	15.68	33.40	24.591	334.7	0.102	30
50	15.04	15.03	33.44	24.763	318.8	0.167	50
75	14.95	14.94	33.59	24.899	306.7	0.245	76
100	14.24	14.23	33.48	24.966	300.9	0.321	101
125	12.37	12.35	33.50	25.358	264.0	0.392	126
150	10.61	10.59	33.53	25.703	231.3	0.454	151
200	9.26	9.24	33.82	26.156	188.9	0.559	201
250	8.43	8.40	33.98	26.412	165.3	0.647	252
300	7.64	7.61	34.05	26.585	149.4	0.726	302
400	6.33	6.29	34.10	26.804	129.2	0.865	403

TASADAY EXPEDITION LEG I STD 21

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 39.0 N	121 24.0 W	08/06/73	0424 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	16.21	16.21	33.51	24.555	337.2	0.000	0
10	15.99	15.99	33.47	24.574	335.6	0.034	10
20	15.67	15.67	33.48	24.654	328.3	0.067	20
30	15.45	15.45	33.47	24.696	324.6	0.099	30
50	14.89	14.88	33.44	24.796	315.7	0.164	50
75	14.95	14.94	33.59	24.899	306.7	0.241	76
100	13.83	13.82	33.51	25.074	290.5	0.316	101
125	12.09	12.07	33.52	25.426	257.4	0.384	126
150	10.50	10.48	33.57	25.754	226.5	0.445	151
200	9.25	9.23	33.83	26.166	188.0	0.549	201
250	8.38	8.35	33.99	26.428	163.8	0.636	252
300	7.56	7.53	34.01	26.565	151.2	0.715	302
400	6.30	6.26	34.07	26.784	131.0	0.856	403

STD 22 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 37.0 N	121 21.5 W	08/06/73	0512 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	16.35	16.35	33.53	24.538	338.7	0.000	0
10	16.28	16.28	33.53	24.555	337.5	0.034	10
20	16.00	16.00	33.51	24.603	333.2	0.067	20
30	15.87	15.87	33.50	24.625	331.4	0.101	30
50	15.25	15.24	33.47	24.740	321.0	0.166	50
75	14.65	14.64	33.47	24.871	309.3	0.245	76
100	14.11	14.10	33.50	25.009	296.8	0.320	101
125	11.99	11.97	33.52	25.445	255.6	0.389	126
150	10.86	10.84	33.56	25.683	233.3	0.451	151
200	9.34	9.32	33.80	26.128	191.6	0.557	201
250	8.39	8.36	33.98	26.418	164.7	0.646	252
300	7.63	7.60	34.01	26.555	152.2	0.725	302
400	6.39	6.35	34.07	26.773	132.2	0.867	403

TASADAY EXPEDITION LEG I STD 23

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 36.5 N	121 20.5 W	08/06/73	0545 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	16.40	16.40	33.51	24.511	341.3	0.000	0
10	16.40	16.40	33.51	24.512	341.6	0.034	10
20	16.11	16.11	33.53	24.594	334.1	0.068	20
30	15.87	15.87	33.52	24.641	329.9	0.101	30
50	15.31	15.30	33.48	24.735	321.5	0.166	50
75	14.57	14.56	33.46	24.880	308.4	0.245	76
100	14.10	14.09	33.54	25.042	293.7	0.320	101
125	12.40	12.38	33.53	25.375	262.3	0.390	126
150	10.87	10.85	33.50	25.634	237.9	0.452	151
200	9.30	9.28	33.80	26.135	191.0	0.560	201
250	8.46	8.43	33.98	26.408	165.7	0.649	252
300	7.63	7.60	34.00	26.547	152.9	0.728	302
400	6.35	6.31	34.08	26.786	130.9	0.870	403

STD 24 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 35.5 N	121 21.5 W	08/06/73	0615 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	16.29	16.29	33.53	24.552	337.4	0.000	0
10	16.29	16.29	33.53	24.552	337.7	0.034	10
20	15.97	15.97	33.51	24.610	332.5	0.067	20
30	15.95	15.95	33.51	24.615	332.4	0.101	30
50	15.03	15.02	33.45	24.773	317.9	0.166	50
75	14.86	14.85	33.55	24.888	307.7	0.244	76
100	13.93	13.92	33.52	25.062	291.8	0.319	101
125	12.00	11.98	33.55	25.467	253.5	0.387	126
150	10.71	10.69	33.53	25.686	233.0	0.448	151
200	9.22	9.20	33.82	26.163	188.3	0.553	201
250	8.51	8.48	33.97	26.392	167.2	0.642	252
300	7.51	7.48	34.01	26.572	150.5	0.721	302
400	6.39	6.35	34.07	26.773	132.2	0.863	403

TASADAY EXPEDITION LEG I STD 25

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 35.0 N	121 22.5 W	08/06/73	0646 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	16.19	16.19	33.49	24.544	338.2	0.000	0
10	16.19	16.19	33.49	24.544	338.5	0.034	10
20	16.02	16.02	33.49	24.583	335.1	0.068	20
30	15.81	15.81	33.49	24.631	330.8	0.101	30
50	15.37	15.36	33.53	24.760	319.1	0.166	50
75	15.06	15.05	33.60	24.883	308.2	0.244	76
100	13.96	13.95	33.49	25.032	294.6	0.320	101
125	11.93	11.91	33.49	25.433	256.7	0.388	126
150	10.97	10.95	33.56	25.663	235.2	0.450	151
200	9.28	9.26	33.81	26.146	190.0	0.556	201
250	8.55	8.52	33.97	26.386	167.8	0.646	252
300	7.61	7.58	34.03	26.573	150.4	0.725	302
400	6.34	6.30	34.09	26.795	130.1	0.866	403

STD 26 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 36.5 N	121 21.5 W	08/06/73	0725 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	16.16	16.16	33.51	24.566	336.1	0.000	0
10	16.16	16.16	33.51	24.567	336.3	0.034	10
20	16.00	16.00	33.49	24.588	334.6	0.067	20
30	15.97	15.97	33.49	24.595	334.3	0.101	30
50	15.21	15.20	33.44	24.726	322.4	0.166	50
75	14.93	14.92	33.54	24.865	309.9	0.245	76
100	14.56	14.55	33.54	24.945	303.0	0.322	101
125	12.34	12.32	33.49	25.355	264.2	0.393	126
150	11.08	11.06	33.55	25.636	237.8	0.456	151
200	9.30	9.28	33.81	26.142	190.3	0.563	201
250	8.55	8.52	33.97	26.386	167.8	0.652	252
300	7.53	7.50	34.02	26.577	150.0	0.732	302
400	6.33	6.29	34.08	26.788	130.7	0.872	403

TASADAY EXPEDITION LEG I STD 27

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 32.0 N	121 21.5 W	08/06/73	1613 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	16.37	16.37	33.51	24.518	340.6	0.000	0
10	16.32	16.32	33.51	24.530	339.8	0.034	10
20	16.10	16.10	33.52	24.588	334.6	0.068	20
30	15.83	15.83	33.51	24.642	329.8	0.101	30
50	15.08	15.07	33.47	24.778	317.4	0.166	50
75	14.83	14.82	33.52	24.871	309.3	0.244	76
100	14.12	14.11	33.51	25.014	296.3	0.320	101
125	12.42	12.40	33.48	25.332	266.4	0.390	126
150	11.27	11.25	33.55	25.602	241.1	0.454	151
200	9.12	9.10	33.86	26.210	183.8	0.560	201
250	8.37	8.34	33.99	26.429	163.6	0.647	252
300	7.59	7.56	34.02	26.569	150.9	0.725	302
400	6.34	6.30	34.08	26.787	130.8	0.866	403
500	5.71	5.67	34.18	26.946	116.6	0.990	504
600	5.35	5.30	34.28	27.070	105.8	1.101	605
700	4.95	4.89	34.36	27.180	96.0	1.202	706
750	4.84	4.78	34.40	27.225	92.1	1.249	756

STD 28 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 32.0 N	121 20.0 W	08/06/73	2013 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	16.39	16.39	33.51	24.514	341.1	0.000	0
10	16.16	16.16	33.52	24.574	335.6	0.034	10
20	16.00	16.00	33.51	24.603	333.2	0.067	20
30	15.63	15.63	33.49	24.671	327.0	0.100	30
50	14.92	14.91	33.44	24.789	316.3	0.165	50
75	14.62	14.61	33.49	24.893	307.2	0.243	76
100	13.78	13.77	33.45	25.038	293.9	0.318	101
125	11.99	11.97	33.48	25.414	258.5	0.387	126
150	10.83	10.81	33.53	25.665	235.0	0.448	151
200	9.08	9.06	33.85	26.209	183.9	0.553	201
250	8.33	8.30	34.00	26.443	162.3	0.640	252
300	7.48	7.45	33.99	26.561	151.6	0.718	302
400	6.39	6.35	34.07	26.773	132.2	0.860	403
500	5.71	5.67	34.18	26.946	116.6	0.984	504
600	5.19	5.14	34.28	27.088	103.8	1.095	605
700	4.95	4.89	34.38	27.196	94.5	1.194	706
750	4.79	4.73	34.40	27.230	91.5	1.240	756

TASADAY EXPEDITION LEG I STD 29

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 31.5 N	121 21.5 W	08/06/73	2235 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	16.99	16.99	33.51	24.374	354.4	0.000	0
10	16.40	16.40	33.56	24.550	337.9	0.035	10
20	16.11	16.11	33.52	24.586	334.8	0.068	20
30	15.73	15.73	33.52	24.672	326.9	0.101	30
50	14.97	14.96	33.45	24.786	316.7	0.166	50
75	14.66	14.65	33.50	24.892	307.3	0.244	76
100	13.95	13.94	33.46	25.011	296.6	0.319	101
125	12.33	12.31	33.49	25.357	264.0	0.389	126
150	10.77	10.75	33.52	25.667	234.7	0.452	151
200	9.40	9.38	33.75	26.079	196.3	0.559	201
250	8.57	8.54	33.96	26.375	168.8	0.651	252
300	7.65	7.62	33.97	26.521	155.5	0.732	302

STD 30 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 27.0 N	121 22.0 W	09/06/73	1320 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	16.79	16.79	33.51	24.421	349.9	0.000	0
10	16.24	16.24	33.53	24.564	336.6	0.034	10
20	16.11	16.11	33.53	24.594	334.1	0.068	20
30	15.90	15.90	33.52	24.634	330.6	0.101	30
50	15.08	15.07	33.45	24.762	318.9	0.166	50
75	14.84	14.83	33.52	24.869	309.5	0.245	76
100	14.41	14.40	33.52	24.961	301.4	0.321	101
125	12.71	12.69	33.50	25.292	270.3	0.392	126
150	11.01	10.99	33.51	25.617	239.6	0.456	151
200	9.32	9.30	33.80	26.131	191.3	0.564	201
250	8.47	8.44	33.98	26.406	165.9	0.653	252
300	7.70	7.67	34.01	26.545	153.2	0.733	302
400	6.39	6.35	34.08	26.781	131.5	0.875	403
500	5.71	5.67	34.19	26.954	115.8	0.999	504
600	5.24	5.19	34.28	27.083	104.4	1.109	605
700	4.95	4.89	34.39	27.204	93.7	1.208	706
800	4.58	4.52	34.43	27.278	87.3	1.299	807
1000	3.91	3.83	34.49	27.397	76.6	1.462	1009

TASADAY EXPEDITION LEG I STD 31

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 26.5 N	121 21.0 W	09/06/73	1641 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	16.66	16.66	33.50	24.444	347.7	0.000	0
10	16.30	16.30	33.48	24.512	341.6	0.034	10
20	16.05	16.05	33.52	24.600	333.5	0.068	20
30	15.80	15.80	33.52	24.656	328.4	0.101	30
50	15.16	15.15	33.47	24.760	319.1	0.166	50
75	14.66	14.65	33.49	24.884	308.0	0.244	76
100	14.15	14.14	33.53	25.024	295.4	0.320	101
125	12.65	12.63	33.50	25.304	269.2	0.390	126
150	11.04	11.02	33.52	25.620	239.3	0.454	151
200	9.30	9.28	33.82	26.150	189.5	0.561	201
250	8.52	8.49	33.98	26.399	166.6	0.650	252
300	7.71	7.68	34.01	26.543	153.3	0.730	302
400	6.43	6.39	34.07	26.767	132.8	0.873	403
500	5.78	5.74	34.17	26.930	118.2	0.999	504
600	5.29	5.24	34.28	27.077	105.0	1.110	605
700	5.01	4.95	34.38	27.189	95.2	1.211	706
800	4.57	4.51	34.41	27.263	88.6	1.302	807
1000	3.95	3.87	34.49	27.393	77.1	1.468	1009
1200	3.44	3.35	34.53	27.477	69.6	1.615	1211
1500	2.78	2.67	34.57	27.571	60.8	1.811	1515

STD 32 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 25.5 N	121 17.5 W	09/06	2010 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	16.76	16.76	33.51	24.428	349.2	0.000	0
10	16.46	16.46	33.48	24.475	345.1	0.035	10
20	15.95	15.95	33.45	24.568	336.5	0.069	20
30	15.80	15.80	33.50	24.641	329.9	0.102	30
50	15.00	14.99	33.43	24.764	318.7	0.167	50
75	14.66	14.65	33.44	24.846	311.7	0.246	76
100	14.06	14.05	33.40	24.942	303.2	0.323	101
125	12.14	12.12	33.47	25.378	262.0	0.393	126
150	10.63	10.61	33.50	25.676	233.8	0.455	151
200	9.16	9.14	33.82	26.172	187.3	0.561	201
250	8.47	8.44	33.95	26.383	168.1	0.649	252
300	7.64	7.61	33.99	26.538	153.8	0.730	302
400	6.38	6.34	34.05	26.758	133.6	0.874	403
500	5.84	5.80	34.19	26.938	117.5	0.999	504
600	5.29	5.24	34.29	27.085	104.3	1.110	605
700	4.87	4.81	34.35	27.181	95.7	1.210	706
750	4.70	4.64	34.38	27.224	91.9	1.257	756

TASADAY EXPEDITION LEG I STD 33

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 04.0 N	124 29.5 W	10/06/73	1236 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	16.95	16.95	33.71	24.537	338.8	0.000	0
10	16.96	16.96	33.71	24.535	339.4	0.034	10
20	17.02	17.02	33.85	24.629	330.8	0.067	20
30	16.99	16.99	33.90	24.675	326.8	0.100	30
50	16.43	16.42	33.75	24.691	325.8	0.166	50
75	16.05	16.04	33.86	24.863	310.3	0.245	76
100	16.08	16.06	33.94	24.919	305.8	0.322	101
125	14.56	14.54	33.75	25.108	288.3	0.396	126
150	13.36	13.34	33.75	25.357	265.0	0.465	151
200	10.53	10.51	33.74	25.882	215.5	0.586	201
250	8.94	8.91	33.93	26.294	176.7	0.684	252
300	8.00	7.97	33.97	26.470	160.5	0.768	302
400	6.47	6.43	34.00	26.707	138.5	0.917	403
500	5.67	5.63	34.10	26.888	122.0	1.048	504
600	5.14	5.09	34.22	27.047	107.6	1.162	605
700	4.74	4.68	34.29	27.148	98.6	1.266	706
800	4.36	4.30	34.37	27.254	89.0	1.359	807
1000	3.82	3.75	34.46	27.383	77.7	1.526	1009
1200	3.33	3.24	34.51	27.472	69.8	1.674	1211
1500	2.79	2.68	34.56	27.562	61.7	1.871	1515

STD 34 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
30 04.0 N	124 26.5 W	10/06/73	1936 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	16.91	16.91	33.68	24.523	340.1	0.000	0
10	16.91	16.91	33.68	24.524	340.4	0.034	10
20	16.95	16.95	33.80	24.607	332.9	0.068	20
30	17.00	17.00	33.93	24.695	324.8	0.101	30
50	16.11	16.10	33.78	24.787	316.7	0.165	50
75	16.11	16.10	33.88	24.865	310.1	0.243	76
100	16.65	16.63	34.16	24.957	302.3	0.320	101
125	14.51	14.49	33.85	25.196	279.9	0.392	126
150	12.06	12.04	33.62	25.510	250.0	0.459	151
200	10.57	10.55	33.82	25.937	210.2	0.574	201
250	8.95	8.92	33.94	26.301	176.1	0.670	252
300	8.14	8.11	33.98	26.457	161.8	0.755	302
400	6.74	6.70	34.01	26.679	141.4	0.906	403
500	5.75	5.71	34.08	26.862	124.5	1.039	504
600	5.21	5.16	34.21	27.031	109.2	1.156	605
700	4.75	4.69	34.29	27.147	98.7	1.260	706
800	4.43	4.37	34.35	27.230	91.4	1.355	807
1000	3.83	3.75	34.45	27.374	78.6	1.525	1009
1200	3.35	3.26	34.51	27.470	70.0	1.674	1211

TASADAY EXPEDITION LEG I STD 35

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
29 02.5 N	140 33.5 W	13/06/73	1816 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	20.07	20.07	34.91	24.676	325.6	0.000	0
10	20.06	20.06	34.92	24.687	325.0	0.033	10
20	20.06	20.06	34.91	24.680	326.1	0.065	20
30	19.98	19.97	34.91	24.701	324.4	0.098	30
50	18.19	18.18	34.78	25.060	290.9	0.159	50
75	18.09	18.08	34.90	25.177	280.6	0.231	76
100	17.64	17.62	34.89	25.281	271.6	0.300	101
125	16.98	16.96	34.78	25.356	265.3	0.367	126
150	16.43	16.41	34.69	25.417	260.2	0.432	151
200	13.12	13.09	34.23	25.778	226.4	0.554	201
250	11.11	11.08	34.10	26.061	200.0	0.661	252
300	9.81	9.78	34.10	26.287	179.0	0.755	302
400	7.99	7.95	34.02	26.512	158.3	0.924	403
500	6.35	6.30	34.03	26.747	136.0	1.071	504

STD 36 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
29 02.5 N	140 35.5 W	13/06/73	1942 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	20.03	20.03	34.84	24.633	329.7	0.000	0
10	20.01	20.01	34.84	24.639	329.6	0.033	10
20	20.00	20.00	34.84	24.642	329.6	0.066	20
30	19.98	19.97	34.85	24.655	328.8	0.099	30
50	18.09	18.08	34.66	24.993	297.3	0.161	50
75	17.48	17.47	34.71	25.181	280.2	0.234	76
100	16.95	16.93	34.74	25.332	266.7	0.302	101
125	16.53	16.51	34.68	25.385	262.4	0.368	126
150	15.75	15.73	34.54	25.457	256.3	0.433	151
200	12.88	12.85	34.16	25.772	226.9	0.554	201
250	10.87	10.84	34.07	26.080	198.0	0.660	252
300	9.63	9.60	34.02	26.255	181.9	0.755	302
400	7.80	7.76	33.99	26.516	157.7	0.925	403
500	6.33	6.29	34.02	26.742	136.5	1.072	504

TASADAY EXPEDITION LEG I STD 37

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 43.0 N	145 46.5 W	14/06/73	2114 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	21.09	21.09	35.36	24.745	319.1	0.000	0
10	21.07	21.07	35.36	24.751	318.9	0.032	10
20	21.06	21.06	35.36	24.754	319.0	0.064	20
30	21.00	20.99	35.36	24.771	317.8	0.096	30
50	19.69	19.68	35.26	25.045	292.4	0.157	50
75	18.62	18.61	35.14	25.229	275.8	0.228	76
100	18.08	18.06	35.08	25.319	268.1	0.296	101
125	17.79	17.77	35.08	25.391	262.1	0.362	126
150	17.64	17.61	35.05	25.406	261.6	0.427	151
200	17.11	17.08	34.93	25.443	259.7	0.558	201
250	13.76	13.72	34.39	25.774	228.5	0.680	252
300	11.75	11.71	34.19	26.015	205.9	0.788	302
400	9.46	9.41	34.09	26.339	175.9	0.979	403
500	7.41	7.36	34.00	26.581	152.9	1.144	504

STD 38 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 43.5 N	145 48.5 W	14/06/73	2219 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	21.11	21.11	35.36	24.740	319.6	0.000	0
10	21.10	21.10	35.37	24.750	319.0	0.032	10
20	21.08	21.08	35.37	24.756	318.8	0.064	20
30	20.93	20.92	35.35	24.782	316.7	0.096	30
50	19.61	19.60	35.27	25.074	289.7	0.156	50
75	18.53	18.52	35.14	25.252	273.6	0.227	76
100	17.95	17.93	35.08	25.351	265.0	0.294	101
125	17.78	17.76	35.08	25.394	261.9	0.360	126
150	17.62	17.59	35.06	25.418	260.4	0.425	151
200	17.06	17.03	34.93	25.455	258.5	0.555	201
250	13.84	13.80	34.41	25.773	228.7	0.677	252
300	11.67	11.63	34.22	26.053	202.3	0.784	302
400	9.35	9.31	34.09	26.357	174.2	0.973	403
500	7.49	7.44	33.97	26.546	156.3	1.138	504

TASADAY EXPEDITION LEG I STD 39

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 37.0 N	147 02.0 W	15/06/73	0436 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	21.70	21.70	35.37	24.584	334.4	0.000	0
10	21.70	21.70	35.37	24.585	334.7	0.033	10
20	21.69	21.69	35.37	24.588	334.8	0.067	20
30	21.41	21.40	35.36	24.659	328.5	0.100	30
50	20.32	20.31	35.28	24.894	306.9	0.164	50
75	19.52	19.51	35.21	25.052	292.7	0.239	76
100	18.84	18.82	35.17	25.198	279.8	0.310	101
125	18.22	18.20	35.09	25.293	271.5	0.379	126
150	17.79	17.76	35.04	25.362	265.8	0.446	151
200	15.93	15.90	34.72	25.556	248.5	0.575	201

STD 40 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 20.0 N	150 23.0 W	15/06/73	1908 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	22.20	22.20	35.45	24.505	341.9	0.000	0
10	22.20	22.20	35.45	24.505	342.3	0.034	10
20	22.19	22.19	35.45	24.509	342.4	0.068	20
30	22.15	22.14	35.44	24.513	342.4	0.103	30
50	20.94	20.93	35.36	24.788	317.0	0.169	50
75	19.84	19.83	35.28	25.022	295.6	0.245	76
100	19.39	19.37	35.25	25.118	287.4	0.318	101
125	18.93	18.91	35.21	25.206	279.9	0.389	126
150	18.57	18.54	35.17	25.268	274.9	0.458	151
200	17.27	17.24	34.93	25.405	263.3	0.593	201
250	14.98	14.94	34.56	25.646	241.2	0.719	252
300	12.26	12.22	34.25	25.965	211.0	0.832	302
400	10.00	9.95	34.11	26.265	183.4	1.029	403
500	7.84	7.79	34.03	26.543	157.0	1.199	504

TASADAY EXPEDITION LEG I STD 41

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 20.0 N	150 14.5 W	15/06/73	2008 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	22.19	22.19	35.45	24.508	341.6	0.000	0
10	22.18	22.18	35.45	24.511	341.7	0.034	10
20	22.16	22.16	35.45	24.517	341.6	0.068	20
30	21.82	21.81	35.45	24.613	332.8	0.102	30
50	20.71	20.70	35.34	24.835	312.5	0.167	50
75	19.75	19.74	35.27	25.038	294.1	0.242	76
100	19.34	19.32	35.25	25.131	286.2	0.315	101
125	18.98	18.96	35.22	25.201	280.4	0.386	126
150	18.66	18.63	35.19	25.261	275.6	0.455	151
200	17.90	17.87	35.08	25.367	267.1	0.591	201
250	15.75	15.71	34.69	25.576	248.2	0.720	252
300	12.60	12.56	34.26	25.907	216.7	0.836	302
400	10.35	10.30	34.16	26.245	185.6	1.037	403
500	7.97	7.92	34.02	26.516	159.7	1.210	504

STD 42 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 00.5 N	154 59.5 W	16/06/73	1846 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	22.92	22.92	35.42	24.277	363.6	0.000	0
10	22.92	22.92	35.42	24.277	364.0	0.036	10
20	22.92	22.92	35.42	24.278	364.4	0.073	20
30	22.84	22.83	35.41	24.294	363.3	0.109	30
50	21.27	21.26	35.32	24.668	328.5	0.178	50
75	20.30	20.29	35.30	24.916	305.8	0.258	76
100	19.84	19.82	35.28	25.024	296.5	0.333	101
125	19.69	19.67	35.31	25.087	291.4	0.406	126
150	19.29	19.26	35.26	25.154	285.9	0.479	151
200	17.74	17.71	34.99	25.338	269.9	0.618	201
250	15.44	15.40	34.63	25.599	245.9	0.746	252
300	13.22	13.18	34.38	25.877	219.9	0.863	302
400	10.66	10.61	34.19	26.214	188.7	1.067	403
500	8.59	8.54	34.00	26.408	170.6	1.247	504
600	6.41	6.36	33.99	26.709	141.1	1.403	605
700	5.10	5.04	34.04	26.909	121.5	1.534	706
800	4.49	4.43	34.16	27.073	106.2	1.648	807
1000	3.90	3.82	34.37	27.303	85.3	1.839	1009
1200	3.36	3.27	34.47	27.437	73.1	1.998	1211
1500	2.75	2.64	34.55	27.558	62.0	2.200	1515

TASADAY EXPEDITION LEG I STD 43

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 02.5 N	154 59.0 W	17/06/73	0051 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.05	23.05	35.41	24.232	367.9	0.000	0
10	23.05	23.05	35.41	24.232	368.3	0.037	10
20	22.95	22.95	35.41	24.262	366.0	0.074	20
30	22.63	22.62	35.45	24.385	354.7	0.110	30
50	21.24	21.23	35.40	24.737	321.9	0.177	50
75	20.31	20.30	35.33	24.936	303.9	0.255	76
100	19.94	19.92	35.33	25.035	295.4	0.330	101
125	19.63	19.61	35.30	25.095	290.6	0.404	126
150	19.21	19.18	35.25	25.167	284.7	0.475	151
200	17.89	17.86	35.00	25.309	272.7	0.615	201
250	16.35	16.31	34.77	25.500	255.6	0.747	252
300	13.73	13.69	34.42	25.805	227.0	0.868	302
400	10.72	10.67	34.20	26.212	189.1	1.076	403
500	8.59	8.54	34.05	26.447	166.9	1.254	504
600	6.23	6.18	33.98	26.724	139.4	1.407	605
700	4.92	4.86	34.06	26.946	117.9	1.535	706
800	4.46	4.40	34.17	27.084	105.1	1.647	807
1000	3.76	3.69	34.38	27.325	82.9	1.835	1009

STD 44 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
27 58.5 N	154 54.0 W	17/06/73	1623 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	22.92	22.92	35.37	24.239	367.3	0.000	0
10	22.92	22.92	35.38	24.247	366.9	0.037	10
20	22.92	22.92	35.38	24.248	367.3	0.073	20
30	22.93	22.92	35.38	24.245	367.9	0.110	30
50	21.49	21.48	35.40	24.668	328.5	0.180	50
75	20.45	20.44	35.32	24.891	308.2	0.259	75
100	19.96	19.94	35.31	25.015	297.3	0.335	101
125	19.53	19.51	35.26	25.090	291.1	0.409	126
150	18.95	18.92	35.19	25.187	282.7	0.480	151
200	17.56	17.53	34.96	25.358	267.9	0.618	201
250	15.53	15.49	34.65	25.594	246.4	0.747	252
300	13.13	13.09	34.36	25.880	219.6	0.863	302
400	10.57	10.52	34.19	26.230	187.2	1.066	403
500	8.29	8.24	34.04	26.485	163.0	1.242	504
600	6.22	6.17	33.98	26.726	139.3	1.393	605
700	5.07	5.01	34.04	26.913	121.2	1.523	706
800	4.43	4.37	34.18	27.095	104.0	1.635	807
1000	3.90	3.82	34.37	27.303	85.3	1.825	1009

TASADAY EXPEDITION LEG I STD 45

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 02.0 N	155 04.5 W	17/06/73	2003 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	22.96	22.96	35.34	24.205	370.5	0.000	0
10	22.94	22.94	35.35	24.219	369.6	0.037	10
20	22.92	22.92	35.35	24.225	369.5	0.074	20
30	22.92	22.91	35.35	24.225	369.8	0.111	30
50	21.22	21.21	35.38	24.727	322.8	0.180	50
75	20.37	20.36	35.33	24.920	305.4	0.259	76
100	20.04	20.02	35.29	24.979	300.8	0.334	101
125	19.43	19.41	35.24	25.101	290.0	0.408	126
150	19.05	19.02	35.19	25.162	285.1	0.480	151
200	17.85	17.82	35.00	25.318	271.8	0.619	201
250	15.94	15.90	34.67	25.517	253.9	0.751	252
300	13.48	13.44	34.36	25.809	226.4	0.871	302
400	10.80	10.75	34.20	26.198	190.5	1.079	403
500	8.55	8.50	34.05	26.453	166.3	1.258	504
600	6.41	6.36	33.98	26.701	141.8	1.412	605
700	4.94	4.88	34.06	26.943	118.1	1.542	706
800	4.43	4.37	34.19	27.103	103.2	1.652	807
1000	3.81	3.74	34.39	27.328	82.8	1.838	1009

STD 46 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 02.5 N	155 05.5 W	18/06/73	0001 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.27	23.27	35.36	24.130	377.6	0.000	0
10	23.05	23.05	35.34	24.179	373.4	0.038	10
20	22.97	22.97	35.35	24.211	370.8	0.075	20
30	22.96	22.95	35.36	24.222	370.2	0.112	30
50	21.63	21.62	35.40	24.629	332.2	0.182	50
75	20.58	20.57	35.34	24.872	310.0	0.262	76
100	19.99	19.97	35.32	25.015	297.3	0.338	101
125	19.50	19.48	35.27	25.106	289.6	0.412	126
150	19.07	19.04	35.21	25.172	284.2	0.483	151
200	17.52	17.49	34.95	25.360	267.7	0.621	201
250	15.42	15.38	34.64	25.611	244.7	0.749	252
300	13.55	13.51	34.40	25.826	224.9	0.867	302

TASADAY EXPEDITION LEG I STD 47

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 00.0 N	155 01.5 W	18/06/73	0346 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.22	23.22	35.36	24.145	376.2	0.000	0
10	23.02	23.02	35.35	24.195	371.8	0.037	10
20	22.96	22.96	35.36	24.221	369.8	0.074	20
30	22.25	22.24	35.30	24.379	355.2	0.111	30
50	21.15	21.14	35.33	24.708	324.6	0.179	50
75	20.25	20.24	35.32	24.945	303.1	0.257	76
100	19.87	19.85	35.32	25.046	294.3	0.332	101
125	19.50	19.48	35.29	25.121	288.1	0.405	126
150	18.98	18.95	35.20	25.187	282.7	0.476	151
200	17.69	17.66	34.99	25.350	268.7	0.614	201
250	15.88	15.84	34.71	25.562	249.6	0.743	252
300	13.34	13.30	34.37	25.845	223.0	0.862	302

STD 48 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 01.0 N	155 00.0 W	18/06/73	0441 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.23	23.23	35.37	24.149	375.8	0.000	0
10	23.00	23.00	35.37	24.216	369.8	0.037	10
20	22.96	22.96	35.37	24.229	369.1	0.074	20
30	22.11	22.10	35.27	24.395	353.6	0.110	30
50	21.01	21.00	35.32	24.739	321.7	0.178	50
75	20.15	20.14	35.31	24.964	301.2	0.256	76
100	19.73	19.71	35.30	25.068	292.3	0.330	101
125	19.50	19.48	35.28	25.114	288.9	0.403	126
150	18.98	18.95	35.20	25.187	282.7	0.474	151
200	17.62	17.59	34.98	25.359	267.8	0.612	201
250	15.54	15.50	34.62	25.569	248.8	0.741	252
300	13.19	13.15	34.35	25.860	221.5	0.858	302
400	10.65	10.60	34.17	26.200	190.1	1.064	403
500	8.26	8.21	34.04	26.489	162.6	1.240	504
600	6.15	6.10	33.95	26.711	140.6	1.392	605
700	4.98	4.92	34.05	26.931	119.3	1.522	706
800	4.47	4.41	34.17	27.083	105.2	1.634	807
1000	3.85	3.77	34.38	27.316	84.0	1.823	1009

TASADAY EXPEDITION LEG I STD 49

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 01.0 N	155 00.0 W	18/06/73	0604 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.16	23.16	35.36	24.162	374.6	0.000	0
10	23.13	23.13	35.36	24.171	374.1	0.037	10
20	22.97	22.97	35.37	24.226	369.4	0.075	20
30	21.98	21.97	35.37	24.508	342.9	0.110	30
50	21.35	21.34	35.33	24.653	329.8	0.178	50
75	20.30	20.29	35.31	24.924	305.0	0.257	76
100	19.87	19.85	35.31	25.039	295.0	0.332	101
125	19.55	19.53	35.28	25.100	290.1	0.405	126
150	19.01	18.98	35.20	25.180	283.4	0.477	151
200	17.47	17.44	34.94	25.365	267.2	0.614	201
250	15.44	15.40	34.59	25.568	248.8	0.743	252
300	13.10	13.06	34.34	25.870	220.4	0.861	302
400	10.77	10.72	34.18	26.187	191.4	1.067	403
500	8.51	8.46	34.05	26.459	165.6	1.245	504
600	6.39	6.34	33.98	26.704	141.6	1.399	605
700	5.05	4.99	34.03	26.907	121.7	1.530	706
800	4.54	4.48	34.15	27.060	107.5	1.645	807
1000	3.85	3.77	34.39	27.324	83.3	1.836	1009

STD 50 RV THOMAS WASHINGTON TASADAY EXPEDITION LEG I

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 01.0 N	155 00.0 W	18/06/73	0654 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.15	23.15	35.37	24.172	373.6	0.000	0
10	23.15	23.15	35.37	24.173	374.0	0.037	10
20	22.98	22.98	35.37	24.223	369.7	0.075	20
30	22.94	22.93	35.40	24.258	366.8	0.111	30
50	21.57	21.56	35.40	24.646	330.6	0.181	50
75	20.64	20.63	35.33	24.848	312.3	0.261	76
100	19.98	19.96	35.32	25.017	297.1	0.338	101
125	19.63	19.61	35.30	25.095	290.6	0.411	126
150	19.14	19.11	35.22	25.162	285.1	0.483	151
200	17.53	17.50	34.91	25.327	270.8	0.622	201
250	15.40	15.36	34.61	25.592	246.5	0.751	252
300	13.17	13.13	34.36	25.872	220.3	0.868	302
400	10.86	10.81	34.20	26.187	191.5	1.074	403
500	8.59	8.54	34.06	26.455	166.2	1.253	504
600	6.41	6.36	33.98	26.701	141.8	1.407	605
700	5.01	4.95	34.05	26.928	119.7	1.538	706
800	4.48	4.42	34.18	27.090	104.6	1.650	807
1000	3.87	3.79	34.38	27.314	84.2	1.839	1009

STD 51

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 00.5 N	154 59.5 W	18/06/73	0839 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.12	23.12	35.37	24.181	372.8	0.000	0
10	23.13	23.13	35.37	24.179	373.4	0.037	10
20	22.98	22.98	35.38	24.230	369.0	0.074	20
30	22.96	22.95	35.40	24.252	367.3	0.111	30
50	21.61	21.60	35.43	24.658	329.5	0.181	50
75	20.58	20.57	35.31	24.849	312.2	0.261	76
100	19.96	19.94	35.30	25.007	298.0	0.337	101
125	19.63	19.61	35.29	25.087	291.4	0.411	126
150	19.08	19.05	35.20	25.162	285.1	0.483	151
200	17.75	17.72	34.99	25.335	270.1	0.622	201
250	15.80	15.76	34.70	25.572	248.6	0.752	252
300	13.31	13.27	34.37	25.852	222.4	0.869	302
400	10.84	10.79	34.21	26.198	190.4	1.076	403
500	8.41	8.36	34.03	26.459	165.6	1.254	504
600	6.33	6.28	33.99	26.720	140.0	1.407	605
700	5.14	5.08	34.04	26.905	122.1	1.538	706
800	4.58	4.52	34.15	27.055	108.0	1.653	807
1000	3.88	3.80	34.39	27.321	83.6	1.844	1009

STD 52 RV THOMAS WASHINGTON TASADAY EXPEDITION LEG I

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 01.0 N	154 59.5 W	18/06/73	0928 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.11	23.11	35.37	24.184	372.5	0.000	0
10	23.12	23.12	35.38	24.189	372.4	0.037	10
20	23.00	23.00	35.38	24.225	369.5	0.074	20
30	22.89	22.88	35.43	24.295	363.2	0.111	30
50	21.44	21.43	35.42	24.697	325.7	0.180	50
75	20.39	20.38	35.31	24.900	307.4	0.259	76
100	19.86	19.84	35.31	25.041	294.8	0.334	101
125	19.50	19.48	35.28	25.114	288.9	0.407	126
150	18.96	18.93	35.19	25.185	282.9	0.479	151
200	17.74	17.71	35.00	25.345	269.2	0.617	201
250	15.87	15.83	34.71	25.564	249.4	0.746	252
300	13.43	13.39	34.39	25.843	223.3	0.865	302
400	10.72	10.67	34.20	26.212	189.1	1.071	403
500	8.36	8.31	34.04	26.474	164.1	1.247	504
600	6.38	6.33	33.99	26.713	140.7	1.400	605
700	5.06	5.00	34.04	26.914	121.1	1.531	706
800	4.52	4.46	34.16	27.070	106.5	1.644	807
1000	3.86	3.78	34.38	27.315	84.1	1.835	1009

STD 53

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 01.0 N	154 59.5 W	18/06/73	1055 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.10	23.10	35.37	24.187	372.2	0.000	0
10	23.11	23.11	35.38	24.192	372.1	0.037	10
20	23.00	23.00	35.40	24.240	368.0	0.074	20
30	22.86	22.85	35.46	24.326	360.2	0.111	30
50	21.46	21.45	35.43	24.699	325.5	0.179	50
75	20.47	20.46	35.32	24.886	308.7	0.258	76
100	19.89	19.87	35.32	25.041	294.8	0.334	101
125	19.56	19.54	35.30	25.113	288.9	0.407	126
150	19.02	18.99	35.20	25.177	283.7	0.478	151
200	17.83	17.80	34.99	25.316	272.0	0.617	201
250	15.61	15.57	34.65	25.576	248.1	0.747	252
300	13.06	13.02	34.35	25.886	218.9	0.864	302
400	10.75	10.70	34.21	26.214	188.9	1.068	403
500	8.39	8.34	34.05	26.478	163.8	1.244	504
600	6.37	6.32	33.99	26.715	140.6	1.397	605
700	4.98	4.92	34.05	26.931	119.3	1.526	706
800	4.39	4.33	34.19	27.108	102.8	1.638	807
1000	3.83	3.76	34.41	27.342	81.5	1.822	1009

STD 54 RV THOMAS WASHINGTON TASADAY EXPEDITION LEG I

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 00.0 N	155 00.0 W	18/06/73	1219 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.12	23.12	35.35	24.166	374.2	0.000	0
10	23.12	23.12	35.35	24.167	374.6	0.037	10
20	23.00	23.00	35.38	24.225	369.5	0.075	20
30	22.54	22.53	35.48	24.433	350.1	0.111	30
50	21.24	21.23	35.38	24.722	323.3	0.178	50
75	20.39	20.38	35.33	24.915	305.9	0.257	76
100	20.00	19.98	35.31	25.004	298.3	0.332	101
125	19.61	19.59	35.27	25.077	292.3	0.406	126
150	19.12	19.09	35.21	25.159	285.4	0.478	151
200	17.67	17.64	34.99	25.355	268.3	0.617	201
250	15.95	15.91	34.71	25.546	251.2	0.746	252
300	13.38	13.34	34.37	25.837	223.7	0.865	302
400	10.73	10.68	34.19	26.202	190.0	1.072	403
500	8.52	8.47	34.05	26.458	165.8	1.250	504
600	6.47	6.42	33.98	26.694	142.7	1.404	605
700	5.02	4.96	34.05	26.927	119.8	1.535	706
800	4.49	4.43	34.20	27.105	103.2	1.647	807
1000	3.81	3.74	34.40	27.336	82.0	1.832	1009

STD 55

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 00.0 N	155 00.0 W	18/06/73	1336 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.11	23.11	35.34	24.161	374.7	0.000	0
10	23.11	23.11	35.35	24.169	374.3	0.037	10
20	23.01	23.01	35.39	24.229	369.0	0.075	20
30	22.75	22.74	35.47	24.365	356.5	0.111	30
50	21.37	21.36	35.36	24.671	328.2	0.179	50
75	20.37	20.36	35.33	24.920	305.4	0.259	76
100	19.94	19.92	35.31	25.020	296.8	0.334	101
125	19.52	19.50	35.26	25.093	290.9	0.407	126
150	18.99	18.96	35.19	25.177	283.7	0.479	151
200	17.53	17.50	34.96	25.365	267.2	0.617	201
250	15.38	15.34	34.62	25.605	245.3	0.745	252
300	12.83	12.79	34.31	25.901	217.4	0.861	302
400	10.70	10.65	34.20	26.215	188.7	1.064	403
500	8.44	8.39	34.05	26.470	164.6	1.240	504
600	6.46	6.41	33.99	26.703	141.8	1.393	605
700	5.04	4.98	34.05	26.924	120.1	1.524	706
800	4.49	4.43	34.21	27.113	102.5	1.636	807
1000	3.78	3.71	34.40	27.339	81.7	1.820	1009

STD 56 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
27 58.0 N	155 06.5 W	18/06/73	1454 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.12	23.12	35.34	24.158	374.9	0.000	0
10	23.12	23.12	35.35	24.167	374.6	0.037	10
20	23.10	23.10	35.35	24.173	374.4	0.075	20
30	23.01	23.00	35.39	24.230	369.4	0.112	30
50	21.65	21.64	35.41	24.631	332.0	0.182	50
75	20.54	20.53	35.28	24.837	313.4	0.263	75
100	20.02	20.00	35.29	24.984	300.3	0.340	101
125	19.59	19.57	35.25	25.067	293.3	0.414	126
150	19.10	19.07	35.19	25.149	286.4	0.486	151
200	17.56	17.53	34.98	25.374	266.4	0.624	201
250	15.38	15.34	34.64	25.620	243.9	0.752	252
300	12.97	12.93	34.35	25.904	217.2	0.867	302
400	10.75	10.70	34.19	26.199	190.3	1.071	403
500	8.38	8.33	34.05	26.479	163.6	1.248	504
600	6.33	6.28	33.99	26.720	140.0	1.400	605
700	5.02	4.96	34.05	26.927	119.8	1.530	706
800	4.48	4.42	34.20	27.106	103.1	1.641	807
1000	3.82	3.75	34.40	27.335	82.2	1.827	1009

TASADAY EXPEDITION LEG I STD 57

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
27 58.0 N	155 07.0 W	18/06/73	1619 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.09	23.09	35.35	24.175	373.4	0.000	0
10	23.08	23.08	35.36	24.186	372.8	0.037	10
20	23.09	23.09	35.36	24.183	373.4	0.075	20
30	22.93	22.92	35.43	24.283	364.3	0.112	30
50	21.55	21.54	35.42	24.667	328.6	0.181	50
75	20.36	20.35	35.32	24.915	305.9	0.260	75
100	20.05	20.03	35.32	24.999	298.9	0.336	101
125	19.58	19.56	35.26	25.077	292.3	0.410	126
150	19.20	19.17	35.22	25.146	286.6	0.482	151
200	17.97	17.94	35.02	25.304	273.1	0.622	201
250	16.05	16.01	34.72	25.531	252.7	0.753	252
300	13.44	13.40	34.39	25.841	223.5	0.872	302
400	10.67	10.62	34.19	26.213	188.9	1.079	403
500	8.23	8.18	34.04	26.494	162.1	1.254	504

STD 58 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 01.0 N	154 59.5 W	18/06/73	1925 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.12	23.12	35.42	24.219	369.1	0.000	0
10	23.09	23.09	35.43	24.236	368.0	0.037	10
20	23.01	23.01	35.47	24.290	363.3	0.075	20
30	22.71	22.70	35.49	24.392	354.0	0.109	30
50	21.21	21.20	35.37	24.722	323.3	0.177	50
75	20.54	20.53	35.32	24.867	310.5	0.256	76
100	19.88	19.86	35.31	25.036	295.3	0.332	101
125	19.67	19.65	35.31	25.092	290.9	0.405	126
150	19.04	19.01	35.21	25.180	283.4	0.477	151
200	17.46	17.43	34.95	25.375	266.3	0.614	201
250	15.44	15.40	34.64	25.607	245.2	0.742	252
300	13.52	13.48	34.41	25.840	223.6	0.859	302
400	10.71	10.66	34.19	26.206	189.6	1.066	403
500	8.68	8.63	34.05	26.433	168.3	1.245	504
600	6.36	6.31	33.98	26.708	141.1	1.400	605
700	5.08	5.02	34.04	26.912	121.3	1.531	706
750	4.73	4.67	34.11	27.007	112.3	1.589	756

TASADAY EXPEDITION LEG I STD 59

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
27 58.5 N	154 58.0 W	19/06/73	0157 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.58	23.58	35.34	24.024	387.7	0.000	0
10	23.11	23.11	35.40	24.207	370.7	0.038	10
20	22.86	22.86	35.44	24.310	361.3	0.075	20
30	22.74	22.73	35.48	24.376	355.5	0.110	30
50	21.33	21.32	35.36	24.682	327.1	0.179	50
75	20.27	20.26	35.28	24.909	306.5	0.258	75
100	19.87	19.85	35.29	25.023	296.5	0.333	101
125	19.62	19.60	35.28	25.082	291.8	0.407	126
150	19.12	19.09	35.21	25.159	285.4	0.479	151
200	17.70	17.67	34.97	25.332	270.4	0.618	201
250	15.70	15.66	34.66	25.564	249.3	0.748	252
300	13.88	13.84	34.47	25.812	226.4	0.867	302
400	11.05	11.00	34.23	26.176	192.7	1.076	403
500	8.54	8.49	34.03	26.439	167.6	1.256	504
600	6.28	6.23	33.97	26.710	140.8	1.411	605
700	4.94	4.88	34.06	26.943	118.1	1.540	706
750	4.64	4.58	34.14	27.041	109.0	1.597	756

STD 60 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
27 58.5 N	154 57.5 W	19/06/73	0952 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.85	23.85	35.35	23.952	394.6	0.000	0
[illegible]	23.11	23.11	35.44	24.238	367.8	0.038	10
[illegible]	22.71	22.71	35.49	24.392	353.6	0.074	20
[illegible]	22.55	22.54	35.48	24.430	350.3	0.109	30
50	21.07	21.06	35.37	24.760	319.6	0.176	50
75	20.14	20.13	35.33	24.981	299.5	0.254	75
100	19.83	19.81	35.32	25.057	293.3	0.328	101
125	19.64	19.62	35.31	25.100	290.1	0.401	126
150	19.06	19.03	35.20	25.167	284.7	0.473	151
200	17.91	17.88	35.03	25.327	271.0	0.612	201
250	15.99	15.95	34.71	25.537	252.1	0.742	252
300	13.76	13.72	34.46	25.829	224.7	0.862	302
400	10.81	10.76	34.20	26.196	190.7	1.069	403
500	8.63	8.58	34.05	26.441	167.5	1.248	504
600	6.31	6.26	33.98	26.714	140.5	1.402	605
700	5.02	4.96	34.04	26.919	120.6	1.533	706
750	4.75	4.69	34.11	27.005	112.6	1.591	756

TASADAY EXPEDITION LEG I STD 61

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 02.5 N	155 01.0 W	19/06/73	1535 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.38	23.38	35.37	24.105	380.0	0.000	0
10	23.28	23.28	35.37	24.135	377.6	0.038	10
20	23.02	23.02	35.44	24.264	365.7	0.075	20
30	22.76	22.75	35.49	24.378	355.3	0.111	30
50	21.70	21.69	35.38	24.595	335.5	0.180	50
75	20.52	20.51	35.31	24.865	310.6	0.261	76
100	19.94	19.92	35.28	24.997	299.0	0.337	101
125	19.60	19.58	35.28	25.087	291.3	0.411	126
150	19.05	19.02	35.19	25.162	285.1	0.483	151
200	17.80	17.77	34.97	25.308	272.8	0.622	201
250	15.54	15.50	34.64	25.584	247.3	0.752	252
300	13.06	13.02	34.33	25.871	220.4	0.869	302
400	10.59	10.54	34.17	26.211	189.0	1.074	403
500	8.11	8.06	34.03	26.504	161.0	1.249	504
600	6.02	5.97	33.98	26.751	136.6	1.398	605
700	4.92	4.86	34.06	26.946	117.9	1.525	706
750	4.68	4.62	34.12	27.020	111.0	1.582	756

STD 62 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 02.5 N	155 01.0 W	19/06/73	1751 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.43	23.43	35.37	24.091	381.4	0.000	0
10	23.19	23.19	35.34	24.139	377.3	0.038	10
20	23.08	23.08	35.40	24.217	370.3	0.075	20
30	22.70	22.69	35.48	24.387	354.4	0.112	30
50	21.39	21.38	35.37	24.673	328.0	0.180	50
75	20.36	20.35	35.29	24.892	308.0	0.259	76
100	19.82	19.80	35.30	25.044	294.5	0.335	101
125	19.53	19.51	35.28	25.106	289.6	0.408	126
150	19.00	18.97	35.18	25.167	284.6	0.479	151
200	17.92	17.89	35.01	25.309	272.7	0.619	201
250	15.79	15.75	34.66	25.544	251.3	0.750	252
300	13.32	13.28	34.37	25.849	222.6	0.868	302
400	10.63	10.58	34.17	26.204	189.7	1.074	403
500	8.32	8.27	34.02	26.464	165.0	1.252	504
600	6.41	6.36	33.98	26.701	141.8	1.405	605
700	4.99	4.93	34.05	26.930	119.4	1.536	706
800	4.50	4.44	34.18	27.088	104.8	1.648	807
1000	3.87	3.79	34.38	27.314	84.2	1.837	1009

TASADAY EXPEDITION LEG I STD 63

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
27 56.5 N	154 59.0 W	20/06/73	0133 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.84	23.84	35.33	23.940	395.7	0.000	0
10	23.32	23.32	35.29	24.063	384.5	0.035	10
20	22.79	22.79	35.43	24.323	360.1	0.076	20
30	22.71	22.70	35.48	24.385	354.7	0.112	30
50	21.47	21.46	35.41	24.681	327.2	0.180	50
75	20.31	20.30	35.32	24.929	304.6	0.259	75
100	19.90	19.88	35.33	25.046	294.4	0.334	101
125	19.63	19.61	35.30	25.095	290.6	0.407	126
150	19.01	18.98	35.21	25.187	282.7	0.479	151
200	17.71	17.68	34.97	25.330	270.7	0.617	201
250	16.05	16.01	34.73	25.539	251.9	0.748	252
300	13.78	13.74	34.46	25.825	225.1	0.867	302

STD 64 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 04.5 N	154 42.5 W	20/06/73	1502 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.17	23.17	35.46	24.235	367.6	0.000	0
10	23.18	23.18	35.45	24.225	369.0	0.037	10
20	23.17	23.17	35.45	24.229	369.1	0.074	20
30	22.84	22.83	35.46	24.332	359.7	0.110	30
50	20.44	20.43	35.33	24.900	306.3	0.177	50
75	19.98	19.97	35.32	25.016	296.2	0.252	76
100	19.67	19.65	35.31	25.091	290.0	0.325	101
125	19.36	19.34	35.26	25.135	286.8	0.397	126
150	18.84	18.81	35.18	25.207	280.7	0.468	151
200	17.45	17.42	34.95	25.377	266.0	0.605	201
250	15.90	15.86	34.72	25.565	249.3	0.734	252
300	13.55	13.51	34.39	25.818	225.6	0.853	302
400	10.81	10.76	34.16	26.165	193.6	1.062	403
500	8.39	8.34	33.97	26.415	169.7	1.244	504
600	6.39	6.34	33.97	26.696	142.3	1.400	605
700	5.10	5.04	34.03	26.901	122.3	1.532	706
750	4.71	4.65	34.10	27.001	112.8	1.591	756

TASADAY EXPEDITION LEG I STD 65

LATITUDE	LONGITUDE	DAY/MO YR	START TIME	BOTTOM
28 00.5 N	154 40.5 W	20/06/73	1717 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.01	23.01	35.48	24.297	361.8	0.000	0
10	23.00	23.00	35.48	24.300	361.9	0.036	10
20	22.96	22.96	35.48	24.312	361.2	0.072	20
30	22.63	22.62	35.46	24.392	353.9	0.108	30
50	21.19	21.18	35.36	24.720	323.5	0.176	50
75	20.04	20.03	35.32	25.000	297.7	0.253	76
100	19.71	19.69	35.31	25.081	291.0	0.327	101
125	19.42	19.40	35.28	25.134	286.9	0.399	126
150	18.95	18.92	35.21	25.202	281.2	0.470	151
200	17.67	17.64	35.00	25.362	267.5	0.608	201
250	16.31	16.27	34.77	25.510	254.7	0.738	252
300	13.86	13.82	34.44	25.793	228.2	0.859	302
400	10.71	10.66	34.18	26.198	190.4	1.068	403
500	8.15	8.10	34.03	26.498	161.6	1.244	504
600	6.17	6.12	33.98	26.732	138.6	1.394	605

STD 66 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 01.0 N	154 40.0 W	20/06/73	1913 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.00	23.00	35.48	24.299	361.5	0.000	0
10	23.01	23.01	35.48	24.297	362.2	0.036	10
20	22.98	22.98	35.49	24.314	361.0	0.072	20
30	22.82	22.81	35.49	24.361	357.0	0.108	30
50	21.56	21.55	35.40	24.649	330.3	0.177	50
75	20.18	20.17	35.32	24.963	301.3	0.256	76
100	19.76	19.74	35.32	25.075	291.6	0 330	101
125	19.50	19.48	35.29	25.121	288.1	0.402	126
150	19.03	19.00	35.22	25.190	282.5	0.474	151
200	17.68	17.65	35.01	25.367	267.0	0.611	201
250	16.14	16.10	34.75	25.533	252.4	0.741	252
300	13.65	13.61	34.43	25.829	224.7	0 860	302
400	10.72	10.67	34.19	26.204	189.8	1.068	403
500	8.22	8.17	34.03	26.487	162.7	1.244	504
600	6.25	6.20	33.98	26.722	139.7	1.395	605
700	4.88	4.82	34.05	26.942	118.1	1.524	706
750	4.59	4.53	34.14	27.046	108.4	1.581	756

TASADAY EXPEDITION LEG I STD 67

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 04.0 N	154 35.5 W	21/06/73	0208 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.28	23.28	35.47	24.211	370.0	0.000	0
10	23.20	23.20	35.47	24.234	368.1	0.037	10
20	22.83	22.83	35.47	24.342	358.3	0.073	20
30	21.75	21.74	35.37	24.572	336.8	0.108	30
50	20.77	20.76	35.33	24.812	314.7	0.173	50
75	20.23	20.22	35.32	24.950	302.6	0.250	76
100	19.77	19.75	35.32	25.073	291.8	0.325	101
125	19.55	19.53	35.29	25.108	289.4	0.397	126
150	18.85	18.82	35.18	25.205	281 0	0 469	151
200	17.68	17.65	35.00	25.360	267.8	0 606	201
250	15.72	15.68	34.64	25.544	251.2	0 735	252
300	13.37	13.33	34.40	25.863	221.3	0.854	302
400	10.97	10.92	34.21	26.175	192.7	1.061	403
500	8.72	8.67	34.06	26 435	168.2	1.241	504
600	6.60	6.54	33.98	26.677	144.4	1.397	605
700	5.06	5.00	34.03	26.906	121.8	1.531	706
750	4.74	4.68	34.10	26.998	113.2	1.589	756

STD 68 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
27 59.5 N	154 39.0 W	21/06/73	0939 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.05	23.05	35.49	24.292	362.2	0.000	0
10	23.04	23.04	35.49	24.296	362.3	0.036	10
20	22.52	22.52	35.44	24.408	352.0	0.072	20
30	21.77	21.76	35.40	24.589	335.1	0.106	30
50	20.88	20.87	35.33	24.782	317.6	0.172	50
75	20.11	20.10	35.32	24.982	299.5	0.249	75
100	19.75	19.73	35.31	25.070	292.0	0.323	101
125	19.44	19.42	35.27	25.121	288.1	0.395	126
150	19.13	19.10	35.24	25.179	283.5	0.467	151
200	17.93	17.90	35.03	25.322	271.5	0.605	201
250	16.27	16.23	34.77	25.519	253.9	0.737	252
300	13.60	13.56	34.41	25.823	225.2	0.856	302
400	11.02	10.97	34.23	26.182	192.2	1.065	403
500	8.57	8.52	34.05	26.450	166.6	1.244	504
600	6.32	6.27	33.98	26.713	140.6	1.398	605
700	4.96	4.90	34.04	26.925	119.8	1.528	706
750	4.66	4.60	34.11	27.015	111.5	1.586	756

TASADAY EXPEDITION LEG I STD 69

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
27 58.5 N	154 36.0 W	21/06/73	1642 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	22.96	22.96	35.49	24.318	359.7	0.000	0
10	22.96	22.96	35.50	24.327	359.3	0.036	10
20	22.95	22.95	35.49	24.323	360.2	0.072	20
30	22.54	22.53	35.45	24.410	352.2	0.108	30
50	21.13	21.12	35.34	24.721	323.4	0.175	50
75	20.05	20.04	35.32	24.997	298.0	0.253	75
100	19.73	19.71	35.32	25.083	290.8	0.326	101
125	19.35	19.33	35.27	25.145	285.9	0.398	126
150	18.83	18.80	35.19	25.218	279.8	0.469	151
200	17.65	17.62	35.00	25.367	267.1	0.606	201
250	16.14	16.10	34.76	25.541	251.7	0.736	252
300	13.81	13.77	34.43	25.796	227.9	0.855	302
400	10.97	10.92	34.20	26.167	193.5	1.066	403
500	8.19	8.14	34.03	26.492	162.2	1.244	504

STD 70 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
27 58.5 N	154 42.0 W	22/06/73	0107 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.08	23.08	35.48	24.276	363.7	0.000	0
10	22.94	22.94	35.49	24.325	359.5	0.036	10
20	22.78	22.78	35.48	24.364	356.2	0.072	20
30	22.44	22.43	35.46	24.446	348.8	0.107	30
50	21.20	21.19	35.39	24.740	321.6	0.174	50
75	20.14	20.13	35.32	24.974	300.3	0.252	75
100	19.86	19.84	35.32	25.049	294.1	0.326	101
125	19.74	19.72	35.32	25.081	291.9	0.400	126
150	19.42	19.39	35.28	25.135	287.7	0.472	151
200	18.02	17.99	35.06	25.323	271.4	0.612	201
250	16.29	16.25	34.75	25.499	255.8	0.744	252
300	14.21	14.17	34.48	25.751	232.4	0.866	302

TASADAY EXPEDITION LEG I STD 71

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 10.0 N	154 39.0 W	22/06/73	1349 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.43	23.43	35.47	24.167	374.1	0.000	0
10	23.15	23.15	35.46	24.241	367.5	0.037	10
20	23.08	23.08	35.46	24.262	365.9	0.074	20
30	22.81	22.80	35.43	24.318	361.1	0.110	30
50	21.44	21.43	35.36	24.651	330.0	0.179	50
75	20.20	20.19	35.28	24.927	304.7	0.259	76
100	19.42	19.40	35.21	25.080	291.1	0.333	101
125	19.04	19.02	35.19	25.163	284.1	0.405	126
150	18.24	18.21	35.02	25.236	277.9	0.475	151
200	16.80	16.77	34.85	25.455	258.4	0.609	201
250	15.25	15.21	34.59	25.610	244.7	0.735	252
300	13.20	13.16	34.41	25.905	217.3	0.851	302
400	10.82	10.77	34.23	26.217	188.6	1.053	403
500	8.62	8.57	34.06	26.450	166.6	1.231	504
600	6.29	6.24	33.97	26.709	141.0	1.385	605
700	5.05	4.99	34.03	26.907	121.7	1.516	706
750	4.73	4.67	34.10	26.999	113.1	1.575	756

STD 72 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 10.5 N	154 40.0 W	22/06/73	1646 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.29	23.29	35.46	24.200	371.0	0.000	0
10	23.18	23.18	35.44	24.218	369.7	0.037	10
20	23.09	23.09	35.45	24.252	366.9	0.074	20
30	22.80	22.79	35.39	24.290	363.7	0.110	30
50	21.14	21.13	35.23	24.635	331.6	0.180	50
75	20.11	20.10	35.27	24.944	303.1	0.259	76
100	19.51	19.49	35.26	25.094	289.7	0.333	101
125	18.67	18.65	35.12	25.203	280.1	0.405	126
150	18.10	18.07	35.05	25.293	272.4	0.474	151
200	16.39	16.36	34.78	25.497	254.3	0.605	201
250	14.31	14.27	34.50	25.744	231.6	0.727	252
300	12.94	12.90	34.36	25.918	215.9	0.839	302
400	10.61	10.56	34.20	26.231	187.2	1.040	403
500	8.23	8.18	34.03	26.486	162.8	1.215	504
600	6.28	6.23	33.98	26.718	140.1	1.367	605
700	5.01	4.95	34.05	26.928	119.7	1.497	706
800	4.46	4.40	34.17	27.084	105.1	1.609	807
1000	3.77	3.70	34.37	27.316	83.8	1.798	1009

TASADAY EXPEDITION LEG I STD 73

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 11.0 N	154 41.0 W	22/06/73	1923 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.43	23.43	35.47	24.167	374.1	0.000	0
10	23.30	23.30	35.47	24.205	370.9	0.037	10
20	23.23	23.23	35.47	24.226	369.3	0.074	20
30	23.17	23.16	35.46	24.237	368.8	0.111	30
50	21.48	21.47	35.37	24.648	330.4	0.181	50
75	20.32	20.31	35.28	24.896	307.7	0.261	76
100	19.59	19.57	35.24	25.058	293.1	0.336	101
125	19.10	19.08	35.17	25.132	287.0	0.408	126
150	18.33	18.30	35.10	25.274	274.3	0.479	151
200	16.46	16.43	34.79	25.488	255.1	0.611	201
250	14.40	14.36	34.48	25.709	234.9	0.733	252
300	13.00	12.96	34.39	25.929	214.8	0.846	302
400	10.69	10.64	34.23	26.240	186.3	1.047	403
500	8.44	8.39	34.04	26.462	165.3	1.222	504
600	6.28	6.23	33.98	26.718	140.1	1.375	605
700	5.11	5.05	34.04	26.908	121.7	1.506	706
750	4.72	4.66	34.10	27.000	112.9	1.565	756

STD 74 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 06.0 N	154 37.0 W	23/06/73	0155 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.83	23.83	35.50	24.072	383.2	0.000	0
10	23.14	23.14	35.46	24.244	367.2	0.038	10
20	23.08	23.08	35.46	24.262	365.9	0.074	20
30	22.59	22.58	35.36	24.328	360.1	0.110	30
50	21.12	21.11	35.24	24.648	330.3	0.180	50
75	20.09	20.08	35.28	24.957	301.9	0.259	76
100	19.60	19.58	35.27	25.079	291.2	0.333	101
125	18.98	18.96	35.17	25.163	284.0	0.405	126
150	18.59	18.56	35.13	25.232	278.3	0.475	151
200	17.22	17.19	34.89	25.386	265.1	0.611	201
250	15.01	14.97	34.57	25.647	241.1	0.737	252
300	13.21	13.17	34.42	25.910	216.7	0.852	302
400	10.75	10.70	34.22	26.222	188.1	1.054	403
500	8.34	8.29	34.04	26.477	163.8	1.230	504
600	6.19	6.14	33.98	26.729	138.9	1.381	605
700	4.98	4.92	34.05	26.931	119.3	1.511	706
750	4.69	4.63	34.12	27.019	111.1	1.568	756

TASADAY EXPEDITION LEG I STD 75

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 15.5 N	154 33.5 W	23/06/73	0812 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	24.03	24.03	35.48	23.998	390.3	0.000	0
10	23.61	23.61	35.48	24.122	378.8	0.038	10
20	23.38	23.38	35.47	24.183	373.5	0.076	20
30	23.34	23.33	35.48	24.202	372.1	0.113	30
50	22.29	22.28	35.42	24.460	348.4	0.185	50
75	20.28	20.27	35.27	24.898	307.5	0.267	76
100	19.31	19.29	35.21	25.108	288.4	0.342	101
125	18.57	18.55	35.11	25.221	278.4	0.413	126
150	17.60	17.57	34.96	25.346	267.2	0.481	151
200	16.04	16.01	34.74	25.547	249.5	0.610	201
250	14.00	13.96	34.47	25.786	227.5	0.729	252
300	12.57	12.53	34.37	25.998	208.0	0.838	302
400	10.55	10.50	34.21	26.249	185.4	1.035	403
500	8.35	8.30	34.07	26.499	161.7	1.208	504
600	6.25	6.20	34.00	26.738	138.2	1.358	605
700	5.01	4.95	34.05	26.928	119.7	1.487	706
750	4.62	4.56	34.12	27.027	110.2	1.545	756

STD 76 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 09.0 N	154 39.0 W	23/06/73	1716 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.58	23.58	35.49	24.138	376.9	0.000	0
10	23.58	23.58	35.49	24.139	377.3	0.038	10
20	23.32	23.32	35.48	24.208	371.1	0.075	20
30	23.02	23.01	35.44	24.265	366.1	0.112	30
50	21.79	21.78	35.41	24.592	335.7	0.182	50
75	20.12	20.11	35.26	24.933	304.1	0.262	76
100	19.41	19.39	35.23	25.097	289.4	0.336	101
125	18.89	18.87	35.18	25.194	281.1	0.408	126
150	18.20	18.17	35.08	25.292	272.6	0.477	151
200	16.15	16.12	34.74	25.521	251.9	0.608	201
250	14.26	14.22	34.50	25.754	230.6	0.729	252
300	12.91	12.87	34.39	25.947	213.1	0.840	302
400	10.77	10.72	34.22	26.218	188.5	1.040	403
500	8.67	8.62	34.09	26.466	165.2	1.217	504
600	6.35	6.30	33.98	26.709	141.0	1.370	605
700	5.00	4.94	34.04	26.921	120.3	1.501	706
800	4.53	4.47	34.17	27.077	105.9	1.614	807

TASADAY EXPEDITION LEG I STD 77

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 08.0 N	154 41.0 W	23/06/73	2132 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.71	23.71	35.49	24.100	380.5	0.000	0
10	23.44	23.44	35.48	24.172	374.1	0.038	10
20	23.22	23.22	35.46	24.222	369.8	0.075	20
30	22.39	22.38	35.37	24.392	353.9	0.111	30
50	21.35	21.34	35.34	24.661	329.1	0.179	50
75	19.99	19.98	35.25	24.960	301.6	0.258	76
100	19.48	19.46	35.18	25.041	294.7	0.333	101
125	18.79	18.77	35.16	25.204	280.1	0.405	126
150	18.27	18.24	35.09	25.282	273.5	0.474	151
200	16.80	16.77	34.84	25.447	259.2	0.607	201
250	14.93	14.89	34.57	25.665	239.4	0.732	252
300	12.82	12.78	34.37	25.949	212.8	0.845	302
400	10.68	10.63	34.22	26.234	186.9	1.045	403
500	8.45	8.40	34.06	26.476	164.0	1.220	504
600	6.32	6.27	33.98	26.713	140.6	1.372	605
700	5.03	4.97	34.04	26.917	120.7	1.503	706
800	4.44	4.38	34.19	27.102	103.3	1.615	807
1000	3.75	3.68	34.39	27.334	82.1	1.800	1009
1200	3.32	3.23	34.48	27.448	71.9	1.954	1211
1500	2.73	2.62	34.55	27.560	61.7	2.155	1515

STD 78 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 06.5 N	154 35.5 W	24/06/73	0654 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.83	23.83	35.49	24.064	383.9	0.000	0
10	23.81	23.81	35.50	24.078	383.0	0.038	10
20	23.30	23.30	35.47	24.206	371.3	0.076	20
30	23.16	23.15	35.45	24.232	369.2	0.113	30
50	21.72	21.71	35.40	24.604	334.5	0.183	50
75	20.34	20.33	35.29	24.898	307.5	0.264	76
100	19.76	19.74	35.29	25.052	293.7	0.339	101
125	19.29	19.27	35.24	25.137	286.6	0.411	126
150	18.61	18.58	35.14	25.235	278.1	0.482	151
200	16.63	16.60	34.82	25.472	256.8	0.616	201
250	14.35	14.31	34.52	25.751	231.0	0.738	252
300	12.85	12.81	34.40	25.967	211.2	0.848	302

TASADAY EXPEDITION LEG I STD 79

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 05.0 N	154 34.0 W	24/06/73	0855 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.72	23.72	35.49	24.097	380.8	0.000	0
10	23.67	23.67	35.48	24.105	380.5	0.038	10
20	23.27	23.27	35.47	24.215	370.5	0.076	20
30	22.95	22.94	35.44	24.285	364.2	0.112	30
50	21.71	21.70	35.40	24.607	334.3	0.182	50
75	20.33	20.32	35.29	24.900	307.3	0.262	76
100	19.77	19.75	35.30	25.057	293.3	0.337	101
125	19.17	19.15	35.20	25.137	286.5	0.410	126
150	18.56	18.53	35.13	25.240	277.6	0.480	151
200	16.98	16.95	34.87	25.428	261.1	0.615	201
250	14.52	14.48	34.52	25.715	234.5	0.739	252
300	12.91	12.87	34.39	25.947	213.1	0.851	302

STD 80 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 09.5 N	155 00.0 W	24/06/73	1412 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.58	23.58	35.48	24.130	377.6	0.000	0
10	23.59	23.59	35.48	24.128	378.3	0.038	10
20	23.27	23.27	35.47	24.215	370.5	0.075	20
30	23.15	23.14	35.46	24.242	368.2	0.112	30
50	20.89	20.88	35.28	24.741	321.5	0.181	50
75	19.82	19.81	35.20	24.967	300.9	0.259	76
100	19.19	19.17	35.19	25.124	286.9	0.332	101
125	18.75	18.73	35.15	25.206	279.9	0.403	126
150	18.44	18.41	35.14	25.277	274.0	0.472	151
200	16.93	16.90	34.90	25.463	257.7	0.605	201
250	15.48	15.44	34.67	25.621	243.9	0.731	252
300	13.30	13.26	34.40	25.877	220.0	0.847	302
400	11.19	11.14	34.27	26.182	192.2	1.053	403
500	8.74	8.69	34.07	26.440	167.8	1.233	504
600	6.58	6.52	33.99	26.687	143.4	1.388	605
700	5.15	5.09	34.03	26.896	122.9	1.522	706
750	4.84	4.78	34.09	26.979	115.1	1.581	756

TASADAY EXPEDITION LEG I STD 81

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 10.0 N	154 59.0 W	24/06/73	1700 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.54	23.54	35.47	24.135	377.2	0.000	0
10	23.55	23.55	35.47	24.132	377.9	0.038	10
20	23.22	23.22	35.46	24.222	369.8	0.075	20
30	23.15	23.14	35.46	24.242	368.2	0.112	30
50	20.91	20.90	35.26	24.720	323.4	0.181	50
75	19.91	19.90	35.20	24.943	303.2	0.260	76
100	19.04	19.02	35.17	25.147	284.6	0.333	101
125	18.53	18.51	35.13	25.246	276.0	0.403	126
150	18.27	18.24	35.12	25.305	271.4	0.472	151
200	16.83	16.80	34.88	25.471	256.9	0.604	201
250	15.05	15.01	34.60	25.662	239.8	0.728	252
300	13.14	13.10	34.39	25.901	217.6	0.842	302
400	10.94	10.89	34.25	26.212	189.2	1.045	403
500	8.54	8.49	34.05	26.455	166.1	1.223	504
600	6.48	6.43	33.98	26.692	142.8	1.378	605
700	5.04	4.98	34.04	26.916	120.8	1.509	706
800	4.47	4.41	34.16	27.075	105.9	1.623	807
1000	3.80	3.73	34.37	27.313	84.2	1.813	1009
1200	3.32	3.23	34.48	27.448	71.9	1.969	1211
1500	2.76	2.65	34.54	27.549	62.8	2.171	1515
2000	2.09	1.95	34.61	27.663	52.1	2.458	2022
2500	1.72	1.54	34.65	27.726	46.5	2.705	2531
2960	1.58	1.36	34.67	27.755	44.6	2.914	3000

STD 82 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 09.0 N	154 58.0 W	24/06/73	1944 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.62	23.62	35.47	24.111	379.4	0.000	0
10	23.59	23.59	35.47	24.120	379.0	0.038	10
20	23.20	23.20	35.45	24.220	370.0	0.075	20
30	23.04	23.03	35.43	24.252	367.4	0.112	30
50	20.84	20.83	35.26	24.739	321.6	0.181	50
75	19.62	19.61	35.21	25.026	295.2	0.258	76
100	18.93	18.91	35.18	25.182	281.2	0.330	101
125	18.48	18.46	35.13	25.259	274.8	0.400	126
150	18.12	18.09	35.08	25.311	270.7	0.468	151
200	16.76	16.73	34.86	25.472	256.8	0.600	201
250	14.91	14.87	34.57	25.669	239.0	0.724	252
300	12.99	12.95	34.38	25.923	215.4	0.837	302
400	10.93	10.88	34.24	26.206	189.8	1.040	403
500	8.68	8.63	34.04	26.425	169.0	1.219	504
600	6.52	6.46	33.97	26.679	144.1	1.376	605
700	5.04	4.98	34.04	26.916	120.8	1.508	706
750	4.70	4.64	34.10	27.002	112.7	1.567	756

TASADAY EXPEDITION LEG I STD 83

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 05.5 N	155 00.5 W	25/06/73	0139 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.73	23.73	35.48	24.086	381.8	0.000	0
10	23.66	23.66	35.46	24.093	381.7	0.038	10
20	23.20	23.20	35.44	24.212	370.7	0.076	20
30	22.40	22.39	35.34	24.366	356.4	0.112	30
50	21.31	21.30	35.27	24.619	333.1	0.181	50
75	20.14	20.13	35.25	24.920	305.3	0.261	76
100	19.50	19.48	35.22	25.067	292.3	0.336	101
125	18.93	18.91	35.14	25.153	285.0	0.408	126
150	18.58	18.55	35.13	25.235	278.1	0.478	151
200	17.27	17.24	34.89	25.374	266.2	0.614	201
250	15.78	15.74	34.67	25.553	250.4	0.743	252
300	13.57	13.53	34.40	25.822	225.3	0.862	302
400	10.97	10.92	34.19	26.160	194.2	1.072	403
500	8.66	8.61	34.02	26.413	170.2	1.254	504
600	6.55	6.49	33.95	26.660	146.0	1.412	605
700	5.19	5.13	34.01	26.875	124.9	1.548	706

STD 84 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 15.5 N	154 58.5 W	25/06/73	0739 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.72	23.72	35.48	24.089	381.5	0.000	0
10	23.73	23.73	35.48	24.087	382.2	0.038	10
20	23.29	23.29	35.45	24.194	372.5	0.076	20
30	22.29	22.28	35.37	24.420	351.2	0.112	30
50	20.66	20.65	35.29	24.811	314.8	0.179	50
75	19.88	19.87	35.25	24.989	298.8	0.255	76
100	19.46	19.44	35.25	25.100	289.2	0.329	101
125	18.94	18.92	35.19	25.188	281.6	0.400	126
150	18.31	18.28	35.09	25.272	274.5	0.470	151
200	16.98	16.95	34.88	25.436	260.3	0.603	201
250	15.58	15.54	34.66	25.591	246.7	0.730	252
300	13.47	13.43	34.42	25.858	221.9	0.847	302
400	10.78	10.73	34.21	26.209	189.4	1.053	403
500	8.77	8.72	34.10	26.458	166.0	1.231	504
600	6.36	6.31	33.98	26.708	141.1	1.384	605
700	5.14	5.08	34.02	26.889	123.5	1.517	706
750	4.83	4.77	34.05	26.948	118.0	1.577	756

TASADAY EXPEDITION LEG I STD 85

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 09.5 N	155 00.5 W	25/06/73	1557 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.58	23.58	35.46	24.115	379.0	0.000	0
10	23.58	23.58	35.46	24.116	379.4	0.038	10
20	23.48	23.48	35.45	24.138	377.8	0.076	20
30	22.82	22.81	35.37	24.269	365.7	0.113	30
50	21.41	21.40	35.31	24.622	332.9	0.183	50
75	20.07	20.06	35.24	24.931	304.3	0.262	76
100	19.69	19.67	35.27	25.055	293.4	0.337	101
125	19.16	19.14	35.21	25.148	285.5	0.410	126
150	18.41	18.38	35.09	25.247	276.9	0.480	151
200	16.83	16.80	34.83	25.433	260.6	0.614	201
250	15.42	15.38	34.62	25.596	246.2	0.741	252
300	13.54	13.50	34.42	25.844	223.2	0.858	302
400	11.29	11.24	34.25	26.149	195.5	1.068	403
500	8.82	8.77	34.05	26.411	170.5	1.251	504
600	6.46	6.41	33.96	26.679	144.0	1.408	605
700	5.01	4.95	34.04	26.920	120.4	1.540	706
800	4.39	4.33	34.18	27.100	103.5	1.652	807
1000	3.84	3.77	34.37	27.309	84.6	1.840	1009
1200	3.34	3.25	34.47	27.439	72.9	1.998	1211
1500	2.78	2.67	34.53	27.539	63.8	2.203	1515
2000	2.11	1.97	34.59	27.646	53.8	2.497	2022
2500	1.74	1.56	34.64	27.717	47.4	2.750	2531
3000	1.57	1.35	34.67	27.756	44.6	2.980	3040
3450	1.50	1.23	34.68	27.772	44.2	3.180	3500

STD 86 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 08.0 N	155 00.5 W	25/06/73	1952 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.56	23.56	35.40	24.076	382.8	0.000	0
10	23.55	23.55	35.40	24.079	382.9	0.038	10
20	23.20	23.20	35.37	24.159	375.8	0.076	20
30	22.36	22.35	35.28	24.332	359.6	0.113	30
50	20.81	20.80	35.19	24.694	325.9	0.182	50
75	19.95	19.94	35.20	24.932	304.2	0.260	76
100	19.33	19.31	35.20	25.095	289.6	0.335	101
125	18.67	18.65	35.10	25.188	281.6	0.406	126

TASADAY EXPEDITION LEG I STD 87

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 08.0 N	155 00.5 W	25/06/73	2016 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.58	23.58	35.40	24.070	383.4	0.000	0
10	23.55	23.55	35.40	24.079	382.9	0.038	10
20	23.51	23.51	35.40	24.092	382.2	0.077	20
30	23.12	23.11	35.38	24.190	373.2	0.114	30
50	20.99	20.98	35.23	24.676	327.7	0.184	50
75	19.95	19.94	35.20	24.932	304.2	0.263	76
100	19.46	19.44	35.21	25.069	292.1	0.338	101
125	18.74	18.72	35.12	25.186	281.8	0.410	126

STD 88A RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 10.0 N	155 01.5 W	26/06/73	0024 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.72	23.72	35.36	23.998	390.2	0.000	0
10	23.64	23.64	35.38	24.038	386.9	0.039	10
20	23.58	23.58	35.37	24.048	386.3	0.078	20
30	23.16	23.15	35.34	24.149	377.2	0.116	30
50	20.91	20.90	35.16	24.644	330.7	0.186	50
75	19.84	19.83	35.20	24.961	301.4	0.265	76
100	19.42	19.40	35.20	25.072	291.8	0.340	101
125	18.58	18.56	35.08	25.196	280.9	0.411	126

TASADAY EXPEDITION LEG I STD 88B

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 10.0 N	155 01.5 W	26/06/73	0034 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.70	23.70	35.40	24.035	386.7	0.000	0
10	23.59	23.59	35.40	24.068	384.0	0.039	10
20	23.17	23.17	35.37	24.168	374.9	0.076	20
30	21.95	21.94	35.28	24.448	348.6	0.113	30
50	20.47	20.46	35.18	24.778	317.9	0.179	50
75	19.67	19.66	35.18	24.990	298.6	0.256	76
100	19.19	19.17	35.14	25.085	290.5	0.330	101
125	18.45	18.43	35.04	25.197	280.7	0.401	126

STD 88C RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 10.0 N	155 01.5 W	26/06/73	0046 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.71	23.71	35.40	24.032	387.0	0.000	0
10	23.56	23.56	35.39	24.069	383.9	0.039	10
20	23.17	23.17	35.37	24.168	374.9	0.076	20
30	21.99	21.98	35.29	24.444	349.0	0.113	30
50	20.51	20.50	35.17	24.760	319.7	0.180	50
75	19.67	19.66	35.19	24.998	297.9	0.257	76
100	19.25	19.23	35.13	25.062	292.7	0.331	101

TASADAY EXPEDITION LEG I STD 90

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 10.5 N	155 08.5 W	26/06/73	0731 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.65	23.65	35.37	24.027	387.5	0.000	0
10	23.65	23.65	35.38	24.035	387.2	0.039	10
20	23.18	23.18	35.34	24.142	377.4	0.077	20
30	21.88	21.87	35.22	24.422	351.1	0.113	30
50	20.55	20.54	35.20	24.772	318.5	0.180	50
75	19.67	19.66	35.20	25.006	297.2	0.257	76
100	19.25	19.23	35.17	25.093	289.8	0.331	101
125	18.52	18.50	35.07	25.203	280.2	0.402	126

STD 91 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 19.5 N	154 59.0 W	26/06/73	1318 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.63	23.63	35.45	24.093	381.2	0.000	0
10	23.62	23.62	35.45	24.097	381.3	0.038	10
20	23.61	23.61	35.45	24.100	381.4	0.076	20
30	22.06	22.05	35.41	24.516	342.2	0.112	30
50	20.91	20.90	35.27	24.728	322.7	0.179	50
75	19.91	19.90	35.23	24.966	301.0	0.257	76
100	19.42	19.40	35.22	25.087	290.4	0.331	101
125	18.90	18.88	35.15	25.168	283.5	0.403	126
150	18.42	18.39	35.08	25.237	277.8	0.473	151
200	17.30	17.27	34.92	25.390	264.8	0.608	201
250	15.85	15.81	34.67	25.538	251.9	0.738	252
300	13.72	13.68	34.42	25.807	226.8	0.857	302

TASADAY EXPEDITION LEG I STD 92

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 19.5 N	154 59.0 W	26/06/73	1355 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.63	23.63	35.44	24.085	381.9	0.000	0
10	23.65	23.65	35.45	24.088	382.1	0.038	10
20	23.64	23.64	35.45	24.091	382.2	0.076	20
30	22.23	22.22	35.39	24.453	348.2	0.113	30
50	21.09	21.08	35.28	24.686	326.7	0.180	50
75	20.06	20.05	35.24	24.934	304.0	0.259	76
100	19.48	19.46	35.22	25.072	291.8	0.334	101
125	18.95	18.93	35.16	25.163	284.0	0.406	126
150	18.50	18.47	35.09	25.224	279.1	0.476	151
200	17.23	17.20	34.90	25.392	264.6	0.612	201
250	15.75	15.71	34.62	25.522	253.3	0.742	252
300	13.59	13.55	34.41	25.826	225.0	0.861	302
400	10.78	10.73	34.19	26.193	190.9	1.069	403
500	8.82	8.77	34.06	26.419	169.8	1.249	504
600	6.34	6.29	33.96	26.695	142.4	1.405	605
700	5.15	5.09	34.01	26.880	124 4	1.539	706
750	4.83	4.77	34.05	26.948	118.0	1.599	756

STD 93 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 17.0 N	155 01.0 W	26/06/73	1940 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.62	23.62	35.45	24.096	380.9	0.000	0
10	23.62	23.62	35.45	24.097	381.3	0.038	10
20	23.62	23.62	35.46	24.105	380.9	0.076	20
30	23.42	23.41	35.37	24.096	382.2	0.114	30
50	21.33	21.32	35.31	24.644	330.8	0.186	50
75	19.90	19.89	35.26	24.991	298.6	0.264	76
100	18.87	18.85	35.14	25.167	282.7	0.337	101
125	18.47	18.45	35.12	25.254	275.3	0.407	126
150	17.98	17.95	35.05	25.323	269.6	0.475	151
200	17.23	17.20	34.93	25.415	262.4	0.608	201
250	15.93	15.89	34.67	25.520	253.6	0.737	252
300	13.32	13.28	34.40	25.873	220.4	0.855	302
400	10.96	10.91	34.22	26.185	191.8	1.061	403
500	8.86	8.81	34.07	26.421	169.7	1.242	504
600	6.52	6.46	33.96	26.672	144.8	1.399	605
700	5.23	5.17	34.01	26.871	125.4	1.535	706
750	4.66	4.60	34.06	26.975	115.2	1.595	756

TASADAY EXPEDITION LEG I STD 94

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 20.5 N	155 02.0 W	27/06/73	0156 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.73	23.73	35.46	24.071	383.2	0.000	0
10	23.74	23.74	35.47	24.076	383.2	0.038	10
20	23.41	23.41	35.45	24.159	375.8	0.076	20
30	22.55	22.54	35.37	24.347	358.3	0.113	30
50	20.85	20.84	35.22	24.706	324.8	0.181	50
75	20.06	20.05	35.25	24.942	303.3	0.260	76
100	19.32	19.30	35.22	25.113	287.9	0.334	101
125	18.56	18.54	35.13	25.239	276.8	0.404	126
150	18.16	18.13	35.07	25.294	272.4	0.473	151
200	17.00	16.97	34.87	25.423	261.5	0.606	201
250	15.74	15.70	34.67	25.563	249.5	0.734	252
300	13.75	13.71	34.42	25.801	227.4	0.853	302
400	10.88	10.83	34.20	26.183	191.9	1.063	403
500	8.48	8.43	34.03	26.448	166.7	1.242	504
600	6.39	6.34	33.96	26.688	143.0	1.397	605
700	5.05	4.99	34.02	26.899	122.4	1.530	706
750	4.67	4.61	34.07	26.982	114.6	1.589	756

STD 95 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 16.0 N	155 01.5 W	27/06/73	0817 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.60	23.60	35.45	24.102	380.3	0.000	0
10	23.60	23.60	35.45	24.102	380.7	0.038	10
20	23.52	23.52	35.44	24.119	379.6	0.076	20
30	22.26	22.25	35.37	24.429	350.4	0.113	30
50	21.19	21.18	35.34	24.705	324.9	0.180	50
75	20.04	20.03	35.24	24.939	303.5	0.259	76
100	18.95	18.93	35.14	25.147	284.6	0.332	101
125	18.54	18.52	35.12	25.236	277.0	0.402	126
150	18.16	18.13	35.07	25.294	272.4	0.471	151
200	17.18	17.15	34.91	25.411	262.7	0.605	201
250	15.91	15.87	34.70	25.547	251.0	0.733	252
300	13.50	13.46	34.40	25.836	223.9	0.852	302
400	10.82	10.77	34.20	26.194	190.8	1.059	403
500	8.88	8.83	34.08	26.426	169.2	1.239	504
600	6.50	6.44	33.96	26.674	144.5	1.396	605
700	5.10	5.04	34.03	26.901	122.3	1.530	706

TASADAY EXPEDITION LEG I STD 96

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 37.0 N	155 14.0 W	27/06/73	2123 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.76	23.76	35.45	24.055	384.8	0.000	0
10	23.75	23.75	35.45	24.058	384.9	0.038	10
20	23.67	23.67	35.45	24.083	383.1	0.077	20
30	22.81	22.80	35.41	24.303	362.5	0.114	30
50	21.31	21.30	35.32	24.657	329.5	0.183	50
75	19.99	19.98	35.22	24.937	303.7	0.263	76
100	18.94	18.92	35.14	25.149	284.4	0.336	101
125	18.49	18.47	35.11	25.241	276.5	0.406	126
150	18.02	17.99	35.03	25.298	272.0	0.475	151
200	17.20	17.17	34.91	25.407	263.2	0.608	201
250	16.08	16.04	34.68	25.493	256.2	0.738	252
300	13.59	13.55	34.40	25.818	225.7	0.859	302
400	10.74	10.69	34.17	26.185	191.6	1.067	403
500	8.68	8.63	34.05	26.433	168.3	1.247	504

STD 97 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 20.0 N	154 59.0 W	28/06/73	0113 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.83	23.83	35.45	24.034	386.8	0.000	0
10	23.80	23.80	35.45	24.044	386.3	0.039	10
20	23.44	23.44	35.44	24.142	377.4	0.077	20
30	21.92	21.91	35.36	24.517	342.0	0.113	30
50	21.27	21.26	35.35	24.691	326.3	0.180	50
75	19.88	19.87	35.24	24.981	299.5	0.258	76
100	19.42	19.40	35.21	25.080	291.1	0.332	101
125	18.64	18.62	35.13	25.219	278.7	0.403	126
150	18.30	18.27	35.09	25.274	274.3	0.472	151
200	17.13	17.10	34.90	25.416	262.3	0.606	201
250	15.85	15.81	34.70	25.561	249.7	0.734	252
300	13.75	13.71	34.42	25.801	227.4	0.853	302
400	10.81	10.76	34.19	26.188	191.4	1.063	403
500	8.82	8.77	34.07	26.427	169.0	1.243	504

TASADAY EXPEDITION LEG I STD 98

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 17.5 N	154 53.5 W	28/06/73	0850 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.75	23.75	35.54	24.126	378.0	0.000	0
10	23.45	23.45	35.49	24.177	373.6	0.038	10
20	22.48	22.48	35.39	24.381	354.6	0.074	20
30	21.72	21.71	35.38	24.588	335.2	0.108	30
50	20.85	20.84	35.35	24.805	315.4	0.174	50
75	19.92	19.91	35.27	24.994	298.4	0.250	76
100	19.37	19.35	35.26	25.131	286.2	0.323	101
125	18.63	18.61	35.17	25.252	275.5	0.394	126
150	18.17	18.14	35.09	25.306	271.2	0.462	151
200	16.88	16.85	34.90	25.475	256.6	0.594	201
250	14.93	14.89	34.58	25.673	238.7	0.718	252
300	13.24	13.20	34.44	25.920	215.9	0.831	302
400	10.60	10.55	34.24	26.264	184.0	1.031	403
500	8.69	8.64	34.11	26.479	164.0	1.205	504
600	6.28	6.23	34.01	26.742	137.9	1.356	605
700	4.99	4.93	34.08	26.953	117.2	1.484	706
800	4.31	4.25	34.18	27.108	102.5	1.594	807
1000	3.72	3.65	34.39	27.337	81.7	1.778	1009
1200	3.25	3.16	34.49	27.463	70.3	1.930	1211
1500	2.67	2.56	34.57	27.581	59.5	2.125	1515
2000	2.06	1.92	34.62	27.674	51.0	2.401	2022
2500	1.73	1.55	34.65	27.725	46.6	2.645	2531
3000	1.57	1.35	34.67	27.756	44.6	2.873	3040
3500	1.50	1.23	34.67	27.765	45.0	3.097	3551

STD 100 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 17.5 N	154 37.5 W	28/06/73	1614 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.68	23.68	35.46	24.086	381.9	0.000	0
10	23.68	23.68	35.46	24.087	382.2	0.038	10
20	23.47	23.47	35.46	24.149	376.7	0.076	20
30	21.81	21.80	35.39	24.570	336.9	0.112	30
50	21.27	21.26	35.36	24.698	325.6	0.178	50
75	20.15	20.14	35.25	24.918	305.6	0.257	76
100	19.49	19.47	35.21	25.062	292.8	0.332	101
125	18.92	18.90	35.15	25.163	284.0	0.404	126
150	18.32	18.29	35.06	25.246	276.9	0.474	151
200	16.85	16.82	34.82	25.420	261.7	0.609	201
250	14.93	14.89	34.53	25.634	242.3	0.735	252
300	12.52	12.48	34.29	25.946	212.9	0.848	302

TASADAY EXPEDITION LEG I STD 101

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 21.0 N	154 40.5 W	28/06/73	1919 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.74	23.74	35.45	24.061	384.2	0.000	0
10	23.72	23.72	35.45	24.067	384.1	0.038	10
20	23.71	23.71	35.45	24.071	384.2	0.077	20
30	23.14	23.13	35.43	24.223	370.1	0.115	30
50	21.34	21.33	35.36	24.679	327.4	0.184	50
75	20.11	20.10	35.22	24.906	306.7	0.264	76
100	19.32	19.30	35.20	25.098	289.3	0.338	101
125	18.89	18.87	35.16	25.178	282.6	0.410	126
150	18.33	18.30	35.06	25.244	277.2	0.480	151
200	16.77	16.74	34.81	25.432	260.7	0.614	201
250	14.53	14.49	34.48	25.682	237.6	0.739	252
300	12.60	12.56	34.29	25.931	214.5	0.852	302
400	10.65	10.60	34.19	26.216	188.6	1.053	403
500	8.42	8.37	34.00	26.434	168.0	1.231	504
600	6.12	6.07	33.95	26.715	140.2	1.385	605
700	4.84	4.78	33.99	26.899	122.1	1.517	706
750	4.67	4.61	34.07	26.982	114.6	1.576	756

STD 102 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 16.5 N	154 34.0 W	29/06/73	0152 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.76	23.76	35.45	24.055	384.8	0.000	0
10	23.75	23.75	35.45	24.058	384.9	0.038	10
20	23.68	23.68	35.45	24.079	383.3	0.077	20
30	21.90	21.89	35.38	24.538	340.1	0.113	30
50	21.13	21.12	35.30	24.691	326.3	0.180	50
75	19.89	19.88	35.24	24.979	299.8	0.258	76
100	19.32	19.30	35.19	25.090	290.1	0.332	101
125	18.77	18.75	35.13	25.186	281.8	0.403	126
150	18.06	18.03	35.02	25.280	273.6	0.473	151
200	16.33	16.30	34.73	25.472	256.6	0.605	201
250	14.05	14.01	34.43	25.745	231.4	0.727	252
300	12.43	12.39	34.28	25.956	212.0	0.838	302
400	10.44	10.39	34.17	26.237	186.4	1.037	403
500	8.12	8.07	34.01	26.486	162.6	1.212	504
600	5.94	5.89	33.94	26.729	138.5	1.362	605
700	4.83	4.77	34.00	26.908	121.2	1.492	706
750	4.61	4.55	34.09	27.004	112.3	1.551	756

TASADAY EXPEDITION LEG I STD 103

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 22.0 N	154 39.5 W	29/06/73	0815 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.76	23.76	35.43	24.040	386.3	0.000	0
10	23.74	23.74	35.44	24.054	385.3	0.039	10
20	23.75	23.75	35.44	24.052	386.0	0.077	20
30	23.35	23.34	35.42	24.154	376.7	0.115	30
50	21.53	21.52	35.35	24.619	333.1	0.186	50
75	20.71	20.70	35.31	24.814	315.5	0.267	76
100	19.60	19.58	35.20	25.025	296.3	0.344	101
125	18.88	18.86	35.13	25.158	284.5	0.416	126
150	18.28	18.25	35.05	25.249	276.7	0.487	151
200	16.65	16.62	34.80	25.452	258.7	0.620	201
250	14.32	14.28	34.45	25.703	235.5	0.744	252
300	12.49	12.45	34.26	25.929	214.6	0.856	302
400	10.55	10.50	34.17	26.218	188.3	1.058	403
500	8.36	8.31	34.02	26.458	165.6	1.235	504
600	6.28	6.23	33.94	26.687	143.1	1.389	605
700	4.90	4.84	33.98	26.884	123.5	1.522	706
750	4.65	4.59	34.06	26.976	115.1	1.582	756

STD 104 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 18.5 N	154 40.0 W	29/06/73	1622 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.69	23.69	35.42	24.053	385.0	0.000	0
10	23.69	23.69	35.42	24.053	385.4	0.039	10
20	23.69	23.69	35.42	24.054	385.8	0.077	20
30	22.92	22.91	35.44	24.294	363.3	0.115	30
50	21.34	21.33	35.32	24.649	330.3	0.184	50
75	20.06	20.05	35.23	24.926	304.8	0.263	76
100	19.31	19.29	35.19	25.093	289.8	0.338	101
125	18.76	18.74	35.12	25.181	282.3	0.409	126
150	18.16	18.13	35.03	25.263	275.3	0.479	151
200	16.42	16.39	34.75	25.467	257.2	0.612	201
250	14.04	14.00	34.42	25.739	232.0	0.734	252
300	12.43	12.39	34.27	25.948	212.7	0.845	302

TASADAY EXPEDITION LEG I STD 105

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 18.5 N	154 40.0 W	29/06/73	1640 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.69	23.69	35.42	24.053	385.0	0.000	0
10	23.69	23.69	35.42	24.053	385.4	0.039	10
20	23.68	23.68	35.42	24.057	385.5	0.077	20
30	23.17	23.16	35.44	24.222	370.2	0.115	30
50	21.34	21.33	35.32	24.649	330.3	0.185	50
75	20.13	20.12	35.23	24.908	306.5	0.265	76
100	19.43	19.41	35.19	25.062	292.8	0.339	101
125	18.83	18.81	35.13	25.171	283.3	0.411	126
150	18.20	18.17	35.04	25.261	275.5	0.481	151
200	16.50	16.47	34.76	25.456	258.2	0.615	201
250	14.04	14.00	34.41	25.731	232.7	0.737	252
300	12.43	12.39	34.27	25.948	212.7	0.849	302

STD 106 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 30.5 N	155 27.5 W	29/06/73	2323 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.87	23.87	35.43	24.007	389.3	0.000	0
10	23.85	23.85	35.42	24.006	389.9	0.039	10
20	23.68	23.68	35.42	24.057	385.5	0.078	20
30	22.45	22.44	35.37	24.375	355.6	0.115	30
50	21.34	21.33	35.34	24.664	328.9	0.183	50
75	20.07	20.06	35.23	24.924	305.0	0.262	76
100	19.31	19.29	35.17	25.078	291.3	0.337	101
125	18.73	18.71	35.11	25.181	282.3	0.409	126
150	18.26	18.23	35.05	25.253	276.2	0.479	151
200	16.92	16.89	34.83	25.411	262.6	0.613	201
250	14.63	14.59	34.48	25.660	239.7	0.739	252
300	12.54	12.50	34.26	25.919	215.5	0.853	302

TASADAY EXPEDITION LEG I STD 107

LATITUDE	LONGITUDE	DAY/MO YR	START TIME	BOTTOM
27 18.0 N	154 35.5 W	01/07/73	0210 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.91	23.91	35.46	24.018	388.3	0.000	0
10	23.91	23.91	35.46	24.019	388.7	0.039	10
20	23.89	23.89	35.46	24.025	388.5	0.078	20
30	23.60	23.59	35.48	24.126	379.3	0.116	30
50	22.40	22.39	35.35	24.375	356.4	0.190	50
75	20.85	20.84	35.22	24.707	325.7	0.275	75
100	19.94	19.92	35.21	24.944	304.1	0.354	101
125	19.50	19.48	35.19	25.045	295.4	0.429	126
150	18.76	18.73	35.07	25.144	286.8	0.501	151
200	17.63	17.60	34.91	25.303	273.1	0.641	201
250	15.61	15.57	34.57	25.515	254.0	0.773	252
300	13.32	13.28	34.25	25.757	231.3	0.894	302
400	10.77	10.72	34.09	26.117	198.0	1.109	403
500	8.09	8.04	33.93	26.428	168.1	1.292	504
600	6.18	6.13	33.91	26.676	143.9	1.448	605
700	5.05	4.99	33.97	26.859	126.1	1.583	706
800	4.51	4.45	34.13	27.047	108.6	1.701	807
1000	3.80	3.73	34.34	27.289	86.4	1.896	1009

STD 108 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
27 17.0 N	154 35.5 W	01/07/73	0309 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.89	23.89	35.46	24.024	387.8	0.000	0
10	23.89	23.89	35.46	24.025	388.1	0.039	10
20	23.83	23.83	35.45	24.035	387.5	0.078	20
30	23.03	23.02	35.42	24.247	367.8	0.115	30
50	21.80	21.79	35.33	24.529	341.7	0.186	50
75	20.71	20.70	35.27	24.783	318.4	0.269	75
100	19.87	19.85	35.22	24.970	301.6	0.346	101
125	19.37	19.35	35.18	25.071	292.9	0.421	126
150	18.68	18.65	35.08	25.171	284.1	0.493	151
200	17.54	17.51	34.91	25.325	271.0	0.632	201
250	15.42	15.38	34.55	25.542	251.3	0.762	252
300	13.22	13.18	34.35	25.854	222.1	0.880	302
400	10.71	10.66	34.12	26.151	194.8	1.089	403
500	8.19	8.14	33.97	26.445	166.7	1.270	504
600	6.18	6.13	33.93	26.691	142.5	1.424	605
700	4.98	4.92	33.99	26.883	123.8	1.557	706
800	4.56	4.50	34.13	27.042	109.3	1.674	807
1000	3.85	3.78	34.33	27.276	87.7	1.871	1009

TASADAY EXPEDITION LEG I STD 109

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
27 24.5 N	154 33.5 W	01/07/73	0403 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.83	23.83	35.46	24.042	386.1	0.000	0
10	23.82	23.82	35.47	24.053	385.4	0.039	10
20	23.77	23.77	35.47	24.068	384.4	0.077	20
30	22.85	22.84	35.41	24.291	363.6	0.114	30
50	21.67	21.66	35.33	24.565	338.3	0.185	50
75	20.54	20.53	35.21	24.783	318.4	0.267	75
100	19.97	19.95	35.24	24.959	302.6	0.344	101
125	19.39	19.37	35.17	25.058	294.1	0.419	126
150	18.79	18.76	35.10	25.159	285.3	0.491	151
200	17.56	17.53	34.90	25.312	272.2	0.631	201
250	15.65	15.61	34.60	25.529	252.6	0.762	252
300	13.51	13.47	34.37	25.811	226.3	0.882	302
400	10.80	10.75	34.11	26.127	197.1	1.093	403
500	8.24	8.19	33.97	26.437	167.4	1.276	504
600	6.12	6.07	33.93	26.699	141.7	1.430	605
700	5.03	4.97	34.00	26.885	123.7	1.563	706
800	4.53	4.47	34.14	27.053	108.1	1.679	807
1000	3.84	3.77	34.33	27.277	87.6	1.875	1009

STD 110 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
27 24.0 N	154 33.5 W	01/07/73	0450 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.81	23.81	35.46	24.048	385.5	0.000	0
10	23.81	23.81	35.47	24.056	385.2	0.039	10
20	23.77	23.77	35.47	24.068	384 4	0.077	20
30	22.92	22.91	35.42	24.279	364.8	0.114	30
50	21.69	21.68	35.33	24.559	338.8	0.185	50
75	20.54	20.53	35.24	24.806	316.3	0.267	75
100	19.97	19.95	35.23	24.951	303.4	0.344	101
125	19.49	19.47	35.21	25.063	293.7	0.419	126
150	18.77	18.74	35.10	25.164	284.8	0.491	151
200	17.37	17.34	34.86	25.328	270.7	0.630	201
250	15.44	15.40	34.56	25.545	251.0	0.760	252
300	13.39	13.35	34.36	25.828	224.7	0.879	302
400	10.45	10.40	34.08	26.165	193.2	1.088	403
500	8.20	8.15	33.97	26.443	166.8	1.268	504
600	6.19	6.14	33.90	26.666	144.8	1.424	605
700	5.08	5.02	33.98	26.864	125.8	1.559	706
800	4.51	4.45	34.14	27.055	107.9	1.676	807
1000	3.87	3.79	34.32	27.266	88.7	1.873	1009

TASADAY EXPEDITION LEG I STD 111

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
27 25.5 N	154 35.0 W	01/07/73	0600 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.78	23.78	35.47	24.064	383.9	0.000	0
10	23.78	23.78	35.47	24.065	384.3	0.038	10
20	23.76	23.76	35.46	24.064	384.9	0.077	20
30	22.96	22.95	35.42	24.267	365.9	0.114	30
50	21.66	21.65	35.32	24.560	338.7	0.185	50
75	20.33	20.32	35.23	24.855	311.6	0.266	75
100	19.68	19.66	35.19	24.997	299.0	0.342	101
125	19.24	19.22	35.16	25.089	291.1	0.416	126
150	18.80	18.77	35.12	25.172	284.1	0.488	151
200	17.47	17.44	34.89	25.326	270.9	0.627	201
250	15.75	15.71	34.63	25.529	252.6	0.758	252
300	13.54	13.50	34.38	25.813	226.2	0.877	302
400	10.40	10.35	34.08	26.174	192.4	1.087	403
500	8.37	8.32	33.96	26.410	170.1	1.268	504
600	6.50	6.44	33.91	26.635	148.2	1.427	605
700	5.10	5.04	33.99	26.870	125.3	1.564	706
800	4.54	4.48	34.13	27.044	109.0	1.681	807
1000	3.88	3.80	34.32	27.265	88.8	1.879	1009

STD 112 RV THOMAS WASHINGTON TASADAY EXPEDITION LEG I STD 113

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
27 25.5 N	154 35.0 W	01/07 73	0644 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.76	23.76	35.46	24.062	384.1	0.000	0
10	23.76	23.76	35.47	24.071	383.7	0.038	10
20	23.76	23.76	35.47	24.071	384.1	0.077	20
30	22.92	22.91	35.39	24.256	367.0	0.114	30
50	21.56	21.55	35.32	24.588	336.1	0.185	50
75	20.30	20.29	35.24	24.870	310.1	0.265	75
100	19.70	19.68	35.20	24.999	298.8	0.342	101
125	19.25	19.23	35.17	25.094	290.6	0.415	126
150	18.75	18.72	35.09	25.161	285.1	0.487	151
200	17.31	17.28	34.85	25.334	270.1	0.626	201
250	15.54	15.50	34.60	25.553	250.3	0.756	252
300	13.51	13.47	34.37	25.811	226.3	0.875	302
400	10.64	10.59	34.11	26.155	194.3	1.086	403
500	8.43	8.38	33.98	26.417	169.6	1.267	504
600	6.49	6.44	33.92	26.644	147.4	1.426	605
700	5.03	4.97	33.98	26.870	125.1	1.562	706
800	4.46	4.40	34.14	27.060	107.3	1.678	807
1000	3.85	3.78	34.33	27.276	87.7	1.873	1009

LATITUDE	LONGITUDE	DAY/MO YR	START TIME	BOTTOM
27 25.5 N	154 34.0 W	01/07/73	0749 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.75	23.75	35.46	24.065	383.8	0.000	0
10	23.73	23.73	35.46	24.072	383.6	0.038	10
20	23.52	23.52	35.44	24.119	379.6	0.077	20
30	22.80	22.79	35.41	24.306	362.2	0.114	30
50	21.42	21.41	35.32	24.626	332.4	0.183	50
75	20.37	20.36	35.24	24.852	311.9	0.264	75
100	19.66	19.64	35.19	25.002	298.5	0.340	101
125	19.27	19.25	35.18	25.096	290.4	0.414	126
150	18.72	18.69	35.10	25.177	283.6	0.485	151
200	17.13	17.10	34.82	25.354	268.1	0.623	201
250	15.72	15.68	34.64	25.544	251.3	0.753	252
300	13.66	13.62	34.39	25.796	227.8	0.873	302
400	10.81	10.76	34.13	26.141	195.8	1.085	403
500	8.36	8.31	33.98	26.427	168.5	1.267	504
600	6.49	6.44	33.93	26.652	146.6	1.424	605
700	5.02	4.96	33.99	26.879	124.3	1.560	706
800	4.46	4.40	34.14	27.060	107.3	1.676	807
1000	3.86	3.78	34.33	27.275	87.8	1.871	1009

STD 114 RV THOMAS WASHINGTON TASADAY EXPEDITION LEG I STD 115

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
27 25.0 N	154 34.0 W	01/07/73	0911 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.75	23.75	35.47	24.073	383.1	0.000	0
10	23.75	23.75	35.47	24.073	383.5	0.038	10
20	23.76	23.76	35.47	24.071	384.1	0.077	20
30	22.93	22.92	35.42	24.276	365.0	0.114	30
50	21.49	21.48	35.33	24.615	333.5	0.184	50
75	20.32	20.31	35.22	24.850	312.1	0.265	75
100	19.90	19.88	35.24	24.977	300.9	0.341	101
125	19.37	19.35	35.20	25.086	291.4	0.415	126
150	18.79	18.76	35.12	25.174	283.9	0.487	151
200	17.19	17.16	34.86	25.371	266.6	0.625	201
250	15.73	15.69	34.62	25.526	252.9	0.755	252
300	13.76	13.72	34.39	25.775	229.8	0.875	302
400	10.80	10.75	34.13	26.143	195.6	1.088	403
500	8.45	8.40	33.97	26.406	170.6	1.271	504
600	6.40	6.35	33.92	26.655	146.1	1.430	605
700	5.04	4.98	34.00	26.885	123.8	1.565	706
800	4.48	4.42	34.16	27.074	106.1	1.680	807
1000	3.84	3.77	34.33	27.277	87.6	1.873	1009

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
27 25.0 N	154 34.0 W	01/07/73	0946 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.75	23.75	35.47	24.073	383.1	0.000	0
10	23.75	23.75	35.47	24.073	383.5	0.038	10
20	23.71	23.71	35.46	24.078	383.4	0.077	20
30	22.95	22.94	35.41	24.262	366.3	0.114	30
50	21.39	21.38	35.33	24.642	330.9	0.184	50
75	20.29	20.28	35.23	24.865	310.6	0.264	75
100	19.88	19.86	35.24	24.983	300.4	0.340	101
125	19.20	19.18	35.16	25.099	290.1	0.414	126
150	18.60	18.57	35.08	25.192	282.2	0.486	151
200	16.97	16.94	34.81	25.384	265.2	0.623	201
250	15.38	15.34	34.57	25.566	249.0	0.751	252
300	13.38	13.34	34.37	25.837	223.7	0.869	302
400	10.74	10.69	34.13	26.153	194.6	1.079	403
500	8.46	8.41	33.96	26.396	171.5	1.262	504
600	6.37	6.32	33.92	26.659	145.7	1.420	605
700	4.94	4.88	33.99	26.888	123.3	1.555	706
800	4.47	4.41	34.13	27.051	108.2	1.670	807
1000	3.85	3.78	34.32	27.268	88.5	1.867	1009

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 5A

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
30 42.0 N	121 10.0 W	07/06/73	0218 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	16.13												0.04	0.01	0
1	8	16.11												0.05	0.00	8
1	17	16.03												0.04	0.01	17
1	21P	16.02												0.05	0.01	21
1	28P	15.84												0.05	0.01	28
1	35P	15.59												0.05	0.01	35
1	44P	15.35												0.05	0.01	44
1	51P	15.09												0.05	0.01	51
1	59P	15.03												0.04	0.01	59
1	66P	15.02												0.06	0.01	66
1	74P	14.92												0.06	0.02	75
1	83P	14.78												0.07	0.02	84
1	92P	14.55												0.07	0.07	93
1	98P	13.95												0.10	0.06	99
1	107P	13.47												0.12	0.10	108
1	115P	12.81												0.12	0.07	116
1	136P	11.62												0.10	0.08	137
1	160P													0.05	0.08	161

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 17

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 2.5 N	155 0.5 W	16/06/73	2205 GMT	5600 m			1		24.2 C	21.3 C		4/8	CU

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	2	23.02						5.20		3.0	0.24	0.4	0.00	0.04	0.01	2
1	12	23.02						5.09		2.0	0.22	0.3	0.00	0.03	0.01	12
1	22	22.93						5.24		4.0	0.22	0.2	0.01	0.04	0.01	22
1	32	22.91						5.07		3.0	0.20	0.4	0.00	0.05	0.01	32
1	43	21.56						5.38		2.0	0.18	0.3	0.00	0.05	0.01	43
1	53	21.16						5.41		6.0	0.16	0.2	0.00	0.06	0.01	53
1	63	20.87						5.36		2.0	0.22	0.2	0.00	0.06	0.01	63
1	72	20.27						5.58		2.0	0.21	0.3	0.00	0.07	0.01	73
1	80	20.14						5.39		7.0	0.22	0.5	0.01	0.07	0.02	81

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 19

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 2.5 N	155 3.0 W	17/06/73	1801 GMT		100 18 kn	100 05	1		24.0 C	20.3 C		2/8	SC

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	147	19.00						5.16		2.0	0.11	0.5	0.14			148
1	171	18.36						5.07		3.0	0.11	1.1	0.04			172
1	196	17.67						4.99		3.0	0.14	1.8	0.01			197
1	221	16.77						4.95		4.0	0.16	2.6	0.02			223
1	246	15.49						5.05		6.0	0.25	4.5	0.01			248
1	270	14.53						4.96		7.0	0.33	5.2	0.02			272
1	294	13.62						4.74		9.0	0.47	7.3	0.02			296
1	343	12.10						4.89		12.0	0.58	10.1	0.02			346
1	392	10.91						4.88		16.0	0.81	13.2	0.02			395
1	489	8.68						4.29		31.0	1.28	20.7	0.04			493
1	585	6.58						3.06		54.0	1.96	30.7	0.04			590
1	681	5.17						1.74		80.0	2.53	39.2	0.03			687

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 28

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 1.5 N	154 58.0 W	18/06/73	2057 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	138	19.58								2.0	0.13	0.1	0.00	0.11	0.11	139
1	151	19.20								2.0	0.13	0.3	0.16	0.11	0.11	152
1	176	18.53								2.0	0.16	0.9	0.06	0.06	0.08	177
1	201	17.68								3.0	0.17	1.4	0.02	0.02	0.02	203
1	251	15.55								6.0	0.28	4.2	0.01	0.01	0.01	253
1	302	13.44								9.0	0.50	7.5	0.02	0.01	0.01	304

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 29

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
27 58.5 N	154 58.0 W	19/06/73	0245 GMT				1		26.5 C	22.1 C		3/8	CU

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	24.16								1.0	0.18	0.1	0.01	0.05	0.03	0
1	15	23.17								1.0	0.16	0.1	0.00	0.03	0.01	15
1	30	22.76								1.0	0.14	0.1	0.00	0.04	0.02	30
1	46	21.62								2.0	0.14	0.1	0.00	0.05	0.01	46
1	62	21.21								2.0	0.14	0.1	0.03	0.06	0.02	62
1	76	20.71								2.0	0.14	0.1	0.00	0.06	0.02	77
1	91	20.17								2.0	0.15	0.1	0.00	0.07	0.02	92
1	106	19.87								2.0	0.15	0.1	0.00	0.10	0.04	107
1	122	19.63								2.0	0.16	0.1	0.00	0.14	0.15	123
1	137	19.48								2.0	0.16	0.2	0.02	0.13	0.17	138
1	152	19.10								2.0	0.17	0.3	0.14	0.12	0.16	153
1	203	17.70								3.0	0.19	1.4	0.03	0.02	0.03	205
1	254	15.67								6.0	0.30	4.1	0.02			256
1	305	13.91								9.0	0.47	7.2	0.02			307

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 30

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
27 58.5 N	154 57.5 W	19/06/73	1023 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	3	23.80								1.0	0.18	0.1	0.00	0.03	0.01	3
1	16	23.01								1.0	0.15	0.1	0.00	0.04	0.02	16
1	40	21.72								2.0	0.14	0.1	0.01	0.04	0.01	40
1	55	21.08								2.0	0.13	0.1	0.00	0.05	0.02	55
1	69	20.44								2.0	0.14	0.2	0.02	0.06	0.02	69
1	84	20.15								2.0	0.14	0.1	0.00	0.07	0.02	85
1	99	19.86								2.0	0.14	0.1	0.01	0.07	0.04	100
1	115	19.77								2.0	0.14	0.1	0.00	0.10	0.06	116
1	130	19.61								2.0	0.14	0.1	0.00	0.10	0.10	131
1	145	19.36								2.0	0.14	0.0	0.09	0.12	0.12	146
1	162	18.93								2.0	0.16	0.3	0.20	0.08	0.10	163
1	212	17.42								4.0	0.18	1.4	0.03	0.01	0.02	214
1	261	15.39								6.0	0.29	4.5	0.02			263
1	306	13.24								10.0	0.51	8.2	0.02			308

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 31

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 1.5 N	155 0.5 W	19/06/73	1254 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	1	23.46	23.46	35.396	24.102	380.3	0.004	5.00	103.2							1
1	26	22.97	22.96	35.445	24.283	364.2	0.097	5.05	103.4							26
1	50	21.56	21.55	35.383	24.636	331.5	0.180	5.28	105.4							50
1	75	20.58	20.57	35.333	24.866	310.5	0.261	5.35	104.9							75
1	100	20.00	19.98	35.298	24.995	299.2	0.337	5.30	102.7							100
1	125	19.57	19.55	35.259	25.079	292.1	0.411	5.22	100.4							125
1	149	19.18	19.15	35.216	25.148	286.4	0.480	5.14	98.1							150
1	199	17.99	17.96	35.041	25.315	272.1	0.620	5.04	93.9							200
1	248	16.08	16.04	34.731	25.532	252.4	0.748	4.81	86.2							249
1	297	13.59	13.55	34.416	25.830	224.5	0.865	4.77	81.1							298
1	346	12.28	12.23	34.310	26.009	208.1	0.971	4.85	80.2							348
1	395	10.94	10.89	34.219	26.187	191.4	1.069	4.84	77.7							397
1	493	8.67	8.62	34.072	26.452	166.4	1.244	4.19	63.9							496
1	691	5.00	4.94	34.058	26.935	118.9	1.527	1.62	22.7							695
1	887	4.10	4.03	34.279	27.209	93.5	1.735	0.41	5.6							893
1	1084	3.66	3.58	34.433	27.378	78.5	1.904	0.64	8.7							1092
1	1281	3.19	3.10	34.509	27.484	68.8	2.049	1.08	14.5							1292
1	1481	2.80	2.69	34.551	27.554	62.4	2.181	1.35	17.9							1494

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 32

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 2.5 N	155 1.0 W	19/06/73	1605 GMT						21.3 C	20.5 C		1/8	CU

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	3	23.42								1.0	0.15	0.1	0.01	0.04	0.01	3
1	16	23.14								1.0	0.16	0.1	0.00	0.04	0.01	16
1	32	22.77								1.0	0.14	0.1	0.01	0.05	0.01	32
1	45	22.37								2.0	0.16	0.1	0.00	0.06	0.01	45
1	61	21.13								2.0	0.14	0.1	0.00	0.06	0.01	61
1	76	20.46								2.0	0.19	0.1	0.01	0.07	0.02	77
1	90	20.05								2.0	0.21	0.1	0.02	0.08	0.02	91
1	106	19.80								2.0	0.22	0.1	0.01	0.10	0.08	107
1	121	19.61								2.0	0.21	0.1	0.03	0.12	0.16	122
1	136	19.41								2.0	0.22	0.1	0.06	0.12	0.15	137
1	152	19.08								3.0	0.23	0.1	0.20	0.10	0.14	153
1	202	17.88								3.0	0.26	1.7	0.04	0.04	0.05	204
1	250	15.61								6.0	0.33	3.1	0.02			252
1	296	13.09								10.0	0.64	7.8	0.03			298

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 35

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT TYPE
28 4.5 N	154 42.5 W	20/06/73	1531 GMT									

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	4	23.18								1.0	0.13	0.2	0.00	0.05	0.01	4
1	18	23.17								1.0	0.12	0.1	0.00	0.05	0.01	18
1	32	22.89								1.0	0.13	0.2	0.01	0.05	0.01	32
1	47	21.33								2.0	0.10	0.1	0.00	0.06	0.01	47
1	61	20.27								2.0	0.10	0.1	0.00	0.07	0.02	61
1	76	20.01								2.0	0.10	0.2	0.00	0.07	0.02	77
1	91	19.85								2.0	0.13	0.2	0.00	0.07	0.03	92
1	106	19.69								2.0	0.12	0.3	0.00	0.08	0.06	107
1	122	19.50								2.0	0.12	0.3	0.00	0.09	0.14	123
1	136	19.26								2.0	0.12	0.2	0.07	0.11	0.12	137
1	152	18.98								2.0	0.14	0.7	0.08	0.08	0.13	153
1	203	17.43								3.0	0.16	1.5	0.03	0.01	0.01	205
1	252	16.03								4.0	0.19	1.8	0.19			254
1	298	13.51								8.0	0.51	7.5	0.03			300

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 37

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT TYPE
28 1.5 N	154 41.0 W	20/06/73	2105 GMT									

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	150	19.12								2.0	0.14	0.3	0.16	0.09	0.14	151
1	164	18.68								2.0	0.15	0.7	0.05	0.05	0.07	165
1	189	18.05								3.0	0.16	1.1	0.04	0.02	0.03	190
1	213	17.45								3.0	0.16	1.1	0.03	0.01	0.01	215
1	263	15.89								5.0	0.21	2.1	0.03	0.00	0.01	265
1	312	13.26								10.0	0.54	8.3	0.03	0.00	0.01	314

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 38

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT TYPE
28 4.0 N	154 35.5 W	21/06/73	0237 GMT									

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	1	23.22								2.0	0.15	0.1	0.00	0.04	0.01	1
1	16	22.99								2.0	0.15	0.2	0.01	0.04	0.01	16
1	32	21.61								2.0	0.14	0.1	0.00	0.05	0.01	32
1	47	21.08								2.0	0.13	0.2	0.00	0.05	0.01	47
1	62	20.39								2.0	0.13	0.1	0.00	0.05	0.01	62
1	77	20.06								2.0	0.13	0.1	0.00	0.07	0.02	78
1	93	19.80								2.0	0.14	0.1	0.00	0.10	0.04	94
1	108	19.70								2.0	0.15	0.1	0.00	0.10	0.12	109
1	123	19.52								2.0	0.15	0.1	0.02	0.13	0.14	124
1	138	19.09								2.0	0.16	0.1	0.20	0.12	0.12	139
1	152	18.71								2.0	0.18	0.8	0.03	0.06	0.07	153
1	201	17.49								3.0	0.20	1.6	0.04	0.01	0.02	203
1	251	15.38								6.0	0.31	3.5	0.01			253
1	298	13.42								9.0	0.54	7.6	0.02			300

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 39

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT TYPE
27 59.5 N	154 39.0 W	21/06/73	1017 GMT									

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	1	23.04								2.0	0.20	0.1	0.00	0.04	0.01	1
1	16	23.00								2.0	0.15	0.1	0.00	0.04	0.01	16
1	32	21.79								2.0	0.16	0.1	0.00	0.06	0.01	32
1	47	21.53								2.0	0.15	0.1	0.00	0.05	0.01	47
1	62	20.75								2.0	0.13	0.1	0.00	0.06	0.01	62
1	77	20.17								2.0	0.15	0.1	0.00	0.07	0.02	78
1	92	19.88								2.0	0.15	0.1	0.00	0.08	0.03	93
1	107	19.75								2.0	0.14	0.1	0.00	0.09	0.05	108
1	122	19.64								2.0	0.16	0.2	0.00	0.10	0.12	123
1	137	19.40								2.0	0.16	0.2	0.04	0.13	0.16	138
1	152	19.13								2.0	0.18	0.4	0.17	0.12	0.14	153
1	201	18.05								3.0	0.19	1.2	0.02	0.02	0.03	203
1	249									4.0	0.25	2.2	0.02			251
1	297	13.87								8.0	0.50	6.8	0.02			299

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 40

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT TYPE
28 0.0 N	154 40.0 W	21/06/73	1315 GMT									

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	2	23.01	23.01	35.497	24.309	360.6	0.007	5.17	106.0							2
1	27	22.99	22.98	35.494	24.314	361.3	0.097	5.34	109.4							27
1	52	21.41	21.40	35.376	24.672	328.2	0.184	5.39	107.3							52
1	76	20.17	20.16	35.317	24.964	301.3	0.259	5.55	108.0							76
1	101	19.71	19.69	35.308	25.079	291.2	0.333	5.42	104.5							101
1	126	19.49	19.47	35.291	25.125	287.8	0.406	5.23	100.4							127
1	150	19.04	19.01	35.233	25.197	281.8	0.474	5.05	96.1							151
1	200	17.87	17.84	35.029	25.336	270.1	0.612	5.16	95.9							201
1	250	16.51	16.47	34.817	25.500	255.8	0.743	5.31	96.0							251
1	299	14.13	14.09	34.490	25.776	230.0	0.862	4.88	84.0							300
1	349	12.30	12.25	34.315	26.009	208.2	0.972	4.94	81.7							351
1	398	11.11	11.06	34.249	26.180	192.3	1.070	5.08	81.9							400
1	498	8.83	8.78	34.087	26.439	167.9	1.250	4.34	66.5							501
1	696	4.98	4.92	34.061	26.940	118.5	1.534	1.70	23.8							700
1	894	4.10	4.03	34.282	27.212	93.3	1.743	0.43	5.9							900
1	1092	3.56	3.48	34.438	27.391	77.0	1.912	0.77	10.4							1100
1	1291	3.18	3.09	34.512	27.488	68.5	2.057	1.16	15.6							1302
1	1491	2.83	2.72	34.553	27.553	62.7	2.188	1.42	18.9							1504

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 43

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT TYPE
28 10.0 N	154 39.0 W	22/06/73	1421 GMT						22.0 C	20.1 C		

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	2	23.46								2.0	0.08	0.2	0.02	0.04	0.01	2
1	17	23.13								2.0	0.08	0.1	0.00	0.04	0.01	17
1	31	23.01								2.0	0.06	0.1	0.00	0.04	0.01	31
1	46	21.85								2.0	0.09	0.2	0.00	0.05	0.01	46
1	61	21.29								2.0	0.13	0.1	0.01	0.06	0.01	61
1	76	20.35								2.0	0.09	0.1	0.01	0.06	0.02	77
1	91	19.99								2.0	0.09	0.1	0.01	0.07	0.02	92
1	106	19.43								2.0	0.09	0.1	0.00	0.09	0.06	107
1	121	19.23								2.0	0.09	0.1	0.00	0.12	0.11	122
1	136	18.90								2.0	0.09	0.3	0.00	0.19	0.18	137
1	151	18.42								3.0	0.13	0.5	0.15	0.14	0.18	152
1	201	16.84								4.0	0.20	1.5	0.03	0.03	0.04	203
1	250	15.04								7.0	0.41	4.4	0.05			252
1	299	13.17								11.0	0.64	8.1	0.19			301

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 45

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT TYPE
28 11.0 N	154 41.0 W	22/06/73	2045 GMT									

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	131	18.66								2.0	0.13	0.8	0.10	0.15	0.17	132
1	147	18.29								2.0	0.14	1.1	0.06	0.08	0.12	148
1	173	17.41								3.0	0.24	1.6	0.04	0.04	0.04	174
1	200	16.42								4.0	0.27	2.5	0.02	0.02	0.02	202
1	254	14.35								7.0	0.46	5.7	0.01	0.00	0.01	256
1	311	12.79								11.0	0.65	8.7	0.03	0.00	0.01	313

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 46

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT TYPE
28 5.5 N	154 37.0 W	23/06/73	0229 GMT									

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	24.19								2.0	0.10	0.1	0.01	0.04	0.01	0
1	15	23.13								2.0	0.10	0.2	0.01	0.05	0.01	15
1	30	22.90								2.0	0.08	0.2	0.01	0.04	0.01	30
1	45	21.39								2.0	0.07	0.2	0.01	0.06	0.01	45
1	61	20.46								2.0	0.10	0.2	0.01	0.06	0.01	61
1	75	20.09								2.0	0.10	0.2	0.00	0.07	0.02	76
1	90	19.83								2.0	0.10	0.2	0.00	0.08	0.03	91
1	105	19.36								3.0	0.09	0.1	0.00	0.12	0.07	106
1	121	19.12								3.0	0.10	0.1	0.00	0.16	0.15	122
1	136	18.71								3.0	0.13	0.3	0.17	0.19	0.18	137
1	151	18.60								3.0	0.12	0.4	0.16	0.15	0.17	152
1	201	17.23								4.0	0.16	1.3	0.03	0.04	0.04	203
1	251	15.09								7.0	0.41	4.4	0.03			253
1	298	13.24								11.0	0.58	7.8	0.05			300

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 47

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT TYPE
28 14.0 N	154 33.5 N	23/06/73	0853 GMT									

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	1	24.01								2.0	0.08	0.2	0.00	0.04	0.01	1
1	16	23.40								2.0	0.08	0.1	0.01	0.04	0.01	16
1	31	23.33								2.0	0.08	0.1	0.00	0.05	0.01	31
1	46	22.35								2.0	0.06	0.2	0.01	0.05	0.01	46
1	61	20.99								2.0	0.06	0.2	0.01	0.06	0.01	61
1	76	20.20								2.0	0.08	0.1	0.00	0.08	0.02	77
1	91	19.64								3.0	0.08	0.1	0.01	0.10	0.03	92
1	105	19.30								3.0	0.11	0.1	0.00	0.12	0.08	106
1	120	18.81								3.0	0.13	0.1	0.07	0.23	0.19	121
1	135	18.11								4.0	0.19	0.7	0.06	0.15	0.17	136
1	149	17.62								4.0	0.24	1.5	0.07	0.09	0.12	150
1	197	16.12								6.0	0.27	2.1	0.04	0.01	0.02	198
1	245	14.08								8.0	0.52	5.3	0.06			247
1	291	12.57								12.0	0.74	8.6	0.06			293

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 48

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT TYPE
28 9.5 N	154 42.5 W	23/06/73	1308 GMT									

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	23.38	23.38	35.466	24.178	373.0	0.000	5.22	107.7							0
1	25	22.95	22.94	35.434	24.280	364.4	0.092	5.15	105.4							25
1	49	21.73	21.72	35.412	24.611	333.9	0.176	5.34	106.9							49
1	73	20.53	20.52	35.306	24.859	311.1	0.253	5.36	104.9							73
1	97	19.77	19.75	35.285	25.046	294.2	0.326	5.36	103.5							97
1	122	19.01	18.99	35.176	25.160	284.2	0.398	5.36	101.9							122
1	146	18.67	18.64	35.153	25.230	278.4	0.466	5.10	96.3							147
1	195	17.29	17.26	34.933	25.402	263.4	0.599	5.06	93.0							196
1	244	15.41	15.37	34.647	25.618	243.9	0.723	5.00	88.4							245
1	292	13.54	13.50	34.451	25.867	220.8	0.834	4.86	82.6							293
1	340	12.29	12.24	34.368	26.052	203.9	0.936	4.90	81.1							342
1	389	11.01	10.96	34.255	26.203	189.9	1.033	5.00	80.4							391
1	485	9.02	8.97	34.128	26.441	167.6	1.204	4.77	73.4							488
1	680	5.06	5.00	34.055	26.926	119.7	1.485	1.84	25.8							684
1	873	4.19	4.12	34.286	27.205	93.9	1.691	0.45	6.2							879
1	1068	3.61	3.53	34.433	27.382	77.8	1.858	0.71	9.6							1076
1	1265	3.24	3.15	34.509	27.479	69.3	2.003	1.09	14.6							1276
1	1464	2.85	2.75	34.551	27.550	62.9	2.135	1.40	18.6							1477

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 52

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT TYPE
28 9.5 N	155 0.0 W	24/06/73	1447 GMT									

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	23.58								2.0	0.14	0.2	0.01	0.04	0.01	0
1	14	23.58								2.0	0.12	0.2	0.01	0.04	0.01	14
1	28	23.16								2.0	0.11	0.1	0.00	0.04	0.02	28
1	43	21.31								2.0	0.12	0.1	0.00	0.06	0.03	43
1	58	20.36								2.0	0.11	0.1	0.00	0.06	0.03	58
1	75	19.75								2.0	0.11	0.1	0.00	0.06	0.04	76
1	90	19.25								2.0	0.11	0.1	0.00	0.09	0.04	91
1	105	19.07								2.0	0.12	0.1	0.01	0.12	0.10	106
1	121	18.77								2.0	0.12	0.2	0.04	0.15	0.16	122
1	136	18.57								2.0	0.12	0.2	0.02	0.12	0.17	137
1	151	18.53								2.0	0.12	0.2	0.02	0.08	0.14	152
1	199									2.0	0.17	1.5	0.04	0.03	0.06	201
1	249	15.63								5.0	0.26	2.7	0.04			251
1	296	13.51								10.0	0.54	7.6	0.17			298

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 53

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT TYPE
28 10.0 N	154 58.5 W	24/06/73	2110 GMT									

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	135	18.27								2.0	0.14	0.8	0.06	0.09	0.11	136
1	150	18.13								2.0	0.12	0.2	0.15	0.06	0.09	151
1	177	17.38								3.0	0.18	1.4	0.00	0.04	0.05	178
1	202	16.62								4.0	0.20	1.4	0.00	0.02	0.03	204
1	256	15.03								6.0	0.34	3.9	0.00	0.00	0.01	258
1	312	13.00								10.0	0.59	8.8	0.00	0.00	0.01	314

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 54

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 5.5 N	155 0.5 W	25/06/73	0211 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	23.74								1.0	0.10	0.1	0.01	0.04	0.01	0
1	14	23.54								1.0	0.09	0.1	0.00	0.04	0.01	14
1	29	22.69								1.0	0.11	0.1	0.01	0.05	0.01	29
1	43	21.63								1.0	0.10	0.1	0.00	0.06	0.01	43
1	58	20.88								2.0	0.09	0.1	0.00	0.06	0.01	58
1	73	20.30								2.0	0.10	0.1	0.01	0.06	0.02	74
1	88	19.90								2.0	0.11	0.2	0.01	0.07	0.03	89
1	104	19.57								2.0	0.12	0.2	0.02	0.10	0.06	105
1	118	19.21								2.0	0.12	0.2	0.00	0.13	0.14	119
1	133	18.86								2.0	0.12	0.3	0.07	0.17	0.18	134
1	148									2.0	0.15	0.5	0.17	0.15	0.18	149
1	196									3.0	0.17	1.4	0.05	0.04	0.06	197
1	245	16.07								5.0	0.28	2.8	0.02			247
1	293	14.55								7.0	0.43	5.0	0.01			295

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 55

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 15.5 N	154 58.5 W	25/06/73	0815 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	23.74								2.0	0.11	0.2	0.01	0.03	0.00	0
1	14	23.73								2.0	0.11	0.2	0.01	0.03	0.01	14
1	30	22.62								2.0	0.09	0.1	0.00	0.04	0.01	30
1	44	21.19								2.0	0.09	0.1	0.00	0.05	0.01	44
1	59	20.37								2.0	0.11	0.1	0.00	0.04	0.01	59
1	74	19.92								3.0	0.09	0.1	0.00	0.04	0.02	75
1	89	19.60								3.0	0.10	0.1	0.00	0.06	0.03	90
1	103	19.37								3.0	0.12	0.1	0.01	0.06	0.05	104
1	118	19.14								3.0	0.12	0.2	0.04	0.08	0.12	119
1	132	18.79								3.0	0.13	0.2	0.02	0.12	0.16	133
1	145									3.0	0.15	0.2	0.02	0.08	0.11	146
1	194									4.0	0.22	1.5	0.04	0.02	0.02	195
1	241	15.86								6.0	0.26	2.7	0.04			243
1	287	13.78								10.0	0.54	7.6	0.17			289

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 56

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 10.5 N	154 59.0 W	25/06/73	1056 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	1	23.75	23.75	35.485	24.084	382.0	0.004	5.10	105.9							1
1	26	23.21	23.20	35.459	24.224	369.8	0.098	5.15	105.9							26
1	51	20.70	20.69	35.297	24.805	315.4	0.183	5.50	108.0							51
1	75	20.27	20.26	35.279	24.908	306.5	0.258	5.36	104.4							75
1	100	19.59	19.57	35.274	25.084	290.7	0.333	5.28	101.6							100
1	125	19.10	19.08	35.222	25.172	283.2	0.404	5.17	98.5							126
1	149	18.60	18.57	35.145	25.241	277.4	0.472	5.14	97.0							150
1	199	17.06	17.03	34.914	25.443	259.7	0.606	5.18	94.7							200
1	247	15.66	15.62	34.683	25.590	246.7	0.728	4.94	87.8							248
1	298	13.46	13.42	34.447	25.881	219.6	0.846	4.94	83.8							299
1	347	11.92	11.87	34.326	26.090	200.2	0.949	4.96	81.4							349
1	397	10.93	10.88	34.251	26.214	188.9	1.047	4.92	79.0							399
1	496	8.71	8.66	34.105	26.472	164.6	1.222	4.61	70.4							499
1	694	5.14	5.08	34.044	26.908	121.7	1.505	1.69	23.7							698
1	892	4.17	4.10	34.288	27.209	93.7	1.718	0.39	5.4							898
1	1091	3.59	3.51	34.446	27.395	76.8	1.888	0.68	9.2							1100
1	1290	3.15	3.06				2.033	1.05	14.1							1301
1	1489	2.77	2.66	34.560	27.564	61.4	2.162	1.38	18.3							1502

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 64

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 29.5 N	154 59.0 W	26/06/73	1428 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	23.67								1.0	0.13	0.1	0.03	0.04	0.01	0
1	14	23.67												0.04	0.01	14
1	29	22.42								2.0	0.09	0.1	0.00	0.05	0.01	29
1	44	21.41								2.0	0.09	0.1	0.00	0.05	0.01	44
1	59	20.68								2.0	0.12	0.1	0.05	0.05	0.01	59
1	74	20.12								2.0	0.12	0.1	0.00	0.06	0.01	75
1	89	19.80								2.0	0.12	0.1	0.00	0.05	0.02	90
1	104	19.41								2.0	0.14	0.1	0.02	0.07	0.07	105
1	121	19.03								3.0	0.16	0.0	0.27	0.18	0.13	122
1	137	18.78								3.0	0.16	0.0	0.35	0.13	0.15	138
1	150	18.48								3.0	0.21	0.5	0.14	0.09	0.11	151
1	200	17.20								4.0	0.21	1.2	0.00	0.04	0.05	202
1	250	15.55								6.0	0.32	3.4	0.00			252
1	300	13.45								11.0	0.61	7.4	0.10			302

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 65

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 17.0 N	155 1.0 W	26/06/73	2054 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	131	18.44								2.0	0.09	0.2	0.00	0.12	0.11	132
1	146	18.12								2.0	0.10	0.0	0.36	0.08	0.11	147
1	171	17.50								3.0	0.10	0.7	0.06	0.04	0.06	172
1	196	17.21								3.0	0.12	1.4	0.00	0.02	0.03	197
1	249	15.94								5.0	0.20	1.8	0.00	0.00	0.01	251
1	303	13.31								10.0	0.54	7.6	0.02	0.01	0.00	305

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 66

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 20.5 N	155 2.0 W	27/06/73	0229 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	23.78								1.0	0.10	0.1	0.01	0.04	0.01	0
1	15	23.74								1.0	0.10	0.1	0.03	0.04	0.01	15
1	31	22.41								1.0	0.08	0.1	0.02	0.05	0.03	31
1	46	21.10								2.0	0.10	0.1	0.03	0.06	0.01	46
1	62	20.50								2.0	0.08	0.1	0.00	0.06	0.02	62
1	77	20.04								1.0	0.09	0.1	0.00	0.07	0.03	78
1	92	19.60								2.0	0.10	0.1	0.00	0.08	0.05	93
1	107	19.01								2.0	0.10	0.2	0.13	0.17	0.18	108
1	122	18.59								2.0	0.10	0.1	0.00	0.10	0.13	123
1	137	18.43								2.0	0.10	0.2	0.03	0.10	0.12	138
1	151	18.17								2.0	0.12	0.1	0.31	0.06	0.10	152
1	201	17.04								3.0	0.18	1.2	0.04	0.02	0.04	203
1	252	15.82									0.23	1.9	0.03			254
1	306	13.88									0.50	6.5	0.05			308

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 67

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 16.5 N	155 0.0 W	27/06/73	0851 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	23.63								2.0	0.13	0.1	0.00	0.05	0.01	0
1	15	23.62								1.0	0.13	0.1	0.01	0.04	0.01	15
1	29	22.60								2.0	0.10	0.1	0.00	0.06	0.01	29
1	44	21.48								2.0	0.10	0.2	0.00	0.06	0.01	44
1	58	20.65								2.0	0.10	0.2	0.00	0.06	0.02	58
1	73	20.16								2.0	0.10	0.1	0.01	0.06	0.02	74
1	87	19.65								2.0	0.10	0.1	0.01	0.09	0.03	88
1	103	18.97								2.0	0.10	0.1	0.01	0.13	0.09	104
1	117	18.72								2.0	0.09	0.1	0.01	0.14	0.10	118
1	132	18.52								2.0	0.09	0.1	0.00	0.12	0.13	133
1	146	18.31								2.0	0.09	0.2	0.17	0.10	0.11	147
1	195	17.34								3.0	0.13	1.1	0.01	0.03	0.06	196
1	244									4.0	0.20	1.6	0.01			246
1	293	14.18								9.0	0.45	5.9	0.05			295

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 68

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 20.5 N	154 59.5 W	27/06/73	1200 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	23.72	23.72	35.496	24.101	380.4	0.000	5.08	105.4							0
1	25	23.70	23.69	35.493	24.107	381.0	0.095	5.12	106.2							25
1	50	20.70	20.69	35.304	24.811	314.8	0.182	5.50	108.0							50
1	74	19.74	19.73	35.254	25.029	295.0	0.255	5.28	101.9							74
1	99	19.38	19.36	35.248	25.119	287.3	0.328	5.22	100.0							99
1	124	18.89	18.87	35.185	25.197	280.7	0.399	5.07	96.2							125
1	148	18.50	18.47	35.157	25.276	274.1	0.466	5.41	101.9							149
1	198	17.38	17.35	34.977	25.415	262.4	0.600	5.24	96.5							199
1	247	16.07	16.03	34.763	25.559	249.9	0.725	5.26	94.3							248
1	297	13.68	13.64	34.465	25.850	222.7	0.843	4.91	83.7							298
1	346	12.13	12.08	34.340	26.061	203.0	0.948	4.98	82.1							348
1	396	10.99	10.94	34.255	26.206	189.7	1.046	4.90	78.8							398
1	495	9.18	9.12	34.142	26.427	169.4	1.224	4.83	74.6							498
1	691	5.18	5.12	34.046	26.905	122.0	1.509	1.75	24.6							695
1	887	4.10	4.03	34.270	27.202	94.2	1.721	0.44	6.0							893
1	1085	3.57	3.49	34.427	27.382	77.9	1.891	0.56	7.6							1093
1	1283	3.14	3.05	34.510	27.490	68.1	2.036	1.02	13.7							1294
1	1480	2.79	2.68	34.554	27.557	62.0	2.164	1.25	16.6							1493

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 71

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 17.5 N	154 54.0 W	28/06/73	1032 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	23.74	23.74	35.495	24.095	381.0	0.000	5.02	104.2	1.0	0.15	0.1	0.00			0
1	9	23.72	23.72	35.494	24.100	380.9	0.034	4.95	102.7	1.0	0.14	0.2	0.00			9
1	24	23.41	23.40	35.478	24.180	373.9	0.091	5.08	104.8	1.0	0.16	0.2	0.01			24
1	49	21.23	21.22	35.374	24.720	323.5	0.178	5.34	105.9	2.0	0.14	0.3	0.01			49
1	74	20.08	20.07	35.250	24.936	303.8	0.256	5.21	101.1	2.0	0.16	0.2	0.00			74
1	99	19.45	19.43	35.255	25.106	288.5	0.331	5.21	100.0	2.0	0.14	0.2	0.00			99
1	149	18.25	18.22	35.095	25.290	272.7	0.471	5.05	94.6	2.0	0.20	0.8	0.08			150
1	198	17.00	16.97	34.901	25.447	259.2	0.601	5.16	94.3	4.0	0.27	1.3	0.12			199
1	298	13.29	13.25	34.403	25.881	219.5	0.840	4.83	81.6	9.0	0.61	8.0	0.03			299
1	497	8.85	8.80	34.119	26.461	165.8	1.224	4.71	72.2	29.0	1.17	18.1	0.01			500
1	745	4.65	4.59	34.093	27.002	112.6	1.569	1.27	17.6	91.0	2.62	38.9	0.03			750
1	993	3.74	3.67	34.381	27.328	82.6	1.811	0.43	5.8	130.0	3.07	45.3	0.01			1000
1	1487	2.72	2.62	34.558	27.567	60.9	2.166	1.41	18.7	153.0	2.95	45.8	0.03			1500
1	1978	2.08	1.94	34.618	27.670	51.3	2.441	1.94	25.3	166.0	2.87	41.0	0.66U			1998
1	2472	1.74	1.56	34.648	27.723	46.8	2.684	2.39	30.9	172.0	2.76	40.4	0.00			2501
1	2964	1.59	1.37	34.670	27.755	44.8	2.909	2.85	36.6	172.0	2.67	40.2	0.01			3002
1	3459	1.51	1.24	34.680	27.772	44.4	3.129	3.12	40.0	170.0	2.57	40.7	0.03			3508
1	3955	1.49	1.17	34.686	27.782	45.0	3.351	3.39	43.4	132.0	2.03	28.9U	0.00			4016
1	4454	1.49	1.11	34.694	27.792	45.7	3.577	3.56	45.5	160.0	2.57	36.9	0.00			4528
1	4957	1.52	1.08	34.710	27.807	46.4	3.809	3.66	46.7	156.0	2.54	36.7	0.00			5045

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 72

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 17.5 N	154 37.5 W	28/06/73	1630 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	23.70	23.70	35.500	24.110	379.5				2.0	0.22	0.2	0.00	0.04	0.01	0
1	15	23.69	23.69	35.500	24.114	379.8				1.0	0.19	0.2	0.00	0.04	0.01	15
1	30	22.42	22.41							1.0	0.16	0.2	0.01	0.07	0.03	30
1	45	21.36	21.35							1.0	0.17	0.3	0.01	0.06	0.02	45
1	60	20.89	20.88							1.0	0.19	0.5	0.03	0.09	0.01	60
1	75	20.12	20.11							1.0	0.17	0.3	0.02	0.08	0.03	75
1	90	19.73	19.71							2.0	0.19	0.2	0.02	0.09	0.05	90
1	104	19.29	19.27							2.0	0.25	0.2	0.01	0.11	0.12	104
1	119	18.97	18.95							2.0	0.22	0.3	0.01	0.13	0.18	119
1	135	18.72	18.70							2.0	0.22	0.6	0.21	0.14	0.17	136
1	150	18.27	18.24							2.0	0.27	0.7	0.24	0.08	0.14	151
1	200	16.71	16.68	34.841	25.469	257.1				4.0	0.28	2.0	0.01	0.02	0.03	201
1	252	14.85	14.81	34.569	25.681	237.9				6.0	0.44	4.8	0.00			253
1	302	12.50	12.46	34.332	25.983	209.5				11.0	0.73	9.3	0.01			303

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 73

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 21.0 N	154 40.0 W	28/06/73	2053 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	141	18.64								2.0	0.17	0.7	0.08	0.10	0.16	142
1	156	18.26								3.0	0.17	1.1	0.06	0.07	0.09	157
1	180	17.72								3.0	0.17	1.2	0.04	0.04	0.04	181
1	205	16.64								4.0	0.23	2.0	0.03	0.02	0.03	207
1	257	14.50								7.0	0.42	5.5	0.00	0.00	0.01	259
1	313	12.61								11.0	0.62	8.9	0.00	0.00	0.01	315

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG I — STATION 74

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 15.5 N	154 33.0 W	29/06/73	0222 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	23.78								1.0	0.17	0.2	0.01	0.06	0.01	0
1	15	23.76								1.0	0.16	0.2	0.00	0.05	0.01	15
1	31	22.86								1.0	0.16	0.1	0.01	0.07	0.02	31
1	46	21.38								1.0	0.15	0.1	0.02	0.07	0.01	46
1	61	20.80								2.0	0.15	0.2	0.00	0.08	0.01	61
1	76	19.93								2.0	0.16	0.2	0.00	0.09	0.03	77
1	90	19.60								2.0	0.16	0.2	0.00	0.10	0.05	91
1	105	19.21								2.0	0.16	0.2	0.00	0.11	0.14	106
1	120	18.91								2.0	0.16	0.2	0.08	0.16	0.18	121
1	134	18.68								2.0	0.17	0.4	0.20	0.12	0.15	135
1	150	18.17								3.0	0.19	0.8	0.25	0.07	0.11	151
1	200	16.49								5.0	0.27	2.3	0.02	0.01	0.02	202
1	251	14.05								8.0	0.51	6.6	0.02			253
1	305	12.42								11.0	0.67	9.1	0.03			307

RV THOMAS WASHINGTON TASADAY EXPEDITION LEG I STATION 75

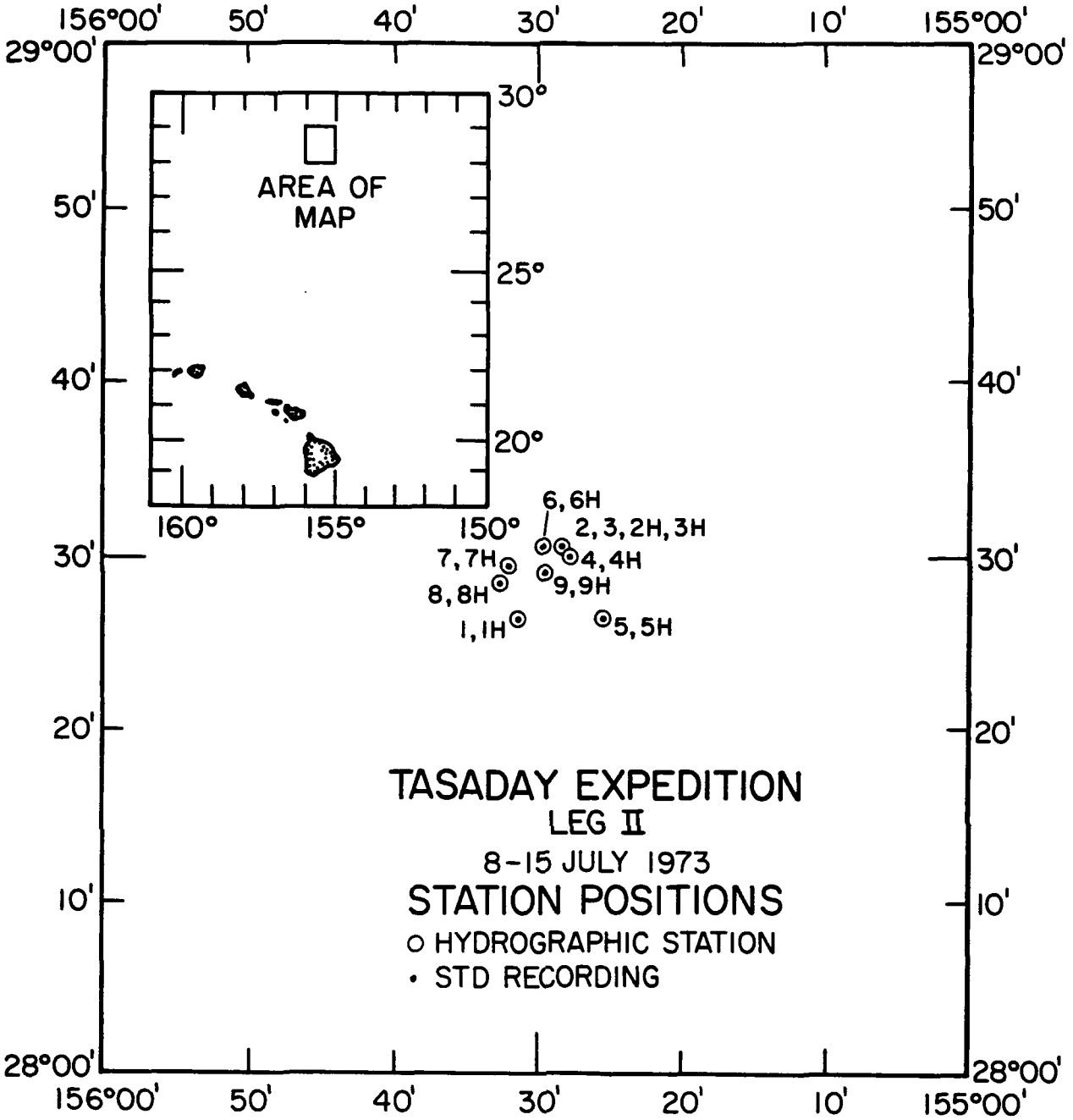
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT TYPE
28 22.0 N	154 39.5 W	29/06/73	0847 GMT									

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	23.76								1.0	0.14	0.1	0.00	0.05	0.01	0
1	15	23.76								1.0	0.14	0.1	0.00	0.04	0.01	15
1	30	23.47								2.0	0.14	0.1	0.01	0.05	0.02	30
1	45	21.68								2.0	0.13	0.2	0.00	0.06	0.01	45
1	60	21.44								2.0	0.12	0.2	0.00	0.07	0.02	60
1	75	20.95								2.0	0.14	0.2	0.00	0.08	0.02	76
1	90	20.23								2.0	0.13	0.2	0.00	0.08	0.02	91
1	105	19.61								2.0	0.14	0.2	0.00	0.09	0.06	106
1	120	19.23								2.0	0.15	0.1	0.01	0.11	0.16	121
1	135	18.69								3.0	0.17	0.2	0.18	0.13	0.15	136
1	150	18.39								3.0	0.20	1.0	0.09	0.08	0.10	151
1	199	16.92								4.0	0.27	2.1	0.04	0.02	0.02	201
1	251	14.53								7.0	0.50	5.7	0.01			253
1	301	12.54								11.0	0.71	8.9	0.03			303

RV THOMAS WASHINGTON TASADAY EXPEDITION LEG I STATION 76

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT TYPE
28 18.0 N	154 37.0 W	29/06/73	1142 GMT									

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	23.72	23.72	35.479	24.089	381.6	0.000	5.12	106.3							0
1	25	23.53	23.52	35.475	24.143	377.5	0.095	5.26	108.8							25
1	49	21.45	21.44	35.397	24.677	327.6	0.180	5.67	113.0							49
1	74	20.29	20.28	35.284	24.906	306.7	0.259	5.35	104.3							74
1	99	19.51	19.49				0.334									99
1	123	18.84	18.82	35.178	25.205	280.0	0.402	5.33	101.0							123
1	148	18.26	18.23	35.097	25.289	272.7	0.471	5.22	97.8							149
1	197			34.841			0.600	5.24	94.8							198
1	247	14.46	14.42	34.523	25.729	233.0	0.722	4.90	84.9							248
1	297	12.45	12.41	34.333	25.993	208.4	0.832	5.04	83.7							298
1	346	11.32	11.28	34.279	26.164	192.7	0.930	5.06	82.0							348
1	396	10.35	10.30	34.218	26.290	181.3	1.024	4.84	76.7							398
1	493	8.24	8.19	34.069	26.515	160.0	1.189	4.20	63.5							496
1	691	4.78	4.73	34.059	26.960	116.1	1.463	1.57	21.9							695
1	887	4.00	3.93	34.289	27.227	91.6	1.666	0.40	5.5							893
1	1084	3.53	3.45	34.431	27.389	77.1	1.833	0.60	8.1							1092
1	1281	3.11	3.02	34.503	27.487	68.3	1.976	0.96	12.9							1292
1	1478	2.73	2.63	34.547	27.557	61.8	2.104	1.24	16.4							1491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8,8H
9,9H
1,1H
5,5H
TASADAY EXPEDITION
LEG II
8-15 JULY 1973
STATION POSITIONS
○ HYDROGRAPHIC STATION
• STD RECORDING

TASADAY EXPEDITION LEG II

STATION POSITIONS

Station Number	Date 1973	Time GMT	Position Latitude N	Position Longitude W	Type of Data*
1	July 8	1737	28° 26.5	155° 31.5	S
1	July 8	1758	28° 26.5	155° 31.5	H C
2	July 9	1904	28° 30.5	155° 28.0	S
2	July 9	1920	28° 30.5	155° 28.0	H C
3	July 10	1828	28° 30.5	155° 28.0	S
3	July 10	1900	28° 30.5	155° 28.0	H C
4	July 11	1743	28° 30.0	155° 27.5	S
4	July 11	1806	28° 30.0	155° 27.5	H C
5	July 13	0138	28° 26.5	155° 25.5	S
5	July 13	0208	28° 26.5	155° 25.5	H C
6	July 13	1756	28° 30.5	155° 29.5	S
6	July 13	1820	28° 30.5	155° 29.5	H C
7	July 14	0047	28° 29.5	155° 32.0	S
7	July 14	0118	28° 29.5	155° 32.0	H C
8	July 14	2031	28° 28.5	155° 32.5	S
8	July 14	2056	28° 28.5	155° 32.5	H C
9	July 15	2305	28° 29.0	155° 29.5	S
9	July 15	2340	28° 29.0	155° 29.5	H C

*S Salinity/Temperature/Depth Recorder
H Hydrographic
C Chlorophyll

PERSONNEL

TASADAY EXPEDITION, LEG II

SHIP'S CAPTAIN

Newbegin, Robert C.

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

Jumars, Peter	Chief Scientist, SIO
Azam, Farooq	Research Associate, SIO
Bernstein, Brock	Graduate Student, SIO
Burnett, Brian	Graduate Student, SIO
Ekdale, Tony	Graduate Student, Texas A&M
Gunnill, R.	Graduate Student, SIO
Keith, Warren E.	Resident Technician, SIO
McMillan, K.	Graduate Student, Texas A&M
Moe, Ronald L.	Computer Technician, SIO
Perry, M.J.	Graduate Student, SIO
Shulenberger, Eric	Graduate Student, SIO
Siebenaller, Joseph	SIO
Smith, James F.	Graduate Student, SIO
Thistle, David	Graduate Student, SIO
Van Blaricon, G.	Graduate Student, SIO
Venrick, Elizabeth L.	Assistant Research Biologist, SIO
Wells, James A.	Marine Technician, SIO
Witherow, Sharon L.	Laboratory Assistant, SIO

STD 1 RV THOMAS WASHINGTON TASADAY EXPEDITION LEG II

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 26.5 N	155 31.5 W	08/07/73	1737 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.82	23.82	35.42	24.014	388.7	0.000	0
10	23.82	23.82	35.42	24.015	389.1	0.039	10
20	23.82	23.82	35.42	24.016	389.4	0.078	20
30	23.82	23.81	35.42	24.016	389.8	0.117	30
50	22.72	22.71	35.32	24.261	367.3	0.192	50
75	20.82	20.81	35.25	24.738	322.7	0.279	76
100	19.56	19.54	35.12	24.975	301.1	0.357	101
125	18.95	18.93	35.07	25.094	290.6	0.431	126
150	18.28	18.25	35.01	25.218	279.6	0.502	151
200	16.89	16.86	34.77	25.373	266.3	0.638	201
250	15.19	15.15	34.52	25.569	248.6	0.767	252
300	13.00	12.96	34.29	25.852	222.2	0.885	302

STD 2

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 30.5 N	155 28.0 W	09/07/73	1904 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.95	23.95	35.40	23.961	393.8	0.000	0
10	23.95	23.95	35.40	23.961	394.2	0.039	10
20	23.94	23.94	35.40	23.965	394.3	0.079	20
30	23.94	23.93	35.40	23.966	394.7	0.118	30
50	21.70	21.69	35.26	24.503	344.2	0.192	50
75	20.31	20.30	35.17	24.814	315.4	0.275	76
100	19.69	19.67	35.19	24.994	299.2	0.351	101
125	18.90	18.88	35.13	25.153	285.0	0.424	126
150	17.99	17.96	34.97	25.255	275.6	0.495	151
200	16.48	16.45	34.71	25.422	261.4	0.629	201
250	13.84	13.80	34.38	25.749	230.9	0.752	252
300	12.46	12.42	34.25	25.927	214.7	0.863	302

STD 3 RV THOMAS WASHINGTON TASADAY EXPEDITION LEG II

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 30.5 N	155 28.0 W	10/07/73	1828 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	23.99	23.99	35.38	23.934	396.4	0.000	0
10	23.98	23.98	35.38	23.937	396.5	0.040	10
20	23.98	23.98	35.38	23.938	396.8	0.079	20
30	23.99	23.98	35.38	23.936	397.5	0.119	30
50	21.85	21.84	35.26	24.462	348.1	0.194	50
75	19.98	19.97	35.16	24.894	307.8	0.276	76
100	19.42	19.40	35.17	25.049	294.0	0.351	101
125	18.88	18.86	35.12	25.150	285.2	0.423	126
150	17.98	17.95	34.97	25.261	275.4	0.493	151
200	15.94	15.91	34.64	25.492	254.6	0.626	201
250	14.05	14.01	34.42	25.737	232.2	0.747	252
300	12.52	12.48	34.28	25.938	213.7	0.859	302

STD 4

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 30.0 N	155 27.5 W	11/07/73	1743 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	24.12	24.12	35.31	23.842	405.1	0.000	0
10	24.12	24.12	35.32	23.850	404.8	0.040	10
20	24.12	24.12	35.32	23.851	405.1	0.081	20
30	24.12	24.11	35.32	23.852	405.5	0.122	30
50	21.12	21.11	35.08	24.526	341.9	0.196	50
75	19.65	19.64	35.10	24.935	303.9	0.277	76
100	18.92	18.90	35.06	25.093	289.7	0.351	101
125	18.40	18.38	35.02	25.195	280.9	0.423	126
150	17.45	17.42	34.87	25.314	270.3	0.491	151
200	16.08	16.05	34.67	25.484	255.4	0.623	201
250	13.91	13.87	34.38	25.735	232.3	0.745	252
300	12.42	12.38	34.26	25.942	213.3	0.856	302

STD 5 RV THOMAS WASHINGTON TASADAY EXPEDITION LEG II

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 26.5 N	155 25.5 W	13/07/73	0138 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	24.48	24.48	35.32	23.742	414.6	0.000	0
10	24.38	24.38	35.32	23.773	412.2	0.041	10
20	24.26	24.26	35.32	23.809	409.1	0.082	20
30	34.20	34.19	35.33	20.482	728.3	0.139	30
50	21.98	21.97	35.23	24.402	353.8	0.247	50
75	20.10	20.09	35.13	24.839	313.0	0.331	76
100	19.18	19.16	35.11	25.065	292.4	0.407	101
125	18.32	18.30	35.01	25.207	279.7	0.478	126
150	17.54	17.51	34.90	25.315	270.2	0.547	151
200	16.11	16.08	34.67	25.477	256.1	0.678	201
250	14.19	14.15	34.41	25.699	235.7	0.801	252
300	12.51	12.47	34.29	25.948	212.8	0.913	302

STD 6

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 30.5 N	155 29.5 W	13/07/73	1756 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	24.27	24.27	35.32	23.805	408.6	0.000	0
10	24.27	24.27	35.32	23.806	409.0	0.041	10
20	24.27	24.27	35.32	23.806	409.4	0.082	20
30	24.14	24.13	35.32	23.846	406.1	0.123	30
50	21.20	21.19	35.17	24.573	337.5	0.197	50
75	19.65	19.64	35.09	24.927	304.7	0.277	76
100	18.82	18.80	35.05	25.111	288.0	0.351	101
125	18.18	18.16	34.98	25.219	278.6	0.422	126
150	17.08	17.06	34.82	25.364	265.4	0.490	151
200	15.86	15.83	34.65	25.518	252.1	0.619	201
250	14.31	14.27	34.45	25.705	235.3	0.741	252
300	12.76	12.72	34.29	25.899	217.5	0.855	302

STD 7 RV THOMAS WASHINGTON TASADAY EXPEDITION LEG II

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 29.5 N	155 32.0 W	14/07/73	0047 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	24.38	24.38	35.32	23.772	411.8	0.000	0
10	24.34	24.34	35.32	23.785	411.0	0.041	10
20	24.31	24.31	35.32	23.794	410.6	0.082	20
30	24.10	24.09	35.29	23.835	407.1	0.123	30
50	21.78	21.77	35.25	24.474	347.0	0.199	50
75	19.80	19.79	35.14	24.926	304.8	0.280	76
100	18.59	18.57	35.00	25.130	286.1	0.354	101
125	17.59	17.57	34.89	25.294	271.3	0.424	126
150	16.85	16.83	34.78	25.388	263.1	0.490	151
200	15.46	15.43	34.59	25.562	247.8	0.618	201
250	13.93	13.89	34.42	25.762	229.7	0.737	252
300	12.54	12.50	34.28	25.934	214.1	0.848	302

STD 8

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 28.5 N	155 32.5 W	14/07/73	2031 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	24.36	24.36	35.33	23.786	410.5	0.000	0
10	24.29	24.29	35.33	23.807	408.9	0.041	10
20	24.26	24.26	35.33	23.817	408.4	0.082	20
30	24.04	24.03	35.34	23.891	401.8	0.122	30
50	21.11	21.10	35.17	24.597	335.2	0.196	50
75	19.82	19.81	35.10	24.890	308.2	0.276	76
100	19.00	18.98	35.04	25.057	293.1	0.352	101
125	18.09	18.07	34.95	25.218	278.6	0.423	126
150	17.01	16.99	34.81	25.373	264.5	0.491	151
200	15.67	15.64	34.61	25.530	250.9	0.620	201
250	13.96	13.92	34.42	25.755	230.4	0.740	252
300	12.63	12.59	34.29	25.925	215.0	0.851	302

STD 9 RV THOMAS WASHINGTON TASADAY EXPEDITION LEG II

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 29.0 N	155 29.5 W	15/07/73	2305 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	24.16	24.16	35.34	23.853	404.1	0.000	0
10	24.06	24.06	35.33	23.876	402.3	0.040	10
20	23.94	23.94	35.32	23.904	400.1	0.080	20
30	23.69	23.68	35.31	23.971	394.1	0.120	30
50	21.25	21.24	35.13	24.529	341.7	0.194	50
75	19.40	19.39	35.08	24.984	299.2	0.274	76
100	18.37	18.35	34.97	25.163	283.0	0.347	101
125	17.74	17.72	34.92	25.281	272.6	0.416	126
150	17.15	17.12	34.85	25.370	264.8	0.483	151
200	15.86	15.83	34.62	25.495	254.3	0.613	201
250	13.92	13.88	34.40	25.748	231.0	0.734	252
300	12.72	12.68	34.32	25.930	214.6	0.846	302

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG II — STATION 1

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 26.5 N	155 31.5 W	08/07/73	1758 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	23.80												0.04	0.01	0
1	15													0.05	0.01	15
1	30	23.79												0.05	0.01	30
1	45													0.06	0.01	45
1	60	21.70												0.07	0.02	60
1	75													0.08	0.02	76
1	91	20.16												0.09	0.05	92
1	106													0.11	0.10	107
1	116	19.30												0.15	0.17	117
1	121	19.18												0.16	0.17	122
1	126	19.09												0.13	0.17	127
1	131	18.94												0.13	0.18	132
1	136	18.84												0.11	0.15	137
1	141	18.71												0.09	0.14	142
1	151	18.48												0.06	0.12	152
1	180													0.04	0.06	181
1	199													0.03	0.04	201
1	297	12.97												0.00	0.01	299

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG II — STATION 2

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 30.5 N	155 28.0 W	09/07/73	1920 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	23.97												0.05	0.01	0
1	15													0.05	0.02	15
1	30	23.94												0.04	0.01	30
1	45													0.06	0.02	45
1	60	21.46												0.07	0.02	60
1	75													0.07	0.02	76
1	91	20.04												0.08	0.04	92
1	106													0.09	0.08	107
1	116	19.42												0.12	0.15	117
1	120	19.24												0.14	0.17	121
1	125	19.00												0.11	0.19	126
1	129	18.95												0.10	0.21	130
1	134	18.84												0.10	0.17	135
1	138	18.75												0.10	0.17	139
1	149	18.27												0.07	0.11	150
1	173													0.03	0.05	174
1	198													0.01	0.02	199
1	299	12.47												0.00	0.01	301

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG II — STATION 3

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 30.5 N	155 28.0 W	10/07/73	1900 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	23.97												0.04	0.02	0
1	15													0.04	0.01	15
1	30	23.95												0.04	0.01	30
1	45													0.06	0.01	45
1	60	21.14												0.05	0.02	60
1	75													0.06	0.03	76
1	90	19.55												0.08	0.06	91
1	105													0.08	0.12	106
1	114	19.20												0.12	0.14	115
1	119	19.12												0.14	0.16	120
1	124	18.95												0.15	0.16	125
1	129	18.80												0.12	0.18	130
2	134	18.57												0.10	0.13	135
2	138	18.44												0.09	0.12	139
2	148	18.09												0.08	0.11	149
2	174													0.03	0.05	175
2	199													0.01	0.02	201
2	299	12.50												0.00	0.01	301

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG II — STATION 4

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 30.0 N	155 27.5 W	11/07/73	1806 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	24.12														0
1	15													0.04	0.01	15
1	29	24.11												0.04	0.01	29
1	45													0.05	0.01	45
1	60	20.71												0.06	0.02	60
1	75													0.07	0.02	76
1	91	19.32												0.08	0.05	92
1	105													0.21	0.22	106
1	115	18.68												0.15	0.18	116
1	120	18.59												0.18	0.20	121
1	125	18.52												0.13	0.18	126
1	129	18.33												0.10	0.14	130
1	134	18.13												0.10	0.13	135
1	139	17.89												0.07	0.12	140
1	149	17.56												0.06	0.07	150
1	174													0.03	0.04	175
1	199													0.01	0.02	201
1	299	12.42												0.00	0.01	301

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG II — STATION 5

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 26.5 N	155 25.5 W	13/07/73	0208 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	24.41												0.03	0.01	0
1	15													0.03	0.01	15
1	30	24.18												0.04	0.01	30
1	45													0.05	0.01	45
1	60	21.09												0.04	0.01	60
1	75													0.05	0.01	76
1	90	19.18												0.10	0.12	91
1	105													0.20	0.17	106
1	115	18.69												0.23	0.17	116
1	119	18.36												0.14	0.13	120
1	124	18.14												0.12	0.12	125
1	129	17.95												0.11	0.10	130
1	133	17.80												0.09	0.09	134
1	139	17.67												0.09	0.09	140
1	149	17.31												0.05	0.06	150
1	174													0.03	0.03	175
1	198	15.88												0.01	0.02	199
1	299	12.49												0.00	0.01	301

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG II — STATION 6

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 30.5 N	155 29.5 W	13/07/73	1820 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	24.27												0.04	0.01	0
1	15													0.04	0.01	15
1	29	24.08												0.06	0.02	29
1	45													0.05	0.01	45
1	60	20.56												0.05	0.02	60
1	75													0.07	0.03	76
1	90	19.20												0.10	0.06	91
1	105													0.20	0.16	106
1	110	18.65												0.19	0.17	111
1	115	18.53												0.18	0.20	116
1	120	18.26												0.18	0.15	121
1	125	18.12												0.22	0.07	126
1	130	17.90												0.12	0.12	131
1	135	17.65												0.10	0.11	136
1	140	17.54												0.09	0.10	141
1	150													0.08	0.10	151
1	174													0.05	0.06	175
1	199	15.92												0.02	0.04	201

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG II — STATION 7

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 29.5 N	155 32.0 W	14/07/73	0118 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	24.28												0.03	0.01	0
1	15	24.33												0.03	0.01	15
1	30	24.11												0.03	0.01	30
1	45													0.03	0.02	45
1	61	21.02												0.04	0.01	61
1	76													0.06	0.01	77
1	91	18.89												0.09	0.05	92
1	106													0.14	0.13	107
1	112	18.09												0.09	0.09	113
1	117	17.85												0.09	0.08	118
1	122	17.68												0.08	0.09	123
1	127	17.49												0.08	0.09	128
1	132	17.33												0.10	0.09	133
1	137	17.26												0.08	0.08	138
1	142	17.08												0.07	0.06	143
1	152													0.05	0.04	153
1	177													0.02	0.02	178
1	203	15.29												0.01	0.01	205

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG II — STATION 8

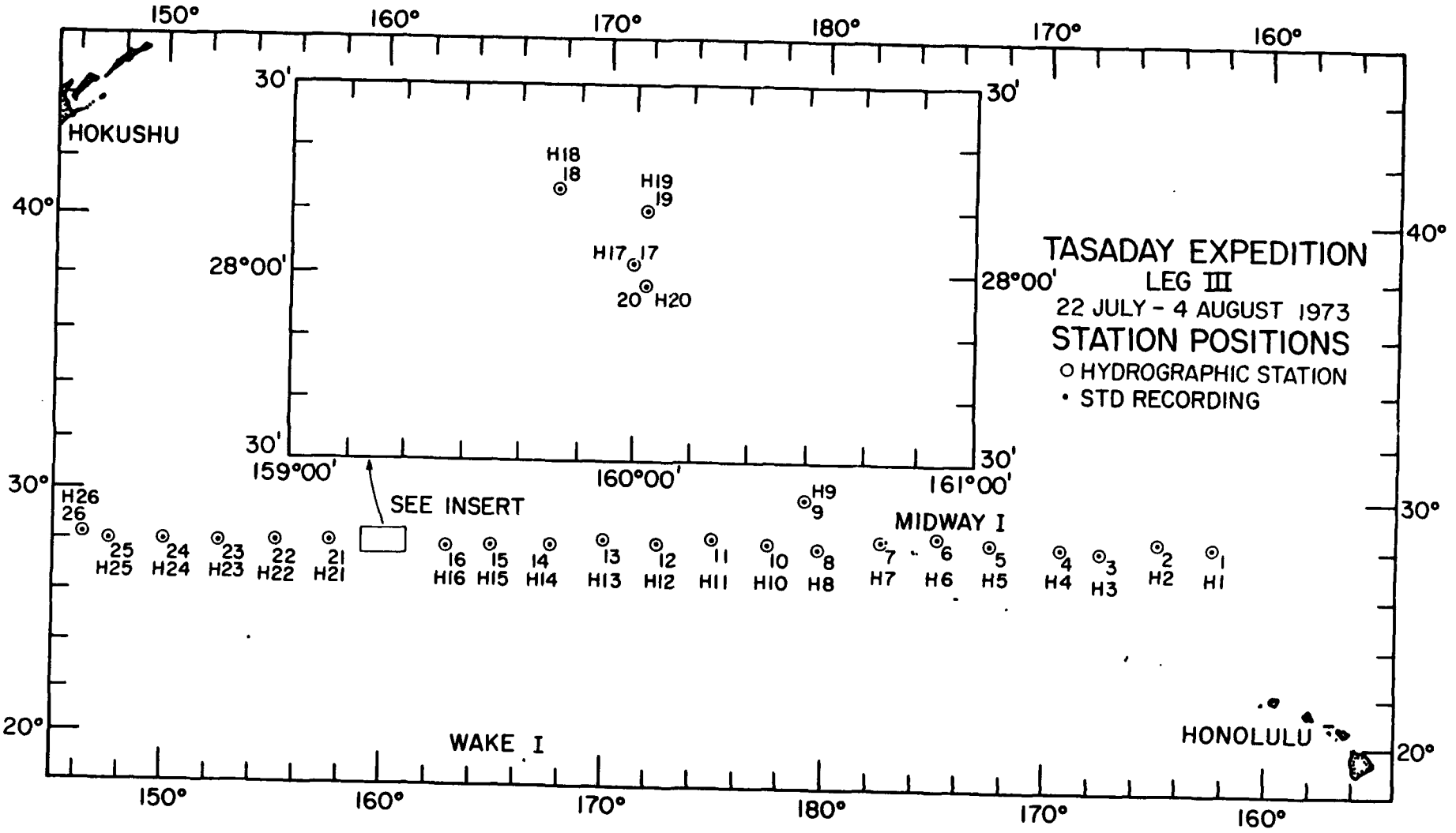
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 28.5 N	155 32.5 W	14/07/73	2056 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	24.33												0.04	0.00	0
1	15	24.27												0.04	0.01	15
1	30	24.06												0.05	0.01	30
1	45													0.07	0.03	45
1	61	20.50												0.05	0.02	61
1	77													0.08	0.03	78
1	91	19.34												0.09	0.07	92
1	98													0.09	0.08	99
1	102	18.99												0.12	0.13	103
1	107	18.82												0.16	0.17	108
1	112	18.62												0.15	0.17	113
1	116	18.39												0.14	0.19	117
1	120	18.14												0.12	0.13	121
1	130	17.91												0.09	0.09	131
1	139	17.59												0.07	0.08	140
1	149													0.03	0.03	150
1	174													0.01	0.02	175
1	198	15.67														199

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG II — STATION 9

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 29.0 N	155 29.5 W	15/07/73	2340 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	24.40												0.05	0.03	0
1	15	24.09												0.06	0.03	15
1	30	23.71												0.08	0.05	30
1	45													0.10	0.05	45
1	60	20.75												0.07	0.02	60
1	75													0.10	0.04	76
1	90	18.69												0.12	0.08	91
1	95													0.12	0.09	96
1	100	18.49												0.13	0.11	101
1	105	18.38												0.14	0.15	106
1	110	18.24												0.14	0.09	111
1	115	18.11												0.14	0.15	116
1	120	17.92												0.10	0.09	121
1	131	17.69												0.07	0.10	132
1	141	17.48												0.06	0.10	142
1	151													0.07	0.09	152
1	176													0.04	0.05	177
1	201	15.90												0.03	0.04	203


TASADAY EXPEDITION
LEG III
22 JULY - 4 AUGUST 1973
STATION POSITIONS
O HYDROGRAPHIC STATION
• STD RECORDING
HOKUSHU
MIDWAY I
WAKE I
HONOLULU
SEE INSERT
150°
160°
170°
180°
170°
160°
40°
30°
20°
30'
28°00'
159°00'
160°00'
161°00'
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H1

TASADAY EXPEDITION LEG III

STATION POSITIONS

Station Number	Date 1973	Time GMT	Position Latitude	Position Longitude	Type of Data*
1	July 22	1907	28° 00.5N	162° 30.5W	S
1	July 22	1935	28° 00.5	162° 30.5	H C
2	July 23	0626	28° 03.0	164° 56.0	S
2	July 23	0653	28° 03.0	164° 56.0	H C
3	July 23	1927	27° 58.5	167° 34.0	S
3	July 23	1955	27° 58.5	167° 34.0	H C
4	July 24	0652	27° 59.5	169° 28.5	S
4	July 24	0712	27° 59.5	169° 28.5	H C
5	July 24	1921	28° 01.0	172° 31.5	S
5	July 24	1946	28° 01.0	172° 31.5	H C
6	July 25	0724	28° 04.0	174° 57.0	S
6	July 25	0749	28° 04.0	174° 57.0	H C
7	July 25	1927	28° 02.0	177° 28.5	S
7	July 25	1952	28° 02.0	177° 28.5	H C
8	July 26	1457	27° 58.0	179° 43.0E	S
8	July 26	1525	27° 58.0	179° 43.0	H C
9	July 27	0718	29° 50.0	179° 03.5	S
9	July 27	0742	29° 50.0	179° 03.5	H C
10	July 27	2226	28° 00.0	177° 30.0	S
10	July 27	2247	28° 00.0	177° 30.0	H C
11	July 28	0942	28° 02.0	174° 59.5	S
11	July 28	1005	28° 02.0	174° 59.5	H C
12	July 28	2235	28° 00.5	172° 29.0	S
12	July 28	2302	28° 00.5	172° 29.0	H C
13	July 29	1252	28° 01.5	169° 59.5	S
13	July 29	1322	28° 01.5	169° 59.5	H C
14	July 30	0824	28° 00.0	167° 31.5	S
14	July 30	0847	28° 00.0	167° 31.5	H C
15	July 30	2052	27° 59.0	164° 57.5	S
15	July 30	2116	27° 59.0	164° 57.5	H C
16	July 31	0828	27° 58.5	162° 28.0	S
16	July 31	0852	27° 58.5	162° 28.0	H C
17	July 31	2313	28° 01.5	160° 00.0	S
17	July 31	2338	28° 01.5	160° 00.0	H C
18	August 1	0314	28° 13.0	159° 53.0	S
18	August 1	0338	28° 13.0	159° 53.0	H C

*S Salinity/Temperature/Depth Recorder
H Hydrographic
C Chlorophyll

Station Number	Date 1973	Time GMT	Position Latitude	Position Longitude	Type of Data*
19	August 1	0747	28° 10.0N	160° 01.0E	S
19	August 1	0818	28° 10.0	160° 01.0	H C
20	August 1	1547	27° 58.0	160° 01.0	S
20	August 1	1612	27° 58.0	160° 01.0	H C
21	August 2	0556	28° 00.0	157° 29.5	S
21	August 2	0617	28° 00.0	157° 29.5	H C
22	August 2	1706	27° 59.5	155° 01.0	S
22	August 2	1731	27° 59.5	155° 01.0	H C
23	August 3	0553	28° 00.0	152° 31.5	S
23	August 3	0620	28° 00.0	152° 31.5	H C
24	August 3	1723	28° 00.0	150° 00.0	S
24	August 3	1749	28° 00.0	150° 00.0	H C
25	August 4	0551	28° 00.0	147° 32.0	S
25	August 4	0616	28° 00.0	147° 32.0	H C
26	August 4	1324	28° 03.5	146° 16.0	S
26	August 4	1349	28° 03.5	146° 16.0	H C

PERSONNEL

TASADAY EXPEDITION, LEG III

SHIP'S CAPTAIN

Newbegin, Robert C.

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

Shulenberger, Eric	Chief Scientist, SIO
Bailey, T.	Graduate Student, SIO
Barth, Michael A.	Air Gun Technician, SIO
Burgener, Bruce C.	Staff Research Associate, SIO
Castile, B.	Graduate Student, SIO
Clague, D.	Graduate Student, SIO
Deysher, L.	Graduate Student, SIO
Gist, C.	Volunteer, SIO
Graham, Jery B.	Electronics Technician, SIO
Green, D.	Graduate Student, University of Ottawa
Hubenka, Frank	Air Gun Technician, SIO
Keith, Warren E.	Resident Technician, SIO
Wells, James A.	Marine Technician, SIO
Witherow, Sharon L.	Laboratory Assistant, SIO

STD 1 RV THOMAS WASHINGTON TASADAY EXPEDITION LEG III STD 2

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 00.5 N	162 30.5 W	22/07/73	1907 GMT	5541 M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	25.15	25.15	35.44	23.630	425.3	0.000	0
10	25.15	25.15	35.45	23.638	425.0	0.043	10
20	25.15	25.15	35.45	23.639	425.4	0.085	20
30	24.99	24.98	35.42	23.666	423.3	0.127	30
50	23.06	23.05	35.35	24.186	374.5	0.207	50
75	21.48	21.47	35.28	24.581	337.8	0.296	76
100	20.38	20.36	35.24	24.850	313.0	0.378	101
125	19.70	19.68	35.23	25.023	297.5	0.454	126
150	19.01	18.98	35.16	25.149	286.3	0.527	151
200	17.64	17.61	34.97	25.347	269.0	0.666	201
250	15.71	15.67	34.68	25.577	248.1	0.795	252
300	13.62	13.58	34.46	25.858	221.9	0.913	302
400	11.17	11.12	34.25	26.170	193.3	1.120	403
500	8.72	8.67	34.10	26.466	165.2	1.299	504

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 03.0 N	164 56.0 W	23/07/73	0626 GMT	4916 M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	25.57	25.57	35.47	23.523	435.5	0.000	0
10	25.54	25.54	35.48	23.541	434.3	0.043	10
20	25.38	25.38	35.48	23.591	430.0	0.087	20
30	24.62	24.61	35.42	23.778	412.6	0.129	30
50	22.00	21.99	35.30	24.450	349.2	0.205	50
75	20.55	20.54	35.27	24.826	314.3	0.288	76
100	19.73	19.71	35.24	25.022	296.6	0.364	101
125	19.23	19.21	35.20	25.122	288.0	0.437	126
150	18.67	18.64	35.13	25.212	280.2	0.508	151
200	17.44	17.41	34.95	25.380	265.8	0.645	201
250	16.07	16.03	34.76	25.557	250.2	0.774	252
300	14.13	14.09	34.52	25.799	227.8	0.893	302
400	11.29	11.24	34.27	26.164	194.0	1.104	403
500	8.98	8.93	34.12	26.441	167.9	1.285	504

STD 3 RV THOMAS WASHINGTON TASADAY EXPEDITION LEG III STD 4

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
27 58.5 N	167 34.0 W	23/07/73	1927 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	25.60	25.60	35.50	23.537	434.2	0.000	0
10	25.60	25.60	35.50	23.538	434.6	0.043	10
20	25.60	25.60	35.50	23.538	435.0	0.087	20
30	24.80	24.79	35.46	23.753	414.9	0.129	30
50	22.45	22.44	35.30	24.323	361.4	0.207	50
75	20.62	20.61	35.24	24.785	318.3	0.292	75
100	19.53	19.51	35.17	25.021	296.7	0.369	101
125	18.87	18.85	35.12	25.153	285.0	0.442	126
150	18.52	18.49	35.08	25.212	280.2	0.512	151
200	16.71	16.68	34.76	25.407	262.9	0.648	201
250	15.12	15.08	34.64	25.677	238.3	0.773	252
300	13.91	13.87	34.53	25.852	222.6	0.889	302
400	11.73	11.68	34.31	26.114	199.1	1.099	403
500	9.27	9.21	34.16	26.426	169.6	1.284	504

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
27 59.5 N	169 28.5 W	24/07/73	0652 GMT	4540 M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	25.65	25.65	35.51	23.529	435.0	0.000	0
10	25.65	25.65	35.52	23.537	434.7	0.043	10
20	25.65	25.65	35.52	23.538	435.1	0.087	20
30	25.65	25.64	35.51	23.531	436.2	0.131	30
50	22.27	22.26	35.31	24.382	355.8	0.210	50
75	20.93	20.92	35.26	24.716	324.9	0.295	75
100	20.16	20.14	35.23	24.901	308.2	0.374	101
125	19.59	19.57	35.20	25.029	296.9	0.450	126
150	19.06	19.03	35.17	25.144	286.8	0.523	151
200	18.37	18.33	35.09	25.259	277.6	0.664	201
250	16.91	16.87	34.87	25.446	261.0	0.798	252
300	15.46	15.41	34.69	25.642	243.4	0.924	302
400	12.70	12.65	34.40	25.999	210.8	1.152	403
500	9.96	9.90	34.20	26.344	178.1	1.346	504

STD 5 RV THOMAS WASHINGTON TASADAY EXPEDITION LEG III STD 6

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 01.0 N	172 31.5 W	24/07/73	1921 GMT	5007 M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	26.53	26.53	35.48	23.231	463.4	0.000	0
10	26.54	26.54	35.48	23.229	464.1	0.046	10
20	26.54	26.54	35.49	23.237	463.8	0.093	20
30	26.54	26.53	35.49	23.237	464.2	0.139	30
50	22.96	22.95	35.24	24.132	379.6	0.224	50
75	20.64	20.63	35.13	24.695	326.8	0.312	76
100	18.93	18.91	35.06	25.090	289.9	0.389	101
125	17.85	17.83	34.93	25.262	274.4	0.460	126
150	17.05	17.03	34.85	25.394	262.5	0.527	151
200	15.69	15.66	34.68	25.580	246.2	0.654	201
250	14.24	14.20	34.54	25.790	227.3	0.772	252
300	13.39	13.35	34.47	25.913	216.6	0.883	302
400	11.15	11.10	34.29	26.205	190.0	1.086	403
500	8.76	8.71	34.12	26.476	164.4	1.264	504

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 04.0 N	174 57.0 W	25/07/73	0724 GMT	5607 M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	26.28	26.28	35.49	23.317	455.2	0.000	0
10	26.28	26.28	35.50	23.326	454.9	0.046	10
20	26.29	26.29	35.50	23.323	455.6	0.091	20
30	26.29	26.28	35.50	23.324	456.0	0.137	30
50	23.47	23.46	35.33	24.052	387.3	0.221	50
75	21.34	21.33	35.21	24.566	339.2	0.312	76
100	19.68	19.66	35.07	24.905	307.7	0.393	101
125	19.15	19.13	35.05	25.028	296.9	0.468	126
150	18.44	18.41	34.99	25.163	284.9	0.541	151
200	17.10	17.07	34.85	25.384	265.3	0.678	201
250	15.96	15.92	34.73	25.559	249.9	0.807	252
300	14.35	14.31	34.56	25.783	229.4	0.927	302
400	11.86	11.81	34.35	26.121	198.6	1.141	403
500	9.58	9.52	34.19	26.400	172.5	1.327	504

STD 7 RV THOMAS WASHINGTON TASADAY EXPEDITION LEG III STD 8

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 02.0 N	177 28.5 W	25/07/73	1927 GMT	3692 M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	26.69	26.69	35.36	23.090	476.9	0.000	0
10	26.69	26.69	35.36	23.090	477.3	0.048	10
20	26.69	26.69	35.36	23.091	477.7	0.095	20
30	26.67	26.66	35.35	23.091	478.2	0.143	30
50	22.29	22.28	35.06	24.186	374.4	0.229	50
75	19.57	19.56	35.00	24.879	309.2	0.314	76
100	18.42	18.40	34.99	25.166	282.7	0.388	101
125	17.32	17.30	34.86	25.336	267.2	0.457	126
150	16.21	16.19	34.74	25.506	251.7	0.522	151
200	14.91	14.88	34.62	25.706	233.9	0.643	201
250	14.00	13.96	34.53	25.832	223.1	0.757	252
300	12.82	12.78	34.42	25.988	209.2	0.865	302
400	10.22	10.17	34.23	26.322	178.3	1.059	403
500	8.55	8.50	34.14	26.524	159.7	1.228	504

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
27 58.0 N	179 43.0 E	26/07/73	1457 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	27.03	27.03	35.45	23.049	480.8	0.000	0
10	27.03	27.03	35.45	23.050	481.2	0.048	10
20	27.03	27.03	35.45	23.051	481.6	0.096	20
30	27.03	27.02	35.45	23.052	482.0	0.144	30
50	24.91	24.90	35.30	23.600	430.4	0.236	50
75	22.96	22.94	35.28	24.164	377.7	0.337	75
100	21.03	21.01	35.17	24.622	334.9	0.426	101
125	19.88	19.86	35.09	24.869	312.1	0.507	126
150	18.72	18.69	34.97	25.077	293.1	0.582	151
200	16.97	16.94	34.82	25.392	264.5	0.722	201
250	15.65	15.61	34.68	25.590	246.8	0.849	252
300	14.34	14.30	34.56	25.785	229.2	0.968	302
400	12.18	12.13	34.34	26.053	205.3	1.186	403
500	9.78	9.72	34.19	26.367	175.8	1.376	504

STD 9 RV THOMAS WASHINGTON TASADAY EXPEDITION LEG III STD 10

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
29 50.0 N	179 03.5 E	27/07/73	0718 GMT	1045 M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	27.12	27.12	35.42	22.998	485.7	0.000	0
10	27.12	27.12	35.43	23.006	485.4	0.049	10
20	27.12	27.12	35.43	23.007	485.8	0.097	20
30	26.85	26.84	35.38	23.056	481.5	0.145	30
50	22.41	22.40	35.24	24.289	364.6	0.230	50
75	19.71	19.70	34.89	24.759	320.7	0.316	76
100	17.88	17.86	34.80	25.154	283.8	0.391	101
125	16.71	16.69	34.74	25.389	262.1	0.460	126
150	16.17	16.15	34.70	25.484	253.8	0.524	151
200	15.36	15.33	34.63	25.615	242.8	0.648	201
250	14.37	14.33	34.56	25.777	228.5	0.766	252
300	13.36	13.32	34.49	25.934	214.6	0.877	302
400	11.69	11.64	34.35	26.153	195.4	1.082	403
500	9.20	9.14	34.17	26.446	167.7	1.263	504

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 00.0 N	177 30.0 E	27/07/73	2226 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	26.88	26.88	35.24	22.939	491.3	0.000	0
10	26.87	26.87	35.24	22.943	491.4	0.049	10
20	26.87	26.87	35.25	22.951	491.1	0.098	20
30	22.45	22.44	34.90	24.018	389.6	0.142	30
50	19.48	19.47	34.86	24.794	316.3	0.213	50
75	17.21	17.20	34.75	25.276	271.1	0.286	76
100	16.28	16.26	34.71	25.465	253.9	0.352	101
125	15.76	15.74	34.67	25.553	246.2	0.414	126
150	15.31	15.29	34.63	25.624	240.2	0.475	151
200	14.60	14.57	34.58	25.742	230.4	0.593	201
250	13.56	13.52	34.50	25.900	216.5	0.705	252
300	12.65	12.61	34.43	26.029	205.2	0.810	302
400	10.64	10.59	34.29	26.296	181.1	1.003	403
500	8.45	8.40	34.12	26.523	159.6	1.173	504

STD 11 RV THOMAS WASHINGTON TASADAY EXPEDITION LEG III STD 12

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 02.0 N	174 59.5 E	28/07/73	0942 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	27.60	27.60	35.31	22.760	508.4	0.000	0
10	27.60	27.60	35.32	22.768	508.1	0.051	10
20	27.59	27.59	35.32	22.773	508.2	0.102	20
30	27.60	27.59	35.32	22.770	508.9	0.152	30
50	25.52	25.51	35.26	23.384	451.2	0.249	50
75	23.58	23.56	35.25	23.961	397.1	0.355	76
100	20.90	20.88	35.06	24.573	339.5	0.447	101
125	18.94	18.92	34.90	24.967	302.6	0.527	126
150	17.46	17.43	34.76	25.227	278.5	0.600	151
200	16.31	16.28	34.73	25.477	256.2	0.733	201
250	15.07	15.03	34.62	25.673	238.7	0.857	252
300	13.91	13.87	34.50	25.829	224.8	0.973	302
400	11.51	11.46	34.29	26.140	196.5	1.183	403
500	9.32	9.26	34.16	26.418	170.4	1.367	504

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 00.5 N	172 29.0 E	28/07/73	2235 GMT	6505 M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	27.62	27.62	35.33	22.769	507.6	0.000	0
10	27.60	27.60	35.33	22.776	507.4	0.051	10
20	27.60	27.60	35.33	22.777	507.8	0.102	20
30	27.36	27.35	35.33	22.855	500.8	0.152	30
50	21.07	21.06	35.13	24.578	337.0	0.236	50
75	18.97	18.96	34.86	24.926	304.6	0.316	76
100	17.32	17.30	34.74	25.243	275.2	0.388	101
125	16.58	16.56	34.72	25.404	260.6	0.455	126
150	16.21	16.19	34.70	25.475	254.6	0.520	151
200	15.49	15.46	34.66	25.609	243.3	0.644	201
250	14.76	14.72	34.59	25.717	234.4	0.764	252
300	13.84	13.80	34.53	25.867	221.2	0.878	302
400	11.61	11.56	34.38	26.191	191.8	1.084	403
500	9.48	9.42	34.21	26.432	169.4	1.265	504

STD 13 RV THOMAS WASHINGTON TASADAY EXPEDITION LEG III STD 14

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 01.5 N	169 59.5 E	29/07/73	1252 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	27.05	27.05	34.96	22.674	516.7	0.000	0
10	27.05	27.05	34.96	22.674	517.1	0.052	10
20	27.05	27.05	34.96	22.675	517.5	0.103	20
30	24.05	24.04	34.90	23.554	433.9	0.151	30
50	20.15	20.14	34.84	24.604	334.5	0.228	50
75	18.38	18.37	34.82	25.044	293.3	0.306	76
100	16.97	16.95	34.71	25.304	269.4	0.377	101
125	16.43	16.41	34.69	25.416	259.5	0.443	126
150	16.16	16.14	34.70	25.487	253.5	0.507	151
200	15.53	15.50	34.67	25.608	243.5	0.631	201
250	14.70	14.66	34.59	25.730	233.1	0.750	252
300	13.64	13.60	34.52	25.901	217.9	0.863	302
400	11.44	11.39	34.33	26.184	192.3	1.068	403
500	9.50	9.44	34.19	26.413	171.1	1.250	504

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 00.0 N	167 31.5 E	30/07/73	0824 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	27.45	27.45	35.17	22.703	513.9	0.000	0
10	27.44	27.44	35.17	22.707	513.9	0.051	10
20	27.43	27.43	35.18	22.719	513.3	0.103	20
30	23.52	23.51	35.20	23.938	397.3	0.148	30
50	20.56	20.55	34.97	24.594	335.5	0.222	50
75	18.72	18.71	34.88	25.005	297.1	0.301	76
100	17.51	17.49	34.76	25.213	278.1	0.373	101
125	16.54	16.52	34.68	25.382	262.7	0.440	126
150	16.34	16.32	34.67	25.422	259.7	0.505	151
200	16.14	16.11	34.69	25.485	255.3	0.634	201
250	15.49	15.45	34.66	25.611	244.8	0.759	252
300	14.50	14.46	34.58	25.767	231.1	0.878	302
400	12.39	12.34	34.43	26.083	202.7	1.095	403
500	10.06	10.00	34.25	26.367	176.1	1.284	504

STD 15 RV THOMAS WASHINGTON TASADAY EXPEDITION LEG III STD 16

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
27 59.0 N	164 57.5 E	30/07/73	2052 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	27.17	27.17	35.07	22.718	512.4	0 000	0
10	27.17	27.17	35.08	22.726	512.1	0.051	10
20	27.17	27.17	35.08	22.727	512.5	0.102	20
30	27.16	27.15	35.08	22.731	512.6	0.154	30
50	22.65	22.64	35.15	24.152	377.6	0.243	50
75	20.43	20.42	34.99	24.645	331.6	0.331	75
100	18.59	18.57	34.87	25.031	295.5	0.410	101
125	17.51	17.49	34.78	25.229	277.4	0.481	126
150	16.81	16.79	34.73	25.359	265.8	0.549	151
200	16.21	16.18	34.73	25.500	254.0	0.679	201
250	15.53	15.49	34.68	25.617	244.2	0.804	252
300	14.57	14.53	34.62	25.783	229.6	0.922	302
400	12.54	12.49	34.45	26.069	204.1	1.139	403
500	10.21	10.15	34.28	26.364	176.5	1.329	504

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
27 58.5 N	162 28.0 E	31/07/73	0828 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	27.40	27.40	34.94	22.546	528 9	0.000	0
10	27.39	27.39	34.94	22.550	529.0	0.053	10
20	27.31	27.31	34.93	22.569	527.6	0.106	20
30	26.56	26.55	35.04	22.892	497.2	0.157	30
50	22.54	22.53	35.06	24.115	381.2	0.245	50
75	20.87	20.86	34.98	24.519	343.6	0.335	75
100	19.40	19.38	34.86	24.818	316.0	0.418	101
125	18.10	18.08	34.79	25.093	290.5	0.494	126
150	17.15	17.12	34.74	25.286	272.8	0.564	151
200	16.47	16.44	34.71	25.425	261.2	0.698	201
250	15.83	15.79	34.71	25.573	248.5	0.825	252
300	15.16	15.11	34.65	25.678	239.9	0.947	302
400	12.83	12.77	34.46	26.020	208.9	1.172	403
500	10.81	10.75	34.31	26.284	184.7	1.368	504

STD 17 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 01.5 N	160 00.5 E	31/07/73	2313 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	26.89	26.89	34.57	22.431	539.9	0.000	0
10	26.89	26.89	34.57	22.432	540.3	0.054	10
20	26.87	26.87	34.58	22.446	539.4	0.108	20
30	23.48	23.47	34.55	23.457	443.2	0.157	30
50	19.27	19.26	34.79	24.795	316.2	0.233	50
75	18.28	18.27	34.88	25.115	286.6	0.308	76
100	17.43	17.41	34.80	25.263	273.3	0.378	101
125	16.86	16.84	34.72	25.338	266.9	0.446	126
150	16.57	16.55	34.72	25.407	261.2	0.512	151
200	16.13	16.10	34.73	25.518	252.2	0.640	201
250	15.33	15.29	34.67	25.654	240.6	0.763	252
300	14.36	14.32	34.59	25.804	227.5	0.880	302
400	12.28	12.23	34.44	26.111	199.8	1.094	403
500	9.70	9.64	34.20	26.388	173.7	1.281	504

TASADAY EXPEDITION LEG III STD 18

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 13.0 N	159 53.0 E	01/08/73	0314 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	26.92	26.92	34.59	22.437	539.4	0.000	0
10	26.89	26.89	34.59	22.447	538.9	0.054	10
20	26.32	26.32	34.82	22.801	505.5	0.106	20
30	21.85	21.84	34.80	24.111	380.7	0.150	30
50	19.39	19.38	34.80	24.772	318.4	0.220	50
75	18.33	18.32	34.78	25.026	295.0	0.297	76
100	17.40	17.38	34.78	25.255	274.1	0.368	101
125	16.68	16.66	34.73	25.388	262.1	0.435	126
150	16.50	16.48	34.72	25.423	259.6	0.500	151
200	16.15	16.12	34.72	25.506	253.3	0.629	201
250	15.34	15.30	34.66	25.644	241.6	0.752	252
300	14.45	14.41	34.59	25.785	229.3	0.870	302
400	12.21	12.16	34.43	26.117	199.2	1.084	403
500	9.52	9.46	34.22	26.433	169.3	1.269	504

STD 19 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 10.0 N	160 01.0 E	01/08/73	0747 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	27.05	27.05	34.58	22.388	544.0	0.000	0
10	27.05	27.05	34.58	22.388	544.4	0.054	10
20	26.57	26.57	34.55	22.519	532.4	0.108	20
30	24.17	24.16	34.78	23.428	445.9	0.157	30
50	20.03	20.02	34.94	24.712	324.2	0.234	50
75	17.99	17.98	34.76	25.095	288.5	0.311	76
100	17.29	17.27	34.77	25.274	272.3	0.381	101
125	16.91	16.89	34.77	25.365	264.4	0.448	126
150	16.61	16.59	34.76	25.429	259.1	0.513	151
200	16.03	16.00	34.72	25.533	250.7	0.641	201
250	15.37	15.33	34.67	25.645	241.5	0 764	252
300	14.45	14.41	34.59	25.785	229.3	0.882	302
400	12.09	12.04	34.41	26.124	198.5	1.095	403
500	9.42	9.36	34.22	26.449	167.6	1.279	504

TASADAY EXPEDITION LEG III STD 20

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
27 58.0 N	160 01.0 E	01/08/73	1547 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	27.00	27.00	34.59	22.411	541.8	0.000	0
10	27.00	27.00	34.59	22.412	542.2	0.054	10
20	26.93	26.93	34.56	22.412	542.6	0.108	20
30	23.09	23.08	34.85	23.797	410.7	0.156	30
50	19.28	19.27	34.79	24.792	316.4	0.229	50
75	18.31	18.30	34.88	25.108	287.3	0.304	75
100	17.33	17.31	34.77	25.264	273.2	0.374	101
125	16.75	16.73	34.72	25.364	264.4	0.442	126
150	16.56	16.54	34.72	25.410	260.9	0.507	151
200	16.15	16.12	34.72	25.506	253.3	0.636	201
250	15.29	15.25	34.64	25.640	242.0	0.760	252
300	14.24	14.20	34.59	25.830	225.0	0.876	302
400	12.14	12.09	34.42	26.123	198.7	1.088	403
500	9.75	9.69	34.25	26.418	170.9	1.273	504

STD 21 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 00.0 N	157 29.5 E	02/08/73	0556 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	26.44	26.44	34.31	22.377	545.0	0.000	0
10	25.43	25.43	34.20	22.608	523.4	0.053	10
20	22.14	22.14	34.58	23.862	404.0	0.100	20
30	20.36	20.35	34.77	24.494	344.2	0.137	30
50	18.17	18.16	34.71	25.011	295.5	0.201	50
75	17.35	17.34	34.73	25.228	275.8	0.273	76
100	16.96	16.94	34.74	25.329	266.9	0.340	101
125	16.60	16.58	34.72	25.399	261.1	0.406	126
150	16.48	16.46	34.72	25.428	259.2	0.471	151
200	16.24	16.21	34.72	25.485	255.3	0 600	201
250	15.79	15.75	34.71	25.582	247.7	0.726	252
300	15.00	14.95	34.64	25.705	237.2	0.847	302
400	12.63	12.58	34.46	26.059	205.1	1.068	403
500	10.00	9.94	34.27	26.392	173.6	1.258	504

TASADAY EXPEDITION LEG III STD 22

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
27 59.5 N	155 01.0 E	02/08/73	1706 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	27.66	27.66	35.07	22.560	527.5	0.000	0
10	27.66	27.66	35.08	22.568	527.2	0.053	10
20	27.66	27.66	35.08	22.569	527.6	0.105	20
30	27.25	27.24	35.11	22.725	513.2	0.158	30
50	22.11	22.10	35.07	24.245	368.8	0.246	50
75	20.19	20.18	34.95	24.678	328.3	0.333	75
100	18.75	18.73	34.83	24.960	302.3	0.412	101
125	17.53	17.51	34.76	25.209	279.3	0.484	126
150	17.24	17.21	34.76	25.280	273.4	0.554	151
200	16.77	16.74	34.74	25.378	265.8	0.688	201
250	16.38	16.34	34.73	25.463	259.2	0.820	252
300	15.65	15.60	34.69	25.600	247.5	0.946	302
400	13.11	13.05	34.46	25.964	214.4	1.177	403
500	10.68	10.62	34.30	26.299	183.2	1.376	504

STD 23 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 00.0 N	152 31.5 E	03/08/73	0553 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	27.96	27.96	34.93	22.357	547.0	0.000	0
10	27.95	27.95	34.93	22.361	547.0	0.055	10
20	27.84	27.84	34.93	22.398	544.0	0.109	20
30	26.40	26.39	34.96	22.882	498.2	0.161	30
50	21.77	21.76	34.93	24.233	369.9	0.248	50
75	20.14	20.13	34.92	24.669	329.3	0.336	76
100	18.88	18.86	34.84	24.935	304.7	0.415	101
125	18.19	18.17	34.80	25.078	291.9	0.489	126
150	17.86	17.83	34.78	25.145	286.4	0.562	151
200	17.27	17.24	34.74	25.259	277.1	0.703	201
250	16.71	16.67	34.75	25.401	265.2	0.838	252
300	15.78	15.73	34.71	25.586	248.9	0.967	302
400	13.18	13.12	34.50	25.981	212.8	1.198	403
500	11.09	11.03	34.33	26.249	188.3	1.398	504

TASADAY EXPEDITION LEG III STD 24

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 00.0 N	150 00.0 E	03/08/73	1723 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	26.38	26.38	34.67	22.668	517.3	0.000	0
10	26.37	26.37	34.67	22.671	517.4	0.052	10
20	26.21	26.21	34.59	22.662	518.8	0.104	20
30	25.32	25.31	34.58	22.930	493.5	0.154	30
50	21.88	21.87	34.78	24.088	383.7	0.242	50
75	19.74	19.73	34.84	24.713	325.0	0.330	76
100	18.43	18.41	34.79	25.010	297.5	0.408	101
125	17.84	17.82	34.80	25.164	283.7	0.481	126
150	17.40	17.37	34.77	25.249	276.4	0.551	151
200	16.92	16.89	34.74	25.342	269.1	0.687	201
250	16.62	16.58	34.74	25.415	263.9	0.821	252
300	16.15	16.10	34.73	25.517	255.6	0.950	302
400	14.35	14.29	34.58	25.802	230.7	1.194	403
500	11.91	11.84	34.40	26.153	198.2	1.408	504

STD 25 RV THOMAS WASHINGTON TASADAY EXPEDITION LEG III STD 26

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 00.0 N	147 32.0 E	04/08/73	0551 GMT	3301 M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	27.80	27.80	34.86	22.357	547.0	0.000	0
10	27.80	27.80	34.87	22.365	546.7	0.055	10
20	27.22	27.22	34.78	22.485	535.7	0.109	20
30	24.72	24.71	34.88	23.339	454.5	0.158	30
50	21.21	21.20	34.83	24.311	362.4	0.240	50
75	19.39	19.38	34.80	24.773	319.3	0.325	76
100	18.73	18.71	34.82	24.958	302.5	0.403	101
125	18.03	18.01	34.79	25.110	288.8	0.477	126
150	17.58	17.55	34.78	25.214	279.8	0.548	151
200	17.07	17.04	34.76	25.322	271.1	0.686	201
250	16.61	16.57	34.75	25.425	262.9	0.819	252
300	16.00	15.95	34.72	25.544	253.0	0.948	302
400	13.84	13.78	34.55	25.885	222.4	1.186	403
500	11.16	11.10	34.36	26.260	187.3	1.391	504

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
28 03.5 N	146 16.0 E	04/08/73	1324 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	26.67	26.67	34.49	22.440	539.0	0.000	0
10	26.22	26.22	34.53	22.613	523.0	0.053	10
20	24.19	24.19	34.50	23.210	466.4	0.103	20
30	22.28	22.27	34.65	23.877	403.1	0.146	30
50	21.22	21.21	34.82	24.301	363.4	0.223	50
75	20.27	20.26	34.88	24.604	335.5	0.310	76
100	19.13	19.11	34.84	24.871	310.8	0.391	101
125	18.49	18.47	34.84	25.034	296.1	0.467	126
150	17.95	17.92	34.80	25.139	287.0	0.540	151
200	17.25	17.22	34.77	25.287	274.5	0.680	201
250	16.78	16.74	34.76	25.393	266.1	0.815	252
300	16.14	16.09	34.73	25.520	255.4	0.945	302
400	14.25	14.19	34.58	25.823	228.6	1.187	403
500	11.43	11.37	34.40	26.242	189.3	1.396	504

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG III — STATION 1

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 0.5 N	162 30.5 W	22/07/73	1935 GMT	5541 m									

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	10	25.15						5.21 A		1.0	0.13	0.1	0.01	0.02	0.01	10
1	25	25.09						5.21		1.0	0.12	0.1	0.01	0.02	0.01	25
1	40	23.63						5.52		1.0	0.11	0.1	0.01	0.04	0.01	40
1	55							5.46		1.0	0.12	0.1	0.00	0.04	0.02	55
1	70	21.87						5.48		1.0	0.11	0.1	0.01	0.05	0.03	71
1	85							5.54		1.0	0.15	0.0	0.00	0.04	0.02	86
1	95	20.50						5.46		1.0	0.13	0.1	0.00	0.05	0.03	96
1	99							5.40		1.0	0.15	0.2	0.01	0.07	0.04	100
1	104	20.12						5.35		1.0	0.16	0.1	0.02	0.08	0.06	105
1	109	20.03						5.57		1.0	0.13	0.1	0.04	0.08	0.05	110
1	114	19.86						5.57		1.0	0.11	0.1	0.00	0.08	0.08	115
1	118	19.80						5.44		1.0	0.15	0.1	0.00			119
1	123	19.71						5.54		1.0	0.13	0.1	0.10	0.08	0.11	124
1	138	19.38						5.33		1.0	0.11	0.1	0.15	0.09	0.12	139
1	152	18.89						5.18		2.0	0.15	1.0	0.24	0.05	0.07	153
1	172							5.08		2.0	0.18	1.5	0.11	0.03	0.04	173
1	191							5.06		2.0	0.22	2.0	0.08	0.01	0.02	192
1	490	8.94	8.89	34.106	26.436	168.1		4.43	68.0	28.0	1.48	20.3	0.02	0.00	0.01	494

A) BUBBLES OCCURRED IN ALL OXYGEN SAMPLES OF THIS CAST.

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG III — STATION 2

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 3.0 N	164 56.0 W	23/07/73	0653 GMT	4916 m									

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	1	25.53	25.53	35.486	23.548	433.2		5.09	109.0	1.0	0.24	0.0	0.09	0.03	0.01	1
1	26			35.488				5.08	105.3	1.0	0.18	0.0	0.06	0.03	0.01	26
1	41	22.57	22.56	35.330	24.311	362.1		5.55	112.8	1.7	0.18	0.0	0.09	0.03	0.01	41
1	61			35.273				5.59	110.9	1.8	0.15	0.0	0.06	0.03	0.01	61
1	76	20.49	20.48	35.263	24.837	313.3		5.64	110.3	1.7	0.13	0.0	0.04	0.04	0.01	76
1	91			35.266				5.56	107.7	1.7	0.11	0.0	0.02	0.05	0.02	91
1	106	19.60	19.58	35.242	25.058	293.4		5.55	106.8	1.8	0.09	0.0	0.00	0.05	0.03	106
1	116			35.223				5.46	104.5	1.7	0.11	0.0	0.00	0.06	0.06	116
1	121	19.24	19.22					5.44	103.9	1.9	0.13	0.0	0.00	0.06	0.06	121
1	126	19.20	19.18	35.197	25.127	287.5		5.42	103.5	2.0	0.10	0.0	0.00	0.07	0.08	126
1	131	19.03	19.01	35.182	25.160	284.6		4.92 U		2.0	0.11	0.0	0.07	0.08	0.09	132
1	136	18.94	18.92	35.166	25.171	283.7		5.30	100.6	2.3	0.13	0.1	0.15	0.08	0.11	137
1	141	18.80	18.77	35.156	25.199	281.2		5.25	99.4	2.3	0.15	0.4	0.11	0.09	0.11	142
1	146	18.69	18.66	35.115 U				5.24	99.0	2.4	0.16	0.6	0.06	0.09	0.10	147
1	150	18.57	18.54	35.120	25.230	278.6		5.20	98.0	2.5	0.16	0.7	0.05	0.07	0.08	151
1	165			35.070				5.25	98.2	2.7	0.20	1.1	0.04	0.04	0.04	166
1	199			34.970				5.21	95.6	3.3	0.23	1.8	0.03	0.02	0.02	200
1	497	8.93						4.64		26.0	1.44	19.5	0.00			501

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG III — STATION 3

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
27 58.5 N	167 34.0 W	23/07/73	1955 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	2	25.60	25.60	35.507	23.542	433.8		5.05	108.3	2.0	0.16	0.0	0.03	0.03	0.01	2
1	22							5.00		1.0	0.13	0.0	0.00	0.03	0.01	22
1	41	22.86						5.56		2.0	0.07	0.0	0.00	0.04	0.01	41
1	61							5.65		2.0	0.07	0.0	0.00	0.05	0.02	61
1	75	20.66						5.57		2.0	0.08	0.0	0.00	0.05	0.01	76
1	90							5.39		2.0	0.07	0.1	0.00	0.06	0.02	91
1	104	19.52						5.50		2.0	0.09	0.0	0.00	0.06	0.03	105
1	114							5.35		2.0	0.08	0.0	0.00	0.08	0.07	115
1	119	19.07						5.31		2.0	0.10	0.0	0.01	0.09	0.10	120
1	123	18.95						5.27		2.0	0.11	0.0	0.01	0.13	0.13	124
1	128	18.85						5.22		2.0	0.09	0.2	0.02	0.13	0.15	129
1	133	18.81						5.23		2.0	0.12	0.3	0.03	0.13	0.17	134
1	138	18.76						5.18		2.0	0.11	0.3	0.04	0.10	0.14	139
1	142	18.66						5.17		2.0	0.13	0.6	0.04	0.11	0.13	143
1	147	18.59						5.14		2.0	0.13	0.8	0.05	0.11	0.12	148
1	161							5.12		3.0	0.15	1.2	0.04	0.08	0.10	162
1	194							5.21		3.0	0.18	1.5	0.03	0.03	0.06	195
1	487	9.70	9.64	34.185	26.376	174.6		4.80	75.0	24.0	1.26	17.0	0.00			489

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG III — STATION 4

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
27 59.5 N	169 28.5 W	24/07/73	0712 GMT	4540 m									

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	1	25.64	25.64	35.521	23.540	433.9		5.04	108.1	2.0	0.16	0.0	0.00	0.02	0.01	1
1	21	25.62						5.03		2.0	0.13	0.0	0.00	0.01	0.00	21
1	43	23.02						5.58		2.0	0.11	0.0	0.00	0.02	0.01	43
1	64	21.53						5.64		2.0	0.09	0.0	0.00	0.04	0.01	64
1	78	20.79						5.59		2.0	0.09	0.0	0.00	0.03	0.01	79
1	92	20.37						5.57		2.0	0.09	0.0	0.00	0.04	0.02	93
1	107	20.05						5.50		2.0	0.09	0.0	0.00	0.04	0.02	108
1	117							5.45		2.0	0.09	0.1	0.00	0.05	0.04	118
1	122	19.67						5.42		2.0	0.09	0.1	0.00	0.08	0.07	123
1	128							5.39		2.0	0.09	0.1	0.00	0.08	0.12	129
1	132	19.34						5.33		2.0	0.09	0.1	0.00	0.11	0.13	133
1	136							5.30		2.0	0.09	0.1	0.06	0.08	0.21	137
1	141	19.16						5.22		2.0	0.11	0.3	0.10	0.09	0.10	142
1	146							5.19		2.0	0.11	0.7	0.03	0.06	0.08	147
1	151	18.99						5.20		2.0	0.12	0.8	0.02	0.05	0.08	152
1	165							5.20		2.0	0.12	1.1	0.01	0.04	0.05	166
1	199	18.23						5.21		3.0	0.15	1.3	0.00	0.01	0.01	200
1	495	10.08	10.02	34.201	26.325	180.0		4.85	76.4	22.0	1.17	16.4	0.00			497

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG III — STATION 5

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 1.0 N	172 31.5 W	24/07/73	1946 GMT	5007 m			2					7/8	SC

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	1	26.54	26.54	35.486	23.232	463.3		4.99	108.6	1.0	0.14	0.2	0.00	0.06	0.03	1
1	22	26.53						4.98		1.0	0.13	0.2	0.00	0.06	0.03	22
1	42	24.17						5.48		1.0	0.08	0.2	0.00	0.07	0.04	42
1	62	21.64						5.53		2.0	0.09	0.2	0.00	0.10	0.07	62
1	77	20.38						5.40		2.0	0.10	0.1	0.01	0.06	0.04	78
1	92	19.27						5.38		2.0	0.11	0.2	0.04	0.05	0.07	93
1	106	18.59						5.06		3.0	0.18	1.4	0.07	0.04	0.05	107
1	116							5.08		3.0	0.18	1.3	0.09	0.03	0.05	117
1	121	17.97						5.14		3.0	0.19	1.6	0.07	0.02	0.04	122
1	126							5.03		4.0	0.22	2.0	0.03	0.02	0.04	127
1	130							5.00		4.0	0.24	2.4	0.02	0.01	0.03	131
1	135							4.96		4.0	0.26	2.6	0.02	0.02	0.03	136
1	140	17.37						5.12		4.0	0.22	2.0	0.01	0.02	0.05	141
1	145							5.15		4.0	0.26	2.2	0.00	0.01	0.03	146
1	149	17.07						5.20		4.0	0.24	2.5	0.01	0.01	0.02	150
1	164							4.69 U		5.0	0.28	3.1	0.00	0.01	0.02	165
1	199	15.64						5.06		6.0	0.42	4.7	0.01	0.00	0.01	200
1	496	8.98	8.93	34.141	26.458	166.3		4.29	65.9	31.0	1.53	20.4	0.00			498

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG III — STATION 6

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 4.0 N	174 57.0 W	25/07/73	0749 GMT	5607 m									

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	1	26.25	26.25	35.491	23.328	454.2		5.03	109.0	2.0	0.11	0.1	0.00	0.02	0.01	1
1	16	26.27						4.98		1.0	0.09	0.1	0.00	0.02	0.01	16
1	32	26.28						4.99		1.0	0.05	0.1	0.00	0 02	0.01	32
1	42	26.18						5.02		1.0	0.09	0.1	0.00	0.02	0.01	42
1	52	23.71						5.45		2.0	0.09	0.1	0.00	0.04	0.01	52
1	62	22.25						5.45		2.0	0.09	0.1	0.00	0.05	0.02	62
1	72	21.44						5.27		2.0	0.10	0.1	0.00	0.04	0.01	73
1	82							5.20		2.0	0.11	0.1	0.00	0.06	0.05	83
1	92	20.45						5.17		2.0	0.11	0.2	0.00			93
1	102							5.20		3.0	0.11	0.5	0.10	0.14	0.12	103
1	112	19.50						5.16		3.0	0.15	0.6	0.13	0.10	0.09	113
1	121							5.07		3.0	0.16	0.9	0.10	0.08	0.09	122
1	131	19.18						5.15		3.0	0.17	0.9	0.13	0.10	0.12	132
1	141							5.12		3.0	0.18	1.1	0.12	0.07	0.08	142
1	150	18.45						5.19		3.0	0.18	1.1	0.13	0.08	0.03	151
1	174							5.15		4.0	0.26	1.9	0.06	0.03	0.05	175
1	198	17.01						5.11		5.0	0.29	2.6	0.02	0.02	0.04	199
1	501	9.60	9.54	34.190	26.396	172.8		4.63	72.2	27.0	1.33	18.1	0.00			504

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG III — STATION 7

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 2.0 N	177 28.5 W	25/07/73	1952 GMT	3692 m			1					4/8	CU

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	1	26.68	26.68	35.360	23.093	476.7		5.11	111.4	1.0	0.16	0.2	0.00	0.05	0.03	1
1	21	26.67						5.02		1.0	0.11	0.2	0.00	0.05	0.04	21
1	41	22.91						5.52 A		0.0	0.09	0.1	0.00	0.10	0.06	41
1	56	20.84						5.55		2.0	0.09	0.1	0.00	0.11	0.08	56
1	66	20.21						5.56		3.0	0.08	0.1	0.00	0.11	0.10	66
1	76	19.33						5.54		3.0	0.09	0.2	0.00	0.09	0.10	77
1	86	18.78						5.33		3.0	0.12	0.2	0.06	0.07	0.09	87
1	91							5.24		3.0	0.15	0.4	0.17	0.07	0.10	92
1	96	18.31						5.23		3.0	0.16	0.6	0.17	0.06	0.11	97
1	101							5.21		3.0	0.16	1.1	0.14	0.06	0.09	102
1	106	17.94						5.18		3.0	0.18	1.3	0.12	0.06	0.08	107
1	111							5.12		4.0	0.22	1.8	0.07	0.05	0.08	112
1	116	17.36						5.10		4.0	0.24	2.5	0.04	0.03	0.06	117
1	126							5.05 A		4.0	0.27	3.0	0.02	0.03	0.05	127
1	151	16.20						5.08		5.0	0.35	4.2	0.03	0.01	0.02	152
1	175	15.90						4.98		6.0	0.40	4.9	0.02	0.01	0.02	176
1	199	14.97						5.07		7.0	0.49	6.4	0.04	0.01	0.00 U	201
1	498 B	8.55	8.50	34.125	26.512	160.7		4.30	65.4	35.0	1.63	22.3	0.00			500

A) BUBBLES OCCURRED IN ALL OXYGEN SAMPLES BETWEEN 41 AND 126 METERS.
B) THIS DEPTH WAS DETERMINED FROM AN EXTRAPOLATED DEPTH CURVE DUE TO A MALFUNCTION OF THE UNPROTECTED THERMOMETER. THE TEMPERATURE AGREES WITH THAT RECORDED BY THE STD AT THE SAME DEPTH.

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG III — STATION 8

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
27 58.0 N	179 43.0 E	26/07/73	1525 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	1	27.01	27.01	35.460	23.063	479.5		4.92	108.0	2.0	0.12	0.1	0.00	0.01	0.01	1
1	21	27.00						4.90		1.0	0.13	0.0	0.00	0.01	0.00	21
1	31	27.02						4.92		1.0	0.10	0.0	0.00	0.01	0.01	31
1	41	27.01						4.92		1.0	0.10	0.0	0.00	0.01	0.01	41
1	46	25.58						5.31		1.0	0.09	0.0	0.00	0.03	0.01	46
1	61	23.92						5.41		1.0	0.09	0.0	0.00	0.02	0.01	61
1	66	23.58						5.42		2.0	0.08	0.1	0.00	0.03	0.01	66
1	71							5.42		1.0	0.10	0.1	0.00	0.03	0.01	72
1	76	22.98						5.37		2.0	0.11	0.0	0.00	0.02	0.01	77
1	81							5.32		2.0	0.11	0.0	0.00	0.03	0.02	82
1	86	22.28						5.38		2.0	0.09	0.0	0.00	0.02	0.03	87
1	100							5.22		2.0	0.11	0.0	0.00	0.03	0.04	101
1	110	20.80						5.06		2.0	0.14	0.0	0.00	0.08	0.12	111
1	124							5.04		3.0	0.16	0.3	0.15	0.10	0.12	125
1	147	18.79						4.77		3.0	0.28	2.5	0.02	0.05	0.05	148
1	172							5.18		4.0	0.26	1.7	0.03	0.02	0.04	173
1	196	17.09						5.16		4.0	0.29	2.4	0.02	0.01	0.03	197
1	492 A	9.92	9.86	34.214	26.362	176.2		4.57	71.7	25.0	1.34	18.4	0.00			494

A) THIS DEPTH WAS DETERMINED FROM AN EXTRAPOLATED DEPTH CURVE DUE TO A MALFUNCTION OF THE UNPROTECTED THERMOMETER. THE TEMPERATURE AGREES WITH THAT RECORDED BY THE STD AT THE SAME DEPTH.

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG III — STATION 9

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
29 50.0 N	179 3.5 E	27/07/73	0742 GMT	1045 m									

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	1	27.10						4.95		3.0		0.1	0.04	0.07	0.02	1
1	22	27.09						4.92		2.0	0.29	0.2	0.03	0.05	0.02	22
1	37	23.45						5.61		3.0	0.53	0.1	0.01	0.04	0.01	37
1	53	22.23						5.59		3.0	0.13	0.2	0.02	0.04	0.01	53
1	58	21.76						5.54		3.0	0.46	0.2	0.01	0.04	0.01	58
1	63	21.28						5.58		4.0	0.29	0.2	0.02	0.05	0.01	63
1	68	21.04						5.52		5.0	0.10	0.1	0.02	0.04	0.01	69
1	73							5.61		4.0	0.09	0.1	0.01	0.05	0.01	74
1	78													0.07	0.02	79
1	83	19.46						5.88		5.0	0.11	0.1	0.02	0.06	0.02	84
1	88													0.07	0.02	89
1	92							5.96		5.0	0.09	0.1	0.00	0.07	0.02	93
1	97													0.08	0.03	98
1	102	18.09						5.84		4.0	0.42	0.0	0.01	0.10	0.05	103
1	107													0.11	0.06	108
1	112							5.97		5.0	0.16	0.1	0.00	0.11	0.07	113
1	116													0.11	0.08	117
1	121	16.99						5.84		5.0	0.15	0.1	0.02	0.10	0.09	122
1	126							5.40		6.0	0.37	1.7	0.06	0.16	0.19	127
1	131	16.74						5.32		5.0	0.30	2.2	0.08	0.18	0.23	132
1	140							5.42		6.0	0.33	2.2	0.14	0.18	0.18	141
1	149	16.36						5.56		6.0	0.42	2.0	0.16	0.15	0.17	150
1	174	15.88						5.03		8.0	0.44	3.7	0.01	0.08	0.09	175
1	198	15.39												0.03	0.01	200
1	496	8.94														500

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG III — STATION 10

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 0.0 N	177 30.0 E	27/07/73	2247 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	1	26.87						4.98		3.0	0.16	0.1	0.00	0.03	0.01	1
1	21	26.84						4.93		3.0	0.15	0.1	0.00	0.03	0.01	21
1	36	20.71						5.91		4.0	0.14	0.1	0.00	0.05	0.01	36
1	51	19.39						5.82		3.0	0.11	0.0	0.04	0.05	0.01	51
1	61	18.37						5.89		3.0	0.09	0.0	0.02	0.07	0.02	61
1	71	17.64						5.78		3.0	0.12	0.0	0.06	0.10	0.04	72
1	81	17.10						6.01		4.0	0.16	0.0	0.01	0.12	0.06	82
1	91							5.85		4.0	0.16	0.0	0.00	0.18	0.15	92
1	101	16.41						5.70		4.0	0.21	0.4	0.06	0.16	0.21	102
1	106							5.60		5.0	0.26	1.4	0.25	0.14	0.21	107
1	111	16.11						5.46		5.0	0.27	2.2	0.30	0.12	0.20	112
1	116							5.49		5.0	0.29	2.5	0.47	0.11	0.16	117
1	121	15.89						5.44		5.0	0.32	2.9	0.45	0.08	0.13	122
1	131	15.72						5.36		5.0	0.38	3.9	0.19	0.07	0.11	132
1	141	15.55						5.32		6.0	0.40	4.5	0.04	0.07	0.09	142
1	150	15.37						5.64		6.0	0.41	4.4	0.04	0.06	0.07	151
1	174	14.93						5.40		7.0	0.48	5.3	0.02	0.02	0.02	175
1	198	14.63						5.28		8.0	0.54	6.3	0.01	0.01	0.01	199

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG III — STATION 11

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 2.0 N	174 59.5 E	28/07/73	1005 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	1	27.58	27.58	35.322	22.776	507.0		4.82	106.7	1.0	0.07	0.1	0.00	0.02	0.01	1
1	23	27.56						4.82		1.0	0.07	0.1	0.00	0.02	0.01	23
1	43	27.53						4.86		1.0	0.11	0.2	0.02	0.02	0.01	43
1	63	24.91						5.44		1.0	0.10	0.2	0.01	0.04	0.01	63
1	73	23.86						5.37		2.0	0.09	0.3	0.00			74
1	78	23.54						5.50		2.0	0.10	0.1	0.05	0.04	0.02	79
1	82	22.18						5.68		2.0	0.10	0.1	0.00	0.06	0.02	83
1	87							5.60		2.0	0.10	0.1	0.01	0.06	0.02	88
1	91	21.33						5.56		2.0	0.11	0.1	0.00	0.07	0.02	92
1	96							5.45		2.0	0.10	0.1	0.03	0.05	0.02	97
1	100	20.73						5.52		2.0	0.13	0.0	0.00	0.09	0.04	101
1	105							5.59		3.0	0.13	0.0	0.01	0.09	0.06	106
1	109	19.88						5.50		3.0	0.13	0.1	0.00	0.10	0.06	110
1	118							5.46		3.0	0.14	0.0	0.03	0.11	0.13	119
1	127	18.63						5.42		3.0	0.15	0.0	0.05	0.10	0.20	128
1	147							5.64		3.0	0.16	0.0	0.05	0.05	0.07	148
1	171	16.92						5.13		4.0	0.27	3.1	0.06	0.03	0.06	172
1	195							4.57		5.0	0.38	5.2	0.14	0.01	0.02	196
1	492	9.56	9.50	34.200	26.411	171.3										494

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG III — STATION 12

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 0.5 N	172 29.0 E	28/07/73	2302 GMT	6505 m									

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	1	27.62	27.62	35.345	22.780	506.6				1.0	0.10	0.2	0.01	0.03	0.01	1
1	21	27.60								1.0	0.09	0.1	0.06	0.03	0.01	21
1	42	22.62								2.0	0.08	0.2	0.00	0.05	0.01	42
1	62	19.70								3.0	0.09	0.2	0.01	0.07	0.02	62
1	77	18.93								3.0	0.10	0.2	0.00	0.07	0.02	78
1	91	18.06								3.0	0.14	0.7	0.06	0.19	0.17	92
1	101	17.40								3.0	0.13	0.2	0.00	0.13	0.13	102
1	111									3.0	0.15	0.2	0.08	0.14	0.20	112
1	116	16.85								4.0	0.16	0.5	0.13	0.12	0.19	117
1	121									4.0	0.18	1.1	0.31	0.10	0.21	122
1	125	16.57								4.0	0.18	1.6	0.44	0.08	0.15	126
1	130									4.0	0.26	3.0	0.23	0.06	0.13	131
1	135	16.41								4.0	0.27	3.1	0.17	0.06	0.12	136
1	140									5.0	0.30	3.4	0.07	0.06	0.10	141
1	145	16.31								5.0	0.32	3.9	0.04	0.04	0.08	146
1	149									5.0	0.38	4.8	0.06	0.02	0.03	150
1	174	15.90								5.0	0.40	4.9	0.04	0.02	0.03	175
1	198	15.50								6.0	0.46	5.8	0.01	0.01	0.01	199
1	496	9.51	9.45	34.216	26.431	169.3				28.0	1.30	19.0	0.00			498

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG III — STATION 13

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 1.5 N	169 59.5 E	29/07/73	1322 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	1	27.04	27.04	34.952	22.671	517.0		4.86	106.4	3.0	0.09	0.0	0.00	0.03	0.01	1
1	21	27.03						4.87		3.0	0.07	0.0	0.00	0.02	0.01	21
1	41	23.06						5.68		3.0	0.08	0.0	0.06	0.04	0.01	41
1	61	19.01						5.85		3.0	0.12	0.0	0.00	0.06	0.02	61
1	76	17.82						5.77		3.0	0.11	0.0	0.00	0.10	0.06	77
1	86	17.14						6.00		3.0	0.10	0.0	0.00	0.15	0.09	87
1	91	17.04						5.91		3.0	0.12	0.0	0.05	0.16	0.15	92
1	96							5.75		3.0	0.11	0.0	0.18	0.23	0.22	97
1	101	16.87						5.51		4.0	0.13	1.0	0.32	0.22	0.23	102
1	106							5.60		4.0	0.13	1.2	0.31	0.19	0.22	107
1	111	16.55						5.48		4.0	0.21	2.6	0.15	0.15	0.18	112
1	116							5.56 A		4.0	0.26	3.4	0.09	0.13	0.13	117
1	121	16.45						5.38		4.0	0.28	3.6	0.04	0.10	0.13	122
1	126							5.37		4.0	0.29	3.7	0.06	0.09	0.11	127
1	131	16.32						5.35		5.0	0.27	3.9	0.06	0.06	0.08	132
1	146							5.42		5.0	0.27	3.6	0.03	0.04	0.04	147
1	167	15.96						5.10		6.0	0.41	5.5	0.01	0.02	0.02	168
1	202	15.53						5.06		7.0	0.46	6.5	0.01	0.00	0.01	204
1	500	9.43	9.37	34.204	26.435	169.0										502

A) THIS OXYGEN SAMPLE CONTAINED A BUBBLE.

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG III — STATION 14

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 0.0 N	167 31.5 E	30/07/73	0847 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	1	27.45	27.45	35.172	22.705	513.8		4.86	107.2	2.0	0.17	0.1	0.03	0.03	0.01	1
1	22	27.40						4.87		2.0	0.11	0.1	0.00	0.03	0.01	22
1	43	21.92						5.73		3.0	0.09	0.1	0.00	0.06	0.01	43
1	63	20.13						5.73		3.0	0.09	0.1	0.00	0.07	0.01	63
1	78	18.75						5.67		3.0	0.11	0.1	0.00	0.09	0.04	79
1	88	18.18						5.61		3.0	0.11	0.0	0.00	0.11	0.06	89
1	93	17.88						5.68		3.0	0.15	0.1	0.00	0.12	0.11	94
1	97							5.64		3.0	0.14	0.0	0.00	0.13	0.17	98
1	102	17.44						5.60		3.0	0.12	0.1	0.03	0.20	0.24	103
1	107							5.56		3.0	0.15	0.2	0.10	0.18	0.26	108
1	112	16.98						5.49		4.0	0.17	0.9	0.22	0.13	0.19	113
1	116							5.45		4.0	0.22	1.8	0.15	0.10	0.16	117
1	121	16.63						5.46		4.0	0.26	2.6	0.02	0.07	0.14	122
1	126							5.45		4.0	0.29	2.9	0.00	0.06	0.08	127
1	130	16.47						5.44		5.0	0.29	3.1	0.00	0.04	0.07	131
1	150							5.45		5.0	0.31	3.7	0.01	0.03	0.04	151
1	170	16.23						5.45		5.0	0.31	3.7	0.01	0.01	0.01	171
1	200							5.39		5.0	0.33	3.9	0.00	0.01	0.01	202
1	498	10.08	10.02	34.253	26.365	176.2				26.0	1.23	17.6	0.00			500

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG III — STATION 15

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
27 59.0 N	164 57.5 E	30/07/73	2116 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	1	27.17	27.17	35.077	22.724	512.0		4.89	107.3	2.0	0.13	0.4	0.00	0.03	0.01	1
1	21	27.16						4.84		2.0	0.08	0.2	0.00	0.04	0.01	21
1	42	24.00						5.63		2.0	0.09	0.2	0.04	0.06	0.01	42
1	62	21.60						5.65		2.0	0.07	0.0	0.00	0.06	0.01	62
1	77	20.27						5.57		2.0	0.09	0.1	0.00	0.07	0.02	78
1	86	19.42						5.42		3.0	0.08	0.1	0.00	0.09	0.07	87
1	91	19.04						5.39		3.0	0.10	0.1	0.03	0.09	0.08	92
1	96							5.37		3.0	0.11	0.1	0.01	0.10	0.10	97
1	101	18.31						5.46		3.0	0.13	0.1	0.05	0.18	0.19	102
1	106									3.0	0.14	0.1	0.06	0.17	0.18	107
1	111	17.99						5.35		3.0	0.14	0.5	0.08	0.15	0.15	112
1	116							5.38		3.0	0.16	0.6	0.11	0.12	0.14	117
1	120	17.56						5.29		3.0	0.18	1.2	0.06	0.08	0.11	121
1	125							5.31		4.0	0.23	1.4	0.04	0.07	0.11	126
1	130	17.31						5.29		4.0	0.22	1.8	0.03	0.05	0.08	131
1	145							5.28		4.0	0.27	2.7	0.04	0.04	0.06	146
1	169	16.57						5.14						0.02	0.03	170
1	199							5.11		5.0	0.36	4.4	0.01	0.01	0.01	200
1	497	10.32	10.26	34.269	26.337	179.1				25.0	1.21	16.7	0.06			499

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG III — STATION 16

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT TYPE
27 58.5 N	162 28.0 E	31/07/73	0852 GMT									

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	1	27.38	27.38	34.932	22.547	528.9		4.85	106.8	1.0		0.0	0.00	0.02	0.01	1
1	21	27.33						4.86		0.0		0.0	0.00	0.03	0.01	21
1	41	24.66						5.49		1.0		0.0	0.00	0.05	0.01	41
1	61	22.32						5.67		1.0		0.0	0.00	0.06	0.02	61
1	76	21.13						5.68		1.0		0.0	0.00	0.09	0.02	77
1	86	20.35						5.71		3.0		0.2	0.00	0.11	0.05	87
1	91	20.09						5.69		3.0		0.3	0.00	0.11	0.05	92
1	96							5.67		3.0		0.3	0.00	0.13	0.07	97
1	101	19.52						5.65		3.0		0.4	0.00	0.13	0.08	102
1	106							5.64		4.0		0.4	0.00	0.14	0.08	107
1	111	19.05						5.79		3.0		0.1	0.00	0.15	0.09	112
1	116							5.33		4.0		0.3	0.00	0.14	0.11	117
1	121	18.84						5.62		4.0		0.0	0.00	0.13	0.12	122
1	125							5.55		3.0		0.0	0.00	0.08	0.13	126
1	130	18.04						5.56		3.0		0.0	0.06	0.09	0.13	131
1	145							5.44		4.0		0.8	0.00	0.06	0.13	146
1	170	16.82						5.27		4.0		2.7	0.00	0.04	0.07	171
1	199							5.32		5.0		3.6	0.03	0.01	0.02	200
1	492	10.94	10.88	34.301	26.253	187.5				21.0		14.1	0.00			494

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG III — STATION 17

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT TYPE
28 1.5 N	160 0.5 E	31/07/73	2338 GMT									

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	1	26.90	26.90	34.557	22.418	541.2		4.87	106.1	3.0	0.12	0.1	0.01	0.04	0.01	1
1	21	26.78						4.93		2.0	0.08	0.0	0.00	0.04	0.01	21
1	42	21.00						5.92		3.0	0.09	0.0	0.00	0.05	0.01	42
1	61	19.32						5.84		3.0	0.09	0.1	0.00	0.04	0.01	61
1	76	18.41						5.79		3.0	0.10	0.0	0.00	0.08	0.05	77
1	86	18.20						5.77		3.0	0.11	0.4	0.00	0.16	0.14	87
1	90	18.08						5.77		3.0	0.13	0.3	0.04	0.23	0.17	91
1	95							5.76		3.0	0.16	0.6	0.09	0.20	0.16	96
1	100	17.70						5.27		3.0	0.18	1.4	0.04	0.18	0.16	101
1	104							5.09		3.0	0.21	1.7	0.06	0.14	0.15	105
1	109	17.20						5.13		3.0	0.22	2.3	0.06	0.11	0.13	110
1	114							4.98		4.0	0.23	2.3	0.02	0.10	0.11	115
1	118	16.98						5.00		4.0	0.22	2.5	0.05	0.09	0.12	119
1	123							5.07		4.0	0.24	2.7	0.03	0.08	0.12	124
1	128	16.82						5.10		4.0	0.25	2.9	0.07	0.08	0.13	129
1	143							5.33		4.0	0.26	3.3	0.05	0.05	0.08	144
1	168	16.42						5.28		4.0	0.31	3.5	0.01	0.02	0.01	169
1	197							4.78 U		5.0	0.37	4.5	0.02	0.00	0.01	198
1	490	9.98	9.92	34.244	26.375	175.0				28.0	1.26	17.5	0.01			492

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG III — STATION 18

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT TYPE
28 13.0 N	159 53.0 E	01/08/73	0338 GMT									

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	26.99						3.71		3.0	0.11	0.3	0.00	0.04	0.01	0
1	20	26.38						3.76		3.0	0.08	0.3	0.00	0.03	0.01	20
1	40	20.49						5.92		3.0	0.09	0.3	0.00	0.05	0.02	40
1	60	18.75						5.64		3.0	0.11	0.3	0.00	0.06	0.03	60
1	70	18.46						5.51		3.0	0.11	0.2	0.00	0.07	0.03	71
1	80	18.11						5.37		3.0	0.11	0.2	0.00	0.08	0.04	81
1	85	17.85						5.29		4.0	0.12	0.2	0.00	0.09	0.05	86
1	90							5.28		3.0	0.12	0.3	0.00	0.12	0.09	91
1	95	17.63						5.18		4.0	0.18	1.1	0.06	0.23	0.18	96
1	100							5.20		4.0	0.24	2.2	0.09	0.19	0.19	101
1	104	17.40						5.22		4.0	0.25	2.5	0.09	0.21	0.19	105
1	109							5.20		4.0	0.33	3.8	0.07	0.11	0.14	110
1	114	17.13						5.25		5.0	0.35	3.8	0.07	0.10	0.15	115
1	119							5.24		5.0	0.34	3.8	0.04	0.08	0.12	120
1	124	16.88						5.31		5.0	0.33	4.1	0.03	0.07	0.13	125
1	138							5.32		4.0	0.32	3.8	0.03	0.05	0.09	139
1	162	16.46						5.33		5.0	0.33	4.3	0.01	0.02	0.02	163
1	292	14.61						5.19		11.0	0.69	9.3	0.01	0.00	0.01	294
1	492	9.77						0.00		29.0	1.41	18.0	0.02			496

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG III — STATION 19

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT TYPE
28 10.0 N	160 1.0 E	01/08/73	0818 GMT									

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	1	27.03	27.03	34.581	22.395	543.4		4.88	106.6	2.0	0.12	0.1	0.00	0.04	0.01	1
1	21	26.95						4.90		2.0	0.10	0.0	0.00	0.03	0.01	21
1	41	21.00						5.83		2.0	0.08	0.1	0.00	0.05	0.01	41
1	61	19.18						5.65		3.0	0.10	0.0	0.01	0.08	0.01	61
1	70	18.44						5.53		3.0	0.11	0.0	0.01	0.10	0.06	71
1	80	17.73						5.77		4.0	0.13	0.0	0.00	0.13	0.09	81
1	85	17.52						5.79		5.0	0.11	0.0	0.00	0.14	0.10	86
1	90							5.74		3.0	0.10	0.1	0.00	0.15	0.13	91
1	94	17.33						5.69		4.0	0.11	0.1	0.02	0.15	0.14	95
1	99							5.44		3.0	0.16	0.8	0.15	0.12	0.12	100
1	104	17.17						5.14		4.0	0.22	2.3	0.19	0.09	0.13	105
1	109							5.09		5.0	0.26	2.8	0.15	0.08	0.15	110
1	114	17.03						5.18		4.0	0.26	2.7	0.14	0.08	0.13	115
1	118							5.16		4.0	0.26	2.8	0.13	0.07	0.13	119
1	123	16.89						5.12		5.0	0.57 U	3.2	0.07	0.08	0.12	124
1	137							5.04		5.0	0.70 U	3.6	0.04	0.04	0.07	138
1	161	16.51						4.95 U		5.0	0.41	4.2	0.04	0.02	0.05	162
1	194							5.07		8.0	0.48	5.0	0.02	0.00	0.01	195
1	488	9.73	9.67	34.238	26.412	171.2				30.0	1.37	18.2	0.00			490

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG III — STATION 20

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT TYPE
27 58.0 N	160 1.0 E	01/08/73	1612 GMT									

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	27.00	27.00	34.586	22.408	542.1		4.85	105.9	3.0		0.0	0.02	0.02	0.01	0
1	20	26.97						4.92		2.0		0.0	0.01	0.03	0.01	20
1	40	20.62						5.93		3.0		0.0	0.06	0.05	0.00	40
1	60	18.99						5.67		3.0		0.3	0.00	0.05	0.02	60
1	70	18.51						5.48		3.0		0.1	0.00	0.07	0.03	71
1	80	18.28						5.40		3.0		0.0	0.00	0.11	0.07	81
1	85	18.15						5.38		3.0		0.0	0.00	0.17	0.12	86
1	90							5.25		3.0		0.7	0.05	0.19	0.14	91
1	95	17.69						5.24		4.0		1.6	0.09	0.16	0.16	96
1	100							5.25		4.0		2.0	0.06	0.15	0.16	101
1	105	17.23						5.25		4.0		2.9	0.07	0.14	0.14	106
1	110							5.34		4.0		2.6	0.06	0.12	0.14	111
1	115	17.00						5.26		4.0		3.0	0.02			116
1	120							5.29		4.0		3.1	0.02	0.06	0.13	121
1	125	16.78						5.29		4.0		3.4	0.07	0.07	0.09	126
1	139							5.29		5.0		3.5	0.04	0.04	0.06	140
1	164	16.47						5.32		5.0		4.2	0.00	0.02	0.02	165
1	199							5.29		5.0		4.9	0.02	0.00	0.01	200
1	498	9.73	9.67	34.243	26.416	171.1				30.0		18.2	0.00			500

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG III — STATION 21

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT TYPE
28 0.0 N	157 29.5 E	02/08/73	0617 GMT									

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	26.37	26.37	34.314	22.402	542.6		4.96	107.0	3.0		0.0	0.08	0.04	0.01	0
1	20	23.87						5.36		3.0		0.0	0.00	0.04	0.01	20
1	39	19.29						5.93		3.0		0.0	0.00	0.06	0.02	39
1	60	18.02						5.76		3.0		0.0	0.01	0.08	0.04	60
1	70	17.67						5.69		3.0		0.0	0.08	0.14	0.09	71
1	80	17.40						5.63		3.0		0.0	0.00	0.13	0.13	81
1	85	17.33						5.44		4.0		1.0	0.00	0.16	0.17	86
1	90							5.35		4.0		1.8	0.07	0.17	0.14	91
1	95	17.23						5.15		5.0		2.6	0.05	0.11	0.13	96
1	100							5.29		4.0		2.5	0.01	0.10	0.12	101
1	105	17.01						5.21		4.0		2.9	0.11	0.08	0.12	106
1	110							5.20		4.0		2.9	0.00	0.08	0.10	111
1	115	16.95						5.05		4.0		3.6	0.10	0.06	0.08	116
1	120							5.00		4.0		3.4	0.00	0.05	0.06	121
1	125	16.77						5.10		5.0		3.7	0.05	0.04	0.05	126
1	140							5.28		5.0		3.1	0.00	0.03	0.02	141
1	164	16.45						5.34		5.0		3.1	0.01	0.01	0.01	165
1	199							5.28		5.0		3.7	0.00	0.00	0.00	200
1	500	9.95	9.89	34.260	26.393	173.5				37.0		17.7	0.00			502

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG III — STATION 22

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
27 59.5 N	155 1.0 E	02/08/73	1731 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	1	27.65						4.86		2.0	0.13	0.3	0.05	0.02	0.01	1
1	21	27.64						4.81		2.0	0.12	0.3	0.00	0.03	0.01	21
1	41	23.39								2.0	0.09	0.3	0.00	0.05	0.01	41
1	61	20.96						5.50		2.0	0.09	0.3	0.00	0.06	0.02	61
1	71	20.30						5.33		2.0	0.08	0.3	0.00	0.07	0.03	72
1	76	20.18						5.32		2.0	0.08	0.2	0.00	0.06	0.03	77
1	81	19.80						5.25		2.0	0.09	0.2	0.00	0.08	0.06	82
1	86							5.21		2.0	0.09	0.2	0.00	0.07	0.07	87
1	91	19.45						5.20		3.0	0.10	0.2	0.00	0.09	0.09	92
1	96							5.33		3.0	0.10	0.1	0.07	0.11	0.09	97
1	101	18.78												0.11	0.11	102

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG III — STATION 23

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 0.0 N	152 31.5 E	03/08/73	0620 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	28.00	28.00	34.93	22.344	548.2		4.80	106.7	2.0	0.12	0.0	0.00	0.02	0.01	0
1	20	27.83						4.80		2.0	0.08	0.0	0.00	0.03	0.01	20
1	40	24.48						5.42		2.0	0.07	0.1	0.00	0.05	0.01	40
1	51	22.05						5.61		2.0	0.07	0.0	0.00	0.05	0.01	51
1	60	21.62						5.57		4.0	0.08	0.1	0.00	0.05	0.01	60
1	65	21.31						5.54		3.0	0.07	0.0	0.00	0.05	0.01	65
1	70	20.95						5.52		3.0	0.08	0.0	0.02	0.06	0.01	71
1	75													0.06	0.01	76
1	79							5.54		3.0	0.07	0.0	0.00	0.06	0.02	80
1	84	19.88						5.46		3.0	0.14	0.1	0.00	0.06	0.02	85
1	89													0.07	0.03	90
1	94							5.36		3.0	0.11	0.0	0.00	0.08	0.04	95
1	99	19.35						5.35		3.0	0.09	0.1	0.00	0.07	0.06	100
1	104													0.09	0.09	105
1	108							5.40		4.0	0.11	0.1	0.00	0.11	0.10	109
1	112	18.42						5.32		4.0	0.10	0.3	0.13	0.14	0.15	113
1	117													0.13	0.15	118
1	122							5.26		3.0	0.14	1.0	0.15	0.12	0.14	123
1	126	18.20						5.26		3.0	0.16	1.4	0.12	0.11	0.12	127
1	132													0.08	0.12	133
1	136							5.25		4.0	0.19	1.9	0.06	0.08	0.13	137
1	145	17.93						5.24		4.0	0.20	1.5	0.06	0.07	0.11	146
1	169							5.22		5.0		2.8	0.05	0.05	0.06	170
1	193									4.0		2.9	0.00	0.04	0.04	194
1	416 P	12.88	12.82	34.4[illegible]	26.036	207.9				16.0		10.2	0.00			418

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG III — STATION 24

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
28 0.0 N	150 0.0 E	03/08/73	1749 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	26.35	26.35	34.668	22.675	516.5		4.94	106.7	2.0		0.0	0.01	0.03	0.01	0
1	21	26.34						4.94		2.0		0.0	0.00	0.03	0.01	21
1	42	24.83						5.15		2.0		0.0	0.00	0.04	0.01	42
1	62	21.02						5.62		1.0		0.0	0.00	0.06	0.02	62
1	72	20.45						5.54		2.0		0.0	0.04	0.06	0.02	73
1	82	19.55						5.48		2.0		0.0	0.00	0.08	0.04	83
1	91	18.99						5.44		3.0		0.2	0.00	0.10	0.09	92
1	96							5.43		3.0		0.0	0.00	0.14	0.18	97
1	101	18.43						5.34		2.0		0.1	0.11	0.20	0.24	102
1	106							5.27		2.0		0.7	0.15	0.17	0.20	107
1	111	18.06						5.18		3.0		1.4	0.09	0.14	0.16	112
1	115							5.09		3.0		2.3	0.10	0.09	0.15	116
1	120	17.90						5.06		3.0		2.4	0.04	0.07	0.11	121
1	125							5.02		3.0		2.5	0.04	0.07	0.10	126
1	129	17.62						5.07		3.0		2.7	0.04	0.05	0.07	130
1	148							5.17		3.0		3.0	0.02	0.03	0.04	149
1	173	17.09						5.24		4.0		3.0	0.05	0.03	0.04	174
1	197							4.83		4.0		3.3	0.01	0.01	0.02	198
1	498	12.23	12.16	34.423	26.110	202.5				18.0		12.9	0.00			500

RV THOMAS WASHINGTON TASADAY EXPEDITION LEG III STATION 25

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT TYPE
28 0.0 N	147 32.0 E	04/08/73	0616 GMT	3301 m								

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	2	27.79	27.79	34.866	22.365	546.3		4.80	106.3	2.0	0.09	0.1	0.02	0.03	0.01	2
1	22	26.81						4.88		2.0	0.08	0.1	0.02	0.03	0.01	22
1	42	23.06						5.46		2.0	0.07	0.2	0.02	0.04	0.01	42
1	61	20.46						5.43		2.0	0.08	0.2	0.02	0.06	0.04	61
1	71	19.71						5.45		3.0	0.08	0.3	0.02	0.09	0.06	72
1	81	19.31						5.34		3.0	0.10	0.3	0.04	0.20	0.18	82
1	91	19.05						5.26		2.0	0.11	0.3	0.15	0.28	0.21	92
1	95							5.19		3.0	0.14	0.9	0.20	0.23	0.22	96
1	100	18.78						5.04		4.0	0.15	2.1	0.11	0.14	0.19	101
1	105							4.99		3.0	0.16	2.3	0.07	0.12	0.11	106
1	110	18.46						5.03		4.0	0.17	2.5	0.07	0.10	0.12	111
1	115							5.04		4.0	0.20	2.5	0.10	0.11	0.13	116
1	119	18.34						5.02		4.0	0.19	2.7	0.10	0.10	0.14	120
1	124							5.02		5.0	0.22	3.0	0.06	0.07	0.10	125
1	129	18.08						5.00		4.0	0.22	3.1	0.06	0.07	0.09	130
1	149							5.02		5.0	0.25	3.3	0.06	0.02	0.03	150
1	173	17.39						5.03		5.0	0.26	3.7	0.05	0.01	0.02	174
1	197							5.20		5.0	0.25	3.5	0.05	0.00	0.01	198
1	497	11.04	10.98	34.335	26.262	186.9				25.0	1.04	17.3	0.05			499

RV THOMAS WASHINGTON TASADAY EXPEDITION LEG III STATION 26

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT TYPE
28 3.5 N	146 16.0 E	04/08/73	1349 GMT									

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	1	26.61	26.61	34.587	22.533	530.2		4.90	106.3	1.0	0.16	0.1	0.08	0.03	0.01	1
1	26	23.46						5.36		2.0	0.19	0.2	0.00			26
1	52	21.05						5.49		2.0	0.06	0.2	0.00	0.06	0.03	52
1	72	20.64						5.32		2.0	0.07	0.1	0.00	0.09	0.04	73
1	76	20.43						5.33		2.0	0.09	0.1	0.00	0.08	0.06	77
1	81	20.15						5.33		2.0	0.05	0.1	0.00	0.09	0.06	82
1	86	20.00						5.22		2.0	0.08	0.1	0.00	0.11	0.09	87
1	91							5.24		2.0	0.15	0.1	0.00	0.19	0.19	92
1	96	19.47						5.23		2.0	0.16	0.4	0.05	0.28	0.25	97
1	101							5.20		3.0	0.10	0.6	0.08	0.25	0.21	102
1	105	19.20						5.15		2.0	0.09	1.2	0.06	0.18	0.21	106
1	110							5.09		3.0	0.13	1.6	0.06	0.13	0.16	111
1	115	18.87						5.04		3.0	0.16	1.9	0.05	0.10	0.09	116
1	121							5.04		3.0	0.17	1.9	0.03	0.07	0.10	122
1	131	18.50						5.11		3.0	0.18	2.0	0.01	0.04	0.09	132
1	150							4.88		4.0	0.22	3.5	0.04	0.02	0.02	151
1	175	17.57						5.15		4.0	0.22	3.1	0.02	0.01	0.03	176
1	199							4.61		4.0	0.26	3.8	0.01	0.00	0.01	201
1	496	11.42	11.36	34.375	26.224	190.9	1.790			27.0	1.15	18.1	0.00			498

TASADAY EXPEDITION

LEG IV

The primary mission of Leg IV was to study the flow of the Kuroshio Current over the Izu Ridge. The Ridge presents a major topographic obstacle to flow. The current's path over the Ridge was to be determined by tracking selected isotherms at 200 meters.

TABULATED DATA

Most of the stations on Leg IV consisted of STD lowerings to 1500 meters or less with 5 Nansen bottles on the wire. On some stations deep and shallow lowerings with Nansen bottles varying in number from five to 20 were also made. Salinity corrections to the STD data have been determined from comparison with the Nansen bottle data.

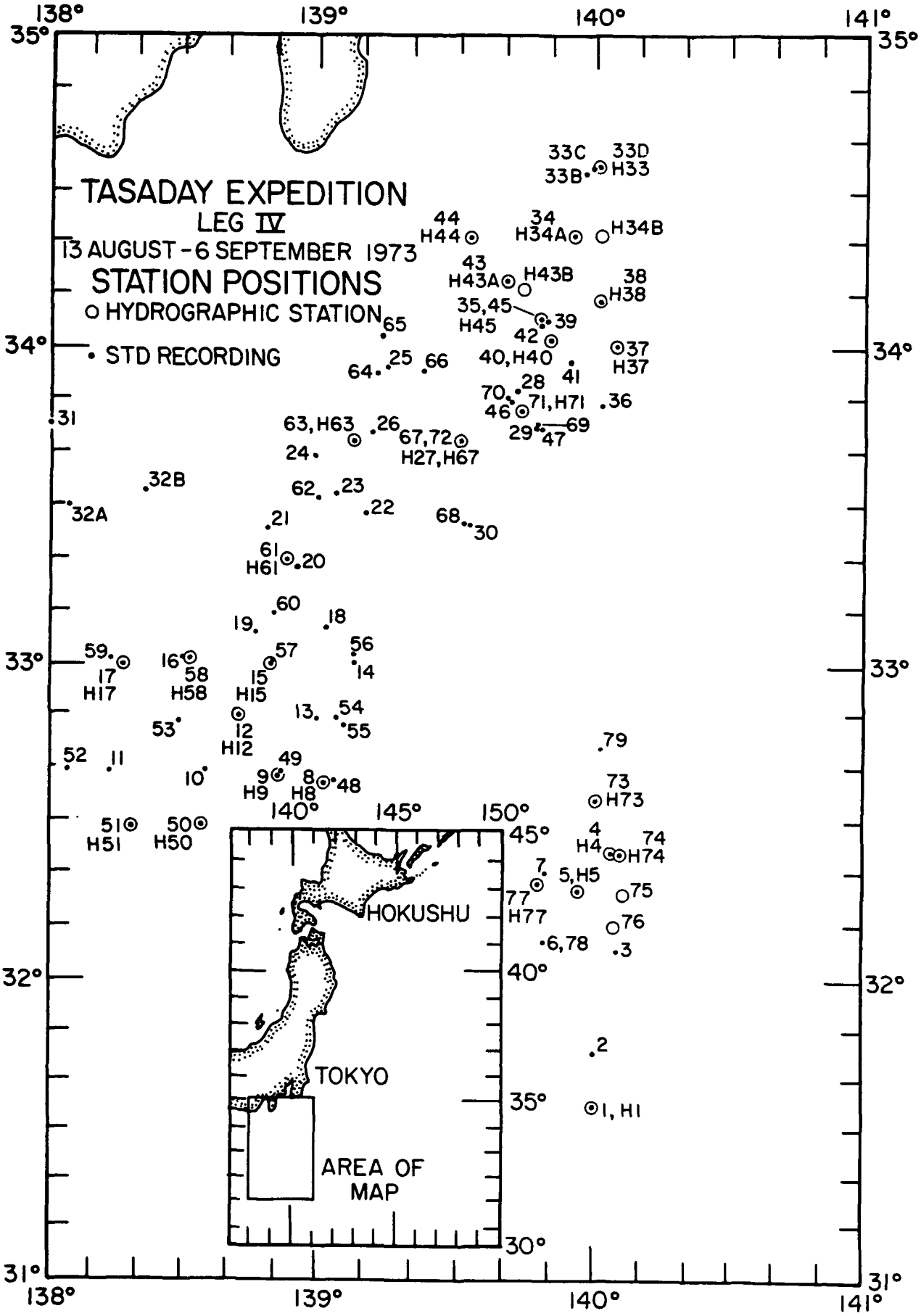
The STD data are tabulated at standard depths. Values in the shallow depths may differ from the hydrographic tabulations due to the length of time between the STD "start down" and the hydrographic "messenger" time.

Temperature, salinity, oxygen, phosphate and sillicate at observed depths are tabulated from the Nansen bottle casts.

PUBLICATIONS UTILIZING TASADAY EXPEDITION LEG IV DATA

Freitag, H. P., 1980. The structure and path of the Kuroshio over the Izu Ridge. Msc. Thesis, University of Washington, Seattle.

Taft, B. A. and P. Freitag, 1980. On the flow of the Kuroshio over the Izu Ridge. *in:* The Kuroshio, Proceedings of the Fourth CSK Symposium, Tokyo 1979, pp. 181-200.


TASADAY EXPEDITION
LEG IV
13 AUGUST - 6 SEPTEMBER 1973
STATION POSITIONS
○ HYDROGRAPHIC STATION
• STD RECORDING
HOKUSHU
TOKYO
AREA OF MAP
138°
139°
140°
141°
35°
34°
33°
32°
31°
145°
150°
45°
40°
30°

TASADAY EXPEDITION LEG IV

STATION POSITIONS

Station Number	Date 1973	Time GMT	Latitude N	Longitude E	Type of Data*
Shakedown	August 13	1927	34°38.0	140°45.5	S
1	17	0619	31°35.5	140°00.0	S
1		0728	31°35.5	140°00.0	H
2		1013	31°46.5	140°00.0	S
3		1432	32°06.5	140°05.5	S
4		1819	32°25.0	140°04.0	S
4		1850	32°25.0	140°04.0	H
5		2240	32°17.5	139°57.0	S
5	17	2352	32°17.5	139°57.0	H
6	18	0335	32°08.0	139°50.0	S
7		0649	32°21.0	139°50.0	S
8		1308	32°38.0	139°02.0	S
8		1412	32°38.0	139°02.0	H
9		1737	32°39.0	138°52.0	S
9		1858	32°39.0	138°52.0	H
10		2231	32°40.0	138°35.5	S
11	19	0350	32°39.5	138°14.5	S
12		0856	32°50.0	138°43.0	S
12		1052	32°50.0	138°43.0	H
13		1418	32°50.0	139°00.0	S
14		1706	33°00.5	139°08.5	S
15		2022	33°00.5	138°50.5	S
15		2157	33°00.5	138°50.5	H
16	20	0211	33°01.0	138°31.5	S
17		0653	32°59.5	138°18.0	S
17		0905	32°59.5	138°18.0	H
18		1754	33°07.5	139°02.0	S
19		2106	33°06.0	138°47.0	S
20	21	0030	33°19.0	138°55.5	S
21		0352	33°26.0	138°49.5	S
22		0746	33°29.0	139°11.0	S
23		1116	33°32.5	139°04.5	S
24		1414	33°39.5	138°59.5	S
25		2245	33°56.0	139°16.0	S
26	22	0755	33°44.0	139°12.5	S
27		1237	33°42.5	139°31.0	H
28		1451	33°51.0	139°44.0	S
29		1722	33°45.0	139°48.0	S
30		2100	33°27.0	139°33.0	S
31	24	0827	33°45.5	138°00.0	S

*S Salinity/Temperature/Depth Recorder

H Hydrographic

32A	August	24	1148	33°30.0	138°04.5	S
32B			1541	33°33.0	138°23.0	S
33B		26	1337	34°33.0	139°58.0	S
33C			1544	34°34.0	139°59.5	S
33D			1820	34°35.0	140°01.0	S
33			1945	34°35.0	140°01.0	H
34			2317	34°21.5	139°56.0	S
34A		27	0024	34°21.5	139°56.0	H
34B			0211	34°22.0	140°01.0	H
35			0440	34°05.5	139°49.0	S
36			0740	33°50.0	140°02.0	S
37			0930	34°00.5	140°05.5	S
37			1014	34°00.5	140°05.5	H
38			1345	34°09.5	140°01.5	S
38			1437	34°09.5	140°01.5	H
39			1919	34°05.5	139°49.5	S
40			2145	34°01.5	139°51.5	S
40			2237	34°01.5	139°51.5	H
41		28	0158	33°57.5	139°55.5	S
42			0454	34°04.5	139°49.0	S
43			0755	34°12.5	139°42.0	S
43A			0836	34°12.5	139°42.0	H
43B			0939	34°11.5	139°45.5	H
44			1137	34°21.0	139°34.0	S
44			1218	34°21.0	139°34.0	H
45			1610	34°05.5	139°49.0	S
45			1718	34°05.5	139°49.0	H
46			2136	33°50.0	139°42.0	S
47		29	0006	33°45.0	139°48.5	S
48			0839	32°38.5	139°04.0	S
49			1125	32°39.5	138°52.0	S
50			1428	32°39.5	138°35.0	S
50			1606	32°39.5	138°35.0	H
51			2032	32°39.0	138°20.0	S
51			2218	32°39.0	138°20.0	H
52		30	0332	32°39.5	138°03.5	S
53			0807	32°49.0	138°29.5	S
54			1209	32°50.0	139°05.0	S
55			1452	32°49.0	139°06.0	S
56			1748	33°02.0	139°09.0	S
57			2102	33°01.0	138°51.0	S
58		31	0046	33°01.0	138°33.0	S
58			0228	33°01.0	138°33.0	H
59			0909	33°01.0	138°16.0	S
60			1451	33°10.0	138°51.0	S
61			1748	33°20.0	138°54.0	S
61			1903	33°20.0	138°54.0	H
62			2256	33°32.0	139°00.5	S
63	September	01	0208	33°42.5	139°08.5	S
63			0312	33°42.5	139°08.5	H

64	September 01	0617	33°55.0	139°14.0	S
65		0807	34°02.0	139°14.0	S
66		1035	33°55.5	139°24.0	S
67		1336	33°42.5	139°31.0	S
67		1441	33°42.5	139°31.0	H
68		1826	33°27.0	139°32.0	S
69		2155	33°45.5	139°48.5	S
70	02	0342	33°50.5	139°41.5	S
71		0551	33°48.0	139°44.5	S
71		0647	33°48.0	139°44.5	H
72		0901	33°42.5	139°31.0	S
73	05	0954	32°35.0	140°00.5	H
73		1133	32°35.0	140°00.5	S
74		1818	32°25.0	140°06.0	S
74		1927	32°25.0	140°06.0	H
75		2256	32°17.0	140°07.0	H
76	06	0507	32°11.0	140°05.0	H
77		0822	32°19.0	139°48.5	S
77		0933	32°19.0	139°48.5	H
78		1200	32°08.0	139°50.0	S
79		1707	32°45.0	140°01.5	S

PERSONNEL

TASADAY EXPEDITION, LEG IV

SHIP'S CAPTAIN

Newbegin, Robert C.

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

Taft, Bruce A.	Chief Scientist, University of Washington
Alexander, C.M.	Graduate Student, SIO
Bernard, H.R.	University of West Virginia
Brennen, Robert E.	Marine Technician, SIO
Burgener, Bruce C.	Staff Research Associate, SIO
Butler, Charles M.	Electronic Technician, SIO
Dayton, Jerome C.	Assistant Programmer, AMES
*Endo, M.	Graduate Student, University of Tokyo
Graham, Jery B.	Electronic Technician, SIO
Killworth, P.B.	Cambridge University
Koplik, C.M.	Graduate Student, Harvard University
Muus, David A.	Resident Technician, SIO
Oleinik, Miriam K.	Programmer, SIO
Ott, John D.	Programmer, SIO
Patla, Susan M.	Marine Technician, SIO
**Robinson, A.R.	Harvard University
Schedvin, J.C.	Graduate Student, SIO
Solomon, H.	University of Tokyo
Vega, L.A.	Graduate Student, SIO
Weller, R.A.	Graduate Student, SIO

*Hachijo Jima to Miyake Jima
**Yokohama to Hachijo Jima

STD SHAKEDOWN RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
34 38.0 N	140 45.5 E	13/08/73	1927 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	29.05	29.05	34.16	21.419	636.8	0.000	0
10	28.72	28.72	34.14	21.515	628.1	0.063	10
20	27.84	27.84	34.37	21.977	584.3	0.124	20
30	27.02	27.01	34.64	22.445	540.0	0.180	30
50	24.61	24.60	34.66	23.207	467.9	0.281	50
75	22.62	22.60	34.71	23.828	409.6	0.391	76
100	19.74	19.72	34.66	24.577	339.0	0.484	101
125	17.82	17.80	34.67	25.070	292.6	0.563	126
150	16.81	16.79	34.65	25.297	271.7	0.634	151
200	14.59	14.56	34.55	25.721	232.4	0.760	202
250	11.89	11.86	34.45	26.189	188.3	0.865	252
300	10.16	10.12	34.39	26.455	163.4	0.953	302
400	6.44	6.40	34.23	26.892	121.0	1.095	403
500	5.67	5.63	34.29	27.038	107.8	1.209	504
600	4.79	4.74	34.32	27.166	95.9	1.311	605
700	4.14	4.09	34.37	27.276	85.6	1.402	706
800	3.77	3.71	34.40	27.338	79.9	1.485	807
1000	3.17	3.10	34.45	27.437	71.0	1.636	1009
1200	2.84	2.76	34.50	27.508	64.9	1.772	1212

TASADAY EXPEDITION LEG IV STD 1

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
31 35.5 N	140 00.0 E	17/08/73	0619 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	27.05	27.05	34.61	22.410	541.9	0.000	0
10	26.99	26.99	34.61	22.430	540.5	0.054	10
20	25.95	25.95	34.61	22.758	509.6	0.107	20
30	25.21	25.20	34.65	23.017	485.2	0.156	30
50	23.64	23.63	34.67	23.502	439.7	0.249	50
75	21.42	21.41	34.75	24.194	374.6	0.351	76
100	20.55	20.53	34.78	24.454	350.7	0.441	101
125	19.88	19.86	34.78	24.633	334.6	0.527	126
150	19.30	19.27	34.79	24.792	320.3	0.609	151
200	17.89	17.86	34.77	25.132	289.4	0.761	201
250	16.68	16.64	34.72	25.385	266.7	0.900	252
300	15.33	15.28	34.66	25.648	242.8	1.028	302
400	12.78	12.73	34.49	26.053	205.8	1.252	403
500	10.75	10.69	34.39	26.357	177.8	1.444	504
600	9.26	9.19	34.33	26.563	158.8	1.612	605
700	6.54	6.47	34.24	26.891	125.8	1.754	706
800	5.51	5.44	34.29	27.061	109.4	1.872	807
1000	3.85	3.77	34.35	27.292	86.2	2.068	1009
1200	3.22	3.13	34.42	27.410	75.2	2.229	1211
1384	2.51	2.42	34.52	27.553	60.7	2.354	1398

STD 2 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
31 46.5 N	140 00.0 E	17/08/73	1013 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	27.39	27.39	34.66	22.339	548.7	0.000	0
10	27.34	27.34	34.66	22.356	547.6	0.055	10
20	26.93	26.93	34.66	22.487	535.4	0.109	20
30	26.36	26.35	34.64	22.653	520.0	0.162	30
50	23.91	23.90	34.66	23.415	448.0	0.259	50
75	21.78	21.77	34.67	24.034	389.9	0.363	76
100	20.53	20.51	34.80	24.475	348.8	0.456	101
125	19.73	19.71	34.78	24.672	330.8	0.541	126
150	19.04	19.01	34.79	24.858	313.9	0.621	151
200	18.17	18.14	34.79	25.079	294.6	0.773	201
250	17.03	16.99	34.75	25.326	272.5	0.915	252
300	16.06	16.01	34.70	25.515	255.8	1.047	302
400	13.32	13.26	34.53	25.976	213.4	1.282	403
500	10.46	10.40	34.35	26.376	175.7	1.476	504
600	8.02	7.96	34.28	26.715	142.9	1.636	605
700	6.15	6.09	34.28	26.973	117.4	1.766	706
800	5.29	5.22	34.28	27.079	107.3	1.878	807
1000	3.71	3.64	34.36	27.314	83.8	2.069	1009
1200	3.12	3.03	34.44	27.435	72.5	2.226	1211
1369	2.60	2.51	34.50	27.530	63.2	2.340	1383

TASADAY EXPEDITION LEG IV STD 3

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
32 06.5 N	140 05.5 E	17/08/73	1432 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	27.62	27.62	34.64	22.250	557.3	0.000	0
10	27.62	27.62	34.64	22.250	557.7	0.056	10
20	27.10	27.10	34.64	22.418	542.1	0.111	20
30	26.21	26.20	34.65	22.708	514.8	0.164	30
50	23.23	23.22	34.66	23.614	429.0	0.258	50
75	21.27	21.26	34.76	24.243	369.9	0.358	76
100	20.13	20.11	34.79	24.573	339.3	0.446	101
125	19.50	19.48	34.80	24.747	323.7	0.529	126
150	18.96	18.93	34.80	24.886	311.2	0.609	151
200	18.03	18.00	34.80	25.121	290.5	0.759	201
250	17.28	17.24	34.77	25.282	276.8	0.901	252
300	16.37	16.32	34.73	25.467	260.5	1.035	302
400	14.12	14.06	34.59	25.858	225.3	1.278	403
500	11.33	11.27	34.40	26.260	187.5	1.485	504
600	9.30	9.23	34.30	26.533	161.7	1.659	605
700	6.84	6.77	34.28	26.883	127.0	1.804	706
800	5.46	5.39	34.29	27.067	108.7	1.921	807
1000	3.90	3.82	34.35	27.287	86.8	2.117	1009
1200	3.14	3.05	34.44	27.433	72.8	2.277	1212
1500	2.40	2.30	34.53	27.571	59.3	2.475	1515

STD 4 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
32 25.0 N	140 04.0 E	17/08/73	1819 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	27.12	27.12	34.63	22.403	542.6	0.000	0
10	27.10	27.10	34.62	22.402	543.1	0.054	10
20	26.77	26.77	34.64	22.523	532.0	0.108	20
30	25.63	25.62	34.63	22.873	499.0	0.160	30
50	23.21	23.20	34.73	23.673	423.4	0.252	50
75	22.42	22.40	34.75	23.915	401.3	0.355	76
100	21.04	21.02	34.81	24.345	361.2	0.450	101
125	20.03	20.01	34.83	24.631	334.8	0.537	126
150	19.49	19.46	34.80	24.751	324.3	0.620	151
200	18.34	18.30	34.82	25.060	296.5	0.775	201
250	17.36	17.32	34.78	25.271	277.9	0.918	252
300	16.99	16.94	34.78	25.361	270.9	1.056	302
400	14.69	14.63	34.62	25.760	234.9	1.309	403
500	11.60	11.54	34.41	26.219	191.7	1.522	504
600	9.56	9.49	34.31	26.499	165.3	1.700	605
700	7.03	6.96	34.27	26.849	130.5	1.848	706
800	5.28	5.21	34.27	27.072	107.9	1.967	807
1000	3.99	3.91	34.36	27.286	87.2	2.162	1009
1200	3.05	2.97	34.45	27.449	71.0	2.321	1212

TASADAY EXPEDITION LEG IV STD 5

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
32 17.5 N	139 57.0 E	17/08/73	2240 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	27.45	27.45	34.63	22.297	552.7	0.000	0
10	27.45	27.45	34.63	22.298	553.1	0.055	10
20	27.24	27.24	34.61	22.351	548.5	0.110	20
30	26.58	26.57	34.60	22.554	529.5	0.164	30
50	22.96	22.95	34.68	23.707	420.1	0.259	50
75	21.71	21.70	34.80	24.152	378.6	0.359	76
100	20.77	20.75	34.78	24.395	356.4	0.451	101
125	19.73	19.71	34.81	24.695	328.7	0.537	126
150	19.07	19.04	34.80	24.859	313.9	0.617	151
200	18.04	18.01	34.79	25.111	291.5	0.768	201
250	17.45	17.41	34.77	25.241	280.7	0.911	252
300	15.93	15.88	34.69	25.537	253.7	1.045	302
400	13.65	13.59	34.54	25.917	219.3	1.281	403
500	11.00	10.94	34.39	26.312	182.2	1.482	504
600	8.84	8.77	34.31	26.614	153.5	1.650	605
700	6.23	6.17	34.27	26.955	119.3	1.786	706
800	4.91	4.84	34.31	27.146	100.2	1.896	807
1000	3.76	3.69	34.38	27.325	82.9	2.079	1009
1200	3.11	3.02	34.45	27.444	71.7	2.234	1212
1345	2.71	2.62	34.49	27.512	65.0	2.333	1358

STD 6 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
32 08.0 N	139 50.0 E	18/08/73	0335 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	27.45	27.45	34.57	22.252	557.0	0.000	0
10	27.10	27.10	34.58	22.372	546.0	0.055	10
20	26.91	26.91	34.61	22.456	538.4	0.109	20
30	25.89	25.88	34.65	22.807	505.3	0.162	30
50	24.71	24.70	34.66	23.177	470.8	0.259	50
75	22.44	22.42	34.77	23.925	400.4	0.368	76
100	20.88	20.86	34.79	24.373	358.5	0.463	101
125	20.16	20.14	34.83	24.597	338.0	0.550	126
150	19.57	19.54	34.80	24.730	326.3	0.633	151
200	18.14	18.11	34.80	25.094	293.2	0.788	201
250	17.21	17.17	34.77	25.299	275.2	0.930	252
300	16.14	16.09	34.71	25.504	256.9	1.063	302
400	13.82	13.76	34.55	25.890	222.0	1.302	403
500	11.15	11.09	34.42	26.309	182.7	1.505	504
600	8.61	8.55	34.31	26.650	149.8	1.671	605
700	6.37	6.31	34.28	26.945	120.4	1.806	706
800	5.02	4.95	34.31	27.134	101.6	1.917	807
1000	3.87	3.79	34.37	27.306	85.0	2.104	1009
1200	3.20	3.11	34.45	27.436	72.7	2.262	1212
1281	3.08	2.99	34.46	27.455	71.1	2.320	1294

TASADAY EXPEDITION LEG IV STD 7

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
32 21.0 N	139 50.0 E	18/08/73	0649 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	27.83	27.83	34.59	22.144	567.4	0.000	0
10	27.76	27.76	34.60	22.175	564.9	0.057	10
20	27.45	27.45	34.63	22.298	553.5	0.113	20
30	26.74	26.73	34.63	22.526	532.2	0.167	30
50	23.54	23.53	34.74	23.584	431.9	0.263	50
75	21.96	21.95	34.79	24.075	386.0	0.365	76
100	20.65	20.63	34.82	24.458	350.4	0.458	101
125	20.30	20.28	34.82	24.552	342.3	0.544	126
150	19.61	19.58	34.82	24.735	325.8	0.628	151
200	18.79	18.75	34.82	24.947	307.3	0.786	201
250	17.72	17.68	34.78	25.184	286.3	0.934	252
300	16.77	16.72	34.77	25.405	266.6	1.073	302
400	14.66	14.60	34.62	25.767	234.3	1.323	403
500	12.54	12.47	34.50	26.110	202.9	1.542	504
600	9.23	9.16	34.37	26.599	155.4	1.721	605
700	6.79	6.72	34.30	26.905	124.8	1.861	706
800	5.16	5.09	34.30	27.110	104.1	1.975	807
1000	3.59	3.52	34.39	27.349	80.2	2.160	1009
1119	3.44	3.36	34.41	27.381	77.9	2.254	1130

STD 8 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
32 38.0 N	139 02.0 E	18/08/73	1308 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.41	28.41	34.52	21.902	590.6	0.000	0
10	28.40	28.40	34.52	21.906	590.7	0.059	10
20	28.31	28.31	34.53	21.943	587.5	0.118	20
30	27.62	27.61	34.54	22.177	565.7	0.176	30
50	26.08	26.07	34.74	22.818	505.2	0.283	50
75	24.21	24.19	34.70	23.358	454.6	0.403	76
100	22.81	22.79	34.80	23.844	409.2	0.511	101
125	21.98	21.96	34.81	24.087	386.9	0.610	126
150	20.97	20.94	34.83	24.382	359.7	0.704	151
200	19.39	19.35	34.83	24.802	321.3	0.874	201
250	18.87	18.83	34.81	24.922	311.6	1.032	252
300	17.62	17.57	34.81	25.233	283.4	1.181	302
400	15.93	15.87	34.72	25.563	254.5	1.450	403
500	13.93	13.86	34.57	25.885	225.5	1.690	504
600	10.81	10.74	34.37	26.333	182.5	1.894	605
700	8.61	8.53	34.30	26.643	152.3	2.061	706
800	6.26	6.19	34.28	26.960	120.2	2.197	807
1000	3.76	3.69	34.39	27.333	82.2	2.400	1009
1172	3.22	3.14	34.45	27.434	72.7	2.533	1183

TASADAY EXPEDITION LEG IV STD 9

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
32 39.0 N	138 52.0 E	18/08/73	1737 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.00	28.00	34.56	22.066	574.8	0.000	0
10	27.97	27.97	34.57	22.084	573.6	0.057	10
20	27.98	27.98	34.57	22.082	574.3	0.115	20
30	27.94	27.93	34.56	22.088	574.2	0.172	30
50	25.81	25.80	34.61	22.803	506.6	0.280	50
75	23.32	23.30	34.76	23.665	425.2	0.397	76
100	22.44	22.42	34.82	23.964	397.7	0.500	101
125	21.52	21.50	34.82	24.223	373.9	0.596	126
150	20.92	20.89	34.81	24.380	359.8	0.688	151
200	19.46	19.42	34.81	24.768	324.5	0.859	201
250	18.53	18.49	34.81	25.007	303.4	1.016	252
300	17.59	17.54	34.81	25.240	282.7	1.162	302
400	15.68	15.62	34.69	25.597	251.1	1.429	403
500	13.29	13.22	34.53	25.985	215.4	1.663	504
600	10.21	10.14	34.34	26.413	174.1	1.857	605
700	8.01	7.94	34.25	26.694	146.6	2.018	706
800	6.06	5.99	34.29	26.993	116.8	2.149	807
1000	3.95	3.87	34.37	27.298	85.9	2.352	1009
1200	3.33	3.24	34.43	27.408	75.7	2.514	1212
1500	2.57	2.47	34.53	27.557	61.3	2.719	1515

STD 10 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
32 40.0 N	138 35.5 E	18/08/73	2231 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.05	28.05	34.57	22.057	575.7	0.000	0
10	28.03	28.03	34.58	22.072	574.7	0.058	10
20	28.03	28.03	34.58	22.073	575.1	0.115	20
30	28.01	28.00	34.57	22.073	575.6	0.173	30
50	27.40	27.39	34.60	22.294	555.3	0.286	50
75	24.66	24.64	34.70	23.224	467.4	0.413	76
100	22.87	22.85	34.78	23.811	412.3	0.523	101
125	21.97	21.95	34.83	24.105	385.2	0.623	126
150	21.17	21.14	34.82	24.320	365.7	0.717	151
200	19.38	19.34	34.80	24.781	323.2	0.889	201
250	18.24	18.20	34.82	25.087	295.7	1.044	252
300	17.31	17.26	34.80	25.300	276.9	1.187	302
400	15.83	15.77	34.71	25.578	253.0	1.452	403
500	13.23	13.16	34.50	25.974	216.4	1.687	504
600	9.83	9.76	34.30	26.446	170.6	1.880	605
700	7.87	7.80	34.25	26.715	144.4	2.038	706
800	6.65	6.57	34.30	26.925	124.3	2.172	807
1000	4.44	4.36	34.34	27.223	94.1	2.390	1009
1200	3.42	3.33	34.42	27.391	77.5	2.562	1212
1500	2.71	2.60	34.50	27.521	65.2	2.776	1515

TASADAY EXPEDITION LEG IV STD 11

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
32 39.5 N	138 14.5 E	19/08/73	0350 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.33	28.33	34.58	21.973	583.7	0.000	0
10	28.29	28.29	34.57	21.979	583.6	0.058	10
20	28.14	28.14	34.58	22.037	578.6	0.116	20
30	28.11	28.10	34.58	22.047	578.0	0.174	30
50	26.55	26.54	34.54	22.520	533.7	0.285	50
75	23.91	23.89	34.74	23.477	443.2	0.408	76
100	22.69	22.67	34.75	23.840	409.5	0.514	101
125	21.70	21.68	34.78	24.142	381.6	0.613	126
150	20.69	20.66	34.80	24.435	354.6	0.705	151
200	19.13	19.09	34.81	24.853	316.3	0.873	201
250	18.09	18.05	34.79	25.101	294.3	1.026	252
300	17.00	16.95	34.77	25.350	271.9	1.167	302
400	15.26	15.20	34.66	25.667	244.2	1.425	403
500	12.72	12.65	34.46	26.044	209.3	1.652	504
600	9.49	9.42	34.24	26.455	169.3	1.841	605
700	7.47	7.40	34.21	26.741	141.4	1.996	706
800	6.27	6.20	34.23	26.919	124.1	2.129	807
1000	4.48	4.40	34.33	27.211	95.4	2.349	1009
1200	3.42	3.33	34.42	27.391	77.5	2.521	1212
1500	2.78	2.67	34.50	27.515	66.0	2.737	1515

STD 12 RV THOMAS WASHINGTON TASADAY EXPEDITION LEG IV

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
32 50.0 N	138 43.0 E	19/08/73	0856 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.47	28.47	34.54	21.897	591.0	0.000	0
10	28.46	28.46	34.54	21.901	591.1	0.059	10
20	27.99	27.99	34.50	22.026	579.6	0.118	20
30	27.50	27.49	34.53	22.208	562.7	0.175	30
50	25.64	25.63	34.68	22.909	496.5	0.281	50
75	23.19	23.17	34.70	23.657	426.0	0.396	76
100	22.31	22.29	34.79	23.978	396.3	0.499	101
125	21.40	21.38	34.82	24.256	370.8	0.595	126
150	20.33	20.30	34.82	24.546	343.9	0.684	151
200	18.77	18.73	34.79	24.929	309.0	0.847	201
250	17.92	17.88	34.78	25.135	291.0	0.997	252
300	16.99	16.94	34.77	25.353	271.7	1.138	302
400	15.25	15.19	34.64	25.654	245.4	1.396	403
500	12.52	12.45	34.46	26.083	205.4	1.622	504
600	9.85	9.78	34.29	26.435	171.6	1.810	605
700	7.80	7.73	34.20	26.686	147.1	1.970	706
800	5.81	5.74	34.23	26.977	117.8	2.102	807
1000	4.20	4.12	34.33	27.241	91.9	2.312	1009
1200	3.38	3.29	34.42	27.395	77.0	2.481	1212
1500	2.62	2.52	34.51	27.537	63.4	2.691	1515

STD 13

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
32 50.0 N	139 00.0 E	19/08/73	1418 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.38	28.38	34.55	21.934	587.5	0.000	0
10	28.38	28.38	34.55	21.935	587.9	0.059	10
20	28.38	28.38	34.55	21.935	588.3	0.118	20
30	28.35	28.34	34.55	21.946	587.7	0.176	30
50	24.75	24.74	34.67	23.173	471.2	0.282	50
75	23.33	23.31	34.83	23.715	420.4	0.394	76
100	22.23	22.21	34.81	24.016	392.7	0.495	101
125	21.32	21.30	34.82	24.278	368.7	0.591	126
150	20.53	20.50	34.82	24.493	349.1	0.680	151
200	19.30	19.26	34.82	24.817	319.8	0.847	201
250	17.97	17.93	34.75	25.100	294.4	1.001	252
300	16.90	16.85	34.77	25.374	269.6	1.142	302
400	15.53	15.47	34.69	25.630	247.8	1.401	403
500	13.78	13.71	34.57	25.916	222.4	1.636	504
600	11.19	11.11	34.38	26.273	188.6	1.841	605
700	8.40	8.32	34.26	26.644	151.9	2.012	706
800	6.83	6.75	34.24	26.854	131.3	2.153	807
1000	3.94	3.86	34.36	27.291	86.6	2.371	1009
1200	3.21	3.12	34.44	27.427	73.6	2.531	1212
1500	2.51	2.41	34.52	27.554	61.4	2.734	1515

STD 14 RV THOMAS WASHINGTON TASADAY EXPEDITION LEG IV

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 00.5 N	139 08.5 E	19/08/73	1706 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.37	28.37	34.54	21.930	587.9	0.000	0
10	28.37	28.37	34.54	21.931	588.3	0.059	10
20	28.37	28.37	34.54	21.931	588.7	0.118	20
30	28.36	28.35	34.54	21.935	588.8	0.177	30
50	26.15	26.14	34.75	22.803	506.6	0.286	50
75	24.73	24.71	34.85	23.316	458.6	0.407	76
100	23.40	23.38	34.81	23.681	424.8	0.517	101
125	22.12	22.10	34.84	24.071	388.5	0.619	126
150	21.02	20.99	34.83	24.368	361.0	0.712	151
200	19.08	19.04	34.84	24.889	312.9	0.881	201
250	18.10	18.06	34.81	25.114	293.1	1.032	252
300	17.06	17.01	34.77	25.336	273.3	1.174	302
400	15.29	15.23	34.68	25.676	243.4	1.432	403
500	12.74	12.67	34.49	26.063	207.5	1.658	504
600	9.54	9.47	34.30	26.494	165.7	1.844	605
700	7.37	7.30	34.29	26.818	134.0	1.994	706
800	5.88	5.81	34.30	27.024	113.6	2.118	807
1000	4.13	4.05	34.36	27.272	88.8	2.320	1009
1200	3.19	3.10	34.45	27.437	72.6	2.482	1212

STD 15

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 00.5 N	138 50.5 E	19/08/73	2022 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.33	28.33	34.54	21.943	586.6	0.000	0
10	28.32	28.32	34.54	21.947	586.7	0.059	10
20	28.32	28.32	34.54	21.948	587.1	0.117	20
30	28.32	28.31	34.54	21.949	587.5	0.176	30
50	24.52	24.51	34.53	23.136	474.7	0.282	50
75	22.97	22.95	34.67	23.698	422.0	0.394	76
100	22.07	22.05	34.76	24.023	392.0	0.496	101
125	21.15	21.13	34.84	24.339	362.8	0.591	126
150	20.19	20.16	34.80	24.568	341.9	0.679	151
200	18.56	18.52	34.82	25.005	301.7	0.839	201
250	17.58	17.54	34.80	25.233	281.6	0.985	252
300	16.69	16.64	34.77	25.423	264.8	1.122	302
400	14.78	14.72	34.62	25.741	236.8	1.373	403
500	12.24	12.17	34.43	26.114	202.2	1.592	504
600	9.41	9.34	34.26	26.484	166.4	1.777	605
700	7.11	7.04	34.21	26.791	136.1	1.928	706
800	5.28	5.21	34.27	27.072	107.9	2.050	807
1000	3.81	3.74	34.38	27.320	83.5	2.241	1009
1200	3.12	3.03	34.45	27.443	71.8	2.397	1212
1500	2.59	2.49	34.51	27.539	63.0	2.599	1516

STD 16 RV THOMAS WASHINGTON TASADAY EXPEDITION LEG IV

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 01.0 N	138 31.5 E	20/08/73	0211 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.67	28.67	34.55	21.838	596.6	0.000	0
10	28.53	28.53	34.54	21.878	593.3	0.059	10
20	28.50	28.50	34.55	21.896	592.1	0.119	20
30	28.31	28.30	34.56	21.967	585.8	0.178	30
50	25.96	25.95	34.76	22.870	500.2	0.286	50
75	23.73	23.71	34.79	23.568	434.5	0.403	76
100	22.83	22.81	34.84	23.868	406.9	0.508	101
125	21.67	21.65	34.83	24.189	377.2	0.606	126
150	20.46	20.43	34.85	24.534	345.1	0.697	151
200	19.06	19.02	34.82	24.879	313.9	0.861	201
250	18.10	18.06	34.81	25.114	293.1	1.013	252
300	16.91	16.86	34.76	25.364	270.6	1.154	302
400	14.27	14.21	34.58	25.819	229.1	1.404	403
500	11.00	10.94	34.35	26.281	185.2	1.611	504
600	8.38	8.32	34.23	26.622	152.1	1.780	605
700	6.78	6.71	34.25	26.867	128.4	1.920	706
800	5.31	5.24	34.25	27.053	109.7	2.039	807
1000	3.99	3.91	34.35	27.278	87.9	2.237	1009
1200	3.31	3.22	34.44	27.417	74.7	2.399	1212
1500	2.71	2.60	34.50	27.521	65.1	2.609	1516

STD 17

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
32 59.5 N	138 18.0 E	20/08/73	0653 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.81	28.81	34.51	21.762	604.0	0.000	0
10	28.67	28.67	34.51	21.809	599.9	0.060	10
20	28.51	28.51	34.53	21.878	593.8	0.120	20
30	28.52	28.51	34.56	21.898	592.4	0.179	30
50	26.49	26.48	34.56	22.554	530.5	0.291	50
75	24.54	24.52	34.78	23.320	458.2	0.415	76
100	22.91	22.89	34.75	23.777	415.5	0.524	101
125	21.43	21.41	34.80	24.232	373.0	0.623	126
150	20.43	20.40	34.83	24.527	345.8	0.713	151
200	18.70	18.66	34.81	24.962	305.9	0.876	201
250	17.40	17.36	34.76	25.246	280.3	1.022	252
300	16.32	16.27	34.72	25.471	260.1	1.157	302
400	13.82	13.76	34.53	25.874	223.5	1.399	403
500	11.56	11.50	34.43	26.242	189.5	1.606	504
600	8.52	8.46	34.25	26.616	152.8	1.777	605
700	7.09	7.02	34.30	26.865	129.1	1.918	706
800	5.21	5.14	34.27	27.080	107.0	2.036	807
1000	3.91	3.83	34.37	27.302	85.5	2.228	1009
1200	3.18	3.09	34.46	27.445	71.7	2.385	1212
1500	2.67	2.56	34.52	27.541	63.2	2.588	1515

STD 18 RV THOMAS WASHINGTON TASADAY EXPEDITION LEG IV

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 07.5 N	139 02.0 E	20/08/73	1754 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.62	28.62	34.54	21.847	595.8	0.000	0
10	28.61	28.61	34.55	21.859	595.1	0.060	10
20	28.61	28.61	34.54	21.852	596.3	0.119	20
30	28.44	28.43	34.53	21.902	592.0	0.179	30
50	26.74	26.73	34.48	22.414	543.8	0.292	50
75	24.25	24.23	34.76	23.392	451.4	0 417	76
100	22.90	22.88	34.77	23.795	413.8	0.525	101
125	21.72	21.70	34.83	24.175	378.5	0.624	126
150	20.79	20.76	34.84	24.438	354.3	0.715	151
200	19.09	19.05	34.84	24.886	313.2	0.882	201
250	17.89	17.85	34.81	25.165	288.1	1.033	252
300	16.71	16.66	34.75	25.403	266.7	1.171	302
400	14.58	14.52	34.63	25.792	231.9	1.421	403
500	11.85	11.78	34.47	26.219	191.9	1.632	504
600	9.04	8.97	34.28	26.559	158.9	1.808	605
700	7.43	7.36	34.32	26.833	132.7	1.954	706
800	5.41	5.34	34.28	27.065	108.8	2.074	807
1000	4.07	3.99	34.37	27.286	87.4	2.271	1009
1200	3.34	3.25	34.44	27.415	75.1	2.433	1212
1500	2.59	2.49	34.53	27.555	61.5	2.638	1516

STD 19

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 06.0 N	138 47.0 E	20/08/73	2106 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.62	28.62	34.55	21.855	595.1	0.000	0
10	28.61	28.61	34.55	21.859	595.1	0.060	10
20	28.59	28.59	34.56	21.874	594.2	0.119	20
30	28.49	28.48	34.55	21.900	592.1	0.178	30
50	27.30	27.29	34.63	22.349	550.1	0.293	50
75	24.73	24.71	34.74	23.233	466.6	0.420	76
100	22.80	22.78	34.81	23.854	408.2	0.529	101
125	21.57	21.55	34.82	24.209	375.3	0.627	126
150	20.62	20.59	34.80	24.453	352.8	0.718	151
200	18.62	18.58	34.80	24.974	304.7	0.882	201
250	17.51	17.47	34.78	25.234	281.4	1.029	252
300	16.03	15.98	34.72	25.537	253.7	1.163	302
400	13.58	13.52	34.57	25.954	215.7	1.397	403
500	10.45	10.39	34.33	26.362	176.9	1.594	504
600	8.44	8.38	34.31	26.676	147.2	1.756	605
700	6.84	6.77	34.30	26.898	125.6	1.892	706
800	5.15	5.08	34.29	27.103	104.7	2.007	807
1000	3.83	3.76	34.37	27.310	84.5	2.196	1009
1200	3.24	3.15	34.45	27.432	73.2	2.354	1212
1500	2.68	2.57	34.51	27.532	64.1	2.560	1516

STD 20 RV THOMAS WASHINGTON TASADAY EXPEDITION LEG IV

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 19.0 N	138 55.5 E	21/08/73	0030 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.40	28.40	33.94	21.469	632.0	0.000	0
10	28.29	28.29	34.14	21.656	614.5	0.062	10
20	28.28	28.28	34.35	21.818	599.5	0.123	20
30	28.12	28.11	34.48	21.969	585.5	0.182	30
50	26.32	26.31	34.57	22.615	524.7	0.293	50
75	25.06	25.04	34.71	23.111	478.3	0.419	76
100	23.20	23.18	34.80	23.732	419.9	0.531	101
125	22.51	22.48	34.81	23.938	401.2	0.634	126
150	21.08	21.05	34.78	24.314	366.2	0.730	151
200	18.85	18.81	34.80	24.917	310.2	0.899	201
250	16.56	16.52	34.69	25.390	266.2	1 043	252
300	14.66	14.61	34.60	25.748	233.0	1.168	302
400	11.89	11.84	34.43	26.178	193.3	1.381	403
500	9.39	9.33	34.38	26.579	155.4	1.555	504
600	7.14	7.08	34.23	26.801	133.5	1.699	605
700	5.78	5.72	34.31	27.043	110.3	1.821	706
800	4.66	4.60	34.32	27.182	96.4	1.925	807
1000	3.71	3.64	34.40	27.346	80.9	2.102	1009
1200	3.17	3.08	34.46	27.446	71.6	2.254	1212
1500	2.62	2.52	34.54	27.561	61.2	2.454	1516

STD 21

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 26.0 N	138 49.5 E	21/08/73	0352 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.70	28.70	34.04	21.445	634.3	0.000	0
10	28.04	28.04	33.98	21.618	618.2	0.063	10
20	28.08	28.08	34.01	21.628	617.7	0.124	20
30	27.72	27.71	33.99	21.731	608.3	0.186	30
50	24.80	24.79	34.54	23.059	482.1	0.295	50
75	22.43	22.41	34.71	23.882	404.4	0.406	76
100	21.05	21.03	34.79	24.327	362.9	0.501	101
125	20.53	20.51	34.82	24.491	348.2	0.590	126
150	20.14	20.11	34.81	24.589	339.9	0.676	151
200	16.98	16.95	34.70	25.298	273.4	0.830	201
250	15.33	15.29	34.64	25.631	242.8	0.959	252
300	14.48	14.44	34.61	25.794	228.5	1.077	302
400	10.91	10.86	34.43	26.357	175.5	1.279	403
500	7.43	7.38	34.30	26.814	131.0	1.432	504
600	5.99	5.94	34.30	27.008	112.5	1.554	605
700	4.90	4.84	34.32	27.154	98.3	1.659	706
800	4.17	4.11	34.35	27.258	88.3	1.752	807
1000	3.36	3.29	34.43	27.403	74.6	1.915	1009
1200	3.04	2.96	34.48	27.474	68.7	2.059	1212
1500	2.57	2.47	34.54	27.565	60.6	2.252	1516

STD 22 RV THOMAS WASHINGTON TASADAY EXPEDITION LEG IV

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 29.0 N	139 11.0 E	21/08/73	0746 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.89	28.89	34.01	21.360	642.5	0 000	0
10	28.29	28.29	34.06	21.596	620.3	0 063	10
20	28.10	28.10	34.15	21.727	608 3	0.125	20
30	28.17	28.16	34.27	21.795	602 2	0 185	30
50	26.19	26.18	34.39	22.519	533 7	0 299	50
75	24.86	24.84	34.76	23.209	468.9	0 424	76
100	23.01	22.99	34.79	23.779	415.4	0.535	101
125	21.83	21.81	34.82	24.137	382.2	0.634	126
150	20.43	20.40	34.81	24.512	347.2	0.725	151
200	18.33	18.30	34.74	25.001	302.0	0.888	201
250	15.25	15.21	34.65	25.656	240.4	1.023	252
300	14.17	14.13	34.57	25.829	225.0	1.140	302
400	11.61	11.56	34.43	26.230	188.1	1.346	403
500	8.42	8.37	34.29	26.661	146.5	1.514	504
600	6.73	6.67	34.23	26.857	127.8	1.651	605
700	5.33	5.27	34.30	27.089	105.2	1.767	706
800	4.27	4.21	34.36	27.255	88.7	1.864	807
1000	3.75	3.68	34.39	27.334	82.1	2.035	1009
1200	3.00	2.92	34.49	27.486	67.5	2.185	1212
1500	2.53	2.43	34.54	27.568	60.1	2.376	1516

STD 23

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 32.5 N	139 04.5 E	21/08/73	1116 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.44	28.44	34.04	21 531	626.1	0.000	0
10	28.44	28.44	34.05	21.539	625.7	0.063	10
20	28.16	28.16	34.03	21.617	618.8	0.125	20
30	28.04	28.03	34.05	21.672	614 0	0.186	30
50	26.11	26.10	34.33	22.499	535.7	0.301	50
75	23.46	23.44	34.57	23.481	442.8	0.424	76
100	21.53	21.51	34.64	24.082	386.3	0.527	101
125	20.41	20.39	34.76	24.478	349.5	0.619	126
150	19.71	19.68	34.81	24.701	329.0	0.704	151
200	17.03	17.00	34.74	25.316	271.7	0.854	201
250	15.22	15.18	34.64	25.655	240.5	0.982	252
300	12.43	12.39	34.50	26.126	195.8	1.091	302
400	9.86	9.81	34.39	26.508	160.4	1.270	403
500	7.05	7.00	34.26	26.836	128.5	1.414	504
600	5.92	5.87	34.31	27.024	110.9	1.534	605
700	4.73	4.67	34.35	27.197	94.0	1.636	706
800	4.12	4.06	34.37	27.279	86.2	1.726	807
1000	3.42	3.35	34.42	27.390	76.1	1.889	1009
1200	2.94	2.86	34.49	27.491	66.8	2 031	1212
1500	2.50	2.40	34.54	27.571	59.8	2.221	1516

STD 24 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 39.5 N	138 59.5 E	21/08/73	1414 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.24	28.24	33.99	21.559	623.4	0.000	0
10	28.25	28.25	33.99	21.557	624.1	0.062	10
20	27.46	27.46	34.06	21.866	594.9	0.123	20
30	27.24	27.23	34.11	21.975	584.9	0.182	30
50	23.62	23.61	34.46	23.349	454.3	0.286	50
75	21.30	21.29	34.65	24.151	378.7	0.390	76
100	20.05	20.03	34.68	24.511	345.3	0.481	101
125	18.65	18.63	34.71	24.895	309.4	0.563	126
150	17.28	17.25	34.67	25.201	280.9	0.636	151
200	14.09	14.06	34.59	25.858	219.2	0.762	201
250	11.88	11.85	34.47	26.207	186.6	0.863	252
300	10.03	9.99	34.37	26.461	162.7	0.950	302
400	7.83	7.79	34.26	26.724	138.2	1.101	403
500	6.78	6.73	34.30	26.904	121.8	1.231	504
600	5.47	5.42	34.30	27.071	105.8	1.345	605
700	4.32	4.27	34.36	27.249	88.4	1.442	706
800	3.90	3.84	34.39	27.317	82.2	1.527	807
1000	3.47	3.40	34.43	27.393	75.9	1.685	1009
1200	2.97	2.89	34.50	27.496	66.4	1.827	1212
1500	2.49	2.39	34.56	27.588	58.2	2.014	1516

TASADAY EXPEDITION LEG IV STD 25

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 56.0 N	139 16.0 E	21/08/73	2245 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	26.90	26.90	34.08	22.059	575.5	0.000	0
10	26.85	26.85	34.08	22.075	574.4	0.057	10
20	25.84	25.84	34.15	22.445	539.5	0.113	20
30	24.23	24.22	34.30	23.047	482.3	0.164	30
50	19.08	19.07	34.56	24.668	328.3	0.245	50
75	16.50	16.49	34.61	25.336	265.3	0.320	76
100	14.51	14.50	34.55	25.735	227.9	0.381	101
125	13.09	13.07	34.49	25.984	204.8	0.435	126
150	12.12	12.10	34.43	26.128	191.5	0.485	151
200	10.77	10.75	34.38	26.339	172.4	0.576	201
250	9.66	9.63	34.33	26.491	158.5	0.659	252
300	8.58	8.55	34.29	26.633	145.5	0.735	302
400	7.01	6.97	34.25	26.832	127.2	0.871	403
500	5.83	5.79	34.28	27.011	110.6	0.990	504
600	5.01	4.96	34.28	27.109	101.5	1.096	605
700	4.30	4.25	34.31	27.212	91.9	1.193	706
800	3.87	3.81	34.35	27.288	84.8	1.281	807
1000	3.34	3.27	34.40	27.381	76.6	1.442	1009
1094	3.02	2.94	34.44	27.443	70.7	1.512	1104

STD 26 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 44.0 N	139 12.5 E	22/08/73	0755 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.77	28.77	33.85	21.280	650.2	0.000	0
10	27.70	27.70	34.03	21.766	604.1	0.063	10
20	27.47	27.47	34.05	21.856	595.9	0.123	20
30	27.03	27.02	34.16	22.080	574.9	0.181	30
50	24.47	24.46	34.40	23.052	482.7	0.287	50
75	22.06	22.05	34.72	23.994	393.7	0.397	76
100	19.69	19.67	34.74	24.651	331.9	0.487	101
125	18.17	18.15	34.73	25.030	296.5	0.566	126
150	17.21	17.18	34.65	25.203	280.8	0.638	151
200	14.99	14.96	34.65	25.712	233.4	0.767	201
250	14.11	14.07	34.58	25.848	221.7	0.880	252
300	12.11	12.07	34.49	26.180	190.6	0.983	302
400	9.15	9.11	34.36	26.600	151.1	1.154	403
500	7.14	7.09	34.29	26.847	127.6	1.294	504
600	5.68	5.63	34.31	27.054	107.7	1.411	605
700	4.67	4.61	34.33	27.188	94.8	1.512	706
800	4.15	4.09	34.37	27.276	86.6	1.603	807
863	3.82	3.76	34.39	27.326	81.8	1.656	871

TASADAY EXPEDITION LEG IV STD 28

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 51.0 N	139 44.0 E	22/08/73	1451 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.45	28.45	34.12	21.588	620.6	0.000	0
10	28.31	28.31	34.17	21.672	613.0	0.062	10
20	28.17	28.17	34.22	21.756	605.4	0.123	20
30	27.95	27.94	34.19	21.806	601.1	0.183	30
50	26.68	26.67	34.12	22.162	567.9	0.300	50
75	24.14	24.12	34.61	23.311	459.1	0.428	76
100	22.78	22.76	34.69	23.769	416.3	0.538	101
125	19.58	19.56	34.60	24.573	340.2	0.632	126
150	18.39	18.36	34.71	24.961	304.0	0.713	151
200	16.21	16.18	34.68	25.462	257.6	0.853	201
250	14.73	14.69	34.61	25.739	232.3	0.976	252
300	12.86	12.82	34.52	26.058	202.6	1.084	302
400	9.50	9.45	34.35	26.536	157.4	1.264	403
500	7.61	7.56	34.24	26.742	138.1	1.412	504
600	6.34	6.29	34.29	26.955	117.9	1.540	605
700	4.96	4.90	34.33	27.155	98.3	1.648	706
800	4.38	4.32	34.36	27.244	90.0	1.742	807
1000	3.53	3.46	34.41	27.371	78.1	1.911	1009
1200	2.92	2.84	34.48	27.485	67.3	2.056	1212
1300	2.82	2.73	34.50	27.510	65.3	2.122	1313

STD 29 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 45.0 N	139 48.0 E	22/08/73	1722 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.39	28.39	34.10	21.593	620.2	0.000	0
10	28.22	28.22	34.08	21.634	616.7	0.062	10
20	28.10	28.10	34.19	21.757	605.4	0.123	20
30	28.04	28.03	34.29	21.852	596.7	0.183	30
50	25.53	25.52	34.56	22.852	501.9	0.293	50
75	23.80	23.78	34.68	23.464	444.4	0.411	76
100	21.98	21.96	34.75	24.040	390.4	0.516	101
125	20.16	20.14	34.77	24.552	342.4	0.607	126
150	19.19	19.16	34.81	24.835	316.2	0.689	151
200	17.71	17.68	34.74	25.153	287.4	0.840	201
250	14.92	14.88	34.62	25.705	235.6	0.971	252
300	14.23	14.19	34.61	25.847	223.3	1.086	302
400	10.90	10.85	34.43	26.359	175.3	1.285	403
500	9.77	9.71	34.38	26.517	161.7	1.454	504
600	7.61	7.55	34.34	26.822	132.3	1.601	605
700	5.47	5.41	34.27	27.048	109.2	1.721	706
800	4.55	4.49	34.34	27.209	93.6	1.823	807
990	3.72	3.65	34.40	27.345	80.9	1.988	999

TASADAY EXPEDITION LEG IV STD 30

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 27.0 N	139 33.0 E	22/08/73	2100 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.26	28.26	34.11	21.643	615.4	0.000	0
10	28.13	28.13	34.17	21.731	607.4	0.061	10
20	28.03	28.03	34.31	21.870	594.6	0.121	20
30	27.91	27.90	34.64	22.158	567.5	0.179	30
50	25.36	25.35	34.67	22.987	489.0	0.285	50
75	23.33	23.31	34.79	23.685	423.3	0.399	76
100	22.39	22.37	34.79	23.956	398.5	0.502	101
125	20.80	20.78	34.83	24.427	354.4	0.596	126
150	19.84	19.81	34.82	24.675	331.6	0.682	151
200	18.32	18.28	34.82	25.065	296.0	0.838	201
250	17.03	16.99	34.77	25.341	271.0	0.980	252
300	16.34	16.29	34.73	25.474	259.9	1.113	302
400	13.63	13.57	34.57	25.944	216.7	1.351	403
500	10.63	10.57	34.40	26.385	174.9	1.547	504
600	8.54	8.48	34.30	26.652	149.5	1.709	605
700	6.65	6.58	34.31	26.932	122.1	1.845	706
800	5.63	5.56	34.33	27.078	108.0	1.960	807
1000	3.89	3.81	34.38	27.312	84.5	2.153	1009
1171	3.45	3.36	34.44	27.404	76.2	2.290	1182

CSTD 31 — RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 45.5 N	138 00.0 E	24/08/73	0827 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	27.96	27.96	34.20	21.808	599.5	0.000	0
10	27.52	27.52	34.22	21.967	584.8	0.059	10
20	27.50	27.50	34.39	22.102	572.4	0.117	20
30	27.25	27.24	34.51	22.273	556.4	0.174	30
50	23.80	23.79	34.55	23.365	452.9	0.274	50
75	20.49	20.48	34.71	24.416	353.4	0.375	76
100	18.91	18.89	34.65	24.782	319.3	0.459	101
125	17.39	17.37	34.64	25.151	284.8	0.535	126
150	15.62	15.60	34.62	25.547	247.6	0.601	151
200	14.30	14.27	34.56	25.791	225.7	0.720	201
250	12.60	12.57	34.46	26.061	200.8	0.826	252
300	10.62	10.58	34.38	26.367	172.0	0.919	302
400	7.47	7.43	34.29	26.799	130.8	1.071	403
500	6.09	6.05	34.27	26.970	114.8	1.194	504
600	4.99	4.94	34.30	27.127	99.8	1.301	605
700	4.33	4.28	34.35	27.240	89.2	1.395	706
800	3.82	3.76	34.38	27.317	82.0	1.481	807
1000	3.11	3.04	34.45	27.442	70.4	1.633	1009
1200	2.78	2.70	34.48	27.497	65.7	1.770	1212
1497	2.42	2.32	34.54	27.578	58.8	1.954	1513

STD 32A

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 30.0 N	138 04.5 E	24/08/73	1148 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	27.56	27.56	33.80	21.637	615.9	0.000	0
10	27.58	27.58	33.83	21.654	614.8	0.062	10
20	27.60	27.60	34.05	21.814	599.9	0.122	20
30	27.27	27.26	34.10	21.958	586.5	0.182	30
50	26.73	26.72	34.58	22.493	536.3	0.294	50
75	23.26	23.24	34.59	23.554	435.8	0.415	76
100	20.32	20.30	34.72	24.470	349.2	0.514	101
125	18.81	18.79	34.69	24.839	314.8	0.597	126
150	17.52	17.49	34.66	25.136	287.2	0.672	151
200	14.69	14.66	34.60	25.738	230.8	0.801	201
250	13.67	13.63	34.56	25.924	214.3	0.913	252
300	10.93	10.89	34.43	26.351	173.6	1.010	302
400	7.53	7.49	34.30	26.799	130.9	1.162	403
500	6.10	6.06	34.30	26.993	112.7	1.284	504

STD 32B — RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 33.0 N	138 23.0 E	24/08/73	1541 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	27.65	27.65	33.92	21.698	610.0	0.000	0
10	27.72	27.72	33.98	21.722	608.3	0.061	10
20	27.51	27.51	34.10	21.880	593.5	0.121	20
30	27.59	27.58	34.44	22.111	571.9	0.179	30
50	26.77	26.76	34.56	22.465	539.0	0.290	50
75	22.61	22.59	34.56	23.717	420.2	0.410	76
100	20.66	20.64	34.65	24.326	363.0	0.508	101
125	18.21	18.19	34.71	25.004	298.9	0.591	126
150	17.02	17.00	34.65	25.248	276.4	0.663	151
200	15.12	15.09	34.62	25.660	238.4	0.792	201
250	13.19	13.16	34.53	25.998	207.0	0.903	252
300	10.61	10.57	34.42	26.400	168.8	0.997	302
400	7.49	7.45	34.30	26.804	130.3	1.146	403
500	5.96	5.92	34.29	27.002	111.6	1.267	504
600	5.13	5.08	34.33	27.135	99.3	1.373	605
700	4.33	4.28	34.35	27.240	89.2	1.467	706
800	3.80	3.74	34.39	27.327	81.0	1.552	807
1000	3.22	3.15	34.44	27.424	72.3	1.706	1009
1200	2.84	2.76	34.49	27.500	65.6	1.844	1212
1500	2.46	2.36	34.54	27.574	59.3	2.031	1516

STD 33B

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
34 33.0 N	139 58.0 E	26/08/73	1337 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	24.67	24.67	33.93	22.634	520.5	0.000	0
10	24.04	24.04	34.05	22.913	494.2	0.051	10
20	22.82	22.82	34.18	23.366	451.4	0.098	20
30	21.01	21.00	34.42	24.053	386.2	0.140	30
50	18.45	18.44	34.57	24.834	312.4	0.210	50
75	16.49	16.48	34.57	25.308	268.0	0.282	76
100	15.24	15.22	34.57	25.552	241.7	0.346	101
125	14.66	14.64	34.53	25.688	233.2	0.405	126
150	13.82	13.80	34.51	25.851	218.3	0.462	151
200	12.48	12.45	34.48	26.099	195.8	0.565	202
250	11.12	11.09	34.41	26.300	177.4	0.659	252
300	9.46	9.46	34.38	26.559	153.1	0.741	302
400	7.32	7.28	34.27	26.805	130.1	0.883	403
500	5.45	5.41	34.27	27.049	106.6	1.001	504
600	4.59	4.54	34.32	27.188	93.6	1.101	605
700	4.23	4.18	34.33	27.235	89.6	1.193	706
800	3.87	3.81	34.36	27.296	84.1	1.280	807
1000	3.30	3.23	34.39	27.377	76.9	1.441	1009
1200	2.88	2.80	34.46	27.472	68.3	1.586	1212
1500	2.32	2.22	34.53	27.578	58.4	1.776	1516

STD 33C — RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
34 34.0 N	139 59.5 E	26/08/73	1544 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	25.19	25.19	34.04	22.560	527.5	0.000	0
10	23.06	23.06	34.05	23.198	467.0	0.050	10
20	21.42	21.42	34.33	23.872	403.1	0.093	20
30	20.33	20.32	34.47	24.273	365.2	0.132	30
50	18.05	18.04	34.59	24.949	301.4	0.198	50
75	16.19	16.18	34.61	25.408	258.5	0.268	76
100	15.43	15.41	34.58	25.557	245.0	0.331	101
125	14.53	14.51	34.53	25.716	230.5	0.391	126
150	13.67	13.65	34.52	25.890	214.6	0.446	151
200	11.87	11.84	34.46	26.200	186.0	0.546	202
250	10.35	10.32	34.41	26.437	164.1	0.634	252
300	8.67	8.64	34.29	26.620	146.8	0.712	302
400	6.35	6.31	34.28	26.944	116.1	0.843	403
500	5.42	5.38	34.27	27.052	106.2	0.954	504
600	4.82	4.77	34.29	27.138	98.5	1.057	605
700	4.44	4.39	34.31	27.197	93.5	1.153	706
800	3.97	3.91	34.35	27.278	86.0	1.242	807
1000	3.36	3.29	34.40	27.379	76.8	1.405	1009
1200	2.82	2.74	34.46	27.478	67.6	1.550	1212
1500	2.36	2.26	34.52	27.566	59.6	1.741	1516

STD 33D

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
34 35.0 N	140 01.0 E	26/08/73	1920 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	26.30	26.30	33.81	22.044	576.9	0.000	0
10	25.65	25.65	33.94	22.345	548.6	0.056	10
20	25.28	25.28	34.02	22.519	532.4	0.110	20
30	23.78	23.77	34.25	23.142	473.2	0.161	30
50	21.17	21.16	34.46	24.041	388.2	0.247	50
75	16.79	16.78	34.62	25.276	271.1	0.329	76
100	14.88	14.86	34.57	25.671	234.1	0.392	101
125	13.97	13.95	34.54	25.842	218.4	0.449	126
150	12.51	12.49	34.48	26.091	195.1	0.501	151
200	11.39	11.36	34.44	26.273	178.8	0.594	202
250	9.28	9.25	34.35	26.569	151.0	0.676	252
300	8.07	8.04	34.30	26.718	137.1	0.748	302
400	6.39	6.35	34.27	26.931	117.4	0.876	403
500	5.60	5.56	34.29	27.047	107.0	0.988	504
600	4.83	4.78	34.32	27.161	96.4	1.090	605
700	4.01	3.96	34.34	27.266	86.3	1.181	706
800	3.72	3.66	34.36	27.311	82.4	1.265	807
1000	3.18	3.11	34.40	27.396	74.8	1.422	1009
1200	2.84	2.76	34.46	27.476	67.8	1.565	1212
1500	2.38	2.28	34.52	27.565	59.9	1.757	1516

STD 34 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
34 21.5 N	139 56.0 E	26/08/73	2317 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	25.78	25.78	34.14	22.455	537.6	0.000	0
10	25.78	25.78	34.14	22.455	538.0	0.054	10
20	25.73	25.73	34.14	22.471	536.9	0.108	20
30	25.65	25.64	34.15	22.504	534.2	0.161	30
50	24.90	24.89	34.25	22.810	505.9	0.265	50
75	22.57	22.55	34.39	23.600	431.4	0.382	76
100	20.87	20.85	34.48	24.140	380.7	0.484	101
125	17.45	17.43	34.63	25.129	287.0	0.567	126
150	15.92	15.90	34.60	25.464	255.6	0.635	151
200	13.29	13.26	34.52	25.969	208.4	0.751	202
250	11.26	11.23	34.45	26.306	176.9	0.847	252
300	10.19	10.15	34.37	26.434	165.4	0.933	302
400	8.02	7.98	34.30	26.727	138.0	1.085	403
500	6.09	6.05	34.27	26.970	114.8	1.211	504
600	4.99	4.94	34.28	27.111	101.3	1.319	605
700	4.51	4.46	34.31	27.189	94.3	1.417	706
800	4.11	4.05	34.36	27.272	86.8	1.508	807
1000	3.28	3.21	34.39	27.379	76.7	1.671	1009
1200	2.79	2.71	34.46	27.480	67.3	1.815	1212
1500	2.41	2.31	34.52	27.562	60.2	2.006	1516

TASADAY EXPEDITION LEG IV STD 35

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
34 05.5 N	139 49.0 E	27/08/73	0440 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	27.87	27.87	33.71	21.469	632.0	0.000	0
10	27.93	27.93	34.00	21.669	613.4	0.062	10
20	27.64	27.64	34.09	21.831	598.3	0.123	20
30	27.09	27.08	34.16	22.061	576.7	0.182	30
50	25.88	25.87	34.31	22.555	530.3	0.292	50
75	23.70	23.68	34.47	23.335	456.8	0.416	76
100	20.36	20.34	34.66	24.413	354.6	0.517	101
125	18.70	18.68	34.65	24.836	315.0	0.601	126
150	17.46	17.43	34.69	25.173	283.6	0.676	151
200	16.01	15.98	34.64	25.477	256.1	0.811	202
250	12.95	12.92	34.53	26.046	202.3	0.925	252
300	12.70	12.66	34.49	26.066	201.7	1.026	302
400	8.39	8.35	34.34	26.703	140.7	1.197	403
500	6.79	6.74	34.28	26.887	123.4	1.329	504
600	5.04	4.99	34.33	27.145	98.2	1.440	605
700	4.58	4.53	34.32	27.190	94.4	1.537	706
800	4.02	3.96	34.36	27.281	85.8	1.627	807
1000	3.30	3.23	34.41	27.393	75.4	1.788	1009

STD 36 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 50.0 N	140 02.0 E	27/08/73	0740 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.07	28.07	34.23	21.795	600.8	0.000	0
10	28.05	28.05	34.25	21.817	599.1	0.060	10
20	27.98	27.98	34.33	21.901	591.6	0.120	20
30	27.82	27.81	34.39	21.999	582.7	0.178	30
50	26.02	26.01	34.26	22.474	538.0	0.290	50
75	22.07	22.06	34.59	23.892	403.4	0.408	76
100	21.29	21.27	34.66	24.163	378.6	0.506	101
125	20.09	20.07	34.78	24.578	339.9	0.596	126
150	19.46	19.43	34.76	24.728	326.4	0.679	151
200	17.81	17.78	34.73	25.121	290.5	0.833	201
250	17.12	17.08	34.73	25.289	276.0	0.975	252
300	15.93	15.88	34.70	25.545	252.9	1.107	302

TASADAY EXPEDITION LEG IV STD 37

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
34 00.5 N	140 05.5 E	27/08/73	0930 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	27.92	27.92	34.15	21.784	601.8	0.000	0
10	27.92	27.92	34.16	21.792	601.5	0.060	10
20	27.87	27.87	34.16	21.809	600.4	0.120	20
30	27.85	27.84	34.16	21.816	600.1	0.180	30
50	25.11	25.10	34.28	22.769	509.8	0.291	50
75	22.62	22.60	34.55	23.707	421.2	0.408	76
100	20.81	20.79	34.70	24.324	363.2	0.506	101
125	19.34	19.32	34.75	24.750	323.4	0.592	126
150	18.33	18.30	34.74	24.999	300.4	0.669	151
200	16.74	16.71	34.78	25.416	262.2	0.810	202
250	15.33	15.29	34.65	25.639	242.1	0.936	252
300	14.28	14.24	34.57	25.806	227.3	1.054	302
400	11.24	11.19	34.41	26.282	182.9	1.259	403
500	8.45	8.40	34.27	26.641	148.5	1.424	504
600	6.97	6.91	34.29	26.872	126.7	1.562	605
700	5.78	5.72	34.26	27.003	114.0	1.682	706
800	4.87	4.80	34.31	27.151	99.7	1.789	807
1000	3.93	3.85	34.38	27.308	85.0	1.974	1009
1088	3.65	3.57	34.42	27.368	79.4	2.046	1098

STD 38 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
34 09.5 N	140 01.5 E	27/08/73	1345 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	27.99	27.99	34.12	21.738	606.2	0.000	0
10	27.99	27.99	34.12	21.739	606.6	0.061	10
20	27.99	27.99	34.13	21.747	606.3	0.121	20
30	26.88	26.87	34.14	22.112	571.8	0.180	30
50	25.86	25.85	34.25	22.516	534.0	0.291	50
75	23.15	23.13	34.47	23.495	441.5	0.413	76
100	20.58	20.56	34.64	24.340	361.6	0.513	101
125	18.63	18.61	34.76	24.938	305.3	0.596	126
150	16.86	16.84	34.75	25.362	265.5	0.668	151
200	15.84	15.81	34.66	25.531	250.9	0.797	202
250	14.69	14.65	34.63	25.763	230.0	0.917	252
300	13.63	13.59	34.56	25.933	214.8	1.028	302
400	9.95	9.90	34.39	26.492	161.9	1.217	403
500	7.56	7.51	34.31	26.804	132.2	1.364	504
600	6.95	6.89	34.30	26.882	125.7	1.493	605
700	5.28	5.22	34.32	27.110	103.0	1.607	706
800	4.44	4.38	34.35	27.229	91.5	1.704	807
1000	3.68	3.61	34.40	27.349	80.5	1.876	1009
1200	3.01	2.93	34.47	27.469	69.0	2.026	1212
1477	2.33	2.23	34.54	27.585	57.7	2.201	1492

TASADAY EXPEDITION LEG IV STD 39

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
34 05.5 N	139 49.5 E	27/08/73	1919 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	27.96	27.96	34.04	21.688	611.0	0.000	0
10	27.97	27.97	34.05	21.693	611.0	0.061	10
20	27.34	27.34	34.18	21.995	582.5	0.121	20
30	26.44	26.43	34.40	22.447	539.7	0.177	30
50	24.60	24.59	34.48	23.074	480.6	0.279	50
75	21.70	21.69	34.58	23.988	394.3	0.388	76
100	20.28	20.26	34.61	24.396	356.2	0.482	101
125	19.59	19.57	34.64	24.601	337.5	0.569	126
150	18.50	18.47	34.66	24.895	310.3	0.650	151
200	15.25	15.22	34.62	25.632	241.1	0.788	202
250	12.79	12.76	34.50	26.055	201.5	0.898	252
300	10.88	10.84	34.41	26.345	174.3	0.992	302
400	10.09	10.04	34.39	26.469	164.3	1.161	403
500	6.46	6.41	34.29	26.938	118.2	1.303	504
600	5.38	5.33	34.32	27.098	103.2	1.413	605
700	4.42	4.37	34.34	27.223	91.0	1.510	706
800	4.15	4.09	34.36	27.268	87.3	1.600	807
1000	3.45	3.38	34.41	27.379	77.2	1.764	1009
1072	3.17	3.09	34.43	27.422	73.0	1.818	1082

STD 40 RV THOMAS WASHINGTON TASADAY EXPEDITION LEG IV

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
34 0[illegible].5 N	139 51.5 E	27/08/73	2145 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	26.87	26.87	34.29	22.226	559.5	0.000	0
10	26.76	26.[illegible]	34.30	22.270	555.8	0.056	10
20	25.78	25.78	34.31	22.584	526.1	0.110	20
30	25.13	25.12	34.38	22.837	502.4	0.161	30
50	22.15	22.14	34.63	23.899	401.8	0.252	50
75	21.05	21.04	34.78	24.318	362.7	0.347	76
100	20.08	20.06	34.72	24.533	343.1	0.436	101
125	19.72	19.70	34.73	24.636	334.2	0.520	126
150	18.82	18.79	34.72	24.861	313.6	0.601	151
200	16.77	16.74	34.64	25.301	273.0	0.748	202
250	15.24	15.20	34.62	25.635	242.3	0.877	252
300	14.11	14.07	34.54	25.818	226.0	0.994	302
400	10.17	10.12	34.39	26.455	165.6	1.190	403
500	8.28	8.23	34.31	26.698	14[illegible].9	1.344	504
600	6.53	6.47	34.28	26.923	121.3	1.476	605
700	5.29	5.23	34.30	27.094	104.7	1.589	706
800	4.42	4.36	34.33	27.216	92.7	1.688	807
1000	3.28	3.21	34.44	27.419	73.0	1.853	1009
1159	3.02	2.94	34.48	27.476	68.2	1.966	1170

STD 41

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 57.5 N	139 55.5 E	28/08/73	0158 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.42	28.42	34.24	21.688	611.0	0.000	0
10	28.33	28.33	34.24	21.718	608.6	0.061	10
20	28.29	28.29	34.25	21.740	607.0	0.122	20
30	27.74	27.73	34.42	22.048	578.0	0.181	30
50	26.77	26.76	34.48	22.405	544.7	0.293	50
75	24.14	24.12	34.55	23.266	463.4	0.419	76
100	22.25	22.23	34.82	24.018	392.5	0.526	101
125	19.35	19.33	34.80	24.786	320.0	0.615	126
150	18.20	18.17	34.76	25.046	295.9	0.692	151
200	16.32	16.29	34.69	25.444	259.3	0.831	201
250	15.91	15.87	34.67	25.524	253.2	0.959	252
300	14.70	14.65	34.62	25.755	232.3	1.081	302
400	11.37	11.32	34.41	26.259	185.2	1.289	403
500	9.30	9.24	34.34	26.562	156.8	1.460	504
600	7.63	7.57	34.29	26.780	136.3	1.607	605
700	6.17	6.11	34.30	26.986	116.2	1.733	706
800	5.74	5.67	34.31	27.049	110.9	1.847	807

STD 42 RV THOMAS WASHINGTON TASADAY EXPEDITION LEG IV

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
34 04.5 N	139 49.0 E	28/08/73	0454 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	27.95	27.95	34.35	21.924	588.4	0.000	0
10	26.89	26.89	34.44	22.334	549.7	0.057	10
20	26.32	26.32	34.48	22.545	530.0	0.111	20
30	25.60	25.59	34.56	22.829	503.2	0.163	30
50	20.38	20.37	34.62	24.375	356.2	0.248	50
75	18.29	18.28	34.71	24.982	299.2	0.330	76
100	17.23	17.21	34.69	25.226	276.8	0.402	101
125	16.56	16.54	34.67	25.370	263.8	0.470	126
150	15.99	15.97	34.67	25.502	252.0	0.534	151
200	15.80	15.77	34.68	25.555	248.6	0.660	202
250	15.06	15.02	34.65	25.698	236.3	0.781	252
300	13.63	13.59	34.57	25.941	214.1	0.893	302
400	9.19	9.15	34.38	26.610	150.2	1.076	403
500	7.47	7.42	34.30	26.809	131.6	1.216	504
600	5.99	5.94	34.31	27.016	111.8	1.338	605
700	4.82	4.76	34.33	27.171	96.6	1.442	706
800	4.11	4.05	34.37	27.280	86.1	1.534	807
1000	3.25	3.18	34.43	27.414	73.4	1.693	1009
1086	3.00	2.92	34.46	27.461	69.0	1.754	1096

STD 43

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
34 12.5 N	139 42.0 E	28/08/73	0755 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	27.86	27.86	34.14	21.796	600.7	0.000	0
10	27.09	27.09	34.57	22.368	546.4	0.057	10
20	26.82	26.82	34.56	22.447	539.3	0.112	20
30	24.94	24.93	34.66	23.106	476.7	0.162	30
50	21.17	21.16	34.58	24.132	379.5	0.248	50
75	18.93	18.92	34.66	24.784	318.2	0.335	76
100	18.01	17.99	34.61	24.976	300.7	0.413	101
125	17.75	17.73	34.61	25.041	295.4	0.487	126
150	16.98	16.96	34.60	25.219	279.2	0.559	151
200	15.15	15.12	34.58	25.623	241.9	0.689	202
250	12.91	12.88	34.49	26.023	204.5	0.801	252
300	11.94	11.90	34.44	26.173	191.1	0.900	302
400	7.83	7.79	34.28	26.740	136.7	1.064	403
500	7.05	7.00	34.27	26.844	127.8	1.196	504
600	5.39	5.34	34.28	27.065	106.3	1.313	605
700	4.37	4.32	34.31	27.204	92.7	1.412	706
800	4.02	3.96	34.33	27.257	88.0	1.503	807
851	3.52	3.46	34.39	27.355	78.3	1.545	859

STD 44 RV THOMAS WASHINGTON TASADAY EXPEDITION LEG IV

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
34 21.0 N	139 34.0 E	28/08/73	1137 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	26.17	26.17	34.20	22.379	544.9	0.000	0
10	25.73	25.73	34.23	22.539	530.0	0.054	10
20	25.34	25.34	34.26	22.682	516.8	0.106	20
30	24.48	24.47	34.24	22.927	493.8	0.157	30
50	22.72	22.71	34.26	23.457	443.9	0.250	50
75	19.54	19.53	34.62	24.597	336.0	0.348	76
100	16.14	16.12	34.54	25.366	263.3	0.423	101
125	15.21	15.19	34.56	25.591	242.5	0.486	126
150	14.16	14.14	34.51	25.780	225.1	0.544	151
200	11.89	11.86	34.43	26.173	188.5	0.648	202
250	10.85	10.82	34.39	26.333	174.1	0.739	252
300	9.63	9.60	34.34	26.505	158.3	0.822	302
400	7.42	7.38	34.29	26.807	130.0	0.966	403
500	5.96	5.92	34.26	26.979	113.8	1.088	504
600	5.19	5.14	34.26	27.073	105.2	1.197	605
700	4.53	4.48	34.30	27.179	95.3	1.298	706
800	3.94	3.88	34.35	27.281	85.6	1.388	807
1000	3.11	3.04	34.41	27.410	73.3	1.547	1009
1077	2.97	2.90	34.43	27.440	70.8	1.602	1087

STD 45

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
34 05.5 N	139 49.0 E	28/08/73	1610 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.09	28.09	34.25	21.804	600.0	0.000	0
10	28.09	28.09	34.25	21.804	600.3	0.060	10
20	27.26	27.26	34.55	22.299	553.5	0.118	20
30	27.01	27.00	34.56	22.388	545.5	0.173	30
50	25.55	25.54	34.49	22.793	507.5	0.278	50
75	24.62	24.60	34.49	23.077	481.4	0.402	76
100	24.15	24.13	34.49	23.219	469.0	0.520	101
125	21.41	21.39	34.56	24.055	389.9	0.628	126
150	20.43	20.40	34.64	24.382	359.5	0.721	151
200	17.19	17.16	34.61	25.179	284.8	0.882	202
250	14.40	14.36	34.56	25.771	229.1	1.011	252
300	12.95	12.91	34.49	26.017	206.5	1.120	302
400	10.45	10.40	34.38	26.399	171.2	1.309	403
500	6.86	6.81	34.23	26.838	128.1	1.458	504
600	5.32	5.27	34.28	27.073	105.4	1.575	605
700	4.70	4.64	34.30	27.160	97.4	1.677	706
800	3.94	3.88	34.35	27.281	85.6	1.768	807
1000	3.33	3.26	34.39	27.374	77.2	1.931	1009
1065	3.02	2.95	34.43	27.435	71.2	1.979	1075

STD 46 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 50.0 N	139 42.0 E	28/08/73	2136 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.16	28.16	34.30	21.818	598.5	0.000	0
10	28.15	28.15	34.30	21.822	598.6	0.060	10
20	28.16	28.16	34.34	21.850	596.5	0.120	20
30	28.11	28.10	34.41	21.920	590.3	0.179	30
50	27.98	27.97	34.51	22.039	579.8	0.296	50
75	27.78	27.76	34.56	22.143	571.0	0.440	76
100	25.71	25.69	34.56	22.800	509.1	0.575	101
125	23.60	23.57	34.77	23.594	434.2	0.693	126
150	20.83	20.80	34.71	24.328	364.8	0.793	151
200	18.43	18.39	34.67	24.922	309.5	0.961	201
250	15.92	15.88	34.59	25.460	259.3	1.103	252
300	14.61	14.57	34.57	25.736	234.1	1.227	302
400	11.17	11.12	34.38	26.271	183.8	1.436	403
500	8.00	7.95	34.28	26.716	140.9	1.598	504
600	6.93	6.87	34.26	26.854	128.3	1.733	605
700	5.87	5.81	34.26	26.992	115.1	1.854	706
800	4.52	4.46	34.28	27.165	97.7	1.961	807
1000	3.71	3.64	34.38	27.330	82.4	2.141	1009
1200	3.04	2.96	34.45	27.450	70.9	2.294	1212

TASADAY EXPEDITION LEG IV STD 47

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 45.0 N	139 48.5 E	29/08/73	0006 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.00	28.00	34.08	21.705	609.4	0.000	0
10	27.95	27.95	34.08	21.722	608.2	0.061	10
20	27.93	27.93	34.08	21.729	608.0	0.122	20
30	27.91	27.90	34.17	21.804	601.3	0.182	30
50	27.64	27.63	34.52	22.157	568.5	0.299	50
75	24.92	24.90	34.73	23.168	472.8	0.429	76
100	22.47	22.45	34.79	23.933	400.6	0.538	101
125	21.00	20.98	34.79	24.342	362.5	0.634	126
150	19.83	19.80	34.78	24.647	334.2	0.721	151
200	17.94	17.91	34.78	25.128	289.9	0.877	201
250	16.41	16.37	34.70	25.433	262.1	1.015	252
300	14.78	14.73	34.61	25.730	234.8	1.139	302
400	12.63	12.58	34.46	26.059	205.1	1.359	403
500	9.31	9.25	34.27	26.506	162.1	1.543	504
600	7.29	7.23	34.24	26.788	135.0	1.691	605
700	5.57	5.51	34.31	27.068	107.5	1.813	706
800	4.92	4.85	34.31	27.145	100.4	1.916	807
874	4.03	3.96	34.37	27.289	85.8	1.985	882

STD 48 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
32 38.5 N	139 04.0 E	29/08/73	0839 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.56	28.56	34.32	21.702	609.7	0.000	0
10	28.54	28.54	34.34	21.724	608.0	0.061	10
20	28.14	28.14	34.36	21.871	594.4	0.121	20
30	28.09	28.08	34.39	21.911	591.1	0.180	30
50	27.06	27.05	34.58	22.388	546.4	0.294	50
75	24.46	24.44	34.74	23.314	458.8	0.420	76
100	23.37	23.35	34.79	23.675	425.4	0.530	101
125	22.50	22.47	34.81	23.941	400.9	0.633	126
150	21.87	21.84	34.82	24.127	384.1	0.732	151
200	19.97	19.93	34.79	24.620	338.7	0.912	201
250	18.93	18.89	34.80	24.899	313.8	1.075	252
300	17.84	17.79	34.78	25.157	290.7	1.227	302
400	16.00	15.94	34.70	25.532	257.5	1.501	403
500	13.34	13.27	34.52	25.967	217.1	1.738	504
600	11.09	11.01	34.39	26.298	186.1	1.940	605
700	8.90	8.82	34.28	26.583	158.5	2.112	706
787	6.07	6.00	34.31	27.008	115.3	2.231	794

TASADAY EXPEDITION LEG IV STD 49

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
32 39.5 N	138 52.0 E	29/08/73	1125 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.31	28.31	34.26	21.739	606.1	0.000	0
10	28.23	28.23	34.40	21.871	593.9	0.060	10
20	28.18	28.18	34.49	21.956	586.3	0.119	20
30	28.00	27.99	34.54	22.053	577.5	0.177	30
50	25.57	25.56	34.73	22.968	490.8	0.284	50
75	24.37	24.35	34.79	23.379	452.6	0.402	76
100	23.38	23.36	34.80	23.680	424.9	0.512	101
125	21.81	21.79	34.80	24.127	383.1	0.613	126
150	20.75	20.72	34.85	24.456	352.6	0.705	151
200	19.06	19.02	34.79	24.856	316.1	0.872	201
250	18.31	18.27	34.79	25.046	299.6	1.026	252
300	17.40	17.35	34.78	25.263	280.4	1.171	302
400	15.74	15.68	34.70	25.591	251.7	1.437	403
500	13.25	13.18	34.53	25.993	214.6	1.670	504
600	10.42	10.35	34.34	26.377	177.8	1.866	605
700	8.02	7.95	34.25	26.693	146.7	2.028	706
800	6.87	6.79	34.31	26.904	126.7	2.165	807
1000	4.09	4.01	34.35	27.268	89.1	2.381	1009
1200	3.50	3.41	34.41	27.376	79.2	2.549	1212
1500	2.74	2.63	34.49	27.511	66.2	2.767	1515

STD 50 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
32 39.5 N	138 35.0 E	29/08/73	1428 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.26	28.26	34.44	21.891	591.6	0.000	0
10	28.26	28.26	34.44	21.892	592.0	0.059	10
20	27.95	27.95	34.46	22.009	581.3	0.118	20
30	27.74	27.73	34.47	22.085	574.4	0.176	30
50	26.13	26.12	34.46	22.591	526.9	0.286	50
75	24.11	24.09	34.73	23.411	449.6	0.408	76
100	22.95	22.93	34.80	23.804	413.0	0.516	101
125	21.90	21.88	34.81	24.110	384.8	0.615	126
150	20.94	20.91	34.81	24.375	360.4	0.709	151
200	19.10	19.06	34.79	24.845	317.1	0.878	201
250	18.53	18.49	34.81	25.007	303.4	1.033	252
300	17.51	17.46	34.78	25.237	283.0	1.180	302
400	15.61	15.55	34.66	25.589	251.8	1.447	403
500	12.67	12.60	34.47	26.062	207.6	1.677	504
600	10.02	9.95	34.32	26.430	172.3	1.867	605
700	7.76	7.69	34.23	26.715	144.2	2.025	706
800	6.03	5.96	34.23	26.950	120.8	2.157	807
1000	4.45	4.37	34.32	27.206	95.7	2.374	1009
1200	3.46	3.37	34.41	27.379	78.7	2.548	1212
1500	2.80	2.69	34.48	27.497	67.7	2.768	1515

TASADAY EXPEDITION LEG IV STD 51

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
32 39.0 N	138 20.0 E	29/08/73	2032 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	27.97	27.97	34.38	21.940	586.9	0.000	0
10	27.96	27.96	34.38	21.944	586.9	0.059	10
20	27.95	27.95	34.38	21.948	587.0	0.117	20
30	27.93	27.92	34.38	21.956	586.8	0.176	30
50	24.35	24.34	34.58	23.224	466.3	0.281	50
75	22.79	22.77	34.79	23.841	408.4	0.391	76
100	21.68	21.66	34.81	24.169	378.0	0.489	101
125	20.91	20.89	34.80	24.374	359.4	0.581	126
150	19.90	19.87	34.77	24.621	336.7	0.668	151
200	18.99	18.95	34.78	24.866	315.1	0.831	201
250	18.75	18.71	34.79	24.936	310.2	0.987	252
300	17.97	17.92	34.79	25.132	293.1	1.138	302
400	16.37	16.30	34.73	25.471	263.5	1.417	403
500	13.68	13.61	34.50	25.883	225.5	1.661	504
600	10.18	10.11	34.32	26.403	175.1	1.861	605
700	7.78	7.71	34.21	26.697	146.0	2.022	706
800	5.98	5.91	34.25	26.972	118.6	2.154	807
1000	4.11	4.03	34.36	27.274	88.6	2.361	1009
1200	3.60	3.51	34.40	27.358	81.1	2.531	1212
1500	2.99	2.88	34.46	27.465	71.4	2.760	1515

STD 52 RV THOMAS WASHINGTON TASADAY EXPEDITION LEG IV

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
32 39.5 N	138 03.5 E	30/08/73	0332 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.40	28.40	34.41	21.822	598.2	0.000	0
10	28.32	28.32	34.42	21.857	595.3	0.060	10
20	27.97	27.97	34.40	21.957	586.2	0.119	20
30	27.71	27.70	34.54	22.148	568.4	0.176	30
50	23.93	23.92	34.69	23.432	446.4	0.278	50
75	22.54	22.52	34.83	23.942	398.7	0.384	76
100	21.79	21.77	34.85	24.169	378.0	0.481	101
125	21.04	21.02	34.82	24.354	361.4	0.573	126
150	20.35	20.32	34.80	24.525	345.9	0.662	151
200	19.36	19.32	34.80	24.786	322.8	0.829	201
250	19.07	19.02	34.80	24.863	317.3	0.989	252
300	18.67	18.62	34.80	24.966	309.1	1.145	302
400	16.62	16.55	34.74	25.421	268.5	1.434	403
500	14.28	14.21	34.59	25.828	231.3	1.684	504
600	11.45	11.37	34.40	26.241	192.0	1.896	605
700	8.21	8.14	34.24	26.657	150.4	2.067	706
800	6.30	6.23	34.20	26.892	126.7	2.205	807
1000	4.25	4.17	34.35	27.251	91.1	2.423	1009
1200	3.39	3.30	34.42	27.394	77.2	2.591	1212
1500	2.86	2.75	34.47	27.484	69.1	2.811	1515

STD 53

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
32 49.0 N	138 29.5 E	30/08/73	0807 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D BAR
0	28.18	28.18	34.37	21.864	594.1	0.000	0
10	28.17	28.17	34.37	21.868	594.2	0.059	10
20	28.14	28.14	34.38	21.886	593.0	0.119	20
30	27.29	27.28	34.60	22.328	551.2	0.176	30
50	24.50	24.49	34.65	23.233	465.5	0.278	50
75	22.68	22.66	34.81	23.887	404.0	0.386	76
100	21.39	21.37	34.79	24.234	371.8	0.483	101
125	20.07	20.05	34.79	24.590	338.7	0.572	126
150	19.33	19.30	34.79	24.784	321.0	0.655	151
200	18.88	18.84	34.80	24.909	311.0	0.813	201
250	18.10	18.06	34.80	25.106	293.8	0.964	252
300	17.34	17.29	34.79	25.285	278.3	1.107	302
400	15.71	15.65	34.70	25.598	251.0	1.371	403
500	13.34	13.27	34.52	25.967	217.1	1.606	504
600	10.61	10.54	34.39	26.383	177.5	1.803	605
700	7.88	7.81	34.26	26.721	143.8	1.964	706
800	5.76	5.69	34.22	26.975	117.9	2.094	807
1000	4.26	4.18	34.35	27.250	91.2	2.303	1009
1200	3.34	3.25	34.43	27.407	75.8	2.470	1212
1500	2.79	2.68	34.49	27.506	66.8	2.684	1515

STD 54 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
32 50.0 N	139 05.0 E	30/08/73	1209 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.26	28.26	34.23	21.733	606.7	0.000	0
10	28.22	28.22	34.24	21.754	605.1	0.061	10
20	28.18	28.18	34.36	21.858	595.7	0.121	20
30	27.84	27.83	34.38	21.985	584.0	0.180	30
50	27.56	27.55	34.37	22.070	576.8	0.296	50
75	23.25	23.23	34.65	23.602	431.2	0.422	76
100	21.84	21.82	34.75	24.079	386.6	0.524	101
125	20.51	20.49	34.81	24.489	348.4	0.616	126
150	19.67	19.64	34.80	24.704	328.8	0.700	151
200	18.80	18.76	34.79	24.922	309.7	0.860	201
250	18.00	17.96	34.79	25.123	292.2	1.011	252
300	17.15	17.10	34.76	25.307	276.1	1.153	302
400	15.32	15.26	34.67	25.661	244.7	1.413	403
500	12.83	12.76	34.46	26.023	211.4	1.641	504
600	10.11	10.04	34.32	26.415	173.9	1.834	605
700	8.25	8.18	34.27	26.674	148.8	1.995	706
800	6.40	6.33	34.22	26.895	126.6	2.133	807
1000	4.31	4.23	34.32	27.221	94.0	2.354	1009
1200	3.39	3.30	34.44	27.410	75.7	2.523	1212
1500	2.73	2.62	34.49	27.511	66.1	2.736	1515

TASADAY EXPEDITION LEG IV STD 55

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
32 49.0 N	139 06.0 E	30/08/73	1452 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.23	28.23	34.43	21.893	591.4	0.000	0
10	28.22	28.22	34.44	21.905	590.8	0.059	10
20	28.19	28.19	34.48	21.945	587.3	0.118	20
30	27.86	27.85	34.57	22.121	570.9	0.176	30
50	25.51	25.50	34.69	22.956	492.0	0.282	50
75	23.96	23.94	34.80	23.508	440.3	0.399	76
100	22.38	22.36	34.82	23.981	396.0	0.503	101
125	21.52	21.50	34.82	24.223	373.9	0.600	126
150	20.46	20.43	34.85	24.534	345.1	0.689	151
200	19.11	19.07	34.80	24.851	316.6	0.855	201
250	18.32	18.28	34.84	25.082	296.2	1.008	252
300	17.15	17.10	34.78	25.323	274.6	1.151	302
400	15.52	15.46	34.69	25.632	247.6	1.412	403
500	12.76	12.69	34.50	26.067	207.1	1.639	504
600	9.98	9.91	34.32	26.437	171.6	1.829	605
700	7.55	7.48	34.22	26.737	141.8	1.985	706
800	6.16	6.09	34.29	26.981	118.1	2.115	807
1000	3.84	3.77	34.38	27.317	83.9	2.317	1009
1200	3.19	3.10	34.46	27.445	71.9	2.473	1212
1488	2.58	2.48	34.53	27.556	61.4	2.665	1503

STD 56 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 02.0 N	139 09.0 E	30/08/73	1748 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D BAR
0	28.19	28.19	34.26	21.778	602.4	0.000	0
10	28.14	28.14	34.26	21.796	601.2	0.060	10
20	28.09	28.09	34.37	21.895	592.1	0.120	20
30	27.99	27.98	34.50	22.026	580.0	0.178	30
50	25.24	25.23	34.60	22.971	490.5	0.286	50
75	22.81	22.79	34.66	23.736	418.4	0.399	76
100	21.89	21.87	34.77	24.081	386.5	0.500	101
125	20.91	20.89	34.81	24.382	358.7	0.593	126
150	20.00	19.97	34.77	24.595	339.2	0.680	151
200	18.81	18.77	34.79	24.919	310.0	0.842	201
250	17.81	17.77	34.79	25.169	287.7	0.992	252
300	16.63	16.58	34.74	25.414	265.6	1.130	302
400	14.92	14.86	34.63	25.718	239.1	1.383	403
500	12.27	12.20	34.41	26.093	204.2	1.604	504
600	9.05	8.98	34.27	26.549	159.8	1.786	605
700	6.85	6.78	34.21	26.826	132.3	1.932	706
800	5.82	5.75	34.29	27.023	113.5	2.055	807
1000	3.88	3.80	34.37	27.305	85.1	2.254	1009
1200	3.19	3.10	34.45	27.437	72.6	2.412	1212
1500	2.62	2.52	34.51	27.537	63.4	2.616	1516

TASADAY EXPEDITION LEG IV STD 57

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 01.0 N	138 51.0 E	30/08/73	2102 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.00	28.00	34.39	21.938	587.1	0.000	0
10	28.00	28.00	34.40	21.946	586.7	0.059	10
20	28.01	28.01	34.39	21.936	588.2	0.117	20
30	27.96	27.95	34.41	21.969	585.6	0.176	30
50	27.20	27.19	34.59	22.351	549.9	0.290	50
75	23.50	23.48	34.71	23.575	433.8	0.413	76
100	21.66	21.64	34.81	24.175	377.5	0.514	101
125	20.57	20.55	34.81	24.473	349.9	0.605	126
150	19.61	19.58	34.80	24.720	327.3	0.690	151
200	18.76	18.72	34.81	24.947	307.3	0.848	201
250	17.77	17.73	34.81	25.194	285.3	0.996	252
300	16.86	16.81	34.75	25.368	270.2	1.135	302
400	15.03	14.97	34.65	25.710	240.0	1.390	403
500	12.66	12.59	34.48	26.072	206.6	1.614	504
600	10.12	10.05	34.40	26.476	168.2	1.801	605
700	6.92	6.85	34.24	26.840	131.1	1.951	706
800	5.63	5.56	34.25	27.015	113.9	2.073	807
1000	3.84	3.77	34.38	27.317	83.9	2.271	1009
1200	3.23	3.14	34.44	27.425	73.8	2.429	1212
1500	2.60	2.50	34.52	27.547	62.4	2.633	1516

STD 58 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 01.0 N	138 33.0 E	31/08/73	0046 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.27	28.27	34.22	21.722	607.8	0.000	0
10	28.25	28.25	34.22	21.729	607.5	0.061	10
20	28.27	28.27	34.30	21.784	602.8	0.121	20
30	28.00	27.99	34.34	21.903	591.9	0.181	30
50	27.11	27.10	34.42	22.252	559.4	0.296	50
75	23.73	23.71	34.71	23.508	440.3	0.421	76
100	22.14	22.12	34.77	24.011	393.2	0.525	101
125	21.00	20.98	34.79	24.342	362.5	0.620	126
150	19.94	19.91	34.77	24.611	337.7	0.707	151
200	18.90	18.86	34.78	24.889	312.9	0.870	201
250	18.12	18.08	34.78	25.086	295.7	1.022	252
300	17.15	17.10	34.74	25.292	277.5	1.165	302
400	14.81	14.75	34.55	25.680	242.6	1.425	403
500	11.95	11.88	34.40	26.146	198.9	1.646	504
600	9.70	9.63	34.36	26.515	163.9	1.828	605
700	6.76	6.69	34.23	26.854	129.6	1.974	706
800	6.07	6.00	34.32	27.016	114.7	2.097	807
1000	3.90	3.82	34.36	27.295	86.1	2.297	1009
1200	3.30	3.21	34.43	27.410	75.3	2.459	1212
1500	2.67	2.56	34.50	27.525	64.7	2.669	1516

TASADAY EXPEDITION LEG IV STD 59

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 01.0 N	138 16.0 E	31/08/73	0909 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.70	28.70	34.15	21.528	626.4	0.000	0
10	28.36	28.36	34.14	21.633	616.7	0.062	10
20	28.35	28.35	34.14	21.637	616.8	0.124	20
30	28.23	28.22	34.43	21.895	592.6	0.184	30
50	25.58	25.57	34.57	22.844	502.7	0.294	50
75	23.17	23.15	34.71	23.671	424.7	0.410	76
100	21.58	21.56	34.75	24.151	379.7	0.510	101
125	20.37	20.35	34.74	24.473	349.9	0.601	126
150	19.62	19.59	34.73	24.664	332.6	0.687	151
200	18.84	18.80	34.73	24.866	315.1	0.849	201
250	17.89	17.85	34.70	25.081	296.1	1.002	252
300	16.93	16.88	34.68	25.298	276.8	1.145	302
400	14.40	14.34	34.51	25.737	236.9	1.402	403
500	11.54	11.48	34.32	26.160	197.2	1.619	504
600	9.33	9.26	34.25	26.489	165.9	1.800	605
700	6.70	6.63	34.18	26.823	132.4	1.949	706
800	5.64	5.57	34.26	27.021	113.3	2.072	807
1000	3.77	3.70	34.29	27.252	89.7	2.275	1009
1200	3.13	3.04	34.37	27.378	77.8	2.443	1212
1500	2.57	2.47	34.43	27.477	68.7	2.662	1516

STD 60 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 10.0 N	138 51.0 E	31/08/73	1451 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.36	28.36	34.23	21.700	609.9	0.000	0
10	28.36	28.36	34.24	21.708	609.5	0.061	10
20	28.38	28.38	34.26	21.718	609.1	0.122	20
30	28.04	28.03	34.35	21.897	592.4	0.182	30
50	27.50	27.49	34.57	22.239	560.6	0.297	50
75	24.36	24.34	34.74	23.344	456.0	0.424	76
100	22.41	22.39	34.85	23.996	394.7	0.531	101
125	21.18	21.16	34.86	24.346	362.1	0.625	126
150	20.07	20.04	34.86	24.645	334.4	0.712	151
200	18.72	18.68	34.81	24.957	306.4	0.873	201
250	17.52	17.48	34.79	25.240	280.9	1.019	252
300	16.66	16.61	34.77	25.430	264.1	1.156	302
400	14.55	14.49	34.62	25.790	232.0	1.404	403
500	12.36	12.29	34.47	26.122	201.6	1.620	504
600	9.73	9.66	34.37	26.517	163.7	1.803	605
700	6.89	6.82	34.27	26.868	128.5	1.949	706
800	5.46	5.39	34.31	27.083	107.3	2.067	807
1000	3.96	3.88	34.38	27.305	85.3	2.260	1009
1200	3.28	3.19	34.45	27.428	73.7	2.419	1212
1500	2.50	2.40	34.53	27.563	60.5	2.620	1516

TASADAY EXPEDITION LEG IV STD 61

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 20.0 N	138 54.0 E	31/08/73	1748 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.46	28.46	34.23	21.667	613.0	0.000	0
10	28.44	28.44	34.23	21.675	612.8	0.061	10
20	28.41	28.41	34.31	21.745	606.5	0.122	20
30	28.34	28.33	34.42	21.852	596.8	0.182	30
50	27.30	27.29	34.57	22.304	554.4	0.298	50
75	24.44	24.42	34.78	23.350	455.4	0.424	76
100	22.18	22.16	34.83	24.045	389.9	0.529	101
125	20.77	20.75	34.83	24.435	353.6	0.622	126
150	19.74	19.71	34.82	24.701	329.1	0.708	151
200	18.59	18.55	34.80	24.982	303.9	0.866	201
250	17.16	17.12	34.75	25.295	275.5	1.011	252
300	15.68	15.63	34.69	25.593	248.2	1.142	302
400	12.76	12.71	34.49	26.057	205.4	1.369	403
500	9.61	9.55	34.33	26.504	162.7	1.553	504
600	6.55	6.49	34.27	26.912	122.3	1.695	605
700	5.42	5.36	34.32	27.094	104.8	1.809	706
800	4.64	4.58	34.36	27.216	93.2	1.908	807
1000	3.48	3.41	34.43	27.392	76.0	2.077	1009
1200	3.06	2.98	34.47	27.464	69.6	2.222	1212
1500	2.64	2.54	34.51	27.535	63.6	2.422	1516

STD 62 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 32.0 N	139 00.5 E	31/08/73	2256 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.30	28.30	34.18	21.682	611.6	0.000	0
10	28.29	28.29	34.19	21.694	610.9	0.061	10
20	28.31	28.31	34.22	21.711	609.8	0.122	20
30	28.18	28.17	34.36	21.859	596.1	0.182	30
50	27.73	27.72	34.59	22.180	566.3	0.299	50
75	25.25	25.23	34.71	23.053	483.8	0.430	76
100	22.95	22.93	34.80	23.804	413.0	0.542	101
125	21.42	21.40	34.74	24.189	377.1	0.641	126
150	19.72	19.69	34.81	24.699	329.3	0.729	151
200	17.74	17.71	34.79	25.184	284.5	0.883	201
250	15.52	15.48	34.64	25.589	246.9	1.015	252
300	14.05	14.01	34.58	25.862	221.8	1.133	302
400	10.76	10.71	34.42	26.376	173.6	1.330	403
500	8.29	8.24	34.35	26.728	140.1	1.487	504
600	5.99	5.94	34.27	26.984	114.8	1.615	605
700	5.01	4.95	34.35	27.165	97.4	1.721	706
800	4.13	4.07	34.36	27.270	87.1	1.813	807
1000	3.37	3.30	34.44	27.410	74.0	1.974	1009
1200	2.96	2.88	34.47	27.473	68.5	2.117	1212
1500	2.49	2.39	34.53	27.564	60.4	2.310	1516

TASADAY EXPEDITION LEG IV STD 63

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 42.5 N	139 08.5 E	01/09/73	0208 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.30	28.30	34.15	21.660	613.7	0.000	0
10	28.25	28.25	34.18	21.699	610.4	0.061	10
20	27.84	27.84	34.33	21.947	587.2	0.121	20
30	27.44	27.43	34.46	22.174	565.9	0.179	30
50	26.63	26.62	34.58	22.524	533.3	0.289	50
75	25.04	25.02	34.69	23.102	479.2	0.415	76
100	21.87	21.85	34.70	24.033	391.0	0.524	101
125	19.93	19.91	34.75	24.597	338.0	0.615	126
150	18.77	18.74	34.73	24.881	311.7	0.696	151
200	15.76	15.73	34.65	25.541	249.9	0.837	201
250	13.94	13.90	34.55	25.860	220.4	0.954	252
300	12.56	12.52	34.50	26.101	198.3	1.059	302
400	9.48	9.43	34.37	26.555	155.6	1.236	403
500	6.35	6.30	34.25	26.921	119.7	1.374	504
600	5.62	5.57	34.28	27.037	109.2	1.488	605
700	4.28	4.23	34.35	27.245	88.7	1.587	706
800	3.80	3.74	34.38	27.319	81.8	1.672	807
1000	3.27	3.20	34.44	27.420	72.9	1.827	1009
1200	2.93	2.85	34.48	27.484	67.4	1.967	1212
1500	2.56	2.46	34.52	27.550	61.9	2.161	1516

STD 64 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 55.0 N	139 14.0 E	01/09/73	0617 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.36	28.36	34.00	21.527	626.4	0.000	0
10	28.20	28.20	34.01	21.588	621.1	0.062	10
20	28.11	28.11	34.17	21.738	607.1	0.124	20
30	27.19	27.18	34.21	22.066	576.2	0.183	30
50	26.17	26.16	34.28	22.443	541.1	0.295	50
75	22.40	22.38	34.54	23.762	415.9	0.414	76
100	20.47	20.45	34.73	24.438	352.3	0.510	101
125	19.28	19.26	34.78	24.788	319.7	0.594	126
150	17.82	17.79	34.71	25.101	290.5	0.671	151
200	14.20	14.17	34.57	25.820	222.9	0.799	201
250	12.34	12.31	34.48	26.127	194.4	0.903	252
300	10.70	10.66	34.42	26.384	170.4	0.995	302
400	7.26	7.22	34.25	26.797	130.7	1.145	403
500	6.65	6.60	34.27	26.898	122.3	1.272	504
600	6.19	6.14	34.28	26.967	116.7	1.391	605
700	5.06	5.00	34.33	27.144	99.5	1.499	706
800	3.93	3.87	34.39	27.314	82.5	1.590	807
900	3.68	3.61	34.42	27.364	78.3	1.671	908

TASADAY EXPEDITION LEG IV STD 65

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
34 02.0 N	139 14.0 E	01/09/73	0807 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.41	28.41	34.06	21.556	623.7	0.000	0
10	28.36	28.36	34.08	21.588	621.1	0.062	10
20	27.94	27.94	34.17	21.794	601.8	0.123	20
30	26.29	26.28	34.24	22.374	546.7	0.181	30
50	23.82	23.81	34.44	23.275	461.4	0.282	50
75	21.33	21.32	34.55	24.067	386.7	0.388	76
100	19.58	19.56	34.68	24.633	333.5	0.478	101
125	17.01	16.99	34.59	25.203	279.8	0.554	126
150	14.74	14.72	34.62	25.741	229.0	0.618	151
200	13.18	13.15	34.51	25.983	207.0	0.727	202
250	11.43	11.40	34.44	26.267	180.7	0.824	252
300	10.76	10.72	34.41	26.366	172.2	0.912	302
375	9.66	9.62	34.36	26.517	158.8	1.036	378

STD 66 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 55.5 N	139 24.0 E	01/09/73	1035 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.49	28.49	34.14	21.590	620.4	0.000	0
10	28.45	28.45	34.17	21.626	617.4	0.062	10
20	28.25	28.25	34.24	21.745	606.5	0.123	20
30	27.64	27.63	34.36	22.035	579.2	0.182	30
50	27.02	27.01	34.48	22.326	552.3	0.296	50
75	24.90	24.88	34.74	23.182	471.5	0.424	76
100	22.63	22.61	34.67	23.797	413.7	0.534	101
125	20.48	20.46	34.79	24.482	349.1	0.629	126
150	18.61	18.58	34.75	24.937	306.4	0.711	151
200	16.55	16.52	34.69	25.391	264.4	0.854	201
250	15.02	14.98	34.61	25.676	238.4	0.980	252
300	13.40	13.36	34.54	25.965	211.7	1.092	302
400	10.33	10.28	34.35	26.396	171.3	1.284	403
500	7.93	7.88	34.30	26.742	138.4	1.439	504
600	6.10	6.05	34.31	27.002	113.2	1.565	605
700	4.49	4.44	34.35	27.223	91.1	1.667	706
800	3.84	3.78	34.39	27.323	81.5	1.753	807
1000	2.92	2.85	34.49	27.491	65.3	1.900	1009
1060	2.85	2.78	34.49	27.498	64.9	1.939	1070

TASADAY EXPEDITION LEG IV STD 67

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 42.5 N	139 31.0 E	01/09/73	1336 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.44	28.44	34.24	21.681	611.7	0.000	0
10	28.43	28.43	34.24	21.685	611.8	0.061	10
20	28.39	28.39	34.25	21.707	610.2	0.122	20
30	28.37	28.36	34.34	21.782	603.5	0.183	30
50	27.85	27.84	34.46	22.043	579.4	0.301	50
75	26.03	26.01	34.50	22.654	522.0	0.439	76
100	24.24	24.22	34.80	23.427	449.2	0.560	101
125	22.41	22.38	34.81	23.967	398.5	0.666	126
150	20.90	20.87	34.83	24.401	357.9	0.761	151
200	18.86	18.82	34.79	24.906	311.2	0.928	201
250	17.43	17.39	34.76	25.238	281.0	1.076	252
300	15.90	15.85	34.68	25.536	253.7	1.210	302
400	12.64	12.59	34.45	26.049	206.0	1.440	403
500	9.73	9.67	34.30	26.461	166.9	1.626	504
600	6.99	6.93	34.23	26.822	131.4	1.775	605
700	5.80	5.74	34.32	27.048	109.8	1.896	706
800	4.81	4.75	34.36	27.197	95.3	1.998	807
1000	3.66	3.59	34.41	27.359	79.6	2.173	1009
1200	3.05	2.97	34.47	27.465	69.5	2.322	1212
1500	2.54	2.44	34.52	27.552	61.7	2.519	1516

STD 68 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 27.0 N	139 32.0 E	01/09/73	1826 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.32	28.32	34.18	21.676	612.2	0.000	0
10	28.31	28.31	34.18	21.680	612.3	0.061	10
20	28.15	28.15	34.26	21.793	601.9	0.122	20
30	27.78	27.77	34.43	22.042	578.5	0.181	30
50	24.68	24.67	34.68	23.201	468.5	0.286	50
75	22.75	22.73	34.84	23.890	403.7	0.395	76
100	21.51	21.49	34.86	24.255	369.9	0.491	101
125	20.64	20.62	34.83	24.469	350.3	0.581	126
150	20.09	20.06	34.82	24.609	337.8	0.667	151
200	18.53	18.49	34.82	25.012	301.0	0.827	201
250	17.16	17.12	34.77	25.311	274.0	0.971	252
300	16.31	16.26	34.74	25.488	258.5	1.104	302
400	13.42	13.36	34.55	25.972	214.0	1.340	403
500	11.63	11.57	34.43	26.229	190.8	1.543	504
600	8.49	8.43	34.28	26.644	150.1	1.713	605
700	6.63	6.56	34.31	26.934	121.8	1.849	706
800	5.11	5.04	34.32	27.131	102.0	1.961	807
1000	3.80	3.73	34.40	27.337	81.9	2.145	1009
1200	3.05	2.97	34.47	27.465	69.5	2.296	1212
1300	2.89	2.80	34.48	27.488	67.6	2.365	1313

TASADAY EXPEDITION LEG IV STD 69

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 45.5 N	139 48.5 E	01/09/73	2135 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.40	28.40	34.22	21.679	611.8	0.000	0
10	28.40	28.40	34.22	21.680	612.2	0.061	10
20	28.42	28.42	34.25	21.697	611.1	0.122	20
30	28.36	28.35	34.42	21.845	597.4	0.183	30
50	27.91	27.90	34.51	22.062	577.6	0.300	50
75	24.23	24.21	34.70	23.352	455.1	0.429	76
100	22.57	22.55	34.81	23.920	401.9	0.537	101
125	21.60	21.58	34.80	24.185	377.5	0.634	126
150	20.63	20.60	34.82	24.466	351.6	0.725	151
200	18.66	18.62	34.80	24.965	305.6	0.889	201
250	17.14	17.10	34.75	25.300	275.0	1.035	252
300	15.86	15.81	34.69	25.553	252.1	1.166	302
400	12.86	12.80	34.51	26.053	205.9	1.395	403
500	10.49	10.43	34.36	26.379	175.4	1.586	504
600	8.62	8.56	34.28	26.625	152.2	1.750	605
700	6.59	6.52	34.26	26.900	125.0	1.888	706
800	5.43	5.36	34.33	27.102	105.4	2.004	807
1000	3.82	3.75	34.38	27.319	83.7	2.193	1009
1037	3.69	3.61	34.41	27.356	80.2	2.223	1047

STD 70 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 50.5 N	139 41.5 E	02/09/73	0342 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.67	28.67	34.34	21.681	611.7	0.000	0
10	28.50	28.50	34.33	21.730	607.5	0.061	10
20	28.40	28.40	34.32	21.756	605.5	0.122	20
30	28.12	28.11	34.39	21.901	592.0	0.181	30
50	27.64	27.63	34.55	22.179	566.4	0.297	50
75	25.29	25.27	34.70	23.033	485.7	0.429	76
100	23.22	23.20	34.72	23.665	426.3	0.543	101
125	21.01	20.99	34.77	24.324	364.2	0.642	126
150	19.96	19.93	34.78	24.613	337.5	0.729	151
200	18.46	18.42	34.78	24.999	302.2	0.889	201
250	17.91	17.87	34.76	25.122	292.2	1.038	252
300	15.00	14.95	34.65	25.713	236.5	1.170	302
400	11.40	11.35	34.38	26.230	188.0	1.382	403
500	9.22	9.16	34.36	26.591	154.1	1.553	504
600	6.33	6.28	34.25	26.925	120.8	1.691	605
700	4.68	4.62	34.32	27.179	95.6	1.799	706
800	3.85	3.79	34.38	27.314	82.4	1.888	807
1000	3.11	3.04	34.45	27.442	70.4	2.041	1009
1200	2.79	2.71	34.49	27.504	65.1	2.176	1212
1249	2.76	2.67	34.50	27.515	64.3	2.208	1261

TASADAY EXPEDITION LEG IV STD 71

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 48.0 N	139 44.5 E	02/09/73	0551 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.55	28.55	34.23	21.638	615.8	0.000	0
10	28.54	28.54	34.23	21.642	615.9	0.062	10
20	28.46	28.46	34.24	21.676	613.1	0.123	20
30	28.35	28.34	34.32	21.773	604.3	0.184	30
50	27.83	27.82	34.47	22.057	578.0	0.302	50
75	25.64	25.62	34.68	22.910	497.5	0.437	76
100	23.05	23.03	34.82	23.790	414.4	0.551	101
125	20.81	20.79	34.82	24.416	355.4	0.647	126
150	20.03	20.00	34.82	24.625	336.3	0.733	151
200	18.31	18.28	34.80	25.052	297.2	0.892	201
250	17.09	17.05	34.78	25.335	271.7	1.034	252
300	14.65	14.60	34.59	25.742	233.5	1.160	302
400	11.75	11.70	34.42	26.196	191.4	1.373	403
500	9.76	9.70	34.38	26.518	161.5	1.549	504
600	6.28	6.23	34.26	26.939	119.3	1.689	605
700	5.73	5.67	34.33	27.065	108.1	1.803	706
800	4.44	4.38	34.37	27.245	90.0	1.902	807
1000	3.61	3.54	34.41	27.364	79 0	2.071	1009

STD 72 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
33 42.5 N	139 31.0 E	02/09/73	0901 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.63	28.63	34.29	21.656	614.1	0.000	0
10	28.64	28.64	34.30	21.661	614.1	0.061	10
20	28.36	28.36	34.41	21.837	597.7	0.122	20
30	28.16	28.15	34.47	21.948	587.5	0.181	30
50	27.18	27.17	34.58	22.350	550.0	0.295	50
75	24.18	24.16	34.80	23.443	446.5	0.420	76
100	22.30	22.28	34.83	24.011	393.2	0.525	101
125	20.95	20.93	34.83	24.386	358.3	0.618	126
150	19.27	19.24	34.81	24.815	318.1	0.703	151
200	17.58	17.55	34.79	25.223	280.7	0.853	201
250	16.48	16.44	34.73	25.440	261.5	0.988	252
300	15.08	15.03	34.65	25.695	238.2	1.113	302
400	12.06	12.01	34.45	26.161	195.0	1.330	403
500	9.70	9.64	34.31	26.474	165.6	1.510	504
600	6.70	6.64	34.26	26.884	125.1	1.655	605
700	5.61	5.55	34.31	27.063	108.0	1.772	706
800	4.46	4.40	34.37	27.243	90.3	1.871	807
1000	3.33	3.26	34.44	27.414	73.6	2.035	1009
1200	2.91	2.83	34.48	27.486	67.2	2.176	1212
1500	2.53	2.43	34.52	27.552	61.6	2.369	1516

TASADAY EXPEDITION LEG IV CSTD 73

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
32 35.0 N	140 00.5 E	05/09/73	1133 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.02	28.02	34.65	22.127	569.0	0.000	0
10	27.36	27.36	34.61	22.312	551.8	0.056	10
20	25.86	25.86	34.59	22.771	508.3	0.109	20
30	24.45	24.44	34.62	23.224	465.5	0.158	30
50	22.10	22.09	34.73	23.989	393.2	0.244	50
75	21.16	21.15	34.79	24.296	364.9	0.338	76
100	20.27	20.25	34.80	24.544	342.1	0.427	101
125	19.44	19.42	34.80	24.762	322.2	0.510	126
150	19.05	19.02	34.79	24.856	314.2	0.589	151
200	18.07	18.04	34.77	25.088	293.7	0.741	201
250	17.08	17.04	34.74	25.307	274.3	0.883	252
300	16.06	16.01	34.69	25.507	256.5	1.016	302
400	13.83	13.77	34.55	25.888	222.2	1.255	403
500	11.52	11.46	34.39	26.218	191.7	1.462	504
600	9.20	9.13	34.29	26.541	160.8	1.639	605
700	6.74	6.67	34.25	26.873	127.8	1.783	706
800	5.55	5.48	34.26	27.032	112.1	1.903	807
1000	3.75	3.68	34.32	27.278	87.3	2.102	1009
1200	3.08	3.00	34.43	27.431	72.8	2.262	1212
1500	2.33	2.23	34.55	27.593	57.1	2.457	1515

CSTD 74 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
32 25.0 N	140 06.0 E	05/09/73	1818 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.14	28.14	34.63	22.073	574.2	0.000	0
10	27.97	27.97	34.66	22.152	567.1	0.057	10
20	27.03	27.03	34.62	22.425	541.4	0.112	20
30	25.85	25.84	34.61	22.790	507.0	0.165	30
50	23.12	23.11	34.62	23.615	428.9	0.258	50
75	21.57	21.56	34.76	24.161	377.8	0.359	76
100	20.03	20.01	34.78	24.592	337.5	0.449	101
125	19.30	19.28	34.80	24.798	318.7	0.531	126
150	18.75	18.72	34.79	24.932	306.9	0.609	151
200	17.79	17.76	34.76	25.149	287.8	0.758	201
250	17.12	17.08	34.74	25.297	275.3	0.898	252
300	16.05	16.00	34.67	25.494	257.8	1.032	302
400	14.38	14.32	34.58	25.796	231.4	1.276	403
500	11.75	11.68	34.41	26.191	194.5	1.489	504
600	9.24	9.17	34.29	26.535	161.5	1.667	605
700	6.50	6.43	34.24	26.896	125.2	1.810	706
800	5.36	5.29	34.27	27.063	108.9	1.927	807
1000	3.83	3.76	34.36	27.302	85.2	2.122	1009
1200	3.03	2.95	34.44	27.443	71.5	2.278	1212
1439	2.51	2.41	34.51	27.546	61.8	2.438	1454

TASADAY EXPEDITION LEG IV CSTD 77

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
32 19.0 N	139 48.5 E	06/09/73	0822 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.18	28.18	34.38	21.872	593.4	0.000	0
10	27.97	27.97	34.45	21.994	582.2	0.059	10
20	27.35	27.35	34.50	22.233	559.8	0.116	20
30	26.72	26.71	34.57	22.487	535.9	0.171	30
50	23.43	23.42	34.54	23 465	443.2	0.269	50
75	21.90	21.89	34.76	24.069	386.6	0.372	76
100	21.06	21.04	34.80	24.332	362.4	0.466	101
125	20.37	20.35	34.81	24.526	344 8	0.554	126
150	19.31	19.28	34.80	24.797	319.8	0.637	151
200	18.00	17.97	34.78	25.113	291.3	0.790	201
250	17.33	17.29	34.76	25.262	278.7	0.933	252
300	17.04	16.99	34.76	25.333	273.5	1.071	302
400	15.63	15.57	34.63	25.562	254.4	1.335	403
500	11.56	11.50	34.40	26.218	191.7	1.558	504
600	9.19	9.12	34.32	26.566	158.4	1.733	605
700	7.67	7.60	34.27	26.760	139.9	1.882	706
800	5.37	5.30	34.28	27.069	108.3	2.006	807
1000	3.69	3.62	34.38	27.332	82.1	2.196	1009
1200	3.05	2.97	34.45	27.449	71.0	2.350	1212
1363	2.80	2.70	34.48	27.496	66.9	2.462	1377

STD 78 RV THOMAS WASHINGTON

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
32 08.0 N	139 50.0 E	06/09/73	1200 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.22	28.22	34.38	21.859	594.7	0.000	0
10	28.25	28.25	34.54	21.970	584.5	0.059	10
20	28.18	28.18	34.58	22.024	579.8	0.117	20
30	27.65	27.64	34.59	22.205	563.0	0.174	30
50	24.71	24.70	34.65	23.169	471.5	0.278	50
75	22.04	22.03	34.75	24.022	391.0	0.386	76
100	20.92	20.90	34.80	24.370	358.8	0.479	101
125	20.05	20.03	34.81	24.611	336.7	0.566	126
150	19.30	19.27	34.81	24.807	318.8	0.648	151
200	17.82	17.79	34.79	25.165	286.3	0.799	201
250	17.20	17.16	34.78	25.309	274.2	0.940	252
300	16.71	16.66	34.75	25.403	266.7	1.075	302
400	15.14	15.08	34.66	25.693	241.6	1.329	403
500	12.63	12.56	34.49	26.085	205.3	1.552	504
600	9.53	9.46	34.31	26.504	164.8	1.738	605
700	7.36	7.29	34.28	26.811	134.6	1.887	706
800	5.73	5.66	34.30	27.042	111.6	2.010	807
1000	3.93	3.85	34.39	27.316	84.2	2.206	1009

TASADAY EXPEDITION LEG IV STD 79

LATITUDE	LONGITUDE	DAY/MO/YR	START TIME	BOTTOM
32 45.0 N	140 01.5 E	06/09/73	1707 GMT	M

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	28.07	28.07	34.57	22.051	576.3	0.000	0
10	28.07	28.07	34.57	22.051	576.7	0.058	10
20	28.08	28.08	34.57	22.049	577.4	0.115	20
30	27.36	27.35	34.66	22.351	549.0	0.172	30
50	25.18	25.17	34.65	23.027	485.2	0.275	50
75	22.01	22.00	34.79	24.061	387.4	0.384	76
100	21.06	21.04	34.79	24.324	363.2	0.478	101
125	20.15	20.13	34.81	24.585	339.3	0.566	126
150	19.70	19.67	34.80	24.696	329.5	0.649	151
200	18.63	18.59	34.79	24.964	305.6	0.808	201
250	17.16	17.12	34.77	25.311	274.0	0.953	252
300	16.36	16.31	34.72	25.462	261.0	1.087	302
400	14.36	14.30	34.59	25.807	230.2	1.332	403
500	12.06	11.99	34.45	26.164	197.4	1.546	504
600	9.26	9.19	34.34	26.571	158.1	1.724	605
700	7.26	7.19	34.28	26.825	133.1	1.870	706
800	6.06	5.99	34.29	26.993	116.8	1.994	807
1000	4.01	3.93	34.35	27.276	88.1	2.199	1009
1200	3.31	3.22	34.42	27.402	76.2	2.364	1212
1500	2.52	2.42	34.50	27.537	62.9	2.572	1515

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV — STATION 1

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
31 35.5 N	140 0.0 E	17/08/73	0728 GMT	1369 m	160 08 kn	180 04 06	1		30.3 C	26.8 C		3/8	CU

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
2	0	27.18	27.18	34.615	22.372	545.5	0.000	4.70	102.9	2.0	0.09					0
2	20	26.57	26.57	34.626	22.576	527.0	0.107	4.68	101.5	2.0	0.06					20
2	40	23.67	23.66	34.678	23.499	439.6	0.204	5.06	104.4	2.0	0.07					40
2	59	22.92	22.91	34.698	23.733	418.1	0.285	5.14	104.7	2.0	0.07					59
1	75	21.82	21.81	34.729	24.068	386.7	0.350	5.17	103.3	2.0	0.23					75
2	79	21.63	21.61	34.743	24.131	380.8	0.365	5.13	102.1	2.0	0.09					79
1	106	20.31	20.29	34.778	24.517	345.0	0.463	4.9[illegible]	96.0	3.0	0.20					106
1	147	19.05	19.02	34.795	24.860	313.7	0.598	4.66	88.5	4.0	0.36					148
1	187	17.92	17.89	34.773	25.127	289.5	0.719	4.57	84.9	6.0	0.47					188
1	227	17.35	17.31	34.765	25.260	278.0	0.832	4.52	83.0	7.0	0.85 U					228
1	266	16.36	16.32	34.714	25.456	260.5	0.937	4.41	79.4	9.0	0.67					267
1	316	14.82	14.77	34.628	25.736	234.7	1.061	4.24	74.0	14.0	0.86					317
1	367	13.29	13.24	34.531	25.982	211.9	1.175	4.00	67.6	21.0	1.11					369
1	437	12.33	12.27	34.464	26.121	199.9	1.319	3.85	63.8	26.0	1.40					439
1	506	10.68	10.62	34.376	26.358	177.7	1.449	3.55	56.7	37.0	1.73					509
1	584	9.81	9.74	34.342	26.482	166.8	1.584	3.35	52.5	43.0	1.75					587
1	672	7.76	7.69	34.286	26.759	139.7	1.719	2.77	41.4	63.0	2.16					676
1	769	5.74	5.67	34.257	27.006	114.5	1.842	2.17	31.0	85.0	2.39					774
1	867	4.80	4.73	34.296	27.148	100.6	1.947	1.79	25.0	104.0	2.75					873
1	966	4.12	4.05	34.334	27.252	90.4	2.042	1.54	21.1	118.0	3.10					973

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV — STATION 4

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
32 25.0 N	140 4.0 E	17/08/73	1850 GMT										

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
2	0	27.01	27.01	34.629	22.437	539.3	0.000	4.78	104.4	2.0	0.29					0
2	20	26.84	26.84	34.637	22.499	534.3	0.107	4.89	106.5	2.0	0.04					20
2	40	24.97	24.96	34.668	23.104	477.4	0.209	5.15	108.7	2.0	0.20					40
2	60	22.64	22.63	34.748	23.851	406.8	0.297	5.23	106.0	2.0	0.11					60
2	80	21.59	21.57	34.768	24.161	378.0	0.375	5.08	101.[illegible]	2.0	0.14					80
2	100	20.70	20.68	34.822	24.446	351.5	0.448	4.77	93.4	3.0	0.23					100
2	130	19.66	19.64	34.812	24.715	327.0	0.550	4.70	90.3	3.0	0.29					130
2	170	18.81	18.78	34.801	24.926	308.2	0.677	4.15	78.4	4.0	0.32					171
2	210	17.98	17.94	34.790	25.126	290.4	0.797	4.24	78.9	5.0	0.36					211
2	250	17.24	17.20	34.772	25.293	275.7	0.910	4.40 A	80.7	4.0	0.36					251
2	290	16.92	16.87	34.766	25.366	270.0	1.019	4.92	89.6	5.0	0.43					291
2	340	16.02	15.97	34.718	25.539	254.8	1.150	4.14	74.1	8.0	0.58					342
2	390	14.38	14.32	34.595	25.807	230.0	1.272	3.13	54.1	14.0	0.86					392
2	459	12.90	12.84	34.494	26.034	209.3	1.423	2.99	50.1	21.0	1.14					461
2	528	10.81	10.74	34.352	26.317	182.3	1.558	2.93	46.9	31.0	1.52					531
2	607	9.14	9.07	34.283	26.546	160.5	1.694	2.28	35.2	44.0	1.83					611
2	695	6.90	6.83	34.272	26.868	128.4	1.821	2.09	30.6	71.0	2.29					699
2	792	5.04	4.97	34.293	27.118	103.0	1.933	1.65	23.2	97.0	2.64					797
2	889	4.44	4.37	34.336	27.219	93.4	2.028	1.65	22.8	109.0	2.75					895
2	986	4.04	3.96	34.361	27.282	87.6	2.116	1.41	19.3	121.0	2.89					993
1	1081	3.56	3.48	34.394	27.356	80.2	2.196	1.49	20.2	126.0	2.96					1089
1	1211	3.00	2.91	34.441	27.447	71.2	2.294	1.35	18.0	141.0	3.08					1221

A) AN ERROR OF 0.1 IN THE BURET READING HAS BEEN ASSUMED FOR THIS VALUE.

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV — STATION 5

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
32 17.5 N	139 57.0 E	17/08/73	2352 GMT	1345 m	210 15 kn	200 04 08	1	1015.2 mb	28.4 C	25.3 C		1/8	CI

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
2	0	27.59	27.59	34.626	22.249	557.3	0.000	4.62	101.9	2.0	0.04					0
2	20	26.64	26.64	34.631	22.558	528.7	0.109	4.77	103.5	2.0	0.02					20
1	24	26.49	26.48	34.633	22.607	524.2	0.130	3.11 U		1.0	0.03					24
2	40	23.90	23.89	34.719	23.462	443.1	0.207	5.04	104.4	2.0	0.05					40
1	44	23.50	23.49	34.731	23.589	431.2	0.225	3.83 U		2.0	0.03					44
2	60	22.78	22.77	34.770	23.827	409.1	0.292	5.06	102.8	2.0	0.06					60
1	74	21.94	21.93	34.787	24.078	385.6	0.347	2.90 U		3.0	0.07					74
2	80	21.73	21.71	34.783	24.134	380.6	0.370	4.87	97.1	2.0	0.10					80
2	100	21.13	21.11	34.798	24.311	364.4	0.445	4.73	93.3	3.0	0.16					100
1	114	20.74	20.72	34.819	24.434	353.3	0.495	3.23 U		2.0	0.12					114
2	130	20.08	20.06	34.819	24.610	337.0	0.550	4.55	88.1	3.0	0.18					130
1	154	19.39	19.36	34.804	24.780	321.7	0.629	3.49 U		3.0	0.22					155
1	194	18.52	18.49	34.798	24.998	302.2	0.754	2.97 U		4.0	0.28					195
1	234	17.90	17.86	34.785	25.143	289.7	0.873	3.15 U		4.0	0.32					235
1	284	16.66	16.61	34.755	25.418	264.8	1.011	2.89 U		8.0	0.51					285
1	334	15.35	15.30	34.653	25.640	244.7	1.138	3.29 U		11.0	0.72					336
1	375	14.33	14.27	34.592	25.815	228.8	1.236	3.80	65.7	16.0	0.88					377
1	475	11.75	11.69	34.436	26.210	192.0	1.446	3.33	54.5	28.0	1.32					478
1	554	9.76	9.70	34.338	26.487	165.7	1.587	3.17	49.6	42.0	1.68					557
1	642	7.78	7.71	34.281	26.751	139.9	1.722	2.77	41.5	61.0	2.10					646
1	740	5.64	5.58	34.271	27.029	111.8	1.845	2.10	29.9	87.0	2.53					745
1	838	4.68	4.61	34.313	27.174	97.5	1.948	1.78	24.8	104.0 U	2.74					844
1	936	3.93	3.86	34.359	27.291	86.0	2.037	1.61	22.0	117.0	2.85					943
1	1034	3.52	3.44	34.405	27.368	78.6	2.118	1.52	20.6	126.0	2.98					1042
1	1183	3.08	3.00	34.441	27.439	71.9	2.230	1.50	20.1	129.0	3.03					1193
1	1333	2.78	2.69	34.476	27.495	66.8	2.334	1.41	18.7	145.0	3.07					1345

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV — STATION 8

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
32 38.0 N	139 2.0 E	18/08/73	1412 GMT	1162 m	220 17 kn	04 08	1	1014 9 mb	28 0 C	25.5 C			

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
2	0	28.36	28.36	34.522	21.920	588.8	0.000	4.23	94.4	2.0	0.03					0
2	20	28.14	28.14	34.537	22.005	581.7	0.117	4.61	102.5	2.0	0.04					20
2	40	27.44	27.43	34.557	22.248	559.3	0.231	4.70	103.3	2.0	0.04					40
2	60	26.07	26.06	34.719	22.806	506.8	0.338	4.77	102.6	2.0	0.05					60
2	80	24.46	24.44	34.767	23.335	457.1	0.434	4.79	100.2	2.0	0.09					80
2	100	23.28	23.26	34.781	23.694	423.5	0.522	4.92	100.9	2.0	0.07					100
2	130	22.05	22.02	34.810	24.068	389.0	0.644	4.84	97.1	2.0	0.06					130
2	170	20.04	20.01	34.818	24.622	337.4	0.789			3.0	0.22 U					171
1	219	19.27	19.23	34.810	24.818	320.5	0.951	4.91	93.6	3.0	0.11					220
2	220	19.03	18.99	34.801	24.873	315.2	0.954	4.91	93.2	3.0	0.14					221
1	238	19.04	19.00	34.802	24.872	316.0	1.011	4.93	93.6	3.0	0.13					239
1	256	18.78	18.73	34.800	24.937	310.4	1.067	4.86	91.8	3.0	0.13					257
2	270	18.39	18.34	34.801	25.036	301.3	1.110	4.57	85.7	4.0	0.31					271
1	274	18.52	18.47	34.804	25.006	304.4	1.122	4.61	86.6	4.0	0.28					275
1	300	17.71	17.66	34.788	25.194	287.1	1.199	4.50	83.2	5.0	0.37					301
1	337	17.03	16.97	34.769	25.344	273.8	1.302	4.50	82.1	6.0	0.44					338
1	373	16.21	16.15	34.734	25.510	258.9	1.398	4.48	80.5	8.0	0.48					375
1	408	15.42	15.36	34.671	25.641	247.0	1.487	4.38	77.4	10.0	0.66					410
1	444	14.55	14.48	34.610	25.784	233.9	1.573	4.30	74.6	12.0	0.80					446
1	489	13.57	13.50	34.536	25.933	220.3	1.676	4.17	70.9	17.0	0.93					491
1	533	12.63	12.56	34.467	26.068	207.9	1.770	4.06	67.7	20.0	1.08					536
1	594	10.51	10.44	34.354	26.373	178.2	1.888	3.56	56.7	35.0	1.50					597
1	656	9.37	9.30	34.337	26.552	161.2	1.993	3.21	49.8	47.0	1.75					660
1	727	7.26	7.19	34.280	26.826	133.5	2.097	2.57	38.0	68.0	2.17					731
1	807	6.00	5.93	34.283	26.995	116.6	2.197	2.15	30.9	83.0	2.52					812
1	897	4.81	4.74	34.329	27.173	98.6	2.294	1.80	25.1	104.0	2.65					903

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV — STATION 9

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
32 39.0 N	138 52.0 E	18/08/73	1858 GMT	3308 m	250 13 kn	260 03 06	1	1015.6 mb	27.2 C	23.4 C		1/8	SC

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
2	1	28.01	28.01	34.559	22.062	575.3	0.006	4.61	102.3	2.0	0.04					1
2	21	28.02	28.02	34.556	22.058	576.6	0.121	4.65	103.2	2.0	0.01					21
2	41	27.99	27.98	34.568	22.078	575.6	0.236	4.63	102.7	2.0	0.02					41
2	81	24.69	24.67	34.756	23.258	464.5	0.444	4.83	101.5	2.0	0.06					81
2	101	22.64	22.62	34.797	23.890	404.8	0.531	4.88	98.9	2.0	0.11					101
1	119	21.55	21.53	34.819	24.213	374.6	0.601	4.56	90.7	3.0	0.15					119
2	131	21.53	21.50	34.811	24.213	375.1	0.646	4.60	91.4	2.0	0.13					131
1	139	21.12	21.09	34.814	24.328	364.4	0.676	4.52	89.2	3.0	0.19					139
1	170	20.46	20.43	34.820	24.512	348.0	0.786	4.55	88.7	3.0	0.22					171
1	209	19.39	19.35	34.817	24.792	322.6	0.917	4.74	90.6	3.0	0.19					210
1	249	18.63	18.59	34.807	24.980	306.0	1.043	4.62	87.0	4.0	0.27					250
1	288	17.87	17.82	34.795	25.160	289.9	1.159	4.48	83.1	5.0	0.37					289
1	328	17.14	17.09	34.778	25.325	275.4	1.272	4.53	82.9	6.0	0.42					329
1	427	15.14	15.07	34.648	25.685	243.2	1.529	4.33	76.1	11.0	0.70					429
1	496	13.10	13.03	34.493	25.995	214.2	1.687	4.15	69.9	18.0	1.00					499
1	565	11.49	11.42	34.423	26.251	190.2	1.826	3.67	59.7	30.0	1.38					568
1	643	8.81	8.74	34.248	26.571	158.3	1.962	3.27	50.1	45.0	1.84					647
1	731	7.43	7.36	34.296	26.815	134.9	2.091	2.57	38.1	66.0	2.30					736
1	828	5.54	5.47	34.290	27.057	110.1	2.210	2.00	28.4	89.0	2.63					833
1	925	4.54	4.47	34.332	27.205	95.3	2.309	1.72	23.8	117.0 U	2.82					931
1	1022	3.84	3.76	34.371	27.310	84.8	2.397	1.57	21.4	119.0	2.92					1030
1	1167	3.33	3.25	34.420	27.399	76.2	2.513	1.50	20.2	132.0	2.97					1176
1	1310	2.95	2.86	34.469	27.474	69.1	2.617	1.64	21.9	138.0	3.01					1321
1	1453	2.61	2.51	34.511	27.538	62.9	2.712	1.85	24.5	144.0	2.97					1466
1	1598	2.38	2.27	34.548	27.588	58.3	2.800	2.02	26.6	148.0	2.92					1613
1	1746	2.22	2.10	34.574	27.622	55.2	2.884	2.22	29.1	150.0	2.87					1763

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV — STATION 12

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
32 50.0 N	138 43.0 E	19/08/73	1052 GMT	2225 m	020 15 kn	240 02	1	1014.9 mb	28.4 C	25.5 C		2/8	CU

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
2	0	28.36	28.36	34.534	21.928	588.0	0.000	4.61	102.9	2.0	0.05					0
2	20	28.34	28.34	34.531	21.934	588.4	0.118	4.63	103.3	1.0	0.04					20
1	36	27.54	27.53	34.555	22.214	562.3	0.210	4.72	103.9	2.0	0.03					36
2	50	26.31	26.30	34.678	22.699	516.6	0.285	4.82	104.0	2.0	0.06					50
2	80	23.48	23.46	34.758	23.617	430.0	0.427	5.11	105.1	2.0	0.04					80
1	105	22.82	22.80	34.756	23.808	412.8	0.533	4.55	92.5	2.0	0.04					105
2	119	22.09	22.07	34.807	24.054	389.9	0.589	4.93	99.0	2.0	0.07					119
1	175	20.04	20.01	34.823	24.626	337.3	0.792	4.58	88.6	3.0	0.10					176
1	262	18.06	18.01	34.812	25.125	292.4	1.066	4.51	84.0	4.0	0.30					263
1	361	16.37	16.31	34.736	25.474	261.9	1.341	4.43	79.8	8.0	0.50					363
1	458	14.20	14.13	34.583	25.838	229.0	1.579	4.16	71.7	16.0	0.79					460
1	553	11.48	11.41	34.390	26.226	192.2	1.775	3.98	64.7	25.0	1.11					556
1	648	8.73	8.66	34.228	26.568	158.6	1.945	3.40	52.0	45.0	1.82					652
1	800	5.78	5.71	34.258	27.003	115.4	2.154	2.16	30.8	83.0	2.52					805
1	951	4.22	4.15	34.346	27.251	90.6	2.309	1.65	22.7	113.0	2.71					958
1	1103	3.68	3.60	34.409	27.357	80.7	2.439	1.53	20.8	123.0	2.72					1112
1	1255	3.27	3.18	34.430	27.414	75.4	2.558	1.61	21.6	133.0	2.95					1265
1	1408	2.79	2.69	34.498	27.512	65.7	2.666	1.74	23.1	143.0	2.98					1420
1	1564	2.54	2.43	34.527	27.558	61.5	2.765	1.89	24.9	148.0	2.85					1578
1	1723	2.33	2.21	34.556	27.599	57.7	2.860	2.13	28.0	144.0	2.92					1740

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV — STATION 15

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
33 0.5 N	138 50.5 E	19/08/73	2157 GMT	1697 m	270 15 kn	270 04 06	1	1017.9 mb	28.8 C	26.0 C		3/8	SC

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
2	0	28.32	28.32	34.549	21.953	585.6	0.000	4.53	101.0	2.0	0.00					0
2	20	28.32	28.32	34.549	21.955	586.5	0.117	4.56	101.7	2.0	0.01					20
2	50	24.77	24.76	34.520	23.053	482.6	0.278	5.01	105.3	2.0	0.02					50
2	80	23.01	22.99	34.754	23.750	417.3	0.413	4.89	99.8	2.0	0.07					80
2	120	21.36	21.34	34.826	24.271	369.1	0.570	4.48	88.8	3.0	0.22					120
2	160	19.79	19.76	34.816	24.686	331.0	0.710	4.55	87.6	3.0	0.22					161
1	168	19.57	19.54	34.817	24.744	325.6	0.736	4.53	86.9	3.0	0.20					169
1	206	18.63	18.59	34.814	24.983	304.1	0.856	4.71	88.7	3.0	0.21					207
2	211	18.65	18.61	34.809	24.974	305.1	0.871	4.61	86.9	4.0	0.25					212
1	245	17.99	17.95	34.783	25.120	292.3	0.973	4.37	81.3	6.0	0.37					246
1	293	17.03	16.98	34.766	25.340	272.7	1.108	4.42	80.7	6.0	0.45					294
1	342	16.16	16.10	34.716	25.506	258.1	1.238	4.42	79.3	9.0	0.60					344
1	391	15.10	15.04	34.647	25.692	241.4	1.361	4.28	75.1	12.0	0.71					393
1	459	13.20	13.14	34.507	25.984	214.2	1.515	4.06	68.5	18.0	1.03					461
1	527	11.31	11.24	34.403	26.267	187.5	1.652	3.65	59.1	30.0	1.39					530
1	614	9.24	9.17	34.262	26.513	163.8	1.805	3.35	51.8	40.0	1.74					618
1	712	6.88	6.81	34.220	26.830	132.2	1.950	2.63	38.5	65.0	2.20					716
1	807	5.31	5.24	34.263	27.063	108.9	2.064	2.01	28.4	88.0	2.56					812
1	904	4.56	4.49	34.330	27.202	95.4	2.164	1.68	23.3	104.0	2.76					910
1	1000	3.76	3.69	34.386	27.330	82.5	2.249	1.51	20.5	119.0	2.89					1007
1	1155	3.27	3.19	34.434	27.416	74.4	2.371	1.50	20.2	134.0	2.89					1164

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV — STATION 17

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
32 59.5 N	138 18.0 E	20/08/73	0905 GMT	3950 m	340 08 kn	250 01 03	1	1017.9 mb	29.9 C	26.3 C		3/8	SC

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
2	0	28.63	28.63	34.509	21.821	598.3	0.000	4.78	107.1	2.0	0.05					0
2	20	28.61	28.61	34.548	21.858	595.7	0.119	4.59	102.9	2.0	0.02					20
2	50	26.51	26.50	34.706	22.657	520.6	0.287	4.81	104.2	2.0	0.03					50
2	79	24.17	24.15	34.792	23.440	446.9	0.427	4.80	100.0	2.0	0.06					79
2	118	21.70	21.68	34.823	24.175	378.3	0.588	4.60	91.7	3.0	0.15					118
2	157	20.09	20.06	34.819	24.609	338.2	0.728	4.55	88.1	3.0	0.20					157
2	205	18.50	18.46	34.804	25.008	301.6	0.881	4.55	85.5	5.0	0.29					206
2	254	17.40	17.36	34.763	25.248	280.2	1.024	4.44	81.7	6.0	0.37					255
2	302	16.40	16.35	34.733	25.463	261.0	1.154	4.52	81.5	7.0	0.41					303
2	369	14.82	14.76	34.619	25.730	236.9	1.321	4.17	72.8	14.0	0.74					371
2	433	12.87	12.81	34.488	26.035	208.5	1.463	4.03	67.5	20.0	1.01					435
2	518	11.04	10.97	34.433	26.339	180.2	1.628	3.39	54.6	37.0	1.53					521
2	611	8.88	8.81	34.269	26.576	157.3	1.785	3.19	48.9	45.0	1.86					615
2	705	7.22	7.15	34.304	26.850	130.8	1.921	2.53	37.4	68.0	2.29					709
2	798	5.61	5.54	34.261	27.026	112.8	2.034	2.10	29.9	84.0	2.42					803
1	885	4.38	4.31	34.321	27.214	93.7	2.124	1.63	22.5	108.0	2.75					891
2	893	4.49	4.42	34.301	27.186	96.6	2.131	1.70	23.5	106.0	2.83					899
1	1041	3.60	3.52	34.405	27.361	79.6	2.262	1.45	19.7	123.0	2.88					1049
2	1048	3.67	3.59	34.398	27.349	81.0	2.267	1.90 U		104.0	2.62					1056
1	1198	3.10	3.01	34.456	27.450	71.1	2.381	1.61	21.6	133.0	2.85					1208
1	1353	2.84	2.74	34.489	27.500	66.6	2.488	1.68	22.3	138.0	2.94					1365
1	1509	2.65	2.54	34.521	27.543	63.0	2.589	1.84	24.4	144.0	2.74					1523
1	1664	2.40	2.28	34.550	27.588	58.7	2.684	2.02	26.6	146.0	2.75					1680
1	1822	2.25	2.12	34.577	27.623	55.7	2.774	2.21	28.9	148.0	2.80					1840
1	1977	2.07	1.93	34.613 U			2.858	2.61	34.0	148.0	2.79					1998
1	2132	1.96	1.81	34.613	27.676	50.9	2.938	2.65	34.4	150.0	2.86					2155
1	2288	1.89	1.73	34.624	27.692	49.8	3.017	2.75	35.7	149.0	2.80					2314
1	2443	1.78	1.61	34.636	27.710	48.1	3.093	2.95	38.1	149.0	2.80					2472
1	2599	1.71	1.52	34.646	27.724	46.9	3.167	3.10	40.0	149.0	2.60					2631
1	2755	1.63	1.43	34.659	27.742	45.5	3.239	3.23	41.6	148.0	2.47					2790
1	2911	1.57	1.36	34.664	27.751	44.8	3.309	3.35	43.0	147.0	1.94 U					2949
1	3067	1.52	1.29	34.672	27.762	44.0	3.378	3.46	44.4	146.0	2.39					3108
1	3224	1.49	1.25	34.680	27.771	43.4	3.447	3.54	45.4	146.0	2.46					3268
1	3382	1.48	1.22	34.680	27.773	43.7	3.516	3.58	45.8	144.0	2.47					3430
1	3539	1.50	1.22	34.682	27.775	44.3	3.585	3.58	45.9	145.0	2.55					3591
1	3697	1.50	1.21	34.682	27.776	44.7	3.655	3.59	46.0	145.0	2.60					3752

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV — STATION 27

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
33 42.5 N	139 31.0 E	22/08/73	1237 GMT	1787 m									

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	1	28.50	28.50	34.013	21.491	629.9	0.006									1
1	14	28.12	28.12	34.105 A	21.686	611.9	0.087									14
1	34	28.08	28.07	34.221 A	21.788	603.1	0.209									34
1	54	27.65	27.64	34.242	21.945	589.0	0.328									54
1	81	24.54	24.52	34.436	23.061	483.3	0.472									81
1	108	22.58	22.56	34.681	23.820	411.8	0.593									108
1	142	20.68	20.65	34.771	24.415	356.2	0.724									142
1	177	18.58	18.55	34.739	24.937	307.4	0.840									178
1	213	16.51	16.48	34.689	25.400	264.0	0.943									214
1	266	14.88	14.84	34.622	25.716	235.0	1.075									267
1	316	12.52	12.48	34.507	26.115	197.4	1.183									317
1	384	11.07	11.02	34.440	26.336	177.3	1.311									386
1	460	8.75	8.70	34.337	26.646	147.5	1.434									462
1	536	7.20	7.15	34.293	26.842	128.8	1.539									539
1	612	5.86	5.81	34.290	27.016	111.7	1.630									616
1	689	5.01	4.95	34.296	27.123	101.3	1.712									694
1	812	4.14	4.08	34.359	27.268	87.4	1.828									818
1	931	3.61	3.54	34.395	27.351	79.6	1.928									938
1	1045	3.25	3.18	34.442	27.423	72.8	2.015									1053
1	1155	2.94	2.86	34.473	27.477	67.8	2.092									1165

A) THE SALINITY SAMPLES AT 14 AND 34 METERS APPEAR TO HAVE BEEN REVERSED. THEY ARE ASSUMED TO NOW BE IN THE CORRECT ORDER.

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV — STATION 33

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
34 35.0 N	140 1.0 E	26/08/73	1945 GMT	2648 m									

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	853	3.58	3.52	34.362	27.327	81.1	0.692	1.64	22.2	127.0	2.47 U					860
1	871	3.52	3.46	34.365	27.335	80.3	0.706	1.76	23.8	131.0	2.86					879
1	898	3.46	3.40	34.376	27.350	79.0	0.728	1.67	22.6	132.0	2.89					906
1	933	3.41	3.34	34.382	27.360	78.3	0.755	1.76	23.7	134.0	2.92					941
1	969	3.31	3.24	34.386	27.373	77.1	0.783	1.79	24.1	135.0	3.02 U					978
1	1016	3.15	3.08	34.404	27.402	74.3	0.819	1.64	22.0	140.0	2.85 U					1025
1	1061	3.12	3.05	34.415	27.414	73.5	0.852	1.69	22.6	141.0	2.94					1071
1	1105	3.01	2.93	34.427	27.434	71.6	0.884	1.89 U		144.0	2.99					1115
1	1168	2.92	2.84	34.441	27.453	70.0	0.929	1.35	18.0	147.0	2.98					1179
1	1231	2.85	2.76	34.459	27.474	68.2	0.972	1.39	18.5	150.0	2.99					1243
1	1312	2.65	2.56	34.483	27.511	64.7	1.026	1.40	18.5	154.0	3.03					1325
1	1403	2.46	2.36	34.509	27.549	61.1	1.083	1.26	16.6	163.0 U	3.04					1417
1	1495	2.37	2.27	34.524	27.569	59.4	1.139	1.37	18.0	163.0	3.00					1510
1	1588	2.26	2.15	34.542	27.593	57.3	1.193	1.50	19.7	165.0	2.95					1605

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV — STATION 34A

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
34 21.5 N	139 56.0 E	27/08/73	0024 GMT	1645 m									

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	156	16.44	16.41	34.631	25.369	265.0	0.413	4.00	72.2	16.0	0.75					157
1	203	13.22	13.19	34.522	25.985	207.0	0.524	3.71	62.7	28.0	1.12					204
1	250	12.56	12.53	34.497	26.097	197.3	0.619	3.63	60.5	30.0	1.23					251
1	315	9.96	9.92	34.365	26.469	162.2	0.736	3.27	51.5	45.0	1.65					317
1	382	8.72	8.68	34.313	26.631	147.4	0.840	3.00	45.9	54.0	1.91					384
1	467	6.40	6.36	34.287	26.943	117.1	0.952	2.26	32.8	80.0	2.28					470
1	562	5.30	5.25	34.274	27.070	105.2	1.058	2.01	28.4	94.0	2.50					566
1	658	4.71	4.66	34.290	27.151	97.8	1.155	1.79	24.3	106.0	2.76 U					663
1	754	4.43	4.37	34.325	27.210	92.8	1.247	1.69	23.4							760
1	849	3.87	3.81	34.358	27.295	84.6	1.331	1.56	21.3	121.0	2.82					856
1	1001	3.30	3.23	34.381	27.370	77.6	1.454	1.32	17.8	134.0	2.95					1009
1	1153	2.86	2.78	34.441	27.459	69.2	1.566	1.19	15.8	147.0	3.02					1163
1	1302	2.61	2.52	34.479	27.511	64.5	1.665	1.18	15.6	155.0	3.04					1314
1	1449	2.48	2.38	34.501	27.541	62.2	1.759	1.21	15.9	159.0	3.00					1463
1	1596	2.38	2.27	34.532	27.575	59.4	1.848	1.41	18.5	160.0	3.00					1612

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV — STATION 34B

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
34 22.0 N	140 10.5 E	27/08/73	0211 GMT	1575 m	260 08 kn	260 03 05	1	1016.3 mb	28.1 C	26.1 C		4/8	AS

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	1	27.14	27.14	33.981	21.908	590.0	0.006	4.68	102.1	3.0	0.05					1
1	21	26.48	26.48	34.066	22.182	564.7	0.121	4.68	101.0	3.0	0.07					21
1	50	25.33	25.32	34.194	22.637	522.4	0.279	4.59	97.2	4.0	0.14					50
1	79	21.97	21.95	34.483	23.839	408.6	0.414	4.34	86.8	7.0	0.32					79
1	118	19.53	19.51	34.596	24.583	339.0	0.560	4.18	80.0	10.0	0.49					118
1	155	19.01	18.98	34.635	24.748	324.6	0.683	4.15	78.7	10.0	0.53					156
1	202	15.45	15.42	34.581	25.557	248.3	0.817	3.91	69.1	20.0	0.90					203
1	248	10.62	10.59	34.398	26.380	169.5	0.913	3.34	53.3	41.0	1.54					249

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV — STATION 37

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
34 0.5 N	140 5.5 E	27/08/73	1014 GMT	1088 m	220 20 kn	250 07 03	1	1016.6 mb	27.2 C	25.4 C		5/8	AC

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
3	0	27.69	27.69	33.965	21.719	608.0	0.000	4.65	102.3	2.0	0.02					0
3	19	27.50	27.50	34.076	21.866	594.9	0.114	4.66	102.3	2.0	0.07					19
1	48	25.50	25.49	34.302	22.666	519.5	0.276	4.58	97.3	3.0	0.11					48
3	50	24.51	24.50	34.384	23.028	485.0	0.286	4.59	95.9	4.0	0.12					50
3	80	23.72	23.70	34.468	23.328	457.7	0.427	4.53	93.4	4.0	0.09					80
1	88	20.73	20.71	34.641	24.299	365.0	0.460	4.18	81.8	7.0	0.31					88
1	128	19.10	19.08	34.773	24.829	315.9	0.596	4.29	81.5	6.0	0.32					128
1	167	16.74	16.71	34.743	25.386	263.9	0.709	4.35	79.0	8.0	0.49					168
1	207	16.06	16.03	34.698	25.510	253.2	0.813	4.27	76.5	11.0	0.59					208
2	275	14.54	14.50	34.608	25.779	229.2	0.977	4.06	70.5	17.0	0.83					276
2	322	13.87	13.82	34.578	25.899	218.9	1.082	3.96	67.8	20.0	0.92					324
2	386	10.94	10.89	34.452 A	26.369	174.1	1.208	3.52	56.6	36.0	1.42					388
2	448	9.73	9.68	34.335	26.487	163.3	1.313	3.36	52.6	42.0	1.64					450
2	518	8.56	8.50	34.261	26.617	151.2	1.423	3.25	49.5	50.0	1.84					521
2	596	7.13	7.07	34.280	26.842	129.7	1.532	2.59	38.2	70.0	2.20					600
2	684	6.07	6.01	34.270	26.975	116.9	1.641	2.30	33.1	84.0	2.37					689
2	772	4.72	4.66	34.322	27.176	96.7	1.735	1.81	25.2	104.0	2.66					777
2	861	4.42	4.35	34.340	27.224	92.6	1.819	1.70	23.5	112.0	2.70					867
2	954	4.11	4.04	34.363	27.276	88.0	1.903	1.67	22.9	118.0	2.77					961
2	1052	3.80	3.72	34.387	27.327	83.3	1.987	1.61	21.9	124.0	2.80					1060

A) AN ERROR OF 2.0 OHMS HAS BEEN ASSUMED FOR THIS VALUE.

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV — STATION 38

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
34 9.5 N	140 1.5 E	27/08/73	1437 GMT	1746 m	260 14 kn	250 03 08	1	1014.9 mb	27.7 C	24.8 C			

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
2	0	27.96	27.96	34.161	21.779	602.3	0.000	4.62	102.2	2.0	0.02					0
2	20	27.68	27.68	34.227	21.921	589.6	0.119	4.65	102.4	2.0	0.06					20
2	50	25.19	25.18	34.345	22.794	507.4	0.284	4.62	97.7	3.0	0.13					50
2	79	22.10	22.08	34.530	23.839	408.7	0.417	4.35	87.2	6.0	0.23					79
2	118	18.91	18.89	34.775	24.879	310.8	0.557	4.37	82.8	6.0	0.34					118
2	157	16.63	16.60	34.708	25.384	263.6	0.669	4.24	76.8	11.0	0.56					158
2	206	16.13	16.10	34.668	25.471	256.9	0.796	4.10	73.5	14.0	0.70					207
1	224	15.26	15.23	34.636	25.642	240.9	0.841	4.04	71.2	16.0	0.75					225
2	256	15.31	15.27	34.629	25.627	243.4	0.919	4.03	71.1	16.0	0.70					257
1	262	14.74	14.70	34.611	25.738	232.8	0.933	4.01	69.9	18.0	0.82					263
1	300	14.47	14.43	34.596	25.786	229.3	1.021	3.99	69.2	19.0	0.86					301
2	306	13.97	13.93	34.572	25.873	221.0	1.034	3.88	66.6	22.0	0.97					307
1	338	13.71	13.66	34.558	25.917	217.6	1.104	3.85	65.7	23.0	1.02					340
1	385	11.64	11.59	34.449	26.239	186.9	1.200	3.57	58.3	34.0	1.36					387
1	432	9.27	9.22	34.336	26.563	155.3	1.280	3.13	48.5	50.0	1.72					434
1	478	7.64	7.59	34.262	26.754	136.5	1.347	2.76	41.2	61.0	2.05					481
1	533	7.22	7.17	34.276	26.825	130.3	1.420	2.57	38.0	68.0	2.21					536
1	596	6.23	6.18	34.287	26.967	116.6	1.498	2.26	32.6	82.0	2.42					600
1	668	5.28	5.22	34.306	27.099	103.7	1.578	1.95	27.5	98.0	2.65					672
1	730	4.96	4.90	34.312	27.141	100.0	1.641	1.88	26.3	103.0	2.68					735
1	818	4.45	4.39	34.334	27.216	93.0	1.726	1.59	22.0	112.0	2.75					824
1	904	3.85	3.78	34.376	27.312	83.5	1.801	1.61	22.0	123.0	2.86					911
1	991	3.58	3.51	34.399	27.358	79.4	1.872	1.53	20.7	128.0	2.88					999
1	1076	3.21	3.13	34.438	27.424	72.9	1.937	1.60	21.5	136.0	2.91					1085
1	1167	3.02	2.94	34.463	27.462	69.5	2.002	1.63	21.8	139.0	2.92					1177
1	1258	2.72	2.63	34.469	27.494	66.2	2.064	1.33	17.6	149.0	3.02					1269
1	1352	2.56	2.47	34.495	27.529	63.0	2.124	1.28	16.9	157.0	3.03					1364
1	1446	2.34	2.24	34.529	27.575	58.5	2.181	1.40	18.4	159.0	3.05					1460

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV — STATION 40

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
34 1.5 N	139 51.5 E	27/08/73	2237 GMT		270 18 kn	270 04 07	1	1015.2 mb	27.8 C	26.1 C		4/8	CS

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
2	2	28.07	28.07	34.208	21.779	602.4	0.012	4.63	102.7	2.0	0.03					2
2	19	27.20	27.20	34.241	22.086	573.8	0.112	4.65	101.6	3.0	0.05					19
2	37	26.04	26.03	34.313	22.507	534.3	0.212	4.58	98.2	3.0	0.12					37
2	55	24.73	24.72	34.399	22.974	490.4	0.304	4.54	95.3	4.0	0.15					55
2	72	22.00	21.99	34.628	23.941	398.7	0.380	4.47	89.5	5.0	0.23					72
2	88	20.82	20.80	34.700	24.320	363.0	0.440	4.34	85.1	6.0	0.29					88
2	114	19.91	19.89	34.693	24.558	341.3	0.532	4.26	82.2	7.0	0.39					114
2	148	17.38	17.36	34.672	25.179	283.0	0.638	4.10	75.4	12.0	0.61					149
2	184	16.25	16.22	34.653	25.431	259.9	0.736	4.05	72.8	15.0	0.73					185
2	223	15.78	15.74	34.635	25.526	252.1	0.836	4.03	71.8	16.0	0.76					224
1	224	15.82	15.78	34.562 U			0.838	3.99	71.1	16.0	0.77					225
2	263	15.07	15.03	34.614	25.669	239.5	0.934	4.03	70.7	18.0	0.88					264
1	284	13.70	13.66	34.557	25.916	216.0	0.982	3.85	65.7	21.0	0.96					285
1	344	12.29	12.24	34.486	26.144	195.3	1.106	3.70	61.3	29.0	1.14					346
1	408	10.67	10.62	34.410	26.384	173.0	1.223	3.44	55.0	38.0	1.50					410
1	478	8.54	8.49	34.320	26.666	145.8	1.335	2.97	45.3	55.0	1.94					481
1	552	6.86	6.81	34.269	26.869	126.0	1.436	2.53	37.1	69.0	2.18					555
1	624	6.19	6.13	34.282	26.969	116.8	1.523	2.22	32.0	79.0	2.38					628
1	693	5.12	5.06	34.305	27.117	102.1	1.599	1.90	26.7	95.0	2.64					698
1	762	4.39	4.33	34.332	27.220	91.9	1.665	1.68	23.2	110.0	2.80					767
1	864	4.06	3.99	34.359	27.277	86.9	1.757	1.61	22.1							870
1	965	3.50	3.43	34.419	27.381	76.8	1.839	1.59	21.5	130.0	2.94					973

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV — STATION 43A

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
34 12.5 N	139 42.0 E	28/08/73	0836 GMT	872 m	230 09 kn	130 07 05	0	1013.9 mb	27.6 C	26.0 C		9/8	

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	104	18.24	18.22	34.646	24.947	303.6	0.316	4.16	77.7	12.0	0.48					104
1	123	17.92	17.90	34.645	25.026	296.7	0.373	4.09	75.9	12.0	0.57					124
1	142	17.27	17.25	34.658	25.194	281.3	0.428	4.07	74.6	13.0	0.65					143
1	162	16.89	16.86	34.648	25.277	274.0	0.483	4.08	74.3	14.0	0.68					163
1	190	15.64	15.61	34.622	25.546	249.1	0.556	4.01	71.2	18.0	0.80					191
1	228	14.93	14.90	34.604	25.690	236.3	0.649	3.98	69.7	19.0	0.84					229
1	266	13.25	13.21	34.538	25.993	208.0	0.733	3.78	63.9	26.0	1.07					267
1	304	12.13	12.09	34.484	26.172	191.5	0.809	3.54	58.4	34.0	1.27					306
1	342	11.14	11.10	34.440	26.322	177.6	0.879	3.41	55.1	39.0	1.44					344
1	390	7.94	7.90	34.314	26.750	135.7	0.954	2.75	41.3	63.0	2.02					392
1	437	7.23	7.19	34.300	26.841	127.2	1.016	2.53	37.4	72.0	2.19					440
1	504	6.50	6.45	34.283	26.928	119.3	1.099	2.34	34.0	80.0	2.28					507
1	570	5.52	5.47	34.301	27.066	106.0	1.173	2.04	29.0	93.0	2.58					574
1	646	5.04	4.99	34.318	27.136	99.6	1.251	1.94	27.2	99.0	2.61					651
1	732	4.34	4.28	34.331	27.224	91.1	1.333	2.46 U		115.0	2.74					737
1	824	3.73	3.67	34.372	27.320	81.8	1.413	1.49	20.3	126.0	2.85					830

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV — STATION 43B

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
34 11.5 N	139 45.5 E	28/08/73	0939 GMT	932 m	230 09 kn	130 07 05	0	1013.9 mb	27.6 C	26.0 C		9/8	

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
2	0	27.92	27.92	34.160	21.791	601.1	0.000	4.72	104.4	2.0	0.03					0
2	20	27.03	27.03	34.579	22.395	544.3	0.115	4.71	102.9	2.0	0.02					20
2	39	24.88	24.87	34.615	23.091	478.6	0.212	4.64	97.7	3.0	0.10					39
2	58	21.92	21.91	34.615	23.952	397.0	0.295	4.37	87.4	7.0	0.18					58
2	77	20.89	20.88	34.601	24.225	371.6	0.368	4.34	85.2	8.0	0.30					77
2	94	20.75	20.73	34.600	24.263	368.7	0.431	4.32	84.6	8.0	0.27					94
2	121	20.49	20.47	34.599	24.333	363.1	0.530	4.30	83.8	8.0	0.38					121

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV — STATION 44

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
34 21.0 N	139 34.0 E	28/08/73	1218 GMT	1038 m	260 12 kn	03 02	0	1014.6 mb	27.0 C	25.9 C			

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
2	0	26.62	26.62	34.160	22.208	561.3	0.000	4.77	103.2	3.0	0.07					0
2	19	25.58	25.58	34.280	22.623	522.4	0.103	4.68	99.6	3.0	0.09					19
2	38	23.51	23.50	34.317	23.272	461.1	0.196	4.65	95.5	5.0	0.20					38
2	58	21.85	21.84	34.397	23.806	410.9	0.284	4.60	91.8	7.0	0.28					58
2	79	19.69	19.68	34.560	24.512	344.3	0.363	4.38	84.1	9.0	0.44					79
2	99	18.55	18.53	34.495	24.754	321.8	0.429	4.39	82.4	12.0	0.54					99
2	129	15.56	15.54	34.569	25.521	249.4	0.515	3.97	70.4	19.0	0.85					129
2	169	14.82	14.79	34.538	25.661	237.2	0.612	3.92	68.4	23.0	0.98					170
2	208	13.68	13.65	34.532	25.899	215.4	0.701	3.79	64.6	26.0	1.08					209
1	242	12.17	12.14	34.478	26.158	191.2	0.770	3.52	58.1	34.0	1.15					243
2	250	11.81	11.78	34.456	26.209	186.3	0.785	3.52	57.7	35.0	1.31					251
1	262	11.37	11.34	34.449	26.286	179.2	0.807	3.43	55.7	38.0	1.30					263
1	281	11.03	11.00	34.428	26.331	175.1	0.841	3.37	54.3	41.0	1.46					282
2	290	10.83	10.79	34.412	26.355	173.0	0.856	3.35	53.7	41.0	1.52					292
1	311	10.26	10.22	34.404	26.449	164.3	0.892	3.22	51.0	46.0	1.61					313
2	338	9.62	9.58	34.363	26.525	157.2	0.935	3.10	48.4	49.0	1.72					340
1	351	9.17	9.13	34.363	26.599	150.2	0.955	3.00	46.4	54.0	1.79					353
1	392	8.32	8.28	34.332	26.708	140.0	1.015	2.81	42.6	62.0	1.91					394
1	432	7.43	7.39	34.318	26.828	128.6	1.068	2.56	38.0	70.0	2.09					435
1	472	6.59	6.55	34.301	26.930	118.7	1.118	2.37	34.5	80.0	2.33					475
1	521	6.10	6.05	34.288	26.983	113.8	1.175	2.23	32.1	86.0	2.43					524
1	570	5.57	5.52	34.287	27.049	107.7	1.229	2.13	30.3	92.0	2.52					574
1	638	4.97	4.92	34.292	27.123	100.6	1.300	1.90	26.6	101.0	2.68					642
1	705	4.57	4.51	34.314	27.186	94.8	1.365	1.78	24.7	112.0	2.75					710
1	780	4.02	3.96	34.350	27.273	86.4	1.433	1.59	21.8	121.0	2.83					786
1	862	3.45	3.39	34.395	27.366	77.2	1.500	1.47	19.9		2.89					869
1	959	3.17	3.10	34.417	27.410	73.2	1.573	1.35	18.1	141.0	2.98					967
1	1055	3.05	2.98	34.438	27.439	70.9	1.642	1.32	17.7	144.0	3.00					1064

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV — STATION 45

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
34 5.5 N	139 49.0 E	28/08/73	1718 GMT	1084 m	240 04 kn	180 02 09	1	1013.9 mb	28.1 C	26.2 C			

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
2	0	27.98	27.98	34.285	21.866	594.0	0.000	4.62	102.3	2.0	0.04					0
2	20	27.31	27.31	34.509	22.252	557.9	0.115	4.70	103.1	2.0	0.04					20
2	40	26.26	26.25	34.523	22.597	525.9	0.224	4.61	99.4	3.0	0.08					40
2	60	25.97	25.96	34.492	22.666	520.2	0.328	4.55	97.6	3.0	0.10					60
2	80	25.79	25.77	34.488	22.720	515.9	0.432	4.57	97.7	3.0	0.10					80
2	100	25.73	25.71	34.483	22.736	515.3	0.535	4.57	97.6	3.0	0.11					100
2	130	21.24	21.21	34.637	24.161	380.0	0.669	4.32	85.3	7.0	0.33					130
2	170	19.95	19.92	34.684	24.543	344.9	0.814	4.21	81.2	8.0	0.41					171
2	210	17.04	17.01	34.670	25.261	277.3	0.939	4.10	74.8	12.0	0.52					211
2	249	13.07	13.04	34.522	26.016	205.2	1.033	3.81	64.2	26.0	0.99					250
1	250	13.96	13.92	34.566	25.868	219.7	1.035	3.92	67.2	21.0	0.96					251
2	289	12.41	12.37	34.490	26.122	196.0	1.116	3.68	61.1	30.0	1.03					290
1	301	12.66	12.62	34.515	26.093	199.2	1.140	3.77	62.9	27.0	1.14					302
2	340	10.73	10.69	34.419	26.379	171.9	1.212	3.31	53.0	43.0	1.54					342
1	355	10.44	10.40	34.418 A	26.430	167.2	1.237	3.47	55.2	36.0	1.37					357
1	410	8.23	8.19	34.329	26.719	139.2	1.322	2.86	43.3	58.0	1.86					412
1	467	7.13	7.09	34.299	26.855	126.3	1.397	2.66	39.2	63.0	2.10					470
1	522	6.58	6.53	34.300	26.931	119.4	1.465	2.45	35.7	74.0	2.22					525
1	577	5.76	5.71	34.290	27.028	110.0	1.528	2.19	31.3	82.0	2.23					581
1	633	5.21	5.16	34.329	27.125	100.8	1.587	1.97	27.8	96.0	2.51					637
1	725	4.53	4.47	34.323	27.198	93.9	1.676	1.78	24.7	106.0	2.47					730
1	834	3.94	3.88	34.369	27.297	84.5	1.774	1.62	22.1	122.0	2.71					840

A) AN ERROR OF 0.1 OHM HAS BEEN ASSUMED FOR THIS VALUE.

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV — STATION 50

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
32 39.5 N	138 35.0 E	29/08/73	1606 GMT	2337 m	230 12 kn			1014.6 mb	27.8 C	24.8 C			

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
2	0	28.18	28.18	34.418	21.900	590.7	0.000	4.62	102.7	2.0	0.03					0
2	20	27.94	27.94	34.440	21.997	582.4	0.117	4.66	103.2	2.0	0.02					20
2	49	26.40	26.39	34.566	22.586	527.3	0.278	4.74	102.4	2.0	0.03					49
2	78	23.73	23.71	34.790	23.568	434.6	0.418	4.85	100.2	2.0	0.09					78
2	118	21.84	21.82	34.851	24.157	379.9	0.581	4.78	95.6	2.0	0.12					118
2	157	20.53	20.50	34.846	24.513	347.4	0.722	4.89	95.5	2.0	0.09					157
2	206	19.04	19.00	34.802	24.870	314.9	0.885	4.89	92.8	2.0	0.17					207
2	256	18.40	18.35	34.810	25.040	300.5	1.039	4.79	89.8	4.0	0.32					257
1	301	17.41	17.36	34.789	25.267	280.0	1.169	4.51	83.0	6.0	0.39					302
2	307	17.48	17.43	34.786	25.249	282.0	1.186	4.56	84.0	5.0	0.40					308
1	370	16.33	16.27	34.732	25.480	261.6	1.357	4.49	80.8	7.0	0.46					372
2	378	16.38	16.32	34.737	25.473	262.6	1.378	4.55	82.0	7.0	0.49					380
2	450	14.72	14.65	34.617	25.753	237.2	1.558	4.35	75.8	13.0	0.73					452
1	460	14.60	14.53	34.553	25.730	239.6	1.582	4.31	74.8	13.0	0.75					462
1	557	11.51	11.44	34.404	26.232	191.8	1.791	3.77	61.3	29.0	1.29					560
1	654	9.34	9.27	34.335	26.555	160.8	1.962	3.12	48.4	48.0	1.77					658
1	751	7.21	7.14	34.242	26.803	135.9	2.106	2.67	39.4	66.0	2.21					756
1	848	6.07	5.99	34.304	27.004	116.5	2.229	2.13	30.6	86.0	2.42					854
1	1004	4.35	4.27	34.322	27.219	94.4	2.393	1.67	23.0	111.0	2.84 U					1011
1	1159	3.70	3.61	34.387	27.338	83.0	2.531	1.53	20.8	125.0	2.84					1168
1	1313	3.14	3.05	34.449	27.441	72.8	2.651	1.62	21.7	136.0	2.89					1324
1	1466	2.76	2.66	34.493	27.511	66.1	2.757	1.72	22.8	146.0	2.88					1479
1	1622	2.54	2.43	34.542	27.570	60.7	2.856	1.92	25.3	149.0	2.87					1637
1	1777	2.37	2.25	34.553	27.594	58.7	2.948	2.08	27.3	150.0	2.86					1794
1	1933	2.20	2.06	34.577	27.628	55.6	3.037	2.33	30.5	152.0	2.83					1953
1	2088	1.92	1.78	34.618	27.683	49.8	3.119	2.69	34.9	152.0	2.69					2110
1	2243	1.84	1.68	34.631	27.701	48.5	3.195	2.83	36.7	151.0	2.61					2268
1	2396	1.74	1.57	34.642	27.718	46.9	3.268	2.99	38.6	150.0	2.62					2424

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV — STATION 51

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
32 39.0 N	138 20.0 E	29/08/73	2218 GMT	3568 m	250 12 kn	220 03 06	1	1015.9 mb	28.7 C	25.0 C		3/8	SC

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
2	0	28.02	28.02	34.367	21.914	589.3	0.000	4.58	101.6	1.0	0.02					0
2	19	27.91	27.91	34.367	21.952	586.7	0.112	4.65	102.9	2.0	0.02					19
2	48	24.77	24.76	34.694	23.185	470.0	0.265	5.09	107.1	1.0	0.02					48
2	77	22.73	22.71	34.812	23.874	405.3	0.392	4.95	100.5	2.0	0.04					77
2	115	21.05	21.03	34.828	24.357	360.7	0.537	4.59	90.5	3.0	0.18					115
2	153	19.62	19.59	34.797	24.715	327.8	0.668	4.97	95.4	3.0	0.11					154
2	200	18.99	18.95	34.788	24.872	314.5	0.819	4.93	93.5	2.0	0.16					201
2	246	18.82	18.78	34.793	24.921	311.5	0.963	4.95	93.5	3.0	0.17					247
2	293	18.14	18.09	34.793	25.093	296.7	1.106	4.73	88.2	4.0	0.30					294
2	359	16.95	16.89	34.766	25.362	272.9	1.294	4.55	82.9	6.0	0.43					361
2	425	15.80	15.73	34.699	25.578	253.8	1.468	4.45	79.2	9.0	0.57					427
2	508	13.73	13.66	34.543	25.906	223.6	1.666	4.20	71.6	16.0	0.87					511
2	603	11.58	11.50	34.399	26.216	194.5	1.865	3.89	63.4	27.0	1.25					606
2	697	8.22	8.15	34.219	26.639	152.1	2.027	3.22	48.6	51.0	1.86					701
1	779	6.36	6.29	34.226	26.904	125.4	2.141	2.40	34.7	74.0	2.22					784
2	792	6.10	6.03	34.231	26.942	121.6	2.157	2.25	32.4	78.0	2.41					797
1	876	4.77	4.70	34.310	27.162	99.3	2.250	1.71	23.8	104.0	2.61					882
2	889	4.63	4.56	34.316	27.183	97.2	2.263	1.70	23.6	107.0	2.74					895
1	1032	4.08	4.00	34.352	27.271	89.1	2.396	1.56	21.4	117.0	2.47 U					1040
1	1189	3.64	3.55	34.395	27.350	81.9	2.530	1.51	20.5	126.0	2.84					1198
1	1344	3.22	3.12	34.438	27.425	74.8	2.652	1.47	19.7	133.0	2.75					1355
1	1500	2.97	2.86	34.463	27.469	71.0	2.765	1.66	22.1	140.0	2.80					1513
1	1656	2.66	2.54	34.511	27.535	64.6	2.871	1.81	24.0	144.0	2.88					1672
1	1812	2.37	2.24	34.549	27.591	59.2	2.968	2.06	27.1	148.0	2.84					1830
1	1967	2.21	2.07	34.575	27.625	56.0	3.057	2.29	30.0	150.0	2.76					1987
1	2122	2.06	1.91	34.599	27.658	53.1	3.142	2.50	32.6	151.0	2.76					2145
1	2276	1.92	1.76	34.616	27.683	50.7	3.222	2.71	35.2	149.0	2.71					2302
1	2431	1.86	1.69	34.626	27.696	49.8	3.299	2.86	37.1	149.0	2.63					2459
1	2587	1.74	1.55	34.645	27.722	47.4	3.375	2.92	37.7	148.0	2.64					2618
1	2741	1.67	1.47	34.652	27.733	46.5	3.447	3.11	40.1	148.0	2.55					2775
1	2895	1.62	1.41	34.660	27.744	45.7	3.518	3.23	41.6	147.0	2.57					2932
1	3050	1.57	1.34	34.671	27.758	44.7	3.588	3.33	42.8	148.0	2.55					3090
1	3205	1.54	1.30	34.675	27.764	44.4	3.658	3.38	43.4	148.0	2.51					3249
1	3362	1.51	1.25	34.677	27.769	44.3	3.727	3.50	44.9	145.0	2.48					3409
1	3518	1.50	1.23	34.682	27.774	44.2	3.796	3.52	45.1	145.0	2.50					3569

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV — STATION 58

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
33 1.0 N	138 33.0 E	31/08/73	0228 GMT	3165 m	310 07 kn	290 07 04	0	1015.2 mb	30.0 C	25.9 C		0/8	

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
2	0	28.50	28.50	34.243	21.664	613.3	0.000	4.60	102.7	2.0	0.06					0
2	20	28.29	28.29	34.332	21.801	601.1	0.121	4.66	103.8	2.0	0.03					20
2	50	26.16	26.15	34.561	22.658	520.5	0.290	4.68	100.7	2.0	0.10					50
2	80	23.30	23.28	34.860	23.747	417.6	0.430	5.14	105.5	2.0	0.08					80
2	120	20.89	20.87	34.838	24.408	356.0	0.585	4.85	95.3	3.0	0.12					120
2	160	19.24	19.21	34.803	24.818	318.2	0.720	4.93	93.9	3.0	0.19					161
2	210	18.70	18.66	34.801	24.956	306.9	0.876	4.87	91.8	3.0	0.20					211
2	260	17.91	17.87	34.793	25.148	290.2	1.026	4.77	88.6	4.0	0.30					261
2	310	17.16	17.11	34.777	25.318	275.4	1.167	4.63	84.7	6.0	0.40					311
2	381	16.01	15.95	34.714	25.540	256.1	1.356	4.52	80.8	8.0	0.53					383
2	451	14.29	14.22	34.585	25.820	230.5	1.526	4.35	75.1	13.0	0.79					453
2	540	11.94	11.87	34.426	26.169	197.8	1.716	3.92	64.4	26.0	1.15					543
1	577	10.41	10.34	34.349	26.386	176.5	1.786	3.59	57.0	35.0	1.52					580
2	636	9.37	9.30	34.373	26.580	158.2	1.884	3.01	46.7	51.0	1.77					640
1	675	7.29	7.22	34.218	26.772	137.8	1.942	2.75	40.7	62.0	2.04					679
2	735	6.45	6.38	34.261	26.920	123.4	2.020	2.29	33.2	77.0	2.36					740
1	773	5.91	5.84	34.245	26.976	117.7	2.066	2.16	30.9	82.0	2.46					778
1	871	4.58	4.51	34.306	27.180	97.2	2.172	1.75	24.3	107.0	2.56					877
1	968	4.00	3.93	34.358	27.283	87.2	2.261	1.58	21.6	119.0	2.67					975
1	1123	3.46	3.38	34.412	27.380	78.0	2.389	1.52	20.5	130.0	2.79					1132
1	1280	3.00	2.91	34.464	27.466	69.9	2.505	1.62	21.6	138.0	2.92					1291
1	1434	2.70	2.60	34.499	27.521	64.8	2.609	1.78	23.6	145.0	2.82					1447
1	1588	2.48	2.37	34.535	27.569	60.4	2.705	1.97	26.0	147.0	2.73					1603
1	1743	2.31	2.19	34.561	27.605	57.2	2.796	2.12	27.8	151.0	2.88					1760
1	1899	2.15	2.02	34.590	27.642	53.9	2.883	2.34	30.6	151.0	2.79					1919
1	2054	2.06	1.92	34.602	27.659	52.6	2.966	2.52	32.8	150.0	2.73					2076
1	2209	1.93	1.77	34.617	27.682	50.5	3.045	2.66	34.5	150.0	2.74					2234
1	2364	1.85	1.68	34.637	27.705	48.6	3.122	2.83	36.7	150.0	2.70					2391
1	2522	1.78	1.60	34.646	27.719	47.6	3.198	2.97	38.4	149.0	2.65					2552
1	2680	1.71	1.52	34.655	27.732	46.6	3.273	3.10	40.0	150.0	2.64					2713
1	2837	1.66	1.45	34.664	27.744	45.8	3.345	3.20	41.2	150.0	2.61					2873
1	2998	1.58	1.36	34.673	27.758	44.5	3.418	3.37	43.3	148.0	2.60					3038
1	3155	1.52	1.28	34.68	27.769	43.6	3.487	3.49	44.8	147.0	2.46					3198

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV — STATION 61

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
33 20.0 N	138 54.0 E	31/08/73	1903 GMT	1611 m	270 05 kn	020 02 08	2	1016.9 mb	27.7 C	24.9 C		8/8	SC

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
2	1	28.42	28.42	34.246	21.693	610.6	0.006	4.59	102.4	2.0	0.03					1
2	19	28.39	28.39	34.259	21.714	609.5	0.116	4.61	102.8	2.0	0.03					19
2	47	28.04	28.03	34.426	21.956	587.6	0.284	4.60	102.0	2.0	0.03					47
2	76	26.36	26.34	34.540	22.581	529.0	0.445	4.62	99.7	2.0	0.08					76
2	115	22.32	22.30	34.821	24.000	394.9	0.626	4.94	99.6	2.0	0.10					115
2	154	20.17	20.14	34.817	24.586	340.2	0.769	4.64	90.0	4.0	0.20					154
2	203	18.47	18.43	34.791	25.005	301.8	0.926	4.43	83.2	6.0	0.35					204
2	253	17.12	17.08	34.740	25.297	275.4	1.071	4.35	79.6	9.0	0.53					254
2	303	15.27	15.22	34.656	25.658	241.9	1.200	4.34	76.5	12.0	0.68					304
2	373	13.56	13.51	34.535	25.931	217.2	1.361	4.16	70.7	18.0	0.92					375
1	430	11.25	11.20	34.404	26.276	184.2	1.475	3.67	59.4	32.0	1.36					432
2	442	11.69	11.63	34.430	26.216	190.5	1.497	3.71	60.6	29.0	1.29					444
1	476	10.04	9.98	34.307	26.414	171.1	1.559	3.63	57.2	36.0	1.56					478
1	522	8.89	8.83	34.355	26.640	149.5	1.633	2.95	45.3	56.0	1.90					525
2	527	9.04	8.98	34.351	26.613	152.4	1.640	3.11	47.9	54.0	1.85					530
1	585	6.70	6.65	34.243	26.871	126.1	1.721	2.51	36.6	70.0	2.29					588
2	617	6.52	6.46	34.245	26.896	124.0	1.761	2.37	34.4	74.0	2.38					621
1	648	5.81	5.75	34.242	26.985	115.0	1.798	2.12	30.3	83.0	2.40					652
1	728	5.24	5.18	34.310	27.108	103.6	1.885	1.97	27.8	96.0	2.62					733
1	814	4.33	4.27	34.324	27.221	92.2	1.970	1.65	22.8	113.0	2.75					820
1	899	4.00	3.93	34.351	27.277	87.1	2.046	1.63	22.3	119.0	2.85					905
1	982	3.51	3.44	34.409	27.372	77.8	2.114	1.53	20.7	131.0	2.94					989
1	1061	3.28	3.20	34.435	27.415	73.8	2.174	1.61	21.7	135.0	2.88					1069
1	1195	3.09	3.01	34.461	27.454	70.6	2.271	1.59	21.3	140.0	2.93					1205
1	1333	2.83	2.74	34.490	27.502	66.3	2.365	1.71	22.7	144.0	2.93					1345
1	1383 P	2.76	2.66	34.492	27.510	65.7	2.398	1.73	23.0	130.0 U	2.89					1395
1	1479 P	2.64	2.54	34.512	27.537	63.4	2.472	1.82	24.1	145.0	2.89					1511
1	1597 P	2.46	2.35	34.538	27.573	59.9	2.523	2.01	26.5	150.0	2.88					1594

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV — STATION 64

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
33 42.5 N	139 8.5 E	01/09/73	0312 GMT	1708 m	220 08 kn	230 02 02	1	1016.3 mb	31.5 C	25.6 C		1/8	CU

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
2	0	29.11	29.11	34.167	21.404	638.2	0.000	4.68	105.5	2.0	0.08					0
2	21	28.19	28.18	34.460	21.930	588.8	0.129	4.59	102.1	2.0	0.04					21
2	52	27.03	27.02	34.569	22.389	546.3	0.305	4.72	103.1	2.0	0.04					52
2	83	24.65	24.63	34.733	23.252	465.1	0.462	4.54	95.3	3.0	0.13					83
2	122	20.64	20.62	34.801	24.447	352.3	0.621	4.45	87.0	5.0	0.26					122
2	159	18.87	18.84	34.774	24.890	311.2	0.744	4.35	82.3	7.0	0.38					159
2	205	16.02	15.99	34.642	25.476	256.3	0.874	4.07	72.8	15.0	0.68					206
2	251	14.64	14.60	34.595	25.747	231.5	0.986	4.02	69.9	19.0	0.89					252
2	297	13.14	13.10	34.525	26.006	207.6	1.087	3.86	65.1	25.0	1.09					298
1	332	11.95	11.91	34.480	26.203	189.1	1.157	3.54	58.2	34.0	1.29					334
2	364	10.65	10.61	34.42	26.395	170.9	1.214	3.30	52.7	41.0	1.49					366
1	376	10.30	10.26	34.412	26.450	165.7	1.235	3.53 U		44.0	1.60					378
1	419	9.49	9.44	34.378	26.560	155.6	1.304	3.06	47.6	50.0	1.72					421
2	434	8.49	8.44	34.350	26.697	142.1	1.326	2.80	42.6	59.0	1.95					436
1	462	7.76	7.71	34.339	26.797	132.3	1.365	2.65	39.7	65.0	2.12					465

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV — STATION 67

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
33 42.5 N	139 31.0 E	01/09/73	1441 GMT	1638 m	220 16 kn		1	1016.3 mb	28.1 C	25.8 C			

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
2	0	28.43	28.43	34.245	21.688	611.0	0.000	4.61	102.8	2.0	0.02					0
2	20	28.43	28.43	34.243	21.689	611.9	0.122	4.63	103.3	2.0	0.02					20
2	50	27.84	27.83	34.477	22.059	577.8	0.301	4.61	102.0	2.0	0.04					50
2	79	24.82	24.80	34.717	23.189	471.0	0.453	4.64	97.7	2.0	0.08					79
2	118	20.57	20.55	34.820	24.480	349.0	0.613	4.65	90.8	3.0	0.16					118
1	125	21.03	21.01	34.840	24.372	359.6	0.638	4.85	95.5	2.0	0.10					125
2	158	18.97	18.94	34.801	24.885	311.7	0.748	4.50	85.3	5.0	0.30					158
1	165	19.38	19.35	34.813	24.790	321.1	0.770	4.59	87.7	4.0	0.28					166
2	207	17.61	17.57	34.774	25.204	282.8	0.897	4.47	82.6	6.0	0.39					208
1	215	17.88	17.84	34.787	25.149	288.4	0.920	4.49	83.4	6.0	0.47					216
1	264	16.94	16.90	34.739	25.339	271.7	1.057	4.35	79.3	9.0	0.58					265
1	312	15.21	15.16	34.659	25.674	240.7	1.180	4.39	77.3	11.0	0.68					313
1	379	13.41	13.36	34.526	25.954	215.0	1.333	4.22	71.5	17.0	0.92					381
1	444	11.72	11.66	34.407	26.193	192.8	1.465	3.97	64.9	26.0	1.16					446
1	525	9.34	9.28	34.345	26.560	157.6	1.607	3.17	49.2	50.0						528
1	614	6.83	6.77	34.251	26.860	127.8	1.734	2.48	36.3	70.0	2.18					618
1	702	5.85	5.79	34.310	27.034	111.2	1.840	2.15	30.8	87.0	2.46					707
1	789	4.86	4.80	34.340	27.175	97.3	1.930	1.82	25.4	103.0	2.67					794
1	875	4.17	4.10	34.362	27.268	88.1	2.010	1.65	22.7	116.0	2.80					881
1	1015	3.51	3.44	34.408	27.372	78.1	2.126	1.55	21.0	130.0	2.92					1023
1	1155	3.03	2.95	34.463	27.461	69.5	2.230	1.62	21.7	139.0	2.89					1164
1	1298	2.76	2.67	34.498	27.514	64.7	2.326	1.76	23.4	144.0	2.89					1309
1	1446	2.61	2.51	34.521	27.546	62.1	2.419	1.96	25.9	147.0	2.89					1459
1	1597	2.35	2.24	34.557	27.597	57.3	2.510	2.09	27.5	147.0	2.85					1612

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV — STATION 71

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
33 48.0 N	139 44.5 E	02/09/73	0647 GMT	1250 m	260 13 kn	260 04 05	1		29.0 C	25.5 C		4/8	CU

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	28.49	28.49	34.242	21.666	613.1	0.000	4.59	102.5	2.0	0.03					0
1	19	28.40	28.40	34.301	21.742	606.8	0.116	4.61	102.8	2.0	0.02					19
1	40	27.95	27.94	34.454	22.006	582.5	0.241	4.61	102.1	2.0	0.04					40
1	60	26.21	26.20	34.608	22.678	519.0	0.351	4.74	102.1	2.0	0.06					60
1	80	24.11	24.09	34.787	23.454	445.6	0.447	4.86	101.1	2.0	0.05					80
1	101	22.52	22.50	34.816	23.939	400.2	0.536	4.60	93.1	3.0	0.14					101
1	131	20.60	20.58	34.828	24.479	349.6	0.649	4.49	87.8	4.0	0.22					131
1	170	19.34	19.31	34.813	24.800	320.3	0.779	4.52	86.3	5.0	0.30					171
1	209	17.82	17.78	34.785	25.161	287.0	0.898	4.47	82.9	6.0	0.38					210
1	248	16.81	16.77	34.774	25.396	265.7	1.005	4.58	83.3	6.0	0.46					249
1	287	15.19	15.15	34.661	25.679	239.3	1.104	4.37	76.9	11.0	0.68					288
1	335	13.78	13.73	34.558	25.902	218.9	1.214	4.23	72.3	16.0	0.88					337
1	383	12.49	12.44	34.466	26.091	201.5	1.315	4.07	67.7	22.0	1.12					385
1	449	10.77	10.71	34.355	26.325	179.6	1.441	3.79	60.7	32.0	1.42					451
1	515	9.51	9.45	34.372	26.554	158.2	1.552	3.09	48.1	49.0	1.79					518
1	590	6.94	6.88	34.251	26.845	129.0	1.660	2.55	37.4	69.0	2.23					594
1	675	6.07	6.01	34.306	27.003	114.1	1.763	2.22	31.9	89.0	2.47					679
1	772	4.65	4.59	34.334	27.194	95.0	1.865	1.77	24.6	107.0	2.73					777
1	870	3.98	3.91	34.369	27.293	85.3	1.953	1.62	22.2	119.0	2.87					876
1	971	3.60	3.53	34.402	27.358	79.2	2.036	1.56	21.1	127.0	2.93					978

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV — STATION 73

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
32 35.0 N	140 0.5 E	05/09/73	0954 GMT	1549 m	230 16 kn		1	1013.2 mb	27.8 C	24.8 C			

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
2	0	28.32						4.58		2.0	0.06					0
1	3	28.33	28.33	34.632	22.012	580.1		4.59	102.4	2.0	0.03					3
1	33	26.87	26.86	34.589	22.454	539.2		4.90	106.7	2.0	0.07					33
1	73	22.00	21.99	34.723	24.013	391.9		5.14	103.0	2.0	0.07					73
1	113	20.29	20.27	34.804	24.542	342.8		4.75	92.3	3.0	0.18					113
1	164	19.01	18.98	34.793	24.869	313.4		4.69	89.0	4.0	0.22					165
2	170	18.94	18.91					4.66	88.3	4.0	0.24					171
1	219	17.95	17.91	34.776	25.123	291.0		4.50	83.6	5.0	0.29					220
2	220	18.03						4.60		5.0	0.32					222
2	339	15.31						4.35		12.0	0.68					342
2	409	13.94						4.19		17.0	0.84					412
2	497	12.06						3.87		27.0	1.16					501
2	594	9.14						3.42		44.0	1.74					599
2	691	7.07						2.58		69.0	2.24					697
2	789	5.74						2.22		86.0	2.52					796
2	885	4.61						1.78		108.0	2.70					893
2	1041	3.74						1.57		125.0	2.80					1051
2	1200	3.15						1.40		137.0	2.97					1212
2	1359	2.52						1.47		150.0	2.99					1373
2	1515	2.28						1.57		159.0	2.98					1532

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV — STATION 74

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT TYPE
32 25.0 N	140 6.0 E	05/09/73	1927 GMT	1445 m	240 13 kn		2	1010.5 mb	28.1 C	25.6 C		

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	28.18														0
1	148	19.23														149
1	178	18.40														179
1	217	17.80														219
1	256	17.26														258
1	296	16.61														298
1	334	15.79														337
1	384	14.86														387
1	432	14.12														436
1	501	12.51														505
1	568	10.01														573
1	645	8.35														651
1	731	6.38														738
1	827	5.19														835
1	923	4.38														932
1	1020	3.84														1030
1	1118	3.33														1129
1	1265	2.93														1278
1	1416	2.58														1431

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV — STATION 75

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT TYPE
32 17.0 N	140 7.0 E	05/09/73	2256 GMT	1434 m				1015.2 mb				

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
2	2	28.27						4.62		2.0	0.01					2
2	22	28.26						4.66		2.0	0.03					22
2	42	26.74						4.90		2.0	0.04					42
2	61	23.90						5.14		2.0	0.02					61
2	80	21.70						5.15		2.0	0.06					81
2	99	21.23						5.15		2.0	0.06					100
2	127	19.82						4.84		3.0	0.14					128
1	143	19.25						4.65		4.0	0.23					144
2	165	18.94						4.76		3.0	0.24					166
1	173	18.66						4.63		4.0	0.21					174
2	204	18.10						4.64		4.0	0.32					206
1	212	18.17						4.54		5.0	0.34					214
1	252	17.43						4.50		6.0	0.35					254
1	291	16.93						4.53		7.0	0.42					293
1	331	16.23						4.49		8.0	0.43					334
1	381	15.22						4.36		12.0	0.68					384
1	430	14.23						4.20		17.0	0.82					434
1	499	12.51						3.93		25.0	1.20					503
1	568	10.89						3.67		34.0	1.34					573
1	646	9.17						3.33		47.0	1.68					652
1	734	6.58						2.45		75.0	2.30					741
1	832	5.52						2.09		91.0	2.56					840
1	930	4.36						1.72		111.0	2.77					939
1	1028	3.77						1.54		124.0	2.93					1038
1	1128	3.44						1.50		130.0	2.91					1139
1	1275	2.95						1.51		141.0	3.11					1288
1	1419	2.55						1.46		153.0	3.07					1434

RV THOMAS WASHINGTON — TASADAY EXPEDITION LEG IV — STATION 76

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT TYPE
32 11.0 N	140 5.0 E	06/09/73	0507 GMT	1479 m								

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	0	28.28	28.28	34.442	21.886	592.1	0.000	4.61	102.7	2.0	0.03					0
1	76	23.01	22.99	34.744	23.743	417.9	0.384	5.05	103.0	2.0	0.05					76
1	146	19.79	19.76	34.815	24.684	330.5	0.646	4.76	91.6	3.0	0.17					146
1	191	18.79	18.76	34.807	24.937	308.0	0.789	4.70	88.8	3.0	0.25					192
1	266	17.17	17.13	34.776	25.314	274.3	1.008	4.55	83.3	5.0	0.41					267
1	314	16.42	16.37	34.741	25.464	261.3	1.136	4.54	81.9	7.0	0.49					315
1	355	15.76	15.70	34.698	25.583	251.0	1.241	4.47	79.5	9.0	0.58					357
1	405	14.77	14.71	34.623	25.746	236.5	1.363	4.33	75.5	13.0	0.71					407
1	454	13.63	13.56	34.542	25.924	220.2	1.475	4.16	70.8	18.0	0.91					456
1	523	11.74	11.67	34.425	26.205	193.7	1.618	3.84	62.8	28.0	1.28					526
1	592	9.73	9.66	34.326	26.483	166.8	1.742	3.38	52.9	42.0	1.64					595
1	670	8.03	7.96	34.278	26.713	144.3	1.864	2.92	43.9	58.0	1.94					674
1	757	6.00	5.93	34.276	26.989	116.4	1.977	2.25	32.3	84.0	2.41					762
1	855	4.98	4.91	34.307	27.136	101.9	2.084	1.88	26.3	102.0	2.72					861
1	953	4.18	4.11	34.346	27.255	90.1	2.178	1.62	22.3	115.0	2.79					960
1	1050	3.70	3.62	34.380	27.331	82.6	2.262	1.57	21.3	126.0	2.88					1058
1	1150	3.48	3.40	34.405	27.373	79.0	2.343	1.56	21.1	129.0	2.82					1159
1	1298	2.95	2.86	34.458	27.465	69.9	2.453	1.46	19.5	141.0	2.97					1309
1	1445	2.73	2.63	34.489	27.510	65.9	2.553	1.39	18.4	149.0	3.04					1458

RV THOMAS WASHINGTON TASADAY EXPEDITION LEG IV STATION 77

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD AMT	TYPE
32 19.0 N	139 48.5 E	06/09/73	0933 GMT		220 11 kn	07	5	1008.5 mb	27.0 C	25.4 C		7/8	SC

CAST	DEPTH m	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	PRESS db
1	1	28.18	28.18	34.382	21.873	593.3	0.006									1
1	41	27.71	27.70	34.642	22.225	561.6	0.237									41
1	117	21.02	21.00	34.796	24.341	362.3	0.588									117
1	238	17.78	17.74	34.777	25.166	287.5	0.981									239
1	278	17.32	17.27	34.762	25.267	279.2	1.094									279
1	318	17.02	16.97	34.749	25.330	274.4	1.205									319
1	357			34.736			1.311									359
1	408	15.71	15.65	34.681	25.583	252.7	1.443									410
1	457	14.60	14.53	34.611	25.774	235.3	1.562									459
1	525	11.56	11.49	34.413	26.229	191.3	1.708									528
1	594	9.82	9.75	34.336	26.476	167.6	1.831									597
1	672	8.25	8.18	34.288	26.688	147.0	1.954									676
1	759	6.69	6.62	34.275	26.900	126.1	2.073									764
1	857	4.81	4.74	34.312	27.159	99.4	2.183									863
1	955	3.88	3.81	34.368	27.303	84.9	2.274									962
1	1053	3.61	3.53	34.392	27.349	80.7	2.355									1061
1	1152	3.26	3.18	34.429	27.413	74.6	2.432									1161
1	1298	2.86	2.77	34.469	27.482	68.0	2.536									1309