Tom Hayward

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PRELIMINARY DATA REPORT

EXPEDITION SOSO

R/V NEW HORIZON

AUGUST 1982

8208

CalCOFI line 90 Data
Not on website

RV NEW HORIZON SOSO STATION 1

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
21 32.5 N	157 26.0 W	31/07/82	1125 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 D.BAR
	0 ISL	25.086	26.086	34.851	22.896	495.4	.000	4.76	102.5							0
4	1	26.086	26.086	34.851	22.896	495.5	.006	4.76	102.5	3.7	.12	.2	.00	.05	.01	1
	10 ISL	26.091	26.089	34.850	22.894	496.1	.050	4.77	102.6							10
4	16	26.095	26.091	34.849	22.893	496.5	.079	4.77	102.7	3.5	.11	.0	.00	.04	.02	16
	20 ISL	25.984	25.979	34.859	22.935	492.6	.099	4.80	103.3							20
	30 ISL	25.514	25.507	34.904	23.116	475.8	.148	4.92	104.9							30
4	33	25.330	25.323	34.924	23.187	469.1	.161	4.96	105.5	3.5	.11	.0	.00	.05	.01	33
	50 ISL	23.744	23.734	35.121	23.814	410.1	.236	5.22	108.0							50
4	52	23.535	23.524	35.147	23.895	402.4	.245	5.24	108.2	3.5	.07	.0	.00	.07	.02	52
4	72	22.504	22.490	35.206	24.238	370.4	.321	5.17	104.8	3.3	.09	.0	.00	.10	.04	72
	75 ISL	22.382	22.367	35.213	24.278	366.8	.333	5.13	103.7							75
4	91	21.721	21.703	35.225	24.473	348.7	.391	4.88	97.6	3.5	.13	.0	.00	.13	.12	91
	100 ISL	21.191	21.171	35.215	24.613	335.3	.421	4.77	94.4							101
4	101	21.149	21.130	35.214	24.623	334.8	.423	4.76	94.2	3.5	.16	.4	.09	.27	.23	101
4	111	20.863	20.842	35.191	24.684	329.4	.457	4.75	93.5	3.6	.20	.8	.11	.18	.24	111
4	121	20.612	20.589	35.178	24.742	324.2	.489	4.68	91.7	3.6	.22	1.3	.08	.15	.18	121
	125 ISL	20.332	20.309	35.168	24.809	318.0	.503	4.66	90.8							126
4	131	19.866	19.842	35.146	24.916	308.0	.523	4.64	89.6	4.0	.25	1.8	.03	.06	.09	132
4	142	19.369	19.343	35.089	25.002	300.0	.554	4.62	88.4	4.2	.28	2.2	.02	.04	.06	142
4	150	19.050	19.023	35.050	25.055	295.3	.580	4.56	86.7	4.4	.32	2.7	.02	.03	.04	151
4	173	18.045	18.015	34.928	25.214	280.7	.645	4.54	84.6	5.2	.38	3.6	.02	.02	.02	174
4	199	16.175	16.144	34.688	25.476	256.2	.716	4.53	81.3	6.5	.50	5.4	.02	.00	.01	200
	200 ISL	16.122	16.090	34.682	25.483	255.5	.718	4.53	81.2							201
4	223	14.781	14.747	34.525	25.662	238.8	.774	4.56	79.5	8.1	.62	6.9	.01			224
4	247	14.232	14.196	34.487	25.750	230.9	.832	4.75	81.9	8.5	.62	7.3	.02			248
	250 ISL	14.110	14.074	34.475	25.767	229.4	.838	4.75	81.6							252
4	296	11.574	11.536	34.250	26.094	199.3	.936	4.69	76.4	14.2	.96	12.2	.01			297
	300 ISL	11.406	11.368	34.238	26.116	196.2	.944	4.68	75.9							302
4	392	8.534	8.492	34.087	26.483	161.4	1.109	3.96	60.3	31.8	1.60	22.0	.01			394
	400 ISL	8.326	8.284	34.078	26.508	159.0	1.121	3.84	58.1							403
4	492	6.329	6.285	34.042	26.759	134.7	1.256	2.28	33.0	59.9	2.40	33.5	.00			494
	500 ISL	6.208	6.163	34.050	26.782	132.6	1.267	2.15	30.9							504
4	593	5.243	5.194	34.183	27.005	111.6	1.381	.96	13.5	85.0	2.91	40.4	.00			597
	600 ISL	5.196	5.147	34.193	27.019	110.3	1.389	.96	13.5							604
	700 ISL	4.652	4.597	34.333	27.192	94.3	1.491	.94	13.1							705
4	794	4.378	4.316	34.437	27.305	84.2	1.575	.92	12.7	105.5	3.05	42.6	.00			799
	800 ISL	4.361	4.299	34.441	27.310	83.8	1.580	.92	12.7							806
4	987	3.922	3.847	34.505	27.408	75.5	1.729	1.09	14.9	115.4	3.06	42.9	.00			994
	1000 ISL	3.890	3.814	34.510	27.416	74.9	1.739									1008

RV NEW HORIZON — SOSO — STATION 2

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
22 00.0 N	157 16.1 W	01/08/82	0128 GMT		060	15 KT	060 04 05	1	1018.2 MB	27.5 C	23.8 C	4/8	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 D.BAR
	0 ISL	26.220	26.218	34.860	22.862	498.8	.000		102.5							0
6	3	26.219	26.218	34.860	22.862	498.9	.013	4.75	102.5	2.9	.09	.1	.00	.07	.02	3
	10 ISL	26.215	26.213	34.858	22.862	499.2	.050	4.76	102.7							10
6	12	26.214	26.211	34.858	22.862	499.2	.060	4.76	102.7	2.9	.08	.1	.00	.06	.02	12
	20 ISL	25.988	25.983	34.874	22.946	491.6	.100	4.81	103.3							20
6	22	25.914	25.909	34.881	22.974	489.0	.111	4.82	103.5	2.9	.08	.1	.00	.07	.02	22
	30 ISL	25.791	25.784	34.903	23.029	484.1	.148	4.83	103.5							30
6	32	25.756	25.749	34.908	23.044	482.8	.156	4.83	103.4	2.9	.07	.0	.00	.06	.02	32
	50 ISL	24.540	24.529	34.937	23.438	445.9	.241	5.16	108.2							50
6	51	24.439	24.428	34.944	23.473	442.6	.247	5.18	108.5	2.9	.07	.0	.00	.12	.04	51
6	61	23.770	23.757	35.090	23.783	413.4	.290	5.18	107.3	2.8	.05	.0	.00	.14	.04	61
6	71	22.990	22.976	35.176	24.076	385.9	.328	5.20	106.3	2.8	.05	.0	.00	.16	.07	71
	75 ISL	22.741	22.725	35.190	24.158	378.2	.344	5.18	105.6							75
6	79	22.529	22.513	35.196	24.223	372.1	.360	5.16	104.7	2.8	.06	.0	.00	.17	.09	79
	100 ISL	21.557	21.537	35.200	24.500	346.5	.434	4.95	98.6							101
6	102	21.479	21.459	35.195	24.518	344.9	.441	4.92	97.9	3.2	.11	.0	.03	.30	.22	102
6	112	21.112	21.090	35.139	24.576	339.7	.476	4.77	94.3	3.3	.17	.2	.11	.28	.24	112
6	122	20.256	20.233	35.043	24.734	325.0	.510	4.52	87.9	3.5	.29	1.3	.09	.16	.19	123
	125 ISL	20.107	20.083	35.050	24.779	320.7	.519	4.52	87.7							126
6	132	19.758	19.734	35.072	24.888	310.6	.540	4.53	97.3	3.9		2.1	.07	.15	.12	132
	150 ISL	18.383	18.357	34.852	25.071	293.5	.595	4.26	79.8							151
6	155	17.957	17.931	34.770	25.114	289.6	.610	4.17	77.5	5.4	.51	5.1	.03	.05	.12	156
6	174	16.654	16.626	34.633	25.322	270.1	.662	4.15	75.2	6.9	.59	6.5	.02			174
	200 ISL	14.697	14.667	34.460	25.629	241.2	.729	4.22	73.5							201
6	203	14.506	14.476	34.445	25.658	239.4	.736	4.23	73.3	9.6	.75	8.9	.01			204
6	222	13.881	13.849	34.410	25.763	228.7	.782	4.62	79.1	9.2	.66	8.1	.01			223
	250 ISL	12.611	12.577	34.303	25.937	212.5	.843	4.63	77.1							252
6	273	11.549	11.514	34.218	26.073	199.7	.891	4.64	75.5	14.3	.94	12.6	.00			274
	300 ISL	10.861	10.825	34.177	26.166	191.1	.943	4.55	72.9							302
6	327	10.297	10.259	34.149	26.244	184.0	.994	4.43	70.1	20.0	1.20	16.5	.00			329
6	383	8.862	8.820	34.098	26.441	165.5	1.091	4.24	65.0	29.0	1.46	20.7	.00			385
	400 ISL	8.397	8.355	34.080	26.499	160.0	1.119	3.96	60.1							403
6	495	6.205	6.162	34.046	26.779	132.8	1.258	2.13	30.7	62.4	2.45	34.5	.00			497
	500 ISL	6.179	6.085	34.050	26.792	131.6	1.265	2.05	29.6							504
6	596	5.144	5.095	34.153	26.993	112.6	1.382	1.02	14.3	85.5	2.90	40.5	.00			599
	600 ISL	5.120	5.071	34.160	27.001	111.9	1.386	1.02	14.3							604
	700 ISL	4.667	4.612	34.296	27.161	97.3	1.491	.96	13.4							705
6	792	4.465	4.403	34.408	27.273	87.4	1.576	.91	12.6	104.5	3.04	42.5	.00			797
	800 ISL	4.439	4.377	34.412	27.279	86.9	1.583	.91	12.6							806
6	1000	3.795	3.720	34.496	27.414	74.8	1.744	1.18	16.1	118.3	3.03	42.6	.00			1007

RV NEW HORIZON SOSO STATION 3

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
23 04.8 N	156 53.6 W	01/08/82	1226 GMT		070	23 KT		1	1028.0 MB	25.3 C	23.3 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 D.BAR
	0 ISL	26.170	26.173	34.379	22.513	532.0	.000		102.6							0
1	3	26.174	26.173	34.379	22.513	532.2	.014	4.77	102.6	2.1	.17	.1	.00			3
	10 ISL	26.181	26.178	34.379	22.511	532.7	.053	4.77	102.6							10
1	20	26.185	26.180	34.379	22.511	533.2	.108	4.77	102.5	1.9	.17	.0	.00	.04	.00	20
1	30	26.188	26.181	34.379	22.510	533.6	.158	4.77	102.6	1.9	.17	.0	.00	.04	.01	30
1	41	25.746	25.737	34.355	22.630	522.7	.219	4.86	103.7	1.9	.17	.0	.00	.04	.01	41
	50 ISL	25.107	25.097	34.382	22.847	502.4	.264	4.96	104.8							50
1	60	24.429	24.416	34.477	23.124	476.3	.311	5.07	105.9	1.7	.15	.0	.00	.09	.02	60
	75 ISL	23.998	23.982	34.824	23.516	439.6	.382	5.16	107.1							75
1	79	23.920	23.903	34.923D	23.613	430.4	.399	5.17	107.3	1.7	.08	.0	.00	.12	.05	79
1	96	23.245	23.225	35.214	24.032	391.2	.470	5.23	107.4	.7	.05	.0	.00	.11	.06	96
	100 ISL	23.000	22.979	35.186	24.083	386.5	.484	5.14	105.1							101
1	105	22.680	22.659	35.143	24.142	381.1	.502	5.02	102.1	.7	.11	.0	.00	.11	.07	105
1	114	22.075	22.052	35.150	24.319	364.5	.539	4.88	98.1	1.8	.13	.0	.00	.13	.13	115
1	121	21.493	21.469	35.142	24.475	349.8	.562	4.71	93.7	1.8	.17	.1	.10	.18	.22	121
	125 ISL	21.253	21.229	35.157	24.552	342.6	.576	4.73	93.8							126
1	135	20.886	20.860	35.169	24.662	332.4	.609	4.81	94.7	1.8	.16	.3	.10	.14	.20	135
1	145	20.585	20.558	35.081	24.677	331.4	.643	4.57	89.4	2.2	.25	1.3	.05	.10	.16	145
	150 ISL	20.485	20.457	35.136	24.745	325.1	.659	4.69	91.6							151
1	157	20.307	20.278	35.235	24.869	313.6	.683	4.92	95.9	2.2	.13	.3	.16	.08	.15	158
1	179	19.139	19.107	35.105	25.075	294.4	.747	4.75	90.5	3.4	.22	1.7	.03	.04	.07	179
	200 ISL	17.981	17.946	34.941	25.241	279.2	.809	4.64	86.4							201
1	204	17.770	17.736	34.909D	25.269	276.6	.820	4.63	85.8	4.5	.33	3.2	.02	.03	.04	205
1	227	16.495	16.459	34.745	25.447	260.0	.882	4.61	83.3	5.7	.42	4.7	.01			228
1	247	15.430	15.391	34.617	25.591	246.6	.933	4.38	77.4	6.8	.50	5.6	.01			248
	250 ISL	15.288	15.249	34.604	25.612	244.6	.940	4.40	77.6							252
1	283	13.553	13.513	34.452	25.865	220.7	1.017	4.81	81.8	9.1	.64	8.1	.01			284
	300 ISL	12.881	12.840	34.380	25.945	213.3	1.053	4.80	80.4							302
1	314	12.403	12.361	34.325	25.996	208.5	1.082	4.79	79.4	12.6	.82	10.9	.00			315
1	373	10.732	10.687	34.184	26.196	189.9	1.201	4.61	73.7	17.3	1.11	14.9	.00			375
	400 ISL	9.947	9.900	34.137	26.295	180.6	1.250	4.43	69.6							403
1	446	8.620	8.572	34.078	26.464	164.4	1.330	3.97	60.5	30.8	1.59	22.1	.00			448
	500 ISL	7.172	7.124	34.036	26.642	146.9	1.414	3.09	45.6							504
1	547	6.112	6.064	34.034	26.781	133.2	1.480	2.27	32.6	61.7	2.43	34.0	.00			550
	600 ISL	5.414	5.364	34.093	26.914	120.4	1.547	1.55	21.9							604
1	693	4.710	4.655	34.229	27.103	102.7	1.650	.64	8.9	97.9	3.07	42.6	.00			697
	700 ISL	4.673	4.617	34.237	27.114	101.7	1.558	.65	9.1							705
	800 ISL	4.257	4.196	34.334	27.236	90.5	1.754	.81	11.1							806
1	985	3.935	3.861	34.489	27.394	76.8	1.909	1.09	14.9	115.7	3.05	42.7	.00			992
	1000 ISL	3.900	3.824	34.504	27.410	75.4	1.920									1008

RV NEW HORIZON — SOSO — STATION 5

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
24 01.1 N	156 31.8 W	02/08/82	0210 GMT		080	18 KT	090 10 06	1	1020.2 MB	26.2 C	23.3 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 D.BAR
1	10	25.329	25.327	35.295	23.466	441.4	.046	4.85	103.4	1.8	.07	.1	.00	.05	.01	11
	20 ISL	25.307	25.302	35.296	23.474	441.1	.088	4.86	103.5							20
1	24	25.298	25.293	35.296	23.477	441.0	.105	4.86	103.5	1.8	.06	.1	.00	.06	.01	24
	30 ISL	25.137	25.130	35.299	23.529	436.3	.132	4.88	103.6							30
1	34	25.039	25.032	35.301	23.561	433.5	.149	4.89	103.7	1.8	.06	.1	.00	.06	.01	34
	50 ISL	22.285	22.275	35.298	24.369	357.1	.213	5.32	107.5							50
1	52	21.912	21.902	35.302	24.476	346.8	.220	5.37	107.8	1.8	.06	.1	.00	.10	.01	52
1	66	21.267	21.254	35.298	24.653	330.6	.266	5.30	105.2	2.0	.08	.1	.00	.11	.03	66
	75 ISL	20.819	20.804	35.295	24.773	319.5	.296	5.24	103.2							75
1	91	20.219	20.202	35.287	24.928	305.2	.345	5.16	100.4	2.0	.09	.1	.00	.17	.10	91
	100 ISL	19.995	19.976	35.279	24.982	300.5	.374	5.12	99.3							101
1	101	19.983	19.964	35.278	24.985	300.2	.375	5.12	99.2	2.1	.10	.0	.01	.23	.20	101
1	107	19.831	19.811	35.273	25.021	297.0	.396	5.07	98.0	2.3	.11	.1	.05	.28	.22	108
1	116	19.527	19.506	35.242	25.077	292.0	.422	4.98	95.7	2.3	.14	.4	.13	.24	.17	117
	125 ISL	18.916	18.894	35.121	25.142	286.0	.447	4.83	91.6							126
1	128	18.717	18.695	35.081	25.162	284.2	.455	4.78	90.3	3.3	.23	1.8	.06	.14	.14	128
1	135	18.342	18.319	35.015	25.206	280.3	.476	4.72	88.5	3.6	.27	2.4	.04	.11	.10	136
1	142	17.883	17.859	34.955	25.273	274.0	.495	4.75	88.3	3.6	.27	2.4	.03	.07	.09	143
	150 ISL	17.403	17.378	34.890	25.340	267.7	.516	4.74	87.3							151
1	166	16.505	16.478	34.762	25.455	257.2	.559	4.70	85.0	5.0	.38	4.0	.02	.03	.04	167
1	185	15.556	15.527	34.617	25.561	247.5	.608	4.75	84.2	5.6	.45	5.0	.01	.01	.03	186
	200 ISL	14.988	14.957	34.538	25.626	241.6	.643	4.77	83.6							201
1	214	14.508	14.476	34.485	25.689	235.8	.677	4.80	83.2	6.9	.53	6.2	.01			215
1	234	13.834	13.800	34.450	25.804	225.2	.723	4.87	83.3	7.9	.60	7.3	.01			235
	250 ISL	13.409	13.374	34.416	25.866	219.7	.758	4.89	82.9							252
1	275	12.770	12.732	34.355	25.947	212.3	.813	4.92	82.2	10.0	.74	9.5	.00			277
	300 ISL	12.041	12.002	34.297	26.043	203.5	.864	4.89	80.5							302
1	336	10.978	10.937	34.224	26.183	190.5	.936	4.79	77.0	15.7	1.01	13.7	.00			338
1	388	9.766	9.721	34.164	26.347	175.3	1.030	4.56	71.3	22.8	1.26	17.5	.00			390
	400 ISL	9.444	9.399	34.143	26.383	171.8	1.051	4.44	68.9							403
	500 ISL	7.034	6.986	34.035	26.661	145.0	1.209	3.07	45.1							504
1	501	7.021	6.974	34.035	26.662	144.8	1.210	3.06	44.9	47.9	2.08	29.1	.00			503
1	557	5.988	5.940	34.047	26.808	130.7	1.288	2.19	31.4	64.6	2.48	34.6	.00			560
	600 ISL	5.504	5.454	34.093	26.904	121.6	1.342	1.65	23.4							604
	700 ISL	4.819	4.763	34.225	27.088	104.4	1.455	.80	11.1							705
1	718	4.760	4.703	34.251	27.115	101.9	1.474	.70	9.8	97.2	3.06	42.3	.00			723
	800 ISL	4.344	4.283	34.336	27.228	91.4	1.553	.80	11.0							806
1	979	3.925	3.851	34.466	27.377	78.3	1.705	1.01	13.8	116.8	3.06	42.9	.00			986

RV NEW HORIZON — SOSO — STATION 5

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
24 04.0 N	156 31.0 W	02/08/82	0442 GMT		090	23 KT	090 12 06	1	1020.0 MB	24.7 C	22.9 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 D.BAR
	0 ISL	25.249	25.248	35.279	23.478	439.9	.000	4.91	104.5							0
3	2	25.249	25.248	35.279	23.478	440.0	.009	4.91	104.5	2.0	.05	.1	.00	.07	.00	2
	10 ISL	25.248	25.246	35.278	23.478	440.3	.044	4.85	103.3							10
3	11	25.248	25.245	35.278D	23.478	440.4	.050	4.85	103.2	2.0	.05	.0	.00	.05	.01	12
	20 ISL	25.142	25.137	35.285	23.517	437.0	.088	4.86	103.3							20
3	23	25.105	25.100	35.288	23.530	435.9	.101	4.87	103.4	1.9	.04	.0	.00	.05	.01	23
	30 ISL	24.777	24.770	35.306	23.644	425.4	.131	4.93	104.0							30
3	32	24.617	24.610	35.311	23.696	420.5	.141	4.96	104.4	1.9	.04	.0	.00	.06	.01	32
3	43	23.330	23.321	35.320	24.085	383.8	.183	5.30	109.1	1.9	.03	.0	.00	.08	.02	43
	50 ISL	22.530	22.520	35.320	24.315	362.2	.210	5.39	109.5							50
3	52	22.376	22.366	35.317	24.357	358.2	.215	5.40	109.3	1.9	.03	.0	.00	.09	.02	52
3	61	21.612	21.600	35.276	24.541	341.1	.250	5.36	107.0	1.9	.05	.1	.00	.08	.02	62
3	70	21.266	21.253	35.275	24.635	332.3	.277	5.29	105.0	2.1	.06	.1	.00	.08	.02	70
	75 ISL	20.872	20.857	35.263	24.734	323.1	.295	5.22	102.9							75
3	78	20.660	20.645	35.258	24.788	318.1	.305	5.19	101.8	2.1	.08	.1	.00	.10	.03	78
3	88	20.522	20.505	35.282	24.844	313.2	.336	5.20	101.8	2.1	.07	.1	.00	.12	.05	88
3	97	20.271	20.253	35.276	24.907	307.5	.365	5.15	100.3	2.1	.08	.1	.00	.11	.07	98
	100 ISL	20.188	20.169	35.275	24.928	305.7	.374	5.14	99.9							101
3	119	19.779	19.757	35.269D	25.032	296.4	.430	5.05	97.5	2.1	.11	.1	.09	.22	.19	119
3	120	19.767	19.745	35.270D	25.036	296.1	.434	4.87	94.0	1.5	.04	.1	.00			121
	125 ISL	19.694	19.671	35.258	25.046	295.3	.448	4.95	95.4							126
3	128	19.620	19.597	35.244	25.055	294.6	.456	4.99	96.0	2.5	.13	.4	.13	.22	.20	128
3	135	19.208	19.184	35.184	25.116	288.9	.479	4.89	93.3	2.7	.16	.9	.11	.17	.16	136
3	145	18.625	18.600	35.094	25.196	281.6	.506	4.83	91.1	3.3	.21	1.5	.04	.10	.12	145
	150 ISL	18.309	18.283	35.034	25.229	278.5	.520	4.83	90.5							151
3	160	17.742	17.715	34.930	25.290	273.0	.547	4.82	89.3	3.5	.28	2.6	.03	.04	.05	160
3	182	16.808	16.779	34.840	25.445	258.8	.606	5.05	91.9	4.4	.28	2.4	.01	.02	.02	183

RV NEW HORIZON — SOSO — STATION 5

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
24 00.3 N	156 33.9 W	02/08/82	0831 GMT		080	20 KT	090 04 06	1	1019.9 MB	25.7 C	22.8 C	4/8	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 D.BAR
	0 ISL	25.324	25.323	35.311	23.479	439.7	.000	4.85	103.4							0
4	3	25.324	25.323	35.311	23.479	439.9	.013	4.85	103.4	2.1	.06	.2	.00			3
	10 ISL	25.328	25.326	35.311	23.479	440.3	.044	4.84	103.2							10
4	12	25.329	25.326	35.311	23.479	440.4	.055	4.84	103.1	1.9	.05	.2	.00			13
	20 ISL	25.327	25.323	35.312	23.480	440.6	.088	4.85	103.3							20
4	24	25.326	25.321	35.312	23.481	440.7	.106	4.85	103.4	2.1	.04	.1	.00			24
	30 ISL	25.096	25.089	35.312	23.552	434.1	.132	4.88	103.5							30
4	33	24.865	24.858	35.312	23.622	427.6	.147	4.91	103.8	1.9	.04	.1	.00			34
4	49	22.545	22.535	35.307	24.302	363.4	.209	5.42	110.0	1.9	.04	.1	.00			49
	50 ISL	22.481	22.471	35.305	24.318	361.9	.212	5.42	109.8							50
4	69	21.441	21.428	35.259	24.575	338.1	.277	5.29	105.3	1.9	.07	.1	.00			69
	75 ISL	21.232	21.217	35.259	24.633	332.8	.299	5.28	104.6							75
4	86	20.861	20.845	35.263	24.738	323.3	.335	5.24	103.2	2.2	.08	.1	.00			86
4	94	20.440	20.422	35.263	24.851	312.7	.362	5.17	101.0	2.2	.08	.0	.00			95
	100 ISL	20.240	20.221	35.289	24.925	305.9	.379	5.16	100.5							101
4	101	20.211	20.192	35.293	24.936	304.9	.381	5.16	100.4	2.4	.08	.1	.00			101
4	110	19.888	19.868	35.300	25.027	296.6	.409	5.17	100.0	2.6	.09	.1	.00			110
4	121	19.807	19.785	35.319	25.063	293.5	.442	5.09	98.3	2.6	.10	.0	.05			122
	125 ISL	19.743	19.720	35.303	25.068	293.3	.453	5.06	97.7							126
4	138	19.408	19.383	35.230	25.100	290.6	.490	4.99	95.6	2.6	.14	.6	.12			138
4	146	19.118	19.092	35.209	25.158	285.3	.513	4.96	94.5	2.8	.16	.7	.10			146
	150 ISL	18.867	18.840	35.164	25.188	282.6	.525	4.92	93.2							151
4	173	17.406	17.377	34.884	25.336	269.0	.589	4.71	86.7	4.7	.32	3.1	.03			174
4	195	16.363	16.332	34.740	25.472	256.5	.647	4.78	86.2	5.1	.37	3.8	.01			196
	200 ISL	16.025	15.993	34.697	25.517	252.3	.659	4.80	85.8							201
4	217	14.794	14.761	34.549	25.677	237.1	.700	4.85	84.6	6.9	.49	5.7	.01			218
4	237	13.627	13.593	34.414	25.820	223.7	.746	4.91	83.6	8.7	.62	7.7	.00			238
	250 ISL	13.110	13.076	34.371	25.891	217.1	.776	4.93	83.1							252
4	286	12.072	12.035	34.306	26.044	203.0	.851	5.00	82.3	12.8	.81	10.7	.00			287
	300 ISL	11.633	11.595	34.270	26.099	198.0	.879	4.93	80.5							302
4	332	10.703	10.663	34.198	26.211	187.5	.940	4.74	75.7	17.2	1.07	14.7	.00			333
4	384	9.472	9.428	34.138	26.375	172.3	1.034	4.53	70.4	24.5	1.31	18.4	.00			386
	400 ISL	9.091	9.047	34.116	26.419	168.1	1.062	4.33	66.7							403
4	472	7.509	7.463	34.044	26.601	150.7	1.176	3.38	50.2	42.3	1.92	26.9	.00			474
	500 ISL	6.945	6.898	34.040	26.677	143.4	1.218	3.21	47.0							504
4	586	5.526	5.476	34.080D	26.890	122.7	1.332									589
	600 ISL	5.395	5.345	34.096	26.918	120.0	1.349	2.82	39.9							604
	700 ISL	4.708	4.652	34.214	27.092	103.8	1.461	2.39	33.2							705
4	796	4.453	4.391	34.335D	27.216	92.7	1.555									801
	800 ISL	4.437	4.375	34.339	27.221	92.3	1.559	1.95	27.0							806
	1000 ISL	3.853	3.778	34.478	27.394	76.8	1.728	1.08	14.7							1008
4	1005	3.844	3.769	34.480	27.396	76.6	1.732	1.06	14.5	116.3	3.03	42.9	.00			1012

RV NEW HORIZON SOSO STATION 5

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
24 00.3 N	156 32.2 W	02/08/82	1411 GMT		080	20 KT	090 04 06	1	1019.9 MB	25.7 C	22.8 C	4/8	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 D.BAR
	10 ISL	25.296	25.294	35.330	23.503	437.9	.044									10
8	12	25.296	25.293	35.330	23.503	438.0	.053			2.2	.05	.0	.00	.05	.01	12
8	12	25.296	25.293	35.330	23.503	438.0	.053			2.2	.04	.0	.00	.05	.01	12
	20 ISL	25.297	25.293	35.330	23.503	438.4	.088									20
8	23	25.298	25.293	35.330	23.503	438.5	.100			2.0	.04	.0	.00	.05	.01	23
	30 ISL	25.289	25.283	35.330	23.506	438.5	.131									30
8	33	25.286	25.279	35.330	23.507	438.5	.144			2.0	.04	.0	.00	.05	.01	33
	50 ISL	23.110	23.099	35.310	24.142	378.8	.214									50
8	53	22.697	22.686	35.310	24.260	367.5	.224			2.2	.03	.0	.00	.08	.02	53
8	71	21.311	21.297	35.294	24.638	332.2	.289			2.4	.06	.0	.00	.08	.02	71
	75 ISL	21.101	21.086	35.289	24.691	327.2	.301									75
8	91	20.469	20.452	35.282	24.858	312.0	.352			2.4	.07	.0	.00	.10	.06	91
8	100	20.272	20.253	35.301	24.926	305.9	.380			2.4	.07	.0	.00	.14	.09	100
8	110	20.086	20.066	35.313	24.985	300.7	.410			2.4	.08	.0	.00	.14	.10	110
8	121	19.745	19.723	35.272	25.043	295.4	.444			2.4	.11	.0	.04	.19	.16	122
	125 ISL	19.437	19.414	35.201	25.069	293.1	.455									126
8	131	18.936	18.913	35.088	25.112	289.2	.474			3.6	.24	1.8	.07	.15	.16	132
8	140	18.667	18.642	35.060	25.159	284.9	.499			4.0	.25	1.9	.05	.13	.14	141
8	150	18.293	18.267	35.020	25.222	279.2	.526			4.0	.25	2.2	.04	.09	.11	150
8	174	16.651	16.623	34.770D	25.427	260.1	.591			5.6	.37	3.7	.02	.02	.03	175

RV NEW HORIZON SOSO STATION 5

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
23 59.2 N	156 29.7 W	03/08/82	0233 GMT		090	20 KT	090 04 06	1	1019.9 MB	25.7 C	22.8 C	4/8	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 D.BAR
	0 ISL	25.223	25.223	35.296	23.499	437.8	.000	4.85	103.2							0
13	2	25.223	25.223	35.296	23.499	437.9	.009	4.85	103.2	2.5	.06	.2	.00			2
	10 ISL	25.228	25.226	35.297	23.499	438.3	.044	4.83	102.8							10
13	12	25.229	25.226	35.298	23.499	438.4	.053	4.83	102.8	2.1	.05	.1	.00			12
	20 ISL	25.207	25.203	35.297	23.506	438.1	.088	4.84	103.0							20
13	25	25.194	25.189	35.296	23.509	438.0	.109	4.86	103.3	2.1	.04	.1	.00			25
	30 ISL	24.735	24.729	35.277	23.635	425.2	.131	4.90	103.3							30
	50 ISL	22.861	22.851	35.231	24.154	377.6	.212	5.03	102.6							50
13	73	20.509	20.495	35.240	24.814	315.4	.291	5.16	100.9	2.7	.08	.1	.00			73
	75 ISL	20.462	20.448	35.247	24.833	313.8	.298	5.16	100.8							75
13	92	20.152	20.135	35.280	24.941	304.1	.351	5.15	100.1	2.7	.09	.1	.00			93
	100 ISL	19.936	19.917	35.268	24.990	299.7	.374	5.08	98.3							101
13	112	19.433	19.413	35.199	25.068	292.6	.410	4.91	94.1	3.1	.16	.7	.14			112
13	122	18.784	18.763	35.079	25.143	285.8	.439	4.74	89.7	3.7	.23	2.0	.05			123
	125 ISL	18.694	18.672	35.071	25.160	284.3	.447	4.77	90.1							126
13	133	18.402	18.379	35.041	25.210	279.7	.470	4.84	90.9	3.7	.23	1.9	.04			133
13	144	17.558	17.534	34.878	25.293	272.0	.499	4.61	85.1	4.9	.35	3.6	.02			144
	150 ISL	17.122	17.097	34.809	25.345	267.2	.516	4.64	84.9							151
	200 ISL	14.465	14.436	34.481	25.695	234.9	.642	4.85	84.1							201
13	227	13.619	13.587	34.437	25.839	221.7	.703	4.97	84.6	8.9	.60	7.7	.01			228
	250 ISL	13.098	13.063	34.401	25.917	214.7	.754	5.04	84.8							252
13	252	13.065	13.030	34.398	25.921	214.3	.757	5.04	84.8	10.1	.67	8.8	.01			253
	300 ISL	11.861	11.822	34.305	26.083	199.6	.857	4.93	80.8							302
13	343	10.664	10.623	34.208	26.226	186.3	.940	4.83	77.1	18.1	1.06	14.6	.00			344

RV NEW HORIZON SOSO STATION 6

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
24 00.7 N	156 32.5 W	03/08/82	1327 1558 GMT				1		23.1 C	22.0 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 D.BAR
	0 ISL	25.246	25.246	35.348	23.531	434.7	.000	4.99	106.2							0
7	1	25.246	25.246	35.348	23.531	434.8	.005	4.99	106.2	1.8	.04	.3	.00	.06	.01	1
	10 ISL	25.251	25.249	35.345	23.528	435.6	.044	4.86	103.4							10
7	12	25.252	25.249	35.345	23.528	435.7	.052	4.84	103.0	1.8	.04	.3	.00	.06	.01	12
	20 ISL	25.252	25.248	35.346	23.529	435.9	.087	4.84	103.0							20
7	23	25.252	25.247	35.346	23.529	436.0	.102	4.84	103.0	2.0	.04	.2	.00	.05	.01	23
	30 ISL	25.042	25.035	35.346	23.594	430.2	.130	4.87	103.3							30
7	34	24.792	24.785	35.343	23.668	423.3	.148	4.89	103.3	1.7	.04	.2	.00	.06	.01	34
	50 ISL	22.531	22.521	35.327	24.320	361.7	.210	5.33	108.3							50
7	53	22.114	22.104	35.325	24.437	350.6	.220	5.40	108.8	1.9	.04	.2	.00	.10	.02	53
8	68	20.914	20.901	35.259	24.719	324.3	.272	5.24	103.3	3.0	.08	.3	.00	.10	.02	68
	75 ISL	20.734	20.719	35.272	24.778	318.9	.294	5.23	102.8							75
7	92	20.479	20.462	35.297	24.867	311.2	.349	5.20	101.7	2.1	.08	.1	.00	.14	.06	93
	100 ISL	20.210	20.191	35.266	24.915	306.9	.372	5.12	99.6							101
7	102	20.137	20.118	35.258	24.929	305.6	.379	5.10	99.1	2.3	.10	.1	.00	.14	.13	103
7	113	19.970	19.949	35.282	24.991	300.0	.411	5.12	99.2	2.3	.09	.1	.00	.20	.22	113
7	122	19.630	19.608	35.250	25.057	294.2	.440	5.02	96.6	2.5	.13	.3	.13	.26	.21	123
	125 ISL	19.455	19.432	35.221	25.080	292.0	.447	4.97	95.4							126
7	132	18.954	18.931	35.134	25.142	286.3	.469	4.86	92.3	3.3	.20	1.3	.06	.17	.15	133
7	143	18.552	18.527	35.067	25.193	281.8	.499	4.83	91.0	3.5	.22	1.8	.04	.11	.13	144
8	148	17.864	17.839	34.954	25.278	273.8	.512	4.76	88.5	4.2	.28	2.7	.03	.06	.07	148
	150 ISL	17.773	17.748	34.937	25.287	272.9	.518	4.74	88.0							151
8	173	16.886	16.858	34.780	25.380	264.6	.579	4.58	83.4	5.6	.41	4.6	.02	.02	.02	173
8	198	15.803	15.771	34.678	25.553	248.7	.643	4.88	87.0	6.0	.40	4.3	.02	.01	.02	198
	200 ISL	15.600	15.569	34.649	25.576	246.5	.649	4.88	86.5							201
8	222	13.945	13.913	34.422	25.760	229.2	.701	4.91	84.1	8.0	.57	7.0	.01			223
8	244	13.504	13.469	34.421	25.850	221.0	.751	4.99	84.7	9.2	.62	8.1	.01			245
	250 ISL	13.320	13.285	34.409	25.878	218.4	.764	4.99	84.5							252
8	291	11.988	11.950	34.304	26.059	201.7	.851	5.02	82.5	12.2	.81	10.9	.00			293
	300 ISL	11.752	11.713	34.286	26.089	199.0	.868	5.00	81.8							302
8	345	10.635	10.594	34.204	26.228	186.1	.954	4.82	76.9	17.8	1.06	14.8	.00			346
	400 ISL	9.405	9.360	34.142	26.389	171.2	1.053	4.47	69.3							403
8	401	9.390	9.345	34.141	26.390	171.0	1.054	4.46	69.2	25.5	1.34	18.9	.00			403
8	496	7.242	7.194	34.040	26.636	147.5	1.206	3.24	47.8	45.3	1.99	28.0	.00			498
	500 ISL	7.151	7.103	34.040	26.648	146.3	1.212	3.16	46.6							504
8	600	5.354	5.304	34.093	26.921	119.7	1.346	1.45	20.5	79.2	2.75	38.6	.00			604
	700 ISL	4.653	4.598	34.231	27.111	101.9	1.456	1.00	13.8							705
7	778	4.469	4.408	34.341	27.219	92.3	1.532	.64	8.9	105.2	3.06	42.8	.00			783
	800 ISL	4.398	4.336	34.360	27.242	90.3	1.552	.68	9.4							806
8	983	3.941	3.867	34.471	27.379	78.2	1.706	.99	13.5	116.5	3.05	43.1	.00			990
	1000 ISL	3.900	3.824	34.482	27.392	77.1	1.719									1008

RV NEW HORIZON SOSO STATION 7

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
24 59.5 N	156 20.6 W	04/08/82	0445 0638 GMT		060	16 KT	070 05 06	1	1018.8 MB	23.9 C	20.6 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 D.BAR
	0 ISL	25.115	25.115	35.260	23.505	437.4	.000	4.86	103.2							0
2	1	25.115	25.115	35.260	23.505	437.4	.005	4.86	103.2	2.1	.04	.1	.00	.06	.01	1
2	10	25.117	25.115	35.262	23.506	437.6	.044	4.87	103.4	2.1	.04	.0	.00	.06	.01	10
1	20	25.138	25.133	35.264	23.502	438.5	.090	4.86	103.2	2.0	.04	.2	.00	.06	.01	21
2	26	25.114	25.108	35.261	23.507	438.2	.115	4.88	103.6	2.1	.03	.0	.00	.06	.00	26
	30 ISL	24.775	24.769	35.263	23.612	428.4	.131	4.96	104.6							30
2	45	22.789	22.780	35.287	24.216	371.4	.192	5.30	108.1	2.1	.04	.0	.00	.09	.01	45
	50 ISL	22.271	22.261	35.292	24.360	357.9	.210	5.30	107.1							50
2	64	21.040	21.028	35.273	24.696	326.4	.259	5.30	104.7	2.4	.06	.0	.00	.12	.02	65
	75 ISL	20.705	20.691	35.309	24.814	315.5	.293	5.27	103.5							75
2	84	20.567	20.551	35.335	24.872	310.4	.322	5.24	102.7	2.4	.07	.0	.00	.15	.05	85
2	94	20.311	20.293	35.329	24.936	304.6	.353	5.23	102.0	2.4	.07	.1	.00	.14	.08	95
	100 ISL	20.157	20.138	35.317	24.968	301.8	.370	5.19	101.0							101
2	105	20.016	19.997	35.303	24.995	299.4	.385	5.15	99.9	2.4	.08	.0	.01	.19	.17	105
2	116	19.690	19.669	35.268	25.054	294.2	.416	5.05	97.3	2.6	.12	.1	.10	.27	.23	116
	125 ISL	19.342	19.319	35.226	25.114	288.9	.444	4.98	95.3							126
2	126	19.298	19.275	35.220D	25.120	288.3	.447									127
2	137	18.941	18.917	35.155	25.162	284.6	.479	4.91	93.2	2.8	.18	1.2	.04	.11	.14	138
	150 ISL	18.722	18.696	35.124	25.194	282.0	.515	4.86	91.9							151
1	151	18.707	18.681	35.121	25.196	281.8	.517	4.86	91.9	3.1	.20	1.5	.04	.10	.14	151
1	174	17.399	17.370	34.880	25.335	269.1	.582	4.72	86.9	4.5	.32	3.2	.02	.06	.10	175
1	198	16.429	16.397	34.737	25.455	258.3	.645	4.72	85.2	5.3	.39	4.2	.02			199
	200 ISL	16.341	16.309	34.725	25.466	257.3	.650	4.73	85.1							201
1	219	15.348	15.314	34.592	25.589	245.8	.697	4.78	84.4	6.6	.46	5.3	.01			220
1	246	13.623	13.588	34.403	25.812	224.7	.762	4.71	80.2	9.0	.66	8.2	.00			247
	250 ISL	13.411	13.376	34.383	25.840	222.1	.770	4.71	79.9							252
1	296	11.286	11.249	34.222	26.125	195.2	.867	4.79	77.5	14.8	.96	13.1	.00			298
	300 ISL	11.176	11.139	34.217	26.141	193.7	.874	4.79	77.3							302
1	344	10.136	10.096	34.170	26.288	180.1	.956	4.75	74.9	19.8	1.14	16.0	.00			346
1	394	9.398	9.353	34.131	26.381	171.8	1.044	4.60	71.4	24.7	1.30	18.4	.00			396
	400 ISL	9.248	9.203	34.122	26.398	170.2	1.054	4.53	70.1							403
1	493	6.943	6.897	34.024	26.664	144.4	1.200	3.16	46.3	48.6	2.05	29.2	.00			496
	500 ISL	6.813	6.766	34.023	26.681	142.8	1.211	3.05	44.6							504
1	593	5.463	5.413	34.050	26.874	124.2	1.334	1.72	24.4	74.7	2.66	37.6	.00			596
	600 ISL	5.386	5.336	34.058	26.889	122.7	1.343	1.64	23.2							604
	700 ISL	4.563	4.509	34.169	27.072	105.4	1.457	.84	11.7							705
2	785	4.167	4.108	34.279	27.201	93.4	1.542	.53	7.3	111.7	3.12	43.6	.00			791
	800 ISL	4.134	4.074	34.298	27.220	91.7	1.556	.55	7.6							806
	1000 ISL	3.687	3.613	34.456	27.393	76.5	1.724	.87	11.8							1008
1	1005	3.676	3.602	34.457	27.395	76.3	1.728	.88	12.0	123.4	3.08	43.5	.00			1012

RV NEW HORIZON — SOSO — STATION 8

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
25 58.6 N	155 47.6 W	04/08/82	1648 1831 GMT		0 12 KT		1	1018.5 MB	24.5 C	21.2 C	4/8	CC

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 D.BAR
	0 ISL	25.093	25.093	35.208	23.472	440.4	.000	4.89	103.7							0
2	1	25.093	25.093	35.208D	23.472	440.4	.004	4.89	103.7					.11	.03	1
	10 ISL	25.089	25.087	35.207	23.473	440.8	.044	4.87	103.4							10
2	12	25.088	25.085	35.207	23.474	440.8	.054	4.87	103.3	1.8	.06	.2	.00	.10	.02	12
	20 ISL	24.841	24.836	35.251	23.583	430.8	.088	4.94	104.4							20
	30 ISL	24.218	24.211	35.310	23.815	409.0	.130	5.08	106.1							30
2	33	23.953	23.946	35.330	23.909	400.2	.142	5.13	106.8	1.9	.03	.0	.00	.07	.03	33
	50 ISL	21.832	21.822	35.353	24.537	340.9	.205	5.40	108.4							50
2	52	21.566	21.556	35.355	24.613	333.8	.212	5.43	108.4	2.3	.03	.0	.00	.10	.01	52
2	72	20.639	20.625	35.332	24.850	312.1	.276	5.32	104.4	2.4	.07	.0	.00	.12	.03	72
	75 ISL	20.554	20.539	35.329	24.871	310.1	.286	5.31	104.0							75
2	92	20.250	20.233	35.323	24.948	303.4	.337	5.28	102.8	2.3	.07	.0	.00	.16	.08	92
	100 ISL	20.151	20.133	35.324	24.975	301.2	.362	5.27	102.4							101
2	102	20.123	20.104	35.323	24.982	300.6	.369	5.26	102.2	2.5	.07	.0	.00	.17	.10	103
2	113	19.946	19.925	35.310	25.019	297.4	.400	5.18	100.3	2.2	.08	.0	.00	.18	.20	113
2	124	19.762	19.739	35.290	25.053	294.6	.433	5.10	98.4	2.2	.09	.0	.07	.21	.13	124
	125 ISL	19.722	19.699	35.284	25.059	294.1	.436	5.09	98.2							126
2	135	19.321	19.297	35.217	25.112	289.4	.466	5.05	96.6	2.3	.12	.2	.17	.15	.17	136
2	147	18.936	18.910	35.149	25.159	285.2	.499	5.01	95.1	2.9	.16	.7	.10	.11	.16	147
	150 ISL	19.055	19.028	35.174	25.148	286.4	.509	5.01	95.3							151
1	153	19.187	19.160	35.202	25.136	287.8	.518	5.01	95.6	2.6	.15	.7	.10	.14	.15	154
1	179	18.311	18.280	35.043	25.237	278.9	.590	4.88	91.5	3.2	.21	1.7	.03	.07	.08	179
	200 ISL	17.045	17.012	34.839	25.389	264.8	.648	4.83	88.3							201
1	203	16.831	16.798	34.807	25.415	262.4	.657	4.83	87.9	4.6	.31	2.9	.02	.03	.03	204
1	228	15.781	15.745	34.657	25.543	250.7	.720	4.88	86.9	5.7	.38	4.1	.01			229
	250 ISL	14.507	14.470	34.482	25.688	237.0	.774	4.86	84.3							252
1	253	14.305	14.268	34.456	25.711	234.8	.782	4.86	83.9	7.5	.55	6.3	.01			255
	300 ISL	12.247	12.208	34.277	25.989	208.8	.885	4.94	81.5							302
1	303	12.157	12.117	34.272	26.002	207.5	.890	4.94	81.5	11.8	.79	10.5	.00			304
1	352	10.775	10.732	34.183	26.187	190.2	.988	4.92	78.7	16.4	1.01	13.8	.00			353
	400 ISL	9.585	9.540	34.126	26.346	175.4	1.076	4.68	73.0							403
1	403	9.516	9.470	34.123	26.356	174.5	1.082	4.66	72.5	23.3	1.27	17.7	.00			405
	500 ISL	7.278	7.229	34.036	26.628	148.4	1.238	3.38	49.9							504
1	502	7.245	7.197	34.035	26.632	148.0	1.241	3.35	49.5	45.1	1.96	27.7	.00			504
	600 ISL	5.670	5.619	34.054	26.853	126.6	1.376	1.76	25.1							604
1	601	5.658	5.606	34.055	26.855	126.4	1.377	1.75	24.9	71.9	2.63	37.0	.00			605
	700 ISL	4.772	4.716	34.154	27.036	109.1	1.493	.86	11.9							705
2	799	4.291	4.230	34.269	27.181	95.7	1.594	.48	6.6	108.8	3.11	43.6	.00			804
	800 ISL	4.285	4.224	34.271	27.183	95.6	1.596	.48	6.6							806
1	991	3.762	3.689	34.427	27.362	79.4	1.763	.74	10.1	123.0	3.11	43.8	.00			998
	1000 ISL	3.740	3.666	34.433	27.369	78.8	1.770									1008

RV NEW HORIZON SOSO STATION 9

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
27 00.2 N	155 25.1 W	05/08/82	0704 GMT		070	12 KT	080 04 07	1	1019.7 MB	23.8 C	22.3 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 D.BAR
	0 ISL	24.919	24.919	35.324	23.613	427.0	.000	4.89	103.5							0
1	2	24.919	24.919	35.324	23.613	427.1	.007	4.89	103.5	1.7	.04	.2	.00	.05	.00	2
	10 ISL	24.917	24.915	35.324	23.614	427.3	.043	4.82	102.1							10
	20 ISL	24.915	24.911	35.324	23.615	427.7	.085	4.74	100.4							20
1	22	24.915	24.910	35.324	23.615	427.7	.093	4.73	100.1	1.8	.04	.2	.00	.04	.02	22
	30 ISL	24.470	24.464	35.331	23.755	414.7	.128	4.89	102.8							30
	50 ISL	22.982	22.972	35.341	24.202	372.9	.206	5.30	108.5							50
1	53	22.724	22.713	35.343	24.278	365.8	.217	5.36	109.2	1.9	.03	.2	.00	.09	.01	53
	75 ISL	21.089	21.075	35.298	24.702	326.3	.294	5.18	102.4							75
1	77	20.936	20.921	35.294	24.741	322.7	.302	5.15	101.6	1.9	.07	.2	.00	.12	.02	78
	100 ISL	20.369	20.350	35.339	24.929	305.6	.372	5.23	102.1							101
1	103	20.320	20.301	35.339	24.942	304.5	.381	5.23	102.0	2.4	.07	.2	.00	.24	.10	103
	125 ISL	19.303	19.280	35.144	25.061	293.8	.447	4.78	91.3							126
1	127	19.198	19.175	35.122	25.071	292.9	.454	4.73	90.2	2.9	.21	1.6	.11	.17	.15	128
	150 ISL	18.511	18.485	35.033	25.178	283.5	.520	4.76	89.5							151
1	153	18.436	18.409	35.025	25.191	282.3	.528	4.76	89.5	3.4	.24	2.2	.03	.07	.08	154
	200 ISL	17.185	17.151	34.901	25.403	263.5	.656	5.10	93.5							201
1	202	17.125	17.092	34.893	25.411	262.7	.661	5.11	93.6	3.8	.22	1.8	.02	.02	.02	203
1	250	13.903	13.867	34.428	25.774	228.6	.780	4.94	84.6	7.7	.53	6.8	.00			251
1	300	11.964	11.925	34.239	26.013	206.3	.989	4.89	80.3	11.9	.78	11.0	.00			302
1	399	10.081	10.035	34.182	26.308	179.4	1.380	4.92	77.5	19.9	1.07	15.8	.00			402

RV NEW HORIZON SOSO STATION 10

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
27 59.2 N	154 59.6 W	05/08/82	1651 1831 GMT		050 10 KT	050 03 04	1	1020.3 MB	24.1 C	23.2 C	6/8	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 D.BAR
	0 ISL	24.054	24.054	35.342	23.886	401.0	.000	4.99	104.1							0
2	1	24.054	24.054	35.342	23.886	401.0	.006	4.99	104.1	3.0	.03	.2	.00	.08	.01	2
	10 ISL	24.044	24.041	35.344	23.891	400.9	.040	5.00	104.2							10
2	12	24.041	24.038	35.344	23.892	400.9	.049	5.00	104.2	3.0	.03	.2	.00	.10	.01	12
	20 ISL	24.058	24.054	35.345	23.889	401.6	.080	4.97	103.7							20
1	22	24.059	24.054	35.345	23.888	401.7	.087	4.97	103.7	3.1	.03	.1	.00	.08	.01	22
	30 ISL	23.978	23.972	35.335	23.905	400.4	.120	5.01	104.4							30
2	34	23.942	23.935	35.331	23.913	399.8	.135	5.03	104.7	3.0	.03	.0	.00	.12	.02	34
	50 ISL	21.632	21.622	35.220	24.492	345.2	.196	5.51	110.1							50
2	53	21.088	21.078	35.198	24.625	332.7	.206	5.61	110.9	3.6	.04	.1	.00	.11	.03	53
2	73	19.024	19.011	35.031	25.043	293.5	.269	5.66	107.6	4.8	.07	.1	.00	.12	.04	73
	75 ISL	18.938	18.924	35.034	25.067	291.2	.275	5.63	106.8							75
2	93	18.261	18.245	35.024	25.231	276.3	.327	5.38	100.8	4.7	.11	.0	.00	.12	.09	94
	100 ISL	17.821	17.803	34.950	25.283	271.5	.345	5.41	100.4							101
2	103	17.623	17.606	34.915D	25.304	269.6	.354	5.43	100.4	5.1	.13	.0	.00	.19	.17	104
2	114	17.351	17.332	34.879	25.343	266.2	.381	5.44	100.1	5.0	.13	.2	.03	.20	.16	114
2	124	17.042	17.022	34.836	25.384	262.6	.409	5.52	100.9	5.1	.14	.2	.09	.13	.15	125
	125 ISL	17.018	16.998	34.831	25.386	262.4	.411	5.53	101.0							126
2	135	16.730	16.708	34.772	25.409	260.5	.439	5.62	102.1	5.3	.13	.0	.03	.10	.13	136
2	146	16.526	16.503	34.759	25.447	257.3	.467	5.52	99.8	5.2	.16	.1	.12	.09	.16	147
	150 ISL	16.159	16.135	34.702	25.489	253.4	.476	5.46	98.1							151
1	154	15.667	15.642	34.628	25.543	248.2	.487	5.39	95.8	6.4	.25	1.6	.12	.08	.10	155
1	179	14.071	14.045	34.450	25.753	228.5	.546	5.06	87.0	8.4	.51	6.2	.02	.04	.05	180
	200 ISL	13.124	13.097	34.364	25.881	216.7	.593	5.11	86.1							201
1	203	13.009	12.981	34.354	25.897	215.2	.600	5.12	86.0	10.0	.64	8.1	.01	.02	.01	204
1	228	12.358	12.328	34.310	25.991	206.6	.652	5.22	86.5	11.2	.72	9.4	.00	.01	.01	229
	250 ISL	11.928	11.896	34.291	26.059	200.6	.697	5.24	86.0							252
1	253	11.875	11.842	34.289	26.067	199.9	.703	5.24	85.9	12.3	.77	10.4	.00	.00	.00	254
	300 ISL	11.140	11.102	34.250	26.174	190.6	.794	5.00	80.6							302
1	303	11.095	11.058	34.247	26.179	190.1	.800	4.98	80.3	16.2	.96	13.3	.00	.00	.00	305
1	353	10.227	10.186	34.201	26.297	179.6	.893	4.98	78.7	19.7	1.10	15.4	.00	.00	.00	355
	400 ISL	9.536	9.490	34.160	26.381	172.1	.975	4.91	76.5							403
1	403	9.488	9.442	34.156	26.386	171.6	.981	4.91	76.3	23.5	1.23	17.3	.00			405
	500 ISL	7.573	7.523	34.045	26.593	152.0	1.137	3.86	57.4							504
1	502	7.531	7.481	34.042	26.597	151.5	1.140	3.83	56.9	41.0	1.80	25.5	.00			505
	600 ISL	5.729	5.678	34.017	26.816	130.1	1.278	2.31	32.9							604
1	604	5.669	5.617	34.018	26.824	129.3	1.283	2.25	32.0	68.6	2.50	35.2	.00			608
	700 ISL	4.752	4.696	34.092	26.990	113.4	1.400	1.25	17.4							705
2	795	4.277	4.216	34.194	27.123	101.1	1.502	.65	8.9	105.9	3.08	43.3	.00			800
	800 ISL	4.249	4.188	34.199	27.130	100.5	1.507	.65	8.9							806
	1000 ISL	3.574	3.501	34.384	27.346	80.5	1.688	.48	6.4							1008
1	1018	3.551	3.477	34.401	27.362	79.1	1.703	.46	6.2	130.2	3.20	44.9	.00			1026

RV NEW HORIZON — SOSO — STATION 10

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 00.8 N	154 59.4 W	05/08/82	0329 GMT		050	10 KT	050 03 04	1	1020.3 MB	24.1 C	23.2 C	6/8	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 D.BAR
	0 ISL	24.233	24.232	35.348	23.837	406.7	.000	4.98	104.2							0
7	2	24.233	24.232	35.348	23.837	405.7	.009	4.98	104.2	2.3	.02	.2	.00	.09	.01	2
	10 ISL	24.126	24.123	35.348	23.870	402.9	.040	5.01	104.6							10
7	17	24.053	24.049	35.349	23.893	401.0	.069	5.02	104.7	2.4	.02	.1	.00	.10	.01	17
	20 ISL	24.041	24.037	35.350	23.897	400.8	.081	5.02	104.6							20
	30 ISL	24.002	23.995	35.351	23.910	399.9	.121	5.00	104.2							30
7	36	23.979	23.971	35.352	23.918	399.4	.144	4.99	103.9	2.4	.02	.1	.00	.12	.01	36
	50 ISL	21.113	21.104	35.207	24.625	332.6	.196	5.38	106.4							50
7	54	20.170	20.160	35.174	24.854	310.9	.210	5.50	106.9	3.4	.05	.1	.00	.11	.02	55
7	72	18.883	18.870	35.089	25.124	285.8	.263	5.51	104.5	3.8	.07	.1	.00	.14	.04	72
	75 ISL	18.721	18.707	35.072	25.152	283.2	.271	5.50	103.9							75
7	90	17.950	17.935	34.974	25.269	272.5	.314	5.40	100.5	4.2	.11	.0	.01	.26	.18	91
	100 ISL	17.508	17.491	34.915	25.332	266.8	.340	5.36	98.9							101
7	101	17.452	17.435	34.907	25.339	266.1	.343	5.35	98.6	4.3	.14	.2	.07	.26	.20	102
7	111	16.953	16.935	34.833	25.402	260.4	.370	5.24	95.6	4.7	.21	1.2	.20	.19	.17	112
7	121	16.418	16.399	34.751	25.465	254.7	.394	5.48	98.9	4.7	.17	.7	.12	.14	.13	121
	125 ISL	16.296	16.276	34.717	25.468	254.6	.405	5.56	100.0							126
7	128	16.208	16.188	34.693	25.469	254.5	.414	5.60	100.6	4.7	.15	.2	.14	.12	.12	129
7	137	15.911	15.889	34.646	25.501	251.6	.436	5.56	99.3	4.9	.17	.4	.19	.10	.09	138
7	146	15.589	15.566	34.620	25.554	246.8	.458	5.30	94.0	5.8	.29	2.3	.08	.07	.10	147
	150 ISL	15.374	15.351	34.598	25.586	243.9	.467	5.26	92.9							151
7	172	14.043	14.018	34.463	25.769	226.8	.519	5.04	86.6	8.0	.52	6.5	.02	.04	.07	173
	200 ISL	12.980	12.953	34.356	25.904	214.4	.581	5.18	86.9							201
7	202	12.927	12.899	34.351	25.911	213.8	.585	5.19	87.0	9.5	.63	8.3	.01	.02	.02	203
7	229	12.362	12.332	34.302	25.984	207.4	.642	5.19	86.0	10.5	.69	9.1	.00			230
	250 ISL	11.884	11.852	34.292	26.068	199.8	.685	5.19	85.1							252
7	254	11.798	11.765	34.291	26.083	198.3	.693	5.19	85.0	12.4	.78	10.6	.00			255
	300 ISL	11.095	11.058	34.245	26.177	190.2	.782	5.11	82.3							302
7	304	11.048	11.011	34.240	26.182	189.8	.789	5.10	82.1	15.3	.92	12.9	.00			305
	400 ISL	9.536	9.491	34.161	26.382	172.0	.963	4.99	77.6							403
7	406	9.441	9.395	34.156	26.394	170.9	.973	4.98	77.4	22.9	1.19	17.0	.00			408
	500 ISL	7.648	7.598	34.051	26.587	152.6	1.126	4.01	59.8							504
7	504	7.577	7.527	34.047	26.595	151.9	1.131	3.96	58.9	39.9	1.74	25.1	.00			507
7	600	6.116	6.063	34.010	25.763	135.7	1.269	2.74	39.4	60.7	2.29	33.0	.00			603
	700 ISL	5.013	4.956	34.080	26.951	117.5	1.396	1.57	22.0							705
	800 ISL	4.263	4.202	34.193	27.123	101.1	1.505	.71	9.7							806
7	802	4.251	4.190	34.195	27.126	100.8	1.508	.69	9.5	106.9	3.07	43.6	.00			808
	1000 ISL	3.642	3.569	34.384	27.339	81.3	1.688	.49	6.6							1008
7	1016	3.592	3.518	34.390	27.349	80.4	1.701	.47	6.4	128.9	3.18	45.2	.00			1024

RV NEW HORIZON SOSO STATION 11

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
28 01.0 N	155 00.2 W	06/08/82	1238 GMT		070 18 KT		1	1020.2 MB	23.9 C	22.7 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 D.BAR
1	17	24.224	24.220	35.324	23.823	407.7	.069	4.97	103.9	1.9	.03	.1	.00	.08	.02	17
	20 ISL	24.212	24.208	35.328	23.829	407.2	.082	4.97	104.0							20
	30 ISL	24.176	24.170	35.340	23.850	405.7	.122	4.98	104.2							30
1	34	24.160	24.153	35.346	23.860	405.0	.140	4.99	104.2	1.8	.03	.1	.00	.07	.02	35
	50 ISL	20.595	20.585	35.189	24.751	320.5	.197	5.53	108.4							50
1	51	20.265	20.255	35.179	24.832	312.8	.201	5.58	108.6	3.1	.06	.1	.00	.09	.02	52
1	69	18.902	18.890	35.062	25.098	288.1	.255	5.56	105.5	3.6	.08	.0	.00	.10	.04	70
	75 ISL	18.551	18.538	35.032	25.164	282.0	.271	5.50	103.7							75
1	87	17.990	17.975	34.977	25.261	273.1	.306	5.43	101.2	3.6	.11	.0	.01	.21	.17	88
1	96	17.788	17.772	34.941	25.284	271.3	.330	5.52	102.4	3.8	.11	.0	.00	.20	.15	97
	100 ISL	17.647	17.630	34.926	25.307	269.2	.340	5.50	101.8							101
1	106	17.414	17.397	34.903	25.346	265.7	.356	5.45	100.4	4.0	.14	.3	.11	.22	.16	106
1	117	17.232	17.213	34.878	25.371	263.7	.384	5.46	100.2	4.4	.14	.2	.09	.20	.17	117
	125 ISL	17.115	17.094	34.866	25.390	262.1	.406	5.43	99.5							126
1	127	17.078	17.057	34.861	25.395	261.6	.410	5.43	99.3	4.5	.15	.3	.15	.18	.12	127
1	134	16.704	16.682	34.809	25.444	257.2	.430	5.15	93.5	5.1	.25	2.1	.07	.14	.14	135
1	144	16.576	16.553	34.789	25.458	256.1	.454	5.13	92.9	5.1	.27	2.3	.06	.12	.12	144
	150 ISL	16.327	16.303	34.744	25.482	254.0	.470	5.15	92.8							151
1	167	15.390	15.364	34.597	25.582	244.8	.513	5.21	92.0	5.7	.32	2.9	.04	.06	.08	168
1	190	13.997	13.969	34.462	25.779	226.4	.568	5.09	87.3	7.9	.54	6.6	.02	.04	.05	191
	200 ISL	13.650	13.622	34.421	25.819	222.8	.590	5.10	86.9							201
1	213	13.274	13.244	34.374	25.860	219.1	.618	5.12	86.5	8.7	.60	7.5	.01	.02	.03	214
1	237	12.524	12.492	34.311	25.960	210.0	.669	5.20	86.5	9.7	.67	8.7	.00			238
	250 ISL	12.143	12.110	34.288	26.016	204.8	.697	5.18	85.4							252
1	287	11.225	11.189	34.247	26.156	192.0	.770	5.12	82.8	14.1	.90	12.2	.00			288
	300 ISL	10.972	10.935	34.235	26.192	188.8	.795	5.10	82.0							302
1	376	9.704	9.661	34.168	26.360	173.7	.933	4.93	77.0	21.6	1.19	16.6	.00			378
	400 ISL	9.276	9.231	34.146	26.413	168.8	.974	4.85	75.1							403
1	471	8.003	7.955	34.083	26.561	155.0	1.088	4.39	66.0	33.8	1.55	22.0	.00			474
	500 ISL	7.466	7.417	34.052	26.614	149.9	1.133	4.00	59.4							504
1	561	6.426	6.375	34.006	26.719	139.6	1.221	3.09	44.8	54.5	2.17	30.7	.00			564
	600 ISL	5.914	5.862	34.015	26.792	132.7	1.274	2.56	36.6							604
	700 ISL	4.887	4.830	34.081	26.966	115.9	1.399	1.42	19.8							705
1	764	4.442	4.383	34.151	27.071	105.9	1.470	.86	11.9	100.4	3.05	42.5	.00			770
	800 ISL	4.263	4.202	34.185	27.117	101.6	1.507	.79	10.8							806
1	987	3.652	3.580	34.372	27.329	82.2	1.679	.40	5.4	127.7	3.24	45.0	.00			995
	1000 ISL	3.610	3.537	34.385	27.344	80.9	1.689									1008

RV NEW HORIZON SOSO STATION 11

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 03.5 N	154 58.6 W	06/08/82	1707 GMT		070	18 KT		1	1020.2 MB	23.9 C	22.7 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 D.BAR
3	15	24.222	24.219	35.327	23.826	407.4	.061	4.96	103.7	3.1	.03	.0	.00	.08	.02	15
	20 ISL	24.190	24.185	35.332	23.839	406.3	.082	4.97	104.0							20
	30 ISL	24.126	24.119	35.340	23.865	404.2	.122	5.00	104.4							30
3	33	24.109	24.102	35.343	23.873	403.7	.133	5.01	104.5	3.0	.03	.1	.00	.10	.02	33
	50 ISL	21.304	21.294	35.179	24.552	339.6	.197	5.55	110.1							50
3	52	20.973	20.963	35.166	24.632	332.0	.203	5.60	110.4	4.0	.05	.0	.00	.09	.02	52
3	71	19.506	19.493	35.169	25.024	295.3	.263	5.39	103.5	4.2	.08	.0	.00	.10	.04	71
	75 ISL	19.172	19.159	35.124	25.077	290.4	.275	5.43	103.5							75
3	90	18.139	18.124	34.963	25.218	277.3	.318	5.54	103.5	4.9	.10	.0	.00	.14	.08	90
3	100	17.746	17.729	34.945	25.297	270.1	.344	5.42	100.5	4.7	.13	.1	.04	.25	.20	100
3	109	17.408	17.390	34.901D	25.346	265.8	.371	5.40	99.4	5.1	.14	.3	.10	.22	.22	110
3	120	17.092	17.072	34.857	25.388	262.1	.398	5.38	98.4	5.2	.17	.6	.15	.18	.16	120
	125 ISL	16.862	16.842	34.828	25.420	259.2	.411	5.25	95.7							126
3	130	16.657	16.636	34.801	25.448	256.6	.423	5.14	93.2	5.6	.25	2.0	.12	.14	.13	130
3	139	16.348	16.326	34.758	25.488	253.2	.447	5.09	91.7	6.4	.30	2.8	.04	.10	.13	140
3	149	15.565	15.541	34.637	25.573	245.2	.473	5.22	92.6	6.5	.30	2.6	.06	.08	.10	150
	150 ISL	15.525	15.502	34.631	25.577	244.8	.475	5.22	92.5							151
3	175	13.925	13.900	34.429D	25.768	226.9	.534	5.12	87.7	7.7	.48	5.7	.01	.04	.05	176
3	199	13.017	12.990	34.359	25.899	214.9	.587	5.12	86.0	9.1	.61	7.8	.01	.02	.02	200
	200 ISL	12.994	12.967	34.356	25.901	214.7	.589	5.12	86.0							201
3	223	12.287	12.258	34.285	25.985	207.1	.638	5.17	85.5	10.9	.70	9.2	.01	.01	.01	224
3	244	11.685	11.654	34.258	26.079	198.5	.680	5.15	84.1	13.1	.80	10.8	.00			245
	250 ISL	11.570	11.538	34.254	26.097	196.8	.692	5.14	83.7							252
3	292	10.916	10.880	34.233	26.200	187.7	.772	5.02	80.6	16.7	.96	13.4	.00			293
	300 ISL	10.787	10.750	34.227	26.219	186.1	.787	4.99	79.9							302
3	389	9.381	9.337	34.145D	26.395	170.4	.946									391
	400 ISL	9.216	9.171	34.136	26.414	168.7	.965	4.60	71.0							403
3	485	7.858	7.809	34.064	26.567	154.5	1.103	4.21	63.1	35.7	1.60	23.0	.00			488
	500 ISL	7.566	7.516	34.050	26.599	151.5	1.125	3.99	59.4							504
3	588	5.895	5.844	34.008	26.788	132.8	1.250	2.51	35.9	63.9	2.36	33.7	.00			592
	600 ISL	5.743	5.691	34.014	26.812	130.5	1.266	2.35	33.5							604
	700 ISL	4.729	4.674	34.095	26.995	113.0	1.388	1.24	17.3							705
3	776	4.286	4.227	34.180	27.110	102.1	1.470	.71	9.8	105.9	3.04	43.0	.00			782
3	776	4.288	4.229	34.185	27.114	101.7	1.470	.70	9.6	106.3	3.02	43.0	.00			782
	800 ISL	4.183	4.122	34.206	27.142	99.1	1.493	.67	9.2							806
3	989	3.589	3.517	34.386	27.346	80.4	1.663	.42	5.7	130.4	3.17	44.7	.00			996
	1000 ISL	3.550	3.477	34.398	27.360	79.2	1.672									1003

RV NEW HORIZON SOSO STATION 11

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
28 00.0 N	154 57.7 W	06/08/82	2200 GMT		070	18 KT		1	1020.2 MB	23.9 C	22.7 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 D.BAR
	0 ISL	24.313	24.313	35.332	23.801	409.3	.000									0
8	1	24.313	24.313	35.332D	23.801	409.1	.006			1.7	.01	.1	.00	.09	.01	2
	10 ISL	24.267	24.265	35.331	23.815	408.1	.041									10
8	11	24.262	24.260	35.331	23.817	408.0	.046			1.6	.01	.1	.00	.13	.00	11
	20 ISL	24.233	24.229	35.331	23.826	407.6	.082									20
8	23	24.228	24.223	35.332D	23.828	407.5	.094			1.3	.01	.1	.00	.11	.02	23
	30 ISL	24.231	24.224	35.337	23.831	407.5	.122									30
8	34	24.232	24.225	35.339D	23.833	407.5	.138			1.0	.01	.1	.00	.08	.02	34
8	43	22.688	22.679	35.234D	24.205	372.4	.174			1.4	.03	.0	.00	.14	.02	43
	50 ISL	21.072	21.063	35.192	24.624	332.6	.199									50
8	53	20.507	20.497	35.185D	24.772	318.6	.207			1.7	.04	.0	.00	.11	.02	53
8	63	19.772	19.761	35.161D	24.949	302.1	.239			1.6	.06	.0	.00			63
8	73	19.245	19.232	35.103D	25.042	293.7	.269			2.0	.06	.0	.00	.12	.04	73
	75 ISL	19.162	19.148	35.096	25.058	292.2	.275									75
8	83	18.810	18.795	35.065D	25.124	286.2	.299			1.9	.07	.0	.00	.13	.05	84
8	93	18.304	18.288	34.997D	25.199	279.3	.325			2.0	.09	.0	.00	.15	.08	93
	100 ISL	18.102	18.084	34.978	25.235	276.1	.346									101
8	103	18.039	18.022	34.972D	25.246	275.1	.353			2.0	.09	.0	.00	.17	.14	103
8	113	17.651	17.632	34.924D	25.305	269.8	.381			2.3	.12	.0	.04	.29	.20	113
8	123	17.306	17.286	34.875D	25.351	265.7	.408			2.8	.13	.0	.03	.22	.20	124
	125 ISL	17.253	17.232	34.870	25.360	265.0	.413									126
8	134	17.026	17.004	34.846D	25.396	261.8	.436			3.0	.21	1.3	.15	.21	.18	134
8	143	16.734	16.711	34.810D	25.438	258.1	.461			3.1	.22	1.7	.13	.15	.15	144
	150 ISL	16.398	16.374	34.753	25.473	254.9	.478									151
8	153	16.208	16.184	34.722D	25.493	253.1	.487			3.4	.30	2.9	.05	.11	.12	154
8	176	14.582	14.556	34.513D	25.694	234.3	.541			5.0	.44	5.1	.02	.04	.08	176

RV NEW HORIZON SOSO STATION 12

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
27 58.5 N	154 58.7 W	07/08/82	0210 GMT		090	10 KT	100 03 04	1	1021.9 MB	24.2 C	23.0 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 D.BAR
	0 ISL	24.533	24.533	35.337	23.739	415.5	.000	5.01	105.4							0
1	1	24.533	24.533	35.337	23.739	415.0	.005	5.01	105.4	2.5	.03	.0	.00	.05	.01	1
	10 ISL	24.396	24.394	35.338	23.781	411.3	.041	4.98	104.4							10
1	16	24.306	24.303	35.339	23.810	408.9	.067	4.97	104.1	2.5	.03	.0	.00	.06	.02	16
	20 ISL	24.255	24.251	35.340	23.825	407.6	.082	4.98	104.2							20
	30 ISL	24.124	24.118	35.341	23.867	404.1	.123	5.00	104.4							30
1	34	24.065	24.058	35.342	23.885	402.6	.141	5.01	104.5	2.5	.03	.0	.00	.10	.02	35
	50 ISL	20.891	20.882	35.198	24.678	327.4	.198	5.50	108.3							50
1	53	20.297	20.287	35.180	24.824	313.6	.206	5.58	108.7	3.9	.05	.0	.00	.09	.03	53
1	72	19.153	19.140	35.090	25.056	292.3	.266	5.53	105.4	3.9	.07	.0	.00	.12	.03	73
	75 ISL	18.965	18.952	35.073	25.091	289.0	.273	5.51	104.7							75
1	92	17.898	17.882	34.966	25.276	271.9	.322	5.43	101.0	4.5	.11	.1	.03	.27	.20	93
	100 ISL	17.644	17.627	34.932	25.312	268.7	.343	5.47	101.2							101
1	102	17.582	17.565	34.922	25.320	268.1	.349	5.48	101.3	4.6	.11	.1	.02	.25	.18	103
1	112	17.278	17.260	34.874	25.357	264.8	.374	5.44	99.9	4.8	.14	.3	.06	.23	.19	112
1	122	17.046	17.026	34.848	25.392	261.7	.400	5.21	95.2	5.4	.20	1.3	.15	.20	.19	122
	125 ISL	16.918	16.898	34.833	25.411	260.1	.409	5.20	94.9							126
1	132	16.643	16.622	34.799	25.450	256.5	.426	5.19	94.1	5.6	.25	2.2	.06	.15	.15	132
1	143	16.332	16.310	34.759	25.492	252.8	.454	5.06	91.2	5.8	.30	3.0	.04	.07	.08	143
	150 ISL	15.703	15.680	34.648	25.551	247.4	.473	5.22	92.8							151
1	152	15.501	15.477	34.613	25.569	245.6	.478	5.27	93.3	6.0	.28	2.4	.06	.11	.14	153
1	177	14.331	14.305	34.502	25.739	229.9	.536	5.08	87.8	7.8	.45	5.3	.02	.04	.07	177
1	200	13.186	13.158	34.364	25.869	217.8	.589	5.15	86.9	9.4	.60	7.6	.01	.02	.03	201
1	225	12.544	12.514	34.311	25.956	210.0	.643	5.19	86.3	10.2	.66	8.6	.00			226
1	250	12.095	12.062	34.280	26.019	204.5	.694	5.26	86.6	11.4	.71	9.6	.00			251
1	299	11.292	11.255	34.251	26.147	193.2	.792	5.14	83.2	14.6	.87	12.1	.00			301
	300 ISL	11.282	11.244	34.251	26.148	193.1	.793	5.14	83.2							302
1	399	9.411	9.366	34.154	26.397	170.4	.973	4.93	76.5	23.7	1.20	17.0	.00			401
	400 ISL	9.389	9.344	34.153	26.400	170.2	.975	4.92	76.4							403
1	498	7.438	7.389	34.042	26.610	150.2	1.131	3.86	57.3	41.8	1.77	25.4	.00			501
	500 ISL	7.396	7.347	34.040	26.615	149.8	1.135	3.83	56.7							504
1	596	5.903	5.852	34.011	26.790	132.8	1.271	2.53	36.2	64.1	2.36	33.8	.00			600
	600 ISL	5.859	5.807	34.013	26.797	132.1	1.276	2.50	35.7							604
	700 ISL	4.857	4.801	34.095	26.980	114.5	1.399	1.84	25.7							705
1	791	4.274	4.214	34.201D	27.129	100.5	1.497									797
	800 ISL	4.255	4.194	34.208	27.136	99.8	1.506	1.43	19.6							806
1	986	3.666	3.594	34.368	27.324	82.6	1.575	.42	5.7	126.9	3.16	44.6	.00			993
	1000 ISL	3.550	3.477	34.385	27.349	80.1	1.687									1008

RV NEW HORIZON SOSO STATION 13

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 00.2 N	155 00.5 W	07/08/82	1408 GMT		080	10 KT	050 01 06	1	1020.8 MB	23.7 C	22.2 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 D.BAR
	0 ISL	24.441	24.441	35.343	23.771	411.8	.000	4.93	103.5							0
1	2	24.441	24.441	35.343	23.771	411.9	.008	4.93	103.5	2.3	.03	.2	.00	.06	.01	2
	10 ISL	24.446	24.443	35.342	23.770	412.5	.041	4.94	103.8							10
1	16	24.449	24.445	35.341	23.768	412.9	.067	4.95	103.9	2.3	.02	.2	.00	.06	.01	16
	20 ISL	24.405	24.400	35.342	23.782	411.8	.082	4.95	103.9							20
	30 ISL	24.289	24.283	35.342	23.818	408.8	.123	4.95	103.6							30
1	34	24.243	24.236	35.342	23.832	407.6	.140	4.95	103.6	2.0	.02	.1	.00	.08	.02	34
	50 ISL	23.434	23.423	35.311	24.048	387.7	.203	5.15	106.1							50
1	54	23.076	23.065	35.292	24.138	379.2	.218	5.21	106.8	2.2	.02	.1	.00	.13	.03	54
1	72	19.672	19.659	35.140	24.959	301.5	.280	5.55	106.9	3.5	.06	.0	.00	.10	.03	72
	75 ISL	19.411	19.397	35.127	25.017	296.1	.289	5.54	106.2							75
1	92	18.529	18.513	35.042	25.178	281.3	.337	5.44	102.5	3.7	.10	.0	.00	.10	.10	92
	100 ISL	18.096	18.079	34.986	25.243	275.4	.360	5.47	102.0							101
1	101	18.037	18.020	34.977D	25.251	274.7	.364	5.47	102.0	4.1	.10	.0	.00	.16	.11	102
1	111	17.590	17.571	34.915	25.313	269.0	.391	5.47	101.1	4.1	.11	.1	.02	.28	.18	112
1	121	17.152	17.132	34.865	25.380	262.8	.417	5.31	97.3	4.3	.18	.7	.17	.20	.14	122
	125 ISL	17.060	17.039	34.853	25.394	261.7	.427	5.28	96.5							126
1	131	16.901	16.880	34.829	25.413	260.1	.443	5.25	95.7	4.5	.20	1.2	.14	.15	.13	132
1	141	16.360	16.338	34.749	25.478	254.1	.469	5.27	95.0	5.1	.24	1.7	.08	.10	.11	142
	150 ISL	16.051	16.027	34.707	25.517	250.6	.491	5.15	92.3							151
1	151	16.021	15.998	34.703	25.521	250.3	.494	5.14	92.0	5.8	.30	2.7	.03	.08	.08	152
1	176	14.424	14.398	34.528	25.739	229.9	.553	5.02	86.9	7.4	.48	5.7	.02	.04	.04	176
1	200	13.515	13.487	34.415	25.842	220.5	.607	5.03	85.4	8.7	.58	7.4	.01	.03	.03	201
1	224	12.608	12.578	34.318	25.949	210.7	.660	5.17	86.1	9.9	.66	8.6	.01			225
1	249	11.841	11.809	34.264	26.054	201.0	.710	5.18	84.9	12.0	.77	10.3	.00			250
	250 ISL	11.807	11.775	34.262	26.059	200.5	.713	5.18	84.7							252
1	299	10.939	10.903	34.239	26.201	187.8	.808	5.03	80.8	16.2	.96	13.3	.00			300
	300 ISL	10.918	10.881	34.238	26.204	187.6	.810	5.03	80.8							302
1	399	9.337	9.292	34.138	26.397	170.4	.988	4.88	75.6	23.9	1.23	17.4	.00			402
	400 ISL	9.326	9.281	34.137	26.398	170.3	.989	4.88	75.6							403
1	498	7.783	7.733	34.054	26.570	154.3	1.148	4.21	62.9	37.3	1.63	23.3	.00			501
	500 ISL	7.740	7.690	34.052	26.575	153.9	1.151	4.18	62.4							504
1	591	6.061	6.009	34.003	26.764	135.4	1.283	2.78	39.9	60.5	2.26	32.8	.00			595
	600 ISL	5.949	5.896	34.007	26.781	133.7	1.295	2.66	38.1							604
	700 ISL	4.888	4.832	34.074	26.960	116.4	1.420	1.47	20.6							705
1	786	4.343	4.283	34.170	27.097	103.6	1.515	.76	10.5	102.5	3.01	42.4	.00			792
	800 ISL	4.295	4.233	34.167	27.100	103.4	1.529	.74	10.2							806
1	993	3.593	3.520	34.389	27.348	80.3	1.710	.43	5.8	129.2	3.15	44.5	.00			1005
	1000 ISL	3.540	3.467	34.392	27.356	79.5	1.712									1008

RV NEW HORIZON SOSO STATION 13

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 00.9 N	154 57.4 W	07/08/82	1752 GMT		080	10 KT	050 01 06	1	1020.8 MB	23.7 C	22.2 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 D.BAR
	0 ISL	24.361	24.361	35.342	23.795	409.7	.000	4.95	103.8							0
3	1	24.361	24.361	35.342	23.795	409.7	.004	4.95	103.8	2.2	.02	.1	.00	.08	.02	1
3	5	24.355	24.354	35.342	23.797	409.7	.022	4.95	103.8	2.2	.02	.1	.00	.08	.01	6
	10 ISL	24.338	24.336	35.341	23.801	409.4	.041	4.96	103.9							10
3	17	24.310	24.306	35.340	23.809	409.0	.071	4.97	104.1	2.1	.02	.1	.00	.07	.01	17
	20 ISL	24.279	24.275	35.339	23.818	408.3	.082	4.97	104.1							20
3	28	24.131	24.125	35.337	23.861	404.6	.115	4.99	104.2	2.1	.02	.0	.00	.09	.02	28
	30 ISL	24.072	24.066	35.336	23.878	403.0	.122	5.00	104.3							30
3	38	23.810	23.802	35.333	23.954	396.1	.156	5.05	104.9	2.1	.02	.0	.00	.11	.02	39
3	46	20.426	20.417	35.135	24.755	320.0	.185	5.58	108.9	3.5	.05	.0	.00	.09	.02	47
	50 ISL	20.167	20.158	35.140	24.829	313.1	.196	5.57	108.3							50
3	57	19.703	19.693	35.151	24.959	300.9	.216	5.56	107.1	3.5	.06	.0	.00	.09	.02	57
3	66	18.936	18.924	35.073	25.097	288.0	.244	5.54	105.2	3.9	.07	.0	.00	.11	.07	66
	75 ISL	18.519	18.506	35.038	25.176	280.8	.270	5.43	102.3							75
3	76	18.486	18.473	35.035	25.183	280.3	.272	5.42	102.0	3.9	.10	.0	.00	.13	.08	76
3	86	18.234	18.219	34.995	25.215	277.5	.301	5.45	102.0	4.1	.10	.0	.00	.14	.11	86
3	96	17.894	17.878	34.951	25.266	273.1	.329	5.44	101.2	4.1	.11	.0	.02	.26	.20	97
	100 ISL	17.745	17.728	34.928	25.285	271.3	.339	5.47	101.4							101
3	106	17.515	17.497	34.896	25.316	268.5	.356	5.49	101.3	4.3	.11	.0	.02	.21	.19	107
3	117	17.401	17.382	34.905	25.351	265.5	.383	5.28	97.2	4.3	.16	.4	.18	.20	.20	117
	125 ISL	17.121	17.100	34.870	25.392	261.9	.405	5.23	95.7							126
3	126	17.055	17.034	34.861	25.401	261.2	.409	5.22	95.5	4.5	.20	1.2	.13	.17	.14	127
3	137	16.503	16.481	34.784	25.471	254.6	.435	5.08	91.9	5.3	.28	2.5	.04	.10	.14	137
3	146	16.021	15.998	34.715	25.530	249.3	.459	5.03	90.1	5.7	.33	3.5	.04	.08	.09	147
	150 ISL	15.787	15.764	34.685	25.560	246.5	.469	5.00	89.2							151
3	156	15.390	15.366	34.635	25.611	241.7	.483	4.98	88.0	6.3	.41	4.6	.02	.05	.07	157
3	170	14.251	14.226	34.489	25.745	229.0	.516	5.07	87.5	7.5	.49	5.8	.02	.04	.05	171

RV NEW HORIZON — SOSO — STATION 14

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 00.6 N	154 59.6 W	08/08/82	0225 GMT		070	12 KT	100 02 04	1	1022.2 MB	24.2 C	22.2 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 D.BAR
	0 ISL	24.667	24.667	35.347	23.706	419.1	.000	4.94	104.1							0
1	2	24.667	24.667	35.347	23.706	418.1	.008	4.94	104.1	2.0	.03	.2	.00	.06	.01	2
	10 ISL	24.512	24.510	35.343	23.750	414.3	.042	4.95	104.1							10
1	16	24.423	24.420	35.342	23.777	412.1	.066	4.96	104.1	2.0	.03	.1	.00	.06	.01	16
	20 ISL	24.386	24.382	35.343	23.789	411.1	.083	4.96	104.1							20
	30 ISL	24.296	24.290	35.345	23.818	408.7	.124	4.98	104.2							30
1	35	24.255	24.248	35.346	23.832	407.7	.143	4.98	104.2	2.0	.03	.1	.00	.07	.01	35
	50 ISL	20.818	20.808	35.145	24.658	329.4	.199	5.48	107.7							50
1	53	20.144	20.134	35.119	24.818	314.2	.209	5.57	108.2	3.4	.06	.1	.00	.09	.01	53
1	72	18.894	18.881	35.067	25.104	287.7	.268	5.56	105.5	3.8	.08	.1	.00	.12	.03	73
	75 ISL	18.768	18.755	35.053	25.125	285.7	.275	5.56	105.2							75
1	92	17.974	17.958	34.949	25.244	274.9	.323	5.55	103.4	4.0	.10	.1	.00	.16	.09	93
	100 ISL	17.566	17.549	34.899	25.306	269.3	.344	5.52	101.9							101
1	102	17.463	17.446	34.887	25.322	267.8	.351	5.50	101.4	4.2	.12	.0	.01	.24	.18	103
1	112	17.293	17.275	34.882	25.359	264.6	.377	5.36	98.5	4.4	.15	.5	.10	.21	.17	113
1	122	16.810	16.790	34.827	25.432	258.0	.403	5.26	95.7	4.8	.21	1.3	.17	.17	.16	123
	125 ISL	16.681	16.661	34.809	25.448	256.4	.410	5.21	94.6							126
1	132	16.375	16.354	34.764	25.486	253.1	.429	5.09	91.8	5.6	.29	2.6	.06	.08	.09	133
1	141	16.193	16.171	34.739	25.509	251.2	.451	5.03	90.4	5.6	.32	3.2	.04	.10	.11	142
1	149	15.722	15.698	34.690	25.578	244.7	.471	5.00	89.0	6.0	.37	3.8	.03	.07	.07	150
	150 ISL	15.652	15.629	34.682	25.588	243.8	.473	5.00	88.8							151
1	172	14.240	14.215	34.506	25.761	227.6	.524	5.00	86.3	7.7	.50	6.3	.02	.03	.03	172
1	194	13.204	13.177	34.381	25.879	216.8	.574	5.06	85.4	9.1	.62	7.8	.01	.02	.02	195
	200 ISL	13.051	13.024	34.364	25.896	215.3	.587	5.08	85.5							201
1	216	12.732	12.703	34.329	25.933	212.1	.622	5.14	85.8	9.7	.66	8.5	.01			217
1	240	12.217	12.185	34.289	26.002	205.9	.671	5.20	85.9	10.5	.71	9.4	.01			241
	250 ISL	12.036	12.003	34.279	26.029	203.5	.691	5.19	85.4							252
1	291	11.356	11.320	34.249	26.133	194.3	.774	5.09	82.5	14.0	.87	11.9	.00			293
	300 ISL	11.205	11.168	34.242	26.156	192.4	.790	5.08	82.1							302
1	393	9.571	9.526	34.157	26.374	172.6	.961	4.89	76.2	22.5	1.20	16.9	.00			396
	400 ISL	9.458	9.412	34.151	26.387	171.5	.972	4.87	75.6							403
1	492	7.832	7.782	34.057	26.565	154.8	1.123	4.22	63.2	36.7	1.61	23.0	.00			495
	500 ISL	7.673	7.623	34.050	26.583	153.1	1.135	4.11	61.3							504
1	588	5.945	5.894	34.002	26.778	133.9	1.261	2.73	39.1	61.6	2.29	32.7	.00			592
	600 ISL	5.786	5.734	34.007	26.802	131.6	1.277	2.56	36.6							604
	700 ISL	4.765	4.710	34.081	26.979	114.4	1.400	1.43	19.9							705
1	781	4.318	4.258	34.171	27.100	103.2	1.488	.79	10.9	103.2	3.02	42.5	.00			787
	800 ISL	4.210	4.149	34.188	27.125	100.8	1.507	.76	10.5							806
	1000 ISL	3.607	3.534	34.371	27.333	81.9	1.690	.47	6.3							1008
1	1019	3.602	3.528	34.387	27.346	80.7	1.705	.44	6.0	128.4	3.17	44.5	.00			1026

RV NEW HORIZON SOSO STATION 15

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 00.0 N	153 59.4 W	08/08/82	1709 GMT		070	14 KT	070 04 04	1	1022.5 MB	23.8 C	21.0 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 D.BAR
	0 ISL	24.531	24.531	35.194	23.632	425.2	.000	4.93	103.6							0
1	1	24.531	24.531	35.194	23.632	425.3	.005	4.93	103.6	2.3	.02	.1	.00	.08	.01	1
	10 ISL	24.533	24.531	35.195	23.633	425.5	.043	4.95	104.0							10
1	15	24.534	24.531	35.197	23.634	425.7	.064	4.96	104.2	2.3	.03	.2	.00	.11	.01	15
	20 ISL	24.495	24.491	35.240	23.678	421.7	.085	4.97	104.4							20
	30 ISL	24.417	24.410	35.326	23.767	413.6	.127	4.99	104.8							30
1	34	24.389	24.382	35.356	23.799	410.7	.141	5.00	104.9	2.1	.02	.1	.00	.14	.03	34
	50 ISL	20.456	20.446	35.207	24.803	315.6	.201	5.48	107.0							50
1	51	20.145	20.136	35.199	24.879	308.3	.205	5.51	107.1	3.7	.06	.0	.00	.09	.03	51
1	70	19.175	19.162	35.133	25.083	289.6	.262	5.46	104.1	3.6	.08	.1	.00	.12	.06	71
	75 ISL	18.922	18.909	35.105	25.125	285.7	.276	5.46	103.6							75
1	88	18.276	18.261	35.020	25.224	276.8	.312	5.46	102.3	4.0	.10	.1	.00	.13	.14	88
1	98	17.937	17.920	34.967	25.268	272.9	.340	5.44	101.3	4.2	.11	.1	.01	.19	.18	99
	100 ISL	17.879	17.862	34.958	25.275	272.2	.345	5.44	101.1							101
1	109	17.572	17.554	34.915	25.317	268.5	.368	5.42	100.1	4.4	.13	.1	.06	.18	.17	109
1	119	17.120	17.101	34.854	25.379	262.9	.395	5.42	99.2	4.6	.15	.4	.16	.12	.13	119
	125 ISL	16.952	16.932	34.833	25.403	260.8	.412	5.43	99.0							126
1	129	16.841	16.820	34.818	25.418	259.5	.423	5.43	98.9	4.8	.16	.3	.18	.10	.14	130
1	138	16.539	16.517	34.771	25.453	256.4	.446	5.35	96.8	5.4	.20	.8	.18	.09	.11	139
1	148	16.276	16.253	34.738	25.489	253.3	.470	5.16	92.9	5.5	.27	2.2	.08	.08	.10	149
	150 ISL	16.193	16.169	34.729	25.501	252.2	.476	5.13	92.1							151
1	172	15.134	15.107	34.610	25.648	238.6	.530	4.96	87.2	6.7	.42	4.8	.02	.04	.08	173
1	195	13.823	13.795	34.452	25.807	223.8	.582	5.03	86.0	8.3	.55	6.9	.01	.02	.02	195
	200 ISL	13.672	13.644	34.438	25.827	222.0	.594	5.03	85.7							201
1	216	13.362	13.332	34.416	25.874	217.8	.629	5.01	84.8	9.3	.62	8.0	.00	.01	.01	217
1	237	12.790	12.758	34.386	25.966	209.5	.675	5.05	84.5	10.8	.71	9.5	.00	.00	.01	238
	250 ISL	12.455	12.422	34.359	26.011	205.4	.701	5.03	83.5							252
1	294	11.378	11.341	34.266	26.143	193.5	.790	4.90	79.5	15.4	.92	12.9	.00	.00	.00	296
	300 ISL	11.272	11.234	34.260	26.157	192.2	.800	4.90	79.2							302
1	382	9.844	9.799	34.176	26.343	175.6	.951	4.85	76.0	21.7	1.17	16.5	.00	.00	.00	384
	400 ISL	9.463	9.418	34.151	26.387	171.5	.982	4.72	73.4							403
1	477	7.828	7.780	34.058	26.567	154.4	1.108	3.94	59.0	38.1	1.69	24.1	.00			480
	500 ISL	7.362	7.314	34.038	26.618	149.5	1.143	3.64	53.9							504
1	564	6.220	6.170	34.008	26.748	136.8	1.234	2.84	40.9	57.7	2.23	31.8	.00			567
	600 ISL	5.741	5.689	34.019	26.816	130.1	1.282	2.56	36.5							604
	700 ISL	4.752	4.696	34.085	26.984	113.9	1.404	1.96	27.3							705
1	761	4.387	4.328	34.147D	27.073	105.6	1.471									766
	800 ISL	4.222	4.161	34.189	27.125	100.8	1.512	1.50	20.6							806
1	976	3.771	3.699	34.375	27.320	83.3	1.674	.50	6.8	123.4	3.14	44.1	.00			984
	1000 ISL	3.700	3.626	34.395	27.343	81.2	1.693									1008

RV NEW HORIZON SOSO STATION 17

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
27 59.5 N	153 00.6 W	09/08/82	0138 GMT		060	12 KT	070 04 06	1	1022.6 MB	23.8 C	20.0 C	5/8	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 D.BAR
	0 ISL	24.661	24.661	35.385	23.737	415.2	.000	4.93	103.9							0
1	2	24.661	24.661	35.385	23.737	415.2	.008	4.93	103.9	2.4	.03	.0	.00	.05	.00	2
	10 ISL	24.659	24.657	35.385	23.739	415.4	.042	4.94	104.2							10
1	17	24.657	24.653	35.386	23.740	415.6	.069	4.95	104.3	2.4	.03	.0	.00	.05	.01	17
	20 ISL	24.635	24.630	35.385	23.746	415.2	.083	4.95	104.3							20
	30 ISL	24.568	24.561	35.380	23.763	414.0	.125	4.96	104.3							30
1	35	24.537	24.530	35.378	23.771	413.4	.144	4.96	104.3	2.4	.03	.0	.00	.06	.01	35
	50 ISL	22.127	22.117	35.238	24.367	357.2	.203	5.51	111.1							50
1	54	21.478	21.468	35.211	24.528	342.0	.216	5.64	112.3	3.6	.03	.0	.00	.11	.01	54
1	72	19.792	19.779	35.176	24.955	301.9	.276	5.56	107.3	4.0	.07	.0	.00	.12	.02	73
	75 ISL	19.557	19.543	35.150	24.997	297.9	.284	5.56	106.8							75
1	92	18.459	18.443	35.015	25.175	281.6	.332	5.52	103.8	4.2	.09	.0	.00	.14	.08	92
	100 ISL	18.255	18.238	35.015	25.226	277.0	.355	5.47	102.4							101
1	101	18.223	18.206	35.014	25.233	276.3	.359	5.46	102.2	4.3	.11	.0	.00	.17	.14	102
1	112	17.758	17.739	34.948	25.297	270.5	.388	5.42	100.5	4.3	.12	.0	.03	.23	.18	112
1	122	17.328	17.308	34.881	25.351	265.8	.415	5.47	100.6	4.7	.13	.0	.09	.16	.17	123
	125 ISL	17.245	17.224	34.867	25.360	265.0	.423	5.48	100.6							126
1	132	17.089	17.067	34.842	25.378	263.4	.442	5.50	100.6	4.9	.14	.0	.07	.13	.13	133
1	140	16.990	16.967	34.830	25.393	262.3	.462	5.48	100.1	4.9	.15	.0	.10	.11	.14	140
1	147	16.806	16.782	34.804	25.416	260.3	.480	5.40	98.2	5.3	.17	.3	.21	.11	.12	147
	150 ISL	16.685	16.661	34.789	25.433	258.7	.489	5.35	97.1							151
1	174	15.541	15.514	34.653	25.592	244.2	.549	5.03	89.2	6.3	.36	4.1	.03	.05	.07	175
1	200	14.208	14.179	34.498	25.762	228.3	.610	5.00	86.2	7.9	.50	6.4	.01	.02	.01	201
1	220	13.332	13.301	34.395	25.864	218.9	.656	4.88	82.6	9.9	.64	8.6	.01			221
1	244	12.657	12.624	34.323	25.943	211.7	.707	4.89	81.5	11.5	.72	9.9	.00			245
	250 ISL	12.499	12.466	34.314	25.968	209.6	.719	4.90	81.4							252
1	297	11.426	11.389	34.276	26.142	193.7	.814	4.99	81.0	15.1	.90	12.7	.00			298
	300 ISL	11.363	11.325	34.273	26.151	192.9	.820	4.99	80.9							302
1	392	9.699	9.654	34.161	26.355	174.5	.989	4.93	77.0	21.8	1.17	16.7	.00			394
	400 ISL	9.539	9.493	34.150	26.373	172.8	1.003	4.89	76.1							403
1	487	7.742	7.693	34.046	26.570	154.1	1.145	4.12	61.5	37.9	1.67	24.2	.00			490
	500 ISL	7.470	7.421	34.035	26.600	151.2	1.165	3.91	58.1							504
1	590	5.830	5.779	34.008	26.796	131.9	1.292	2.51	35.8	65.4	2.38	34.2	.00			593
	600 ISL	5.706	5.655	34.014	26.817	130.0	1.305	2.43	34.6							604
	700 ISL	4.754	4.698	34.103	26.998	112.7	1.427	1.81	25.2							705
1	787	4.316	4.256	34.207D	27.129	100.5	1.520									793
	800 ISL	4.278	4.217	34.218	27.141	99.4	1.532	1.50	20.7							806
1	995	3.724	3.651	34.396	27.341	81.3	1.709	.57	7.7	125.1	3.11	44.0	.00			1003
	1000 ISL	3.700	3.626	34.402	27.348	80.6	1.713									1008

RV NEW HORIZON SOSO STATION 18

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 00.0 N	152 00.6 W	09/08/82	0855 GMT		070	24 KT		1	1023.0 MB	23.7 C	21.0 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 D.BAR
	0 ISL	25.008	25.008	35.132	23.441	443.4	.000	4.87	103.1							0
1	1	25.008	25.008	35.132	23.441	443.5	.305	4.87	103.1	1.8	.06	.1	.00	.06	.00	1
	10 ISL	25.013	25.011	35.131	23.438	444.1	.044	4.88	103.2							10
1	16	25.017	25.013	35.130	23.437	444.5	.073	4.88	103.3	1.8	.06	.1	.00	.07	.01	16
	20 ISL	24.996	24.992	35.144	23.454	443.0	.089	4.89	103.5							20
	30 ISL	24.939	24.932	35.182	23.501	439.0	.133	4.91	103.9							30
1	34	24.917	24.910	35.196	23.519	437.5	.150	4.92	104.0	1.8	.04	.1	.00	.08	.02	34
	50 ISL	24.081	24.070	35.303	23.852	406.4	.218	5.16	107.7							50
1	54	23.635	23.624	35.313	23.991	393.3	.236	5.25	108.7	2.0	.02	.0	.00	.10	.02	55
1	73	20.174	20.161	35.128	24.818	315.0	.301	5.60	108.8	2.6	.05	.0	.00	.13	.03	73
	75 ISL	19.997	19.983	35.126	24.863	310.8	.308	5.59	108.2							75
1	92	19.248	19.232	35.114	25.050	293.6	.359	5.50	105.0	2.8	.07	.0	.00	.20	.08	92
	100 ISL	18.966	18.948	35.086	25.102	288.9	.382	5.41	102.8							101
1	101	18.910	18.892	35.079	25.110	288.1	.386	5.39	102.3	3.0	.10	.0	.00	.21	.15	102
1	110	18.438	18.419	35.023	25.187	281.1	.412	5.23	98.3	3.5	.14	.2	.04	.28	.25	111
1	120	18.143	18.122	35.001	25.244	276.0	.440	5.25	98.1	3.7	.15	.3	.10	.20	.25	121
	125 ISL	18.024	18.002	34.993	25.267	274.0	.452	5.42	101.0							126
1	129	17.894	17.872	34.977	25.287	272.2	.464	5.56	103.4	3.9	.10	.1	.00	.11	.10	130
1	138	17.466	17.443	34.889	25.324	268.9	.489	5.49	101.2	3.9	.12	.0	.01	.11	.16	139
1	149	17.118	17.094	34.848	25.376	264.2	.516	5.54	101.4	4.1	.13	.0	.01	.09	.15	149
	150 ISL	17.094	17.069	34.847	25.381	263.8	.520	5.53	101.3							151
1	174	16.481	16.453	34.787	25.480	255.0	.582	5.26	95.1	4.5	.22	1.4	.09	.06	.11	175
1	200	14.798	14.768	34.524	25.656	238.6	.646	4.86	84.8	6.5	.48	5.5	.01	.01	.00	201
1	227	13.711	13.679	34.416	25.803	225.0	.708	4.90	83.6	8.2	.58	7.4	.01			228
	250 ISL	12.934	12.900	34.343	25.905	215.8	.759	4.89	82.0							252
1	251	12.916	12.882	34.341	25.907	215.5	.761	4.89	82.0	9.8	.70	9.0	.00			252
1	293	11.315	11.278	34.196	26.099	197.6	.849	4.81	77.9	14.0	.94	12.7	.00			295
	300 ISL	11.158	11.120	34.188	26.122	195.5	.862	4.81	77.6							302
1	387	9.700	9.655	34.145	26.342	175.5	1.023	4.80	75.0	21.3	1.19	16.8	.00			389
	400 ISL	9.468	9.423	34.131	26.370	173.0	1.046	4.74	73.6							403
1	481	8.010	7.961	34.049	26.533	157.8	1.179	4.02	60.4	35.4	1.65	23.4	.00			483
	500 ISL	7.604	7.554	34.036	26.582	153.1	1.209	3.71	55.2							504
1	590	5.846	5.795	34.024	26.807	131.0	1.338	2.17	31.0	65.6	2.48	34.8	.00			594
	600 ISL	5.719	5.668	34.031	26.828	129.0	1.350	2.05	29.2							604
	700 ISL	4.695	4.639	34.119	27.018	110.7	1.470	1.05	14.6							705
1	788	4.210	4.150	34.219	27.149	98.4	1.562	.56	7.7	108.2	3.10	43.2	.00			793
	800 ISL	4.179	4.118	34.236	27.166	96.9	1.574	.56	7.7							806
	1000 ISL	3.669	3.595	34.415	27.362	79.3	1.750	.58	7.8							1008
1	1031	3.589	3.514	34.425	27.378	77.9	1.775	.58	7.9	128.4	3.13	44.1	.00			1039

RV NEW HORIZON SOSO STATION 19

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 00.0 N	151 00.2 W	09/08/82	1817 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 D.BAR
	0 ISL	24.201	24.201	35.383	23.873	402.2	.000	4.95	103.5							0
1	1	24.201	24.201	35.383	23.873	402.2	.004	4.95	103.5	2.0	.03	.1	.00	.06	.01	1
	10 ISL	24.197	24.195	35.383	23.875	402.4	.040	4.95	103.5							10
1	16	24.195	24.191	35.383	23.876	402.6	.066	4.95	103.5	2.0	.03	.1	.00	.06	.01	16
	20 ISL	24.186	24.182	35.383	23.879	402.5	.080	4.95	103.5							20
	30 ISL	24.161	24.155	35.383	23.887	402.2	.121	4.96	103.6							30
1	34	24.151	24.144	35.383	23.891	402.0	.137	4.96	103.6	2.0	.03	.1	.00	.06	.01	34
	50 ISL	21.180	21.170	35.268	24.653	329.9	.195	5.49	108.7							50
1	52	20.781	20.771	35.258	24.754	320.3	.202	5.55	109.1	3.1	.05	.1	.00	.09	.01	52
1	72	19.328	19.315	35.173	25.074	290.5	.262	5.49	105.0	3.3	.07	.1	.00	.10	.01	72
	75 ISL	19.160	19.146	35.154	25.103	287.9	.272	5.47	104.3							75
1	91	18.533	18.517	35.070	25.198	279.3	.316	5.41	101.9	3.4	.10	.0	.00	.17	.08	91
1	100	18.172	18.155	35.034	25.261	273.7	.342	5.42	101.4	3.6	.11	.0	.00	.23	.13	100
1	110	17.851	17.832	34.976	25.296	270.6	.370	5.48	101.8	3.7	.11	.0	.00	.22	.14	111
1	120	17.377	17.357	34.924	25.372	263.7	.396	5.40	99.4	3.7	.14	.3	.10	.22	.18	121
	125 ISL	17.307	17.286	34.923	25.387	262.4	.409	5.37	98.7							126
1	128	17.276	17.255	34.922	25.395	261.8	.418	5.35	98.3	4.0	.15	.5	.16	.18	.17	129
1	138	17.015	16.993	34.877	25.422	259.4	.443	5.28	96.5	4.4	.19	1.0	.12	.13	.14	139
1	149	16.614	16.590	34.806	25.463	255.9	.472	5.21	94.4	4.7	.23	1.6	.07	.10	.10	150
	150 ISL	16.574	16.550	34.800	25.468	255.5	.474	5.20	94.1							151
1	174	15.373	15.346	34.614	25.599	243.4	.533	4.89	86.4	6.3	.40	4.5	.02	.06	.05	175
1	196	14.543	14.514	34.490	25.685	235.7	.586	4.91	85.2	7.1	.48	5.8	.01	.02	.02	197
	200 ISL	14.376	14.346	34.469	25.705	233.9	.596	4.91	84.9							201
1	220	13.494	13.463	34.374	25.815	223.6	.641	4.91	83.3	8.6	.60	7.4	.01			221
1	243	12.311	12.279	34.264	25.965	209.6	.592	4.92	81.4	11.0	.75	9.8	.01			245
	250 ISL	12.098	12.065	34.250	25.995	206.7	.706	4.93	81.1							252
1	292	11.133	11.097	34.212	26.145	193.1	.799	4.95	79.8	14.9	.94	13.8	.01			293
	300 ISL	10.949	10.912	34.204	26.172	190.6	.805	4.94	79.4							302
1	374	9.463	9.421	34.132	26.371	172.4	.939	4.89	76.0	22.5	1.21	17.3	.00			376
	400 ISL	8.951	8.907	34.103	26.431	166.8	.983	4.68	71.9							403
1	463	7.779	7.733	34.044	26.563	154.4	1.084	4.00	59.8	37.6	1.69	24.3	.00			465
	500 ISL	7.065	7.017	34.018	26.644	146.6	1.140	3.55	52.2							504
1	561	6.014	5.965	34.002	26.769	134.4	1.226	2.80	40.2	61.2	2.32	33.0	.00			564
	600 ISL	5.546	5.495	34.022	26.842	127.4	1.277	2.31	32.7							604
	700 ISL	4.667	4.612	34.104	27.009	111.5	1.397	1.24	17.2							705
1	754	4.380	4.322	34.164	27.088	104.2	1.455	.77	10.6	102.5	3.02	42.5	.00			760
	800 ISL	4.187	4.127	34.206	27.142	99.1	1.502	.71	9.7							806
1	988	3.675	3.602	34.390	27.341	81.1	1.671	.46	6.2	127.1	3.17	44.4	.00			996
	1000 ISL	3.640	3.567	34.402	27.354	79.9	1.681									1008

RV NEW HORIZON SOSO STATION 21

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 00.1 N	149 59.2 W	10/08/82	0328 GMT		070	22 KT	080 06 06	1	1023.4 MB	24.0 C	21.1 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 D.BAR
	0 ISL	24.642	24.642	35.078	23.510	436.8	.000	4.91	103.3							0
1	2	24.642	24.642	35.078	23.510	436.8	.007	4.91	103.3	2.5	.08	.4	.00	.05	.00	2
	10 ISL	24.645	24.643	35.080	23.512	437.1	.044	4.90	103.1							10
1	12	24.646	24.643	35.081	23.512	437.1	.051	4.90	103.1	2.6	.07	.3	.00	.04	.04	12
	20 ISL	24.526	24.522	35.119	23.577	431.3	.087	4.93	103.4							20
	30 ISL	24.384	24.377	35.276	23.740	416.2	.130	4.96	103.9							30
1	34	24.324	24.317	35.380	23.837	407.2	.147	4.97	104.1	2.6	.03	.2	.00	.07	.01	34
	50 ISL	22.068	22.058	35.236	24.383	355.7	.207	5.46	109.9							50
1	53	21.605	21.595	35.206	24.489	345.7	.217	5.55	110.7	3.0	.03	.1	.00	.09	.01	53
1	72	19.989	19.976	35.204	24.925	304.8	.281	5.50	106.6	3.0	.06	.1	.00	.10	.00	73
	75 ISL	19.813	19.799	35.188	24.959	301.6	.289	5.51	106.3							75
1	91	18.997	18.981	35.104	25.107	288.1	.337	5.53	105.1	3.5	.07	.0	.00	.14	.02	92
	100 ISL	18.794	18.776	35.125	25.175	281.9	.361	5.50	104.2							101
1	102	18.755	18.737	35.129	25.188	280.8	.367	5.50	104.1	3.5	.08	.0	.00	.16	.04	102
1	112	18.424	18.405	35.090	25.242	276.0	.394	5.51	103.6	3.5	.08	.0	.00	.19	.07	112
1	122	18.182	18.161	35.071	25.288	271.9	.422	5.40	101.0	3.5	.09	.0	.00	.21	.13	122
	125 ISL	18.127	18.105	35.066	25.297	271.1	.430	5.40	100.9							126
1	132	17.957	17.935	35.040	25.320	269.2	.450	5.39	100.4	3.7	.10	.0	.00	.20	.21	133
1	143	17.494	17.470	34.957	25.370	264.8	.479	5.28	97.4	4.0	.15	.3	.14	.21	.18	144
	150 ISL	17.201	17.176	34.907	25.402	261.9	.497	5.24	96.2							151
1	153	17.084	17.059	34.888	25.415	260.7	.504	5.23	95.7	4.4	.19	1.0	.11	.14	.12	153
1	179	15.962	15.934	34.721	25.549	248.5	.570	4.96	88.7	5.6	.33	3.3	.03	.09	.09	179
	200 ISL	14.824	14.794	34.536	25.660	238.3	.622	4.99	87.1							201
1	202	14.704	14.673	34.517	25.671	237.2	.627	4.99	86.9	6.8	.43	4.9	.02	.04	.04	203
1	226	13.309	13.277	34.349	25.833	222.0	.682	4.99	84.4	8.8	.58	7.3	.00			227
1	248	12.676	12.642	34.294	25.917	214.3	.730	4.93	82.2	10.4	.70	9.1	.00			249
	250 ISL	12.626	12.592	34.291	25.925	213.7	.734	4.92	82.0							252
	300 ISL	11.381	11.343	34.226	26.111	196.7	.837	4.73	76.7							302
1	311	11.126	11.088	34.2160	26.150	193.1	.859									313
1	398	9.410	9.365	34.1250	26.375	172.5	1.017									400
	400 ISL	9.369	9.324	34.124	26.380	172.0	1.021	4.35	67.4							403
1	490	7.683	7.634	34.043	26.576	153.5	1.167	3.99	59.5	38.5	1.69	24.2	.00			493
	500 ISL	7.475	7.426	34.035	26.600	151.3	1.183	3.85	57.2							504
1	594	5.716	5.665	34.008	26.811	130.5	1.315	2.36	33.6	67.1	2.43	34.7	.00			597
	600 ISL	5.638	5.587	34.013	26.824	129.2	1.323	2.27	32.3							604
	700 ISL	4.690	4.635	34.109	27.010	111.4	1.443	1.16	16.2							705
1	777	4.313	4.254	34.207	27.129	100.4	1.524	.61	8.4	105.8	3.07	43.2	.00			782
	800 ISL	4.250	4.189	34.229	27.153	98.2	1.547	.60	8.3							806
	1000 ISL	3.710	3.636	34.411	27.355	80.0	1.726	.55	7.5							1008
1	1001	3.712	3.638	34.410	27.354	80.2	1.727	.55	7.5	125.6	3.14	44.3	.00			1009

RV NEW HORIZON — SOSO — STATION 22

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
27 59.2 N	148 57.2 W	10/08/82	1254 GMT		080 35 KT			1024.0 MB	23.8 C	21.2 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 D.BAR
	0 ISL	24.338	24.338	35.216	23.706	418.0	.000	4.92	103.0							0
4	2	24.338	24.338	35.216	23.706	418.2	.008	4.92	103.0	2.1	.06	.3	.00	.06	.01	2
	10 ISL	24.351	24.349	35.215	23.702	418.9	.042	5.01	105.0							10
4	16	24.357	24.353	35.215	23.701	419.3	.068	5.04	105.6	2.1	.06	.1	.00	.06	.01	16
	20 ISL	24.356	24.352	35.216	23.701	419.4	.084	5.00	104.8							20
	30 ISL	24.355	24.348	35.217	23.703	419.7	.126	4.94	103.5							30
4	34	24.354	24.347	35.217	23.704	419.8	.142	4.93	103.3	2.1	.06	.2	.00	.06	.00	34
	50 ISL	22.025	22.015	35.281	24.429	351.3	.204	5.41	108.8							50
4	53	21.554	21.544	35.292	24.568	338.1	.214	5.50	109.7	2.6	.03	.1	.00	.08	.01	53
4	72	19.590	19.577	35.165	25.000	297.6	.274	5.59	107.5	3.0	.07	.2	.00	.10	.02	72
	75 ISL	19.418	19.404	35.154	25.036	294.3	.284	5.55	106.3							75
4	91	18.876	18.860	35.121	25.151	283.9	.329	5.39	102.2	3.2	.10	.2	.00	.14	.06	91
	100 ISL	18.583	18.565	35.115	25.220	277.6	.355	5.48	103.4							101
4	101	18.561	18.544	35.114	25.225	277.1	.357	5.49	103.5	3.2	.10	.2	.00	.16	.07	101
4	110	18.277	18.258	35.095	25.282	272.1	.383	5.41	101.4	3.2	.10	.2	.00	.16	.10	111
4	120	17.978	17.958	35.042	25.316	269.1	.410	5.42	101.0	3.4	.11	.2	.02	.20	.19	121
	125 ISL	17.778	17.757	35.008	25.339	267.1	.423	5.41	100.4							126
4	130	17.562	17.540	34.971	25.363	264.9	.437	5.39	99.6	3.8	.14	.4	.11	.20	.16	131
4	141	17.177	17.154	34.898	25.400	261.7	.467	5.34	97.9	4.0	.16	.6	.17	.17	.12	142
	150 ISL	16.909	16.884	34.860	25.435	258.6	.489	5.27	96.1							151
4	153	16.813	16.788	34.847	25.448	257.5	.496	5.24	95.4	4.3	.21	1.3	.12	.14	.12	154
4	177	15.691	15.663	34.647	25.553	247.9	.557	4.92	87.5	5.9	.38	4.1	.02	.07	.08	178
	200 ISL	14.356	14.326	34.451	25.695	234.9	.613	4.98	86.0							201
4	202	14.264	14.234	34.438	25.704	233.9	.617	4.98	85.9	6.9	.48	5.6	.02	.03	.03	203
4	226	13.215	13.183	34.338	25.844	220.9	.673	4.94	83.3	8.9	.62	8.1	.00			228
	250 ISL	12.478	12.444	34.287	25.950	211.2	.724	4.93	81.9							252
4	251	12.448	12.414	34.285	25.955	210.7	.726	4.93	81.8	10.7	.74	9.7	.00			252
	300 ISL	10.977	10.940	34.199	25.163	191.5	.824	4.95	79.6							302
4	301	10.956	10.919	34.198	26.166	191.2	.826	4.95	79.5	16.0	.96	13.4	.00			302
4	398	9.158	9.114	34.118	26.410	169.0	1.001	4.82	74.4	24.8	1.29	18.1	.00			400
	400 ISL	9.117	9.073	34.116	26.415	168.5	1.004	4.80	74.1							403
4	499	7.332	7.284	34.029	26.615	149.6	1.161	3.72	55.0	42.7	1.84	26.2	.00			501
	500 ISL	7.303	7.254	34.029	26.619	149.3	1.163	3.70	54.6							504
4	596	5.583	5.532	34.020	26.836	128.0	1.296	2.09	29.7	70.6	2.53	35.8	.00			599
	600 ISL	5.536	5.486	34.023	26.844	127.2	1.301	2.04	28.9							604
	700 ISL	4.697	4.642	34.112	27.012	111.3	1.421	1.05	14.5							705
4	782	4.372	4.312	34.207	27.123	101.1	1.508	.60	8.5	104.4	3.08	43.1	.00			788
	800 ISL	4.287	4.225	34.225	27.146	99.0	1.526	.59	8.1							806
	1000 ISL	3.679	3.605	34.412	27.359	79.6	1.704	.49	6.7							1008
4	1006	3.671	3.597	34.417	27.363	79.2	1.709	.49	6.7	127.1	3.17	44.3	.00			1013

RV NEW HORIZON — SOSO — STATION 24

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 00.0 N	146 59.5 W	11/08/82	0505 GMT		060	23 KT	090 08 06	1	1025.0 MB	22.9 C	20.0 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 D.BAR
	0 ISL	23.757	23.756	35.313	23.952	394.6	.000	5.06	105.0							0
1	2	23.757	23.756	35.313	23.952	394.8	.010	5.06	105.0	2.2	.05	.3	.00	.06	.01	3
	10 ISL	23.759	23.756	35.312	23.952	395.1	.039	4.97	103.1							10
1	17	23.760	23.756	35.312	23.951	395.4	.067	4.92	102.1	2.2	.05	.3	.00	.07	.00	17
	20 ISL	23.743	23.739	35.312	23.957	395.1	.079	4.93	102.2							20
	30 ISL	23.687	23.681	35.311	23.973	393.9	.118	4.95	102.5							30
1	34	23.662	23.655	35.311	23.980	393.4	.136	4.96	102.7	2.2	.04	.1	.00	.07	.00	35
	50 ISL	21.196	21.186	35.282	24.659	329.3	.192	5.47	108.4							50
1	53	20.642	20.632	35.279	24.807	315.3	.202	5.57	109.3	2.9	.05	.2	.00	.10	.01	53
1	72	19.263	19.250	35.157	25.078	290.1	.260	5.46	104.3	3.7	.07	.2	.00	.14	.02	73
	75 ISL	19.143	19.130	35.146	25.101	288.1	.268	5.45	103.9							75
1	92	18.589	18.573	35.089	25.198	279.3	.315	5.38	101.5	3.7	.10	.1	.00	.18	.05	92
	100 ISL	18.310	18.293	35.057	25.245	275.2	.338	5.33	99.9							101
1	102	18.263	18.246	35.052	25.252	274.6	.343	5.32	99.7	3.6	.11	.2	.00	.25	.12	102
1	111	17.999	17.980	35.025	25.297	270.6	.369	5.30	98.8	3.6	.12	.2	.01	.27	.17	112
1	120	17.868	17.848	35.004	25.314	269.3	.393	5.28	98.2	3.6	.13	.2	.05	.27	.20	121
	125 ISL	17.715	17.693	34.990	25.341	266.9	.406	5.27	97.6							126
1	129	17.545	17.523	34.972	25.368	264.4	.418	5.25	97.0	4.0	.15	.5	.12	.27	.22	130
1	139	17.106	17.083	34.894	25.414	260.3	.442	5.21	95.4	4.1	.20	1.1	.11	.19	.17	139
1	149	16.665	16.641	34.822	25.464	255.9	.470	5.11	92.7	4.5	.24	1.9	.04	.14	.12	150
	150 ISL	16.631	16.606	34.817	25.467	255.5	.471	5.10	92.5							151
1	174	14.854	14.827	34.548	25.662	237.3	.531	4.93	86.1	6.5	.43	4.7	.01	.04	.03	175
1	198	13.480	13.452	34.372	25.816	222.9	.586	4.99	84.7	8.2	.54	6.9	.01	.01	.01	199
	200 ISL	13.411	13.382	34.365	25.825	222.1	.590	4.98	84.5							201
1	220	12.812	12.782	34.317	25.908	214.6	.635	4.90	82.0	10.2	.70	9.0	.00			221
1	244	12.159	12.127	34.277	26.004	205.8	.685	4.85	80.0	12.1	.80	10.7	.00			246
	250 ISL	12.010	11.977	34.267	26.025	203.9	.697	4.85	79.7							252
1	296	10.836	10.800	34.194	26.184	189.3	.788	4.85	77.7	16.2	1.00	13.8	.00			298
	300 ISL	10.755	10.719	34.190	26.195	188.3	.795	4.85	77.6							302
	400 ISL	8.758	8.715	34.090	26.450	164.8	.971	4.44	68.0							403
1	403	8.701	8.658	34.087	26.457	164.2	.976	4.42	67.5	29.0	1.43	20.3	.00			405
1	498	6.680	6.634	34.015	26.692	141.5	1.121	3.10	45.2	51.3	2.09	29.6	.00			501
	500 ISL	6.642	6.595	34.014	26.697	141.1	1.124	3.07	44.7							504
1	590	5.424	5.374	34.026	26.860	125.4	1.244	1.93	27.3	73.2	2.60	36.6	.00			594
	600 ISL	5.331	5.281	34.035	26.878	123.7	1.257	1.82	25.7							604
	700 ISL	4.584	4.530	34.140	27.046	107.9	1.372	.95	13.2							705
1	791	4.197	4.137	34.254	27.179	95.6	1.465	.48	6.6	110.5	3.13	43.5	.00			796
	800 ISL	4.156	4.096	34.263	27.190	94.6	1.474	.48	6.7							806
	1000 ISL	3.597	3.524	34.427	27.379	77.6	1.646	.58	7.9							1008
1	1014	3.581	3.507	34.436	27.387	76.8	1.657	.59	8.0	128.4	3.15	44.1	.00			1022

RV NEW HORIZON SOSO STATION 26

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 00.4 N	145 59.9 W	11/08/82	1434 GMT	2707 M	050	16 KT	070 06 06	1	1024.2 MB	21.9 C	20.0 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 D.BAR
	0 ISL	23.240	23.240	35.278	24.077	382.7	.000	5.02	103.2							0
1	1	23.240	23.240	35.278	24.077	382.8	.003	5.02	103.2	1.8	.05	.1	.00	.05	.01	1
	10 ISL	23.252	23.249	35.277	24.073	383.5	.038	5.03	103.3							10
1	16	23.256	23.253	35.277	24.072	383.9	.062	5.03	103.4	1.9	.05	.0	.00	.05	.01	16
	20 ISL	23.256	23.252	35.277	24.073	384.0	.077	5.03	103.4							20
	30 ISL	23.256	23.250	35.277	24.073	384.4	.115	5.03	103.4							30
1	33	23.256	23.249	35.277	24.073	384.5	.125	5.03	103.4	1.9	.05	.0	.00	.05	.01	33
	50 ISL	21.636	21.626	35.250	24.514	343.2	.188	5.38	107.4							50
1	52	21.434	21.424	35.249	24.569	338.0	.195	5.41	107.6	2.2	.05	.0	.00	.08	.01	52
1	70	20.260	20.247	35.241	24.882	308.9	.254	5.29	103.0	2.5	.07	.0	.00	.09	.02	71
	75 ISL	20.073	20.059	35.246	24.935	304.0	.269	5.28	102.5							75
1	91	19.683	19.666	35.263	25.051	293.5	.316	5.27	101.6	2.5	.06	.0	.00	.12	.04	91
	100 ISL	19.565	19.546	35.268	25.086	290.5	.343	5.23	100.6							101
1	101	19.557	19.539	35.267	25.087	290.4	.345	5.23	100.5	2.6	.07	.0	.00	.15	.10	101
1	111	19.480	19.460	35.258	25.101	289.5	.374	5.16	99.0	2.6	.07	.0	.00	.16	.16	111
1	121	19.409	19.387	35.242	25.108	289.2	.404	5.13	98.3	2.7	.08	.0	.04	.23	.19	122
	125 ISL	19.106	19.083	35.187	25.145	285.9	.415	5.14	98.0							126
1	131	18.619	18.596	35.099	25.200	280.6	.431	5.19	97.9	2.7	.11	.2	.18	.17	.13	131
1	140	18.243	18.219	35.019	25.234	277.7	.458	5.34	100.0	3.2	.10	.1	.12	.10	.10	141
	150 ISL	18.022	17.996	34.981	25.259	275.6	.485	5.37	100.1							151
1	151	18.008	17.982	34.979	25.261	275.4	.487	5.37	100.1	3.0	.10	.0	.04	.08	.10	151
1	177	17.664	17.634	34.928	25.308	271.9	.558	5.30	98.1	3.1	.12	.1	.17	.05	.05	177
	200 ISL	17.346	17.313	34.869	25.340	269.5	.621	5.23	96.2							201
1	201	17.310	17.277	34.860	25.342	269.4	.625	5.23	96.1	3.3	.16	.8	.02	.04	.03	202
1	227	15.799	15.763	34.624	25.513	253.4	.691	4.87	86.7	5.4	.36	3.8	.02			228
	250 ISL	14.084	14.048	34.403	25.717	234.1	.748	4.94	84.8							252
1	252	13.954	13.917	34.388	25.732	232.6	.752	4.94	84.6	7.3	.52	5.8	.01			253
1	300	11.159	11.122	34.159	26.099	197.6	.855	4.90	79.1	14.0	.92	12.5	.00			301
	400 ISL	8.900	8.857	34.079	26.420	167.9	1.038	4.51	69.2							403
1	401	8.895	8.851	34.078	26.420	167.8	1.039	4.51	69.2	26.8	1.38	19.5	.00			403
	500 ISL	6.950	6.902	34.015	26.656	145.3	1.195	3.40	49.8							504
1	501	6.928	6.881	34.014	26.659	145.1	1.197	3.38	49.5	47.5	1.97	28.2	.00			504
	600 ISL	5.469	5.419	34.024	26.853	126.2	1.331	1.93	27.3							604
1	601	5.462	5.411	34.025	26.854	126.1	1.331	1.92	27.2	72.5	2.57	36.6	.00			604
	700 ISL	4.650	4.595	34.134	27.034	109.1	1.448	1.60	22.2							705
1	797	4.213	4.152	34.262D	27.184	95.3	1.547									802
	800 ISL	4.198	4.138	34.266	27.188	94.9	1.550	1.28	17.6							806
	1000 ISL	3.637	3.564	34.423	27.371	78.3	1.723	.63	8.6							1008
1	1017	3.622	3.548	34.432	27.380	77.6	1.736	.58	7.9	126.7	3.12	44.1	.00			1024

RV NEW HORIZON — SOSO — STATION 28

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 00.0 N	144 59.2 W	12/08/82	0312 GMT		060	10 KT	070 03 05	1	1022.9 MB	22.0 C	20.0 C	6/8	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 D.BAR
	0 ISL	23.579	23.579	35.311	24.003	389.9	.000	5.00	103.4							0
2	2	23.579	23.579	35.311	24.003	389.9	.007	5.00	103.4	2.1	.05	.0	.00	.06	.01	2
	10 ISL	23.567	23.565	35.313	24.009	389.6	.039	5.01	103.5							10
2	17	23.542	23.539	35.310	24.014	389.5	.064	5.01	103.5	2.1	.04	.0	.00	.05	.00	17
	20 ISL	23.516	23.512	35.310	24.021	388.9	.078	5.01	103.4							20
	30 ISL	23.441	23.435	35.309	24.043	387.2	.117	5.00	103.2							30
2	34	23.413	23.406	35.309	24.052	386.6	.131	5.00	103.1	2.1	.04	.0	.00	.06	.00	34
	50 ISL	21.941	21.931	35.303	24.469	347.4	.191	5.39	108.3							50
2	53	21.634	21.624	35.299	24.552	339.7	.200	5.46	109.1	2.6	.03	.0	.00	.10	.01	53
2	72	19.857	19.844	35.165	24.930	304.3	.263	5.52	106.7	2.8	.06	.0	.00	.11	.02	72
	75 ISL	19.671	19.657	35.145	24.963	301.2	.271	5.52	106.2							75
2	92	19.015	18.999	35.089	25.091	289.6	.321	5.49	104.4	2.8	.07	.0	.00	.15	.04	92
	100 ISL	19.011	18.993	35.138	25.129	286.3	.345	5.42	103.1							101
2	102	19.010	18.992	35.146	25.136	285.7	.350	5.41	102.9	3.0	.08	.0	.00	.16	.06	102
2	112	18.696	18.676	35.106	25.186	281.3	.379	5.38	101.7	3.2	.08	.0	.00	.17	.10	112
2	122	18.269	18.248	35.014D	25.223	278.1	.407	5.38	100.8	3.2	.10	.0	.00	.18	.12	123
	125 ISL	18.211	18.189	35.012	25.236	277.0	.415	5.36	100.3							126
2	132	18.104	18.081	35.018	25.267	274.2	.434	5.29	98.8	3.2	.11	.0	.03	.25	.22	133
2	142	17.853	17.829	34.996	25.312	270.2	.462	5.17	96.1	3.7	.15	.2	.19	.21	.20	143
	150 ISL	17.606	17.580	34.951	25.339	268.0	.483	5.10	94.2							151
2	152	17.528	17.503	34.936	25.345	267.4	.489	5.08	93.8	3.9	.20	1.0	.15	.16	.15	153
2	174	16.274	16.246	34.734	25.487	254.4	.547	4.94	88.9	4.7	.31	2.8	.03	.08	.10	175
2	198	14.767	14.737	34.474	25.624	241.6	.606	4.89	85.2	6.3	.44	4.8	.01	.04	.04	199
	200 ISL	14.648	14.618	34.454	25.635	240.6	.610	4.89	85.1							201
2	222	13.175	13.144	34.248	25.782	226.7	.662	4.92	82.9	8.2	.61	7.1	.00			223
2	244	12.189	12.157	34.214	25.949	210.9	.710	4.87	80.4	10.6	.76	9.9	.00			245
	250 ISL	11.955	11.922	34.204	25.987	207.5	.722	4.87	79.9							252
	300 ISL	10.302	10.267	34.130	26.227	185.0	.820	4.84	76.7							302
2	303	10.221	10.186	34.125	26.238	184.0	.826	4.84	76.5	17.9	1.09	14.9	.00			305
	400 ISL	8.443	8.401	34.064	26.479	161.9	.994	4.35	66.1							403
2	403	8.405	8.363	34.062	26.483	161.5	.998	4.33	65.7	30.9	1.50	21.3	.00			405
	500 ISL	6.472	6.426	34.009	26.715	139.2	1.144	2.91	42.3							504
2	508	6.334	6.289	34.007	26.731	137.6	1.155	2.79	40.3	56.2	2.23	31.7	.00			511
	600 ISL	5.222	5.173	34.053	26.905	121.0	1.274	1.60	22.5							604
2	602	5.201	5.151	34.055	26.909	120.6	1.277	1.57	22.1	78.3	2.71	38.3	.00			606
	700 ISL	4.594	4.539	34.156	27.058	106.8	1.388	.81	11.2							705
2	792	4.280	4.219	34.259	27.174	96.2	1.482	.44	6.1	108.7	3.13	43.5	.00			797
	800 ISL	4.248	4.187	34.267	27.184	95.4	1.489	.44	6.1							806
	1000 ISL	3.645	3.572	34.424	27.372	78.3	1.663	.57	7.7							1008
2	1004	3.636	3.562	34.427	27.375	78.1	1.666	.57	7.7	126.9	3.15	44.2	.00			1012

RV NEW HORIZON SOSO STATION 29

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
28 00.8 N	144 59.6 W	12/08/82	1320 GMT		040 18 KT		1	1022.5 MB	21.3 C	20.2 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 D.BAR
	0 ISL	23.447	23.447	35.312	24.042	385.0	.000	5.00								0
1	1	23.447	23.447	35.312D	24.042	386.0	.004									1
	10 ISL	23.450	23.448	35.311	24.042	386.5	.039	5.00	103.2							10
1	16	23.452	23.449	35.311	24.041	386.9	.063	5.00	103.2	2.3	.04	.2	.00	.06	.01	16
	20 ISL	23.435	23.431	35.311	24.046	386.5	.077	5.00	103.1							20
	30 ISL	23.390	23.384	35.311	24.060	385.7	.116	5.00	103.1							30
1	33	23.375	23.368	35.311	24.064	385.4	.129	5.00	103.0	2.6	.04	.1	.00	.07	.01	33
	50 ISL	21.442	21.432	35.279	24.589	336.0	.189	5.40	107.4							50
1	53	21.099	21.089	35.274	24.680	327.5	.197	5.46	108.0	3.3	.04	.1	.00	.09	.02	53
1	71	19.644	19.631	35.170	24.990	298.5	.256	5.50	105.9	3.3	.06	.0	.00	.11	.02	72
	75 ISL	19.443	19.429	35.160	25.034	294.4	.267	5.48	105.1							75
1	91	18.813	18.797	35.122	25.167	282.4	.313	5.38	101.9	3.5	.08	.0	.00	.17	.07	91
	100 ISL	18.571	18.554	35.090	25.205	279.1	.338	5.35	100.9							101
1	101	18.555	18.538	35.088	25.207	278.9	.340	5.35	100.8	3.7	.08	.0	.00	.18	.13	101
1	110	18.239	18.220	35.048	25.256	274.6	.366	5.32	99.6	3.7	.10	.0	.00	.20	.19	110
1	120	17.882	17.862	34.981	25.292	271.3	.395	5.22	97.1	3.7	.14	.1	.12	.24	.16	121
	125 ISL	17.766	17.745	34.962	25.307	270.1	.407	5.18	96.1							126
1	131	17.615	17.593	34.938	25.325	268.6	.423	5.13	94.9	3.9	.16	.6	.20	.18	.17	132
1	141	17.313	17.290	34.883	25.356	265.9	.449	5.08	93.4	4.1	.20	1.2	.14	.15	.13	141
	150 ISL	16.378	16.354	34.695	25.432	258.8	.473	5.11	92.1							151
1	151	16.293	16.269	34.678	25.439	258.1	.475	5.11	92.0	5.3	.26	2.0	.03	.08	.06	151
1	177	15.241	15.213	34.560	25.587	244.7	.541	4.90	86.3	6.3	.40	4.2	.02	.05	.06	178
	200 ISL	13.912	13.883	34.347	25.708	233.4	.596	4.91	84.0							201
1	201	13.829	13.800	34.334	25.715	232.7	.600	4.91	83.9	8.0	.53	6.2	.01	.02	.02	202
1	227	12.663	12.632	34.226	25.867	218.6	.656	4.92	82.0	10.0	.67	8.4	.01			228
	250 ISL	11.667	11.635	34.177	26.019	204.3	.706	4.87	79.5							252
1	252	11.608	11.576	34.175	26.028	203.4	.709	4.87	79.3	13.2	.85	11.3	.00			253
1	299	10.239	10.204	34.124	26.233	184.3	.801	4.84	76.5	18.5	1.08	14.9	.00			301
	300 ISL	10.222	10.187	34.123	26.236	184.1	.803	4.84	76.5							302
1	399	8.342	8.300	34.061	26.492	160.5	.974	4.30	65.1	31.8	1.52	21.6	.00			402
	400 ISL	8.330	8.288	34.061	26.493	160.4	.975	4.29	65.0							403
1	500	6.426	6.381	34.006	26.719	138.8	1.124	2.85	41.3	55.5	2.20	31.4	.00			503
1	598	5.168	5.119	34.060	26.917	119.8	1.252	1.53	21.5	80.7	2.74	38.7	.00			602
	600 ISL	5.154	5.105	34.062	26.920	119.6	1.254	1.51	21.3							604
	700 ISL	4.511	4.457	34.172	27.080	104.6	1.366	.73	10.2							705
1	791	4.203	4.143	34.279	27.198	93.9	1.457	.38	5.2	112.5	3.15	44.1	.00			797
	800 ISL	4.169	4.109	34.287	27.208	93.0	1.465	.39	5.3							806
	1000 ISL	3.620	3.547	34.427	27.376	77.8	1.635	.51	6.9							1008
1	1015	3.596	3.522	34.434	27.384	77.1	1.647	.52	7.0	129.2	3.17	44.6	.00			1023

RV NEW HORIZON SOSO STATION 29

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 02.1 N	144 58.5 W	12/08/82	1629 GMT		040	25 KT	040 08 06	2	1023.0 MB	23.1 C	21.0 C	8/8	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 D.BAR
	0 ISL	23.421	23.421	35.314	24.051	385.1	.000	5.02	103.5							0
2	2	23.421	23.421	35.314	24.051	385.2	.006	5.02	103.5	2.5	.04	.1	.00	.06	.01	2
	10 ISL	23.429	23.426	35.314	24.049	385.8	.039	5.02	103.5							10
2	11	23.429	23.427	35.314	24.050	385.8	.041	5.02	103.5	2.5	.03	.1	.00	.06	.01	11
	20 ISL	23.430	23.426	35.314	24.050	386.2	.077	5.01	103.4							20
2	21	23.430	23.426	35.314	24.050	386.2	.081	5.01	103.3	2.5	.04	.1	.00	.06	.01	21
	30 ISL	23.433	23.427	35.314	24.050	386.6	.116	5.00	103.1							30
2	31	23.434	23.427	35.315	24.050	386.7	.122	5.00	103.1	2.4	.03	.0	.00	.06	.01	32
2	42	23.403	23.394	35.310	24.056	386.6	.162	5.02	103.5	2.4	.03	.1	.00	.09	.01	42
	50 ISL	22.526	22.515	35.338	24.330	360.7	.192	5.30	107.5							50
2	51	22.328	22.318	35.341	24.389	355.1	.197	5.35	108.2	2.8	.03	.0	.01	.09	.01	52
2	61	21.154	21.142	35.304	24.688	327.0	.229	5.53	109.5	2.7	.03	.0	.00	.09	.02	61
2	71	20.604	20.591	35.277	24.817	315.1	.260	5.53	108.4	2.9	.03	.0	.00	.09	.02	71
	75 ISL	20.250	20.236	35.255	24.895	307.8	.274	5.52	107.5							75
2	80	19.868	19.853	35.228	24.976	300.3	.289	5.50	106.3	2.9	.06	.0	.00	.10	.02	80
2	89	19.268	19.252	35.166	25.084	290.2	.317	5.44	104.0	2.8	.07	.0	.00	.12	.03	90
2	99	18.857	18.840	35.125	25.159	283.4	.345	5.40	102.4	2.8	.08	.0	.00	.14	.06	100
	100 ISL	18.832	18.814	35.125	25.165	282.9	.348	5.40	102.3							101
2	108	18.607	18.588	35.117	25.216	278.3	.370	5.37	101.3	3.0	.09	.0	.00	.15	.12	108
2	116	18.296	18.276	35.075	25.262	274.1	.393	5.32	99.8	3.1	.11	.0	.02	.22	.18	117
2	125	18.070	18.049	35.037	25.289	271.8	.418	5.22	97.4	3.1	.14	.3	.13	.19	.18	126
2	136	17.570	17.547	34.955	25.349	266.4	.446	5.10	94.2	3.7	.20	1.0	.14	.15	.12	136
2	146	17.126	17.102	34.872	25.393	262.6	.473	5.04	92.3	4.2	.24	1.7	.06	.11	.13	147
	150 ISL	16.977	16.952	34.848	25.410	261.0	.483	5.03	91.8							151
2	157	16.694	16.669	34.804	25.443	258.1	.502	5.01	90.9	4.4	.28	2.3	.04	.10	.10	158
2	173	15.791	15.763	34.654	25.536	249.5	.543	4.93	87.8	4.9	.36	3.6	.02	.07	.07	174

RV NEW HORIZON SOSO STATION 30

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 03.3 N	144 58.0 W	13/08/82	0339 GMT		060 18 KT	060 05 04	1	1020.6 MB	22.0 C	20.7 C	6/8	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 D.BAR
	0 ISL	23.486	23.486	35.314	24.032	387.0	.000	5.00	103.2							0
3	1	23.486	23.486	35.314	24.032	387.0	.006	5.00	103.2	2.0	.05	.3	.00	.06	.00	2
	10 ISL	23.476	23.474	35.313	24.035	387.2	.039	5.01	103.3							10
3	16	23.469	23.466	35.312	24.037	387.3	.061	5.01	103.4	2.0	.04	.1	.00	.06	.00	16
	20 ISL	23.446	23.442	35.311	24.043	386.8	.077	5.01	103.4							20
	30 ISL	23.391	23.385	35.309	24.058	385.8	.116	5.02	103.4							30
3	32	23.380	23.373	35.309	24.061	385.6	.124	5.02	103.4	1.8	.04	.1	.00	.07	.00	32
	50 ISL	22.748	22.737	35.324	24.256	367.8	.192	5.18	105.6							50
3	52	22.611	22.600	35.322	24.294	364.2	.199	5.21	105.9	2.0	.03	.0	.00	.09	.00	52
3	70	20.151	20.138	35.249	24.917	305.5	.258	5.53	107.5	2.2	.05	.0	.00	.11	.00	70
	75 ISL	19.819	19.806	35.234	24.993	298.4	.274	5.51	106.4							75
3	89	19.235	19.219	35.178	25.102	288.5	.315	5.45	104.1	2.4	.07	.0	.00	.14	.04	89
3	98	18.717	18.700	35.122	25.192	280.2	.339	5.39	101.9	2.5	.08	.0	.00	.17	.06	98
	100 ISL	18.686	18.668	35.116	25.195	280.0	.346	5.39	101.8							101
3	105	18.653	18.635	35.114	25.202	279.5	.361	5.38	101.6	2.7	.08	.0	.00	.20	.14	106
3	117	18.277	18.257	35.068	25.262	274.2	.392	5.30	99.3	2.9	.11	.0	.03	.26	.21	117
	125 ISL	18.185	18.163	35.058	25.277	273.0	.415	5.27	98.5							126
3	126	18.170	18.148	35.055	25.279	272.9	.419	5.26	98.4	2.9	.12	.1	.09	.23	.24	127
3	135	17.893	17.870	35.002	25.306	270.5	.443	5.20	96.7	2.9	.14	.3	.18	.23	.20	136
3	143	17.650	17.626	34.969	25.341	267.5	.463	5.15	95.3	3.5	.17	.6	.20	.19	.17	143
	150 ISL	17.203	17.178	34.892	25.390	263.0	.483	5.08	93.2							151
3	171	15.685	15.658	34.638	25.547	248.3	.536	4.92	87.4	5.2	.35	3.6	.03	.06	.09	172
3	192	14.302	14.274	34.443	25.700	234.1	.588	4.89	84.4	6.3	.46	5.2	.01	.04	.03	193
	200 ISL	13.836	13.807	34.368	25.740	230.3	.606	4.90	83.7							201
3	214	13.082	13.052	34.256	25.806	224.1	.637	4.92	82.7	8.3	.61	7.3	.01			215
3	242	12.091	12.059	34.211	25.966	209.3	.699	4.90	80.7	11.1	.77	9.8	.01			243
	250 ISL	11.803	11.771	34.195	26.008	205.4	.715	4.90	80.1							252
3	290	10.388	10.354	34.123	26.207	186.7	.794	4.84	76.8	17.1	1.05	14.4	.00			292
	300 ISL	10.134	10.099	34.114	26.244	183.3	.812	4.82	76.0							302
3	381	8.446	8.406	34.066	26.480	161.4	.951	4.36	66.2	30.7	1.48	20.9	.00			383
	400 ISL	8.075	8.034	34.051	26.524	157.3	.982	4.15	62.4							403
3	473	6.806	6.762	34.010D	26.672	143.3	1.091									476
	500 ISL	6.385	6.340	34.009	26.727	138.0	1.129	2.78	40.2							504
3	557	5.596	5.549	34.026	26.839	127.2	1.205	1.99	28.3	70.7	2.55	36.1	.00			560
	600 ISL	5.200	5.151	34.065	26.917	119.9	1.258	1.53	21.6							604
	700 ISL	4.513	4.459	34.168	27.076	104.9	1.370	.76	10.5							705
	800 ISL	4.151	4.090	34.286	27.209	92.8	1.469	.38	5.3							806
3	809	4.135	4.074	34.296	27.219	91.9	1.477	.37	5.1	114.4	3.15	44.0	.00			814
	1000 ISL	3.596	3.523	34.437	27.386	76.8	1.639	.61	8.2							1008
3	1002	3.593	3.520	34.438	27.387	76.7	1.640	.61	8.3	128.6	3.15	43.9	.00			1010

RV NEW HORIZON SOSO STATION 31

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
28 00.1 N	144 59.7 W	13/08/82	1231 GMT		080 15 KT		2	1020.2 MB	22.2 C	20.3 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 D.BAR
	0 ISL	23.386	23.386	35.317	24.064	383.9	.000	5.02	103.5							0
1	1	23.386	23.386	35.317	24.064	384.0	.003	5.02	103.5	2.3	.04	.3	.00	.06	.01	1
	10 ISL	23.391	23.389	35.314	24.061	384.7	.038	5.03	103.6							10
1	18	23.396	23.392	35.317	24.062	385.0	.071	5.03	103.7	2.1	.04	.3	.00	.06	.01	18
	20 ISL	23.394	23.390	35.317	24.063	385.0	.077	5.04	103.8							20
	30 ISL	23.380	23.374	35.317	24.067	384.9	.115	5.11	105.3							30
	50 ISL	21.575	21.566	35.320	24.584	336.5	.188	5.43	108.3							50
1	54	21.243	21.233	35.295	24.656	329.7	.200	5.51	109.3	2.4	.03	.3	.00			54
1	54	21.230	21.220	35.289	24.655	329.9	.201	5.52	109.5	2.6	.03	.2	.00	.08	.02	54
1	73	19.807	19.794	35.197	24.968	300.7	.260	5.50	106.2	2.8	.06	.2	.00	.09	.02	73
	75 ISL	19.691	19.677	35.192	24.994	298.3	.267	5.49	105.8							75
1	93	18.960	18.944	35.146	25.148	284.2	.318	5.42	103.0	3.2	.07	.3	.00	.16	.05	93
	100 ISL	18.681	18.663	35.111	25.193	280.2	.339	5.38	101.6							101
1	102	18.616	18.598	35.102	25.202	279.4	.344	5.37	101.3	3.4	.09	.2	.00	.16	.11	102
1	112	18.195	18.176	35.047	25.266	273.7	.373	5.33	99.7	3.4	.10	.2	.00	.18	.20	113
1	123	18.090	18.069	35.031	25.280	272.7	.401	5.26	98.2	3.6	.13	.3	.09	.21	.18	123
	125 ISL	18.016	17.994	35.012	25.284	272.4	.408	5.24	97.7							126
1	132	17.766	17.744	34.956	25.302	270.8	.427	5.19	96.3	3.7	.15	.8	.18	.20	.19	133
1	142	17.542	17.518	34.957	25.358	265.9	.454	5.12	94.6	3.9	.19	1.3	.16	.16	.15	143
	150 ISL	17.055	17.030	34.877	25.414	260.7	.475	5.05	92.4							151
1	153	16.849	16.824	34.841	25.435	258.7	.482	5.03	91.6	4.5	.26	2.4	.04	.11	.10	153
1	177	15.286	15.258	34.576	25.589	244.4	.544	4.93	86.9	5.9	.39	4.5	.02	.06	.05	178
	200 ISL	14.250	14.221	34.427	25.698	234.5	.598	4.94	85.2							201
1	201	14.205	14.175	34.420	25.703	234.0	.600	4.94	85.1	7.4	.49	6.0	.01	.02	.02	202
1	224	12.779	12.749	34.235	25.851	220.0	.653	4.93	82.4	9.6	.66	8.5	.01			225
1	249	11.912	11.880	34.190	25.983	207.7	.707	4.92	80.7	11.7	.80	10.7	.00			251
	250 ISL	11.892	11.860	34.189	25.986	207.5	.708	4.92	80.7							252
1	298	10.367	10.332	34.126	26.213	185.3	.803	4.87	77.2	17.4	1.06	14.9	.00			300
	300 ISL	10.331	10.295	34.125	26.219	185.8	.806	4.87	77.1							302
1	394	8.540	8.498	34.068	26.467	162.9	.971	4.43	67.4	30.1	1.47	21.1	.00			397
	400 ISL	8.428	8.386	34.063	26.480	161.7	.980	4.37	66.3							403
1	489	6.730	6.685	34.008	26.680	142.6	1.115	3.20	46.7	50.5	2.06	29.7	.00			492
	500 ISL	6.543	6.498	34.008	26.705	140.2	1.131	3.02	43.9							504
1	585	5.325	5.276	34.042	26.884	123.0	1.242	1.74	24.6	76.2	2.65	37.9	.00			588
	600 ISL	5.185	5.136	34.058	26.913	120.2	1.261	1.57	22.0							604
	700 ISL	4.510	4.455	34.172	27.080	104.6	1.373	.72	10.0							705
1	768	4.279	4.220	34.256	27.171	96.3	1.441	.42	5.8	109.5	3.12	44.0	.00			773
	800 ISL	4.163	4.103	34.285	27.207	93.1	1.472	.42	5.8							806
1	975	3.701	3.629	34.414	27.358	79.5	1.623	.44	6.0	126.9	3.17	44.8	.00			983
	1000 ISL	3.640	3.567	34.432	27.378	77.7	1.643									1008

RV NEW HORIZON SOSO STATION 31

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 01.7 N	144 57.3 W	13/08/82	1523 GMT		060	20 KT	060 06 05	1	1020.9 MB	21.8 C	20.2 C	5/8	CB

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 D.BAR
	0 ISL	23.426	23.426	35.312	24.048	385.4	.000	5.01	103.3							0
2	2	23.426	23.426	35.312	24.048	385.5	.007	5.01	103.3	1.9	.05	.2	.00	.05	.01	2
	10 ISL	23.429	23.427	35.312	24.048	385.9	.039	5.01	103.3							10
2	12	23.429	23.427	35.312	24.048	386.0	.045	5.01	103.3	1.7	.05	.3	.00	.05	.01	12
	20 ISL	23.427	23.423	35.312	24.049	386.2	.077	5.00	103.2							20
2	22	23.427	23.422	35.312	24.049	386.3	.084	5.00	103.1	1.9	.05	.2	.00	.05	.01	22
	30 ISL	23.427	23.421	35.312	24.050	386.6	.116	5.01	103.3							30
2	32	23.427	23.420	35.313	24.051	386.6	.123	5.01	103.3	1.7	.05	.2	.00	.05	.01	32
2	42	23.384	23.375	35.310	24.062	386.0	.161	5.03	103.7	1.8	.04	.2	.00	.05	.01	42
	50 ISL	23.344	23.334	35.312	24.075	385.1	.193	5.05	103.9							50
2	53	23.331	23.320	35.312	24.079	384.8	.204	5.05	104.0	1.8	.04	.1	.00	.06	.01	53
2	62	21.651	21.639	35.326	24.568	338.5	.238	5.47	109.3	2.4	.03	.0	.00	.06	.01	63
2	72	20.605	20.592	35.226	24.778	318.8	.269	5.56	109.0	2.4	.04	.1	.00	.07	.02	72
	75 ISL	20.273	20.259	35.192	24.841	312.9	.279	5.56	108.2							75
2	81	19.768	19.753	35.149	24.942	303.6	.299	5.55	107.0	2.5	.06	.0	.00	.08	.02	82
2	90	19.321	19.305	35.152	25.060	292.5	.326	5.46	104.4	2.7	.07	.0	.00	.08	.02	91
2	100	18.896	18.878	35.141	25.161	283.3	.354	5.40	102.5	2.9	.08	.0	.00	.21	.05	100
2	110	18.607	18.588	35.103	25.206	279.4	.382	5.37	101.3	2.8	.10	.1	.00	.13	.10	110
2	120	18.417	18.396	35.094	25.247	275.8	.410	5.34	100.4	3.0	.11	.0	.00	.14	.15	121
	125 ISL	18.291	18.270	35.074	25.263	274.4	.423	5.30	99.4							126
2	130	18.128	18.106	35.045	25.281	272.8	.438	5.25	98.1	3.2	.13	.3	.09	.17	.17	131
2	141	17.704	17.680	34.980	25.336	267.9	.467	5.14	95.2	3.3	.18	.8	.16	.15	.15	142
	150 ISL	17.228	17.203	34.905	25.394	262.6	.491	5.06	92.9							151
2	152	17.133	17.108	34.889	25.404	261.6	.495	5.05	92.5	3.7	.23	1.8	.06	.11	.11	152
2	162	16.764	16.738	34.825	25.443	258.3	.522	5.02	91.3	4.1	.26	2.2	.04	.08	.09	163
2	178	15.701	15.673	34.659	25.560	247.3	.561	4.94	87.8	5.2	.35	3.7	.02	.06	.06	178

RV NEW HORIZON SOSO STATION 32

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 00.2 N	143 59.8 W	14/08/82	0303 GMT		050	12 KT	050 06 05	2	1019.5 MB	20.1 C	19.0 C	8/8	ST

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 D.BAR
	0 ISL	23.443	23.443	35.194	23.954	394.7	.000	5.02	103.5							0
1	1	23.443	23.443	35.194	23.954	394.5	.003	5.02	103.5	2.0	.06	.3	.00	.06	.00	1
	10 ISL	23.382	23.380	35.206	23.982	392.2	.039	5.03	103.5							10
1	16	23.348	23.345	35.212	23.996	391.1	.064	5.03	103.5	1.8	.06	.3	.00	.05	.00	16
	20 ISL	23.334	23.330	35.213	24.001	390.9	.078	5.03	103.5							20
	30 ISL	23.298	23.292	35.213	24.012	390.2	.118	5.03	103.4							30
1	33	23.286	23.279	35.213	24.016	390.0	.131	5.03	103.4	1.8	.06	.2	.00	.06	.01	34
	50 ISL	21.307	21.297	35.264	24.615	333.5	.191	5.39	107.0							50
1	52	21.063	21.053	35.271	24.687	326.7	.197	5.43	107.3	2.0	.06	.1	.00	.08	.01	52
1	72	20.012	19.999	35.247	24.952	302.2	.259	5.35	103.7	2.0	.07	.1	.00	.13	.01	72
	75 ISL	19.839	19.826	35.225	24.980	299.6	.269	5.32	102.7							75
1	91	19.052	19.036	35.100	25.090	289.7	.317	5.14	97.8	2.4	.11	.0	.00	.20	.04	91
	100 ISL	18.648	18.631	35.043	25.149	284.4	.342	5.06	95.5							101
1	101	18.605	18.587	35.037	25.155	283.8	.345	5.05	95.2	2.6	.15	.1	.05	.31	.17	102
1	111	18.395	18.376	35.025	25.199	280.0	.374	5.03	94.5	2.8	.16	.6	.17	.26	.17	112
1	121	18.092	18.071	34.981	25.241	276.3	.400	4.99	93.2	3.0	.19	1.2	.18	.22	.18	121
	125 ISL	17.932	17.911	34.955	25.260	274.6	.412	4.95	92.1							126
1	131	17.707	17.685	34.915	25.285	272.4	.428	4.89	90.6	3.6	.24	2.0	.06	.16	.14	131
1	141	17.215	17.192	34.830	25.339	267.5	.456	4.83	88.6	4.0	.28	2.7	.03	.10	.11	142
	150 ISL	16.663	16.638	34.740	25.401	261.8	.479	4.78	86.7							151
1	151	16.607	16.583	34.731	25.407	261.2	.482	4.78	86.6	4.4	.33	3.3	.02	.08	.08	152
1	176	15.373	15.346	34.556	25.554	247.7	.545	4.83	85.3	5.7	.42	4.5	.02	.04	.03	177
1	200	14.353	14.323	34.407	25.661	237.9	.603	4.86	84.0	6.5	.50	5.7	.01	.02	.02	201
1	223	13.528	13.496	34.323	25.769	229.1	.657	4.85	82.3	8.1	.59	7.2	.01			224
1	246	12.179	12.147	34.190	25.933	212.6	.709	4.93	81.3	10.1	.74	9.5	.01			248
	250 ISL	11.997	11.965	34.174	25.955	210.5	.717	4.92	80.8							252
1	295	10.170	10.136	34.051	26.188	188.4	.806	4.65	73.4	18.2	1.13	15.4	.01			296
	300 ISL	10.032	9.997	34.049	26.210	186.4	.816	4.64	73.0							302
1	391	8.340	8.299	34.065	26.495	160.1	.974	4.29	65.0	31.9	1.52	21.5	.00			394
	400 ISL	8.176	8.135	34.059	26.515	158.2	.988	4.20	63.4							403
1	486	6.653	6.609	34.010	26.692	141.4	1.116	3.08	44.8	51.4	2.10	29.8	.00			489
	500 ISL	6.429	6.383	34.009	26.721	138.6	1.136	2.87	41.6							504
1	578	5.368	5.320	34.036	26.874	123.8	1.239	1.80	25.4	74.6	2.63	37.1	.00			582
	600 ISL	5.191	5.142	34.060	26.914	120.1	1.265	1.57	22.0							604
	700 ISL	4.584	4.529	34.182	27.079	104.8	1.378	.74	10.3							705
1	778	4.355	4.295	34.287	27.188	95.0	1.456	.39	5.4	108.4	3.14	43.5	.00			784
	800 ISL	4.270	4.208	34.307	27.214	92.6	1.476	.41	5.7							806
	1000 ISL	3.704	3.630	34.435	27.375	78.2	1.647	.63	8.5							1008
1	1001	3.701	3.627	34.436	27.375	78.1	1.648	.63	8.6	125.1	3.14	44.0	.00			1009

RV NEW HORIZON SOSO STATION 33

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
28 00.1 N	142 59.5 W	14/08/82	1015 GMT		090	12 KT			1020.8 MB	22.2 C	19.8 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 D.BAR
	0 ISL	23.827	23.826	35.010	23.702	418.5	.000	4.97	103.0							0
1	2	23.827	23.826	35.010	23.702	418.6	.009	4.97	103.0	1.6	.09	.2	.00	.06	.01	2
	10 ISL	23.830	23.828	35.011	23.702	418.9	.042	4.97	103.1							10
1	17	23.832	23.828	35.012	23.703	419.1	.069	4.97	103.1	1.8	.08	.1	.00	.05	.01	17
	20 ISL	23.810	23.806	35.016	23.713	418.4	.084	4.97	103.1							20
	30 ISL	23.746	23.739	35.027	23.740	416.1	.125	4.98	103.1							30
1	34	23.722	23.715	35.031	23.751	415.3	.141	4.98	103.1	1.8	.08	.0	.00	.05	.01	34
	50 ISL	22.209	22.199	35.261	24.361	357.7	.204	5.30	107.0							50
1	53	21.852	21.842	35.306	24.496	345.0	.215	5.36	107.5	2.0	.04	.0	.00	.07	.02	53
1	73	20.490	20.476	35.248	24.826	314.3	.279	5.13	100.3	2.2	.08	.2	.00	.09	.02	73
	75 ISL	20.359	20.345	35.244	24.857	311.4	.287	5.13	100.1							75
1	92	19.691	19.674	35.230	25.024	296.1	.339	5.14	99.0	2.4	.10	.2	.02	.23	.16	93
	100 ISL	19.548	19.529	35.241	25.070	292.0	.362	5.16	99.2							101
1	102	19.504	19.485	35.241	25.082	291.0	.369	5.17	99.3	2.4	.10	.3	.05	.22	.18	103
1	113	19.144	19.124	35.183	25.131	286.7	.398	5.05	96.3	2.4	.12	.6	.09	.18	.15	113
1	123	18.868	18.846	35.133	25.163	283.9	.427	5.02	95.2	2.8	.16	.9	.07	.12	.08	123
	125 ISL	18.844	18.821	35.135	25.171	283.3	.434	5.03	95.4							126
1	133	18.708	18.685	35.128	25.200	280.7	.456	5.05	95.5	2.8	.15	.8	.12	.11	.09	134
1	144	18.195	18.170	35.012	25.240	277.2	.486	4.90	91.7	3.6	.21	1.8	.04	.06	.06	144
	150 ISL	18.279	18.253	35.067	25.262	275.4	.503	5.03	94.4							151
1	154	18.373	18.346	35.113	25.274	274.4	.514	5.14	96.5	3.0	.15	.8	.07	.06	.05	155
1	180	17.734	17.704	34.981	25.332	269.8	.584	5.06	93.8	3.6	.20	1.6	.02	.03	.03	181
	200 ISL	16.210	16.178	34.714	25.488	255.1	.638	4.93	88.5							201
1	205	15.800	15.767	34.649	25.531	251.0	.649	4.90	87.3	5.6	.35	3.8	.02	.02	.03	206
1	228	13.915	13.882	34.395	25.745	230.7	.707	4.90	83.9	7.5	.51	5.9	.01			230
	250 ISL	12.529	12.496	34.218	25.887	217.2	.755	4.89	81.3							252
1	253	12.358	12.324	34.197	25.904	215.6	.762	4.89	81.0	10.3	.73	9.3	.01			254
	300 ISL	10.588	10.552	34.068	26.130	194.4	.858	4.71	75.0							302
1	302	10.539	10.503	34.066	26.137	193.7	.861	4.70	74.8	16.5	1.05	14.2	.00			303
	400 ISL	8.531	8.488	34.052	26.456	164.1	1.037	4.09	62.2							403
1	403	8.494	8.451	34.053	26.463	163.5	1.041	4.07	61.9	31.4	1.56	21.8	.00			405
	500 ISL	6.630	6.584	34.018	26.702	140.7	1.189	2.76	40.1							504
1	501	6.610	6.564	34.018	26.704	140.4	1.191	2.74	39.9	54.0	2.21	31.1	.00			504
1	600	5.309	5.259	34.060	26.900	121.5	1.320	1.52	21.4	78.1	2.72	38.2	.00			603
	700 ISL	4.664	4.609	34.174	27.065	106.3	1.434	.75	10.5							705
1	799	4.347	4.285	34.294	27.195	94.5	1.533	.38	5.2	108.9	3.15	43.6	.00			804
	800 ISL	4.342	4.280	34.295	27.197	94.4	1.535	.38	5.3							806
	1000 ISL	3.706	3.632	34.425	27.366	79.0	1.708	.58	7.9							1008
1	1016	3.670	3.595	34.431	27.375	78.3	1.720	.60	8.1	126.4	3.14	44.1	.00			1024

RV NEW HORIZON SOSO STATION 34

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
27 59.7 N	141 59.0 W	14/08/82	2046 GMT		080	14 KT	080 03 04	1	1020.3 MB	23.3 C	20.2 C	4/9	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 D.BAR
	0 ISL	23.552	23.552	35.221	23.943	395.9	.000	5.02	103.7							0
4	2	23.552	23.552	35.221	23.943	395.6	.009	5.02	103.7	1.9	.07	.4	.00	.06	.00	2
	10 ISL	23.415	23.413	35.221	23.983	392.1	.039	5.02	103.5							10
4	17	23.341	23.338	35.221	24.005	390.3	.065	5.02	103.3	1.9	.07	.3	.00	.07	.00	17
	20 ISL	23.338	23.334	35.221	24.006	390.4	.079	5.02	103.4							20
	30 ISL	23.331	23.325	35.218	24.007	390.7	.118	5.04	103.6							30
4	34	23.328	23.321	35.218	24.008	390.8	.135	5.04	103.7	1.9	.06	.2	.00	.07	.00	35
	50 ISL	21.499	21.489	35.243	24.546	340.1	.192	5.37	107.1							50
4	54	20.980	20.970	35.253	24.696	326.0	.205	5.45	107.6	2.6	.06	.0	.00	.08	.01	54
4	73	19.897	19.884	35.206	24.951	302.4	.266	5.28	102.1	2.8	.08	.0	.00	.14	.03	74
	75 ISL	19.807	19.793	35.195	24.966	301.0	.271	5.28	102.0							75
4	94	18.855	18.839	35.060	25.109	287.9	.325	5.33	101.0	3.1	.10	.1	.00	.20	.20	94
	100 ISL	18.610	18.593	35.028	25.147	284.6	.344	5.30	100.0							101
4	104	18.492	18.474	35.013	25.165	282.9	.355	5.27	99.2	3.3	.12	.3	.05	.25	.21	104
4	113	18.310	18.291	34.993	25.196	280.4	.382	5.12	96.0	3.5	.16	.6	.16	.21	.20	114
4	124	17.792	17.771	34.875	25.234	277.0	.411	5.39	100.0	3.0	.12	.2	.12	.14	.14	124
	125 ISL	17.744	17.722	34.870	25.241	276.3	.414	5.39	99.8							126
4	134	17.414	17.392	34.843	25.301	270.9	.440	5.36	98.7	3.0	.14	.2	.14	.11	.12	135
4	145	17.301	17.277	34.829	25.318	269.7	.468	5.34	98.1	3.4	.14	.3	.09	.08	.08	145
	150 ISL	17.205	17.179	34.809	25.326	269.0	.482	5.33	97.8							151
4	155	17.081	17.056	34.784	25.336	268.2	.496	5.33	97.5	3.3	.16	.6	.04	.06	.05	156
4	180	16.111	16.083	34.630	25.445	258.5	.562	4.90	87.8	4.9	.35	3.3	.02	.04	.04	181
	200 ISL	14.940	14.909	34.463	25.578	245.1	.612	4.95	86.5							201
4	205	14.628	14.597	34.422	25.615	242.6	.624	4.97	86.4	6.5	.44	4.5	.01	.02	.03	206
4	229	13.344	13.312	34.285	25.777	227.4	.679	4.82	81.5	8.8	.62	7.4	.01			230
	250 ISL	12.363	12.330	34.191	25.898	216.1	.727	4.85	80.3							252
4	253	12.255	12.222	34.181	25.911	214.8	.732	4.85	80.1	10.8	.76	9.4	.01			254
	300 ISL	10.259	10.224	34.100	26.211	186.5	.828	4.79	75.8							302
4	301	10.213	10.178	34.099	26.219	185.8	.830	4.79	75.7	18.3	1.10	15.0	.00			303
	400 ISL	8.218	8.177	34.052	26.503	159.4	1.000	4.11	62.1							403
4	405	8.155	8.113	34.050	26.511	158.6	1.009	4.05	61.1	34.4	1.62	22.7	.00			407
	500 ISL	6.447	6.402	34.035	26.739	136.9	1.149	2.41	35.0							504
4	505	6.363	6.318	34.035	26.750	135.9	1.156	2.32	33.6	58.7	2.36	32.4	.00			508
	600 ISL	5.131	5.083	34.066	26.925	119.0	1.277	1.39	19.6							604
4	605	5.080	5.031	34.068	26.933	118.2	1.282	1.36	19.1	82.6	2.80	39.3	.00			609
	700 ISL	4.486	4.432	34.168	27.079	104.6	1.388	1.19	16.4							705
	800 ISL	4.175	4.114	34.285	27.206	93.2	1.487	1.01	13.8							806
4	805	4.168	4.107	34.290D	27.210	92.7	1.492									810
	1000 ISL	3.630	3.556	34.434	27.381	77.4	1.658	.64	8.7							1008
4	1023	3.589	3.514	34.446	27.394	76.3	1.675	.60	8.1	129.0	3.17	44.0	.00			1031

RV NEW HORIZON — SOSO — STATION 35

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 00.0 N	141 00.5 W	15/08/82	0353 GMT		080	15 KT	080 02 06	1	1019.0 MB	22.0 C	19.4 C	4/8	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 D.BAR
	0 ISL	22.695	22.695	35.285	24.239	367.3	.000	5.06	103.0							0
1	1	22.695	22.695	35.285	24.239	367.3	.004	5.06	103.0	2.0	.07	.3	.00	.06	.01	1
	10 ISL	22.687	22.685	35.285	24.242	367.4	.037	5.05	102.7							10
1	14	22.684	22.681	35.285	24.243	367.5	.050	5.04	102.6	2.0	.06	.1	.00	.06	.00	14
	20 ISL	22.576	22.572	35.265	24.259	366.3	.073	5.05	102.6							20
	30 ISL	22.407	22.401	35.276	24.316	361.2	.110	5.11	103.4							30
1	34	22.341	22.334	35.296	24.350	358.1	.124	5.14	104.0	2.0	.05	.1	.00	.07	.00	34
	50 ISL	21.282	21.272	35.228	24.595	335.4	.180	5.37	106.5							50
1	52	21.106	21.096	35.217	24.634	331.8	.187	5.40	106.8	2.2	.04	.0	.00	.08	.01	53
1	72	19.938	19.925	35.132	24.884	308.7	.251	5.40	104.5	2.4	.06	.0	.00	.10	.02	72
	75 ISL	19.784	19.770	35.109	24.907	306.6	.260	5.40	104.2							75
1	92	19.130	19.114	34.993	24.988	299.4	.310	5.41	103.0	2.6	.07	.0	.00	.11	.03	92
	100 ISL	18.979	18.961	34.969	25.008	297.8	.335	5.40	102.5							101
1	101	18.971	18.953	34.969	25.011	297.6	.339	5.40	102.5	2.6	.07	.0	.00	.12	.03	102
1	112	19.168	19.148	35.064	25.033	295.9	.371	5.32	101.4	2.4	.07	.0	.00	.14	.06	113
1	123	19.018	18.996	35.114	25.111	289.0	.404	5.22	99.2	2.4	.08	.0	.00	.19	.17	124
	125 ISL	18.991	18.968	35.111	25.116	288.6	.409	5.22	99.1							126
1	135	18.801	18.777	35.073	25.135	287.1	.437	5.20	98.4	2.4	.10	.0	.09	.25	.18	136
1	144	18.607	18.582	35.039	25.158	285.1	.464	5.14	96.9	2.6	.12	.3	.14	.17	.17	145
	150 ISL	18.457	18.430	35.014	25.177	283.5	.480	5.12	96.2							151
1	155	18.297	18.270	34.988	25.197	281.8	.495	5.10	95.6	3.0	.15	.7	.08	.11	.11	156
1	180	17.119	17.090	34.799	25.340	268.8	.562	5.05	92.4	4.0	.21	1.7	.02	.04	.03	180
	200 ISL	15.971	15.939	34.609	25.462	257.5	.616	4.89	87.4							201
1	204	15.715	15.683	34.568	25.488	255.0	.626	4.86	86.4	5.6	.37	3.8	.02	.03	.02	205
1	228	13.990	13.957	34.3350	25.683	236.6	.684	4.82	82.6	7.4	.51	5.8	.01			229
	250 ISL	12.734	12.700	34.207	25.839	221.8	.735	4.84	80.7							252
1	251	12.683	12.649	34.203	25.846	221.2	.738	4.84	80.7	10.0	.69	8.6	.00			252
1	300	10.863	10.827	34.098	26.104	196.9	.840	4.84	77.6	15.0	.97	12.9	.00			301
	400 ISL	8.329	8.287	34.044	26.480	161.7	1.019	3.51	53.1							403
1	406	8.213	8.171	34.043	26.497	160.1	1.029	3.41	51.5	36.0	1.80	24.9	.00			408
	500 ISL	6.490	6.445	34.006	26.711	139.7	1.170	2.82	40.9							504
1	505	6.412	6.367	34.005	26.720	138.7	1.177	2.79	40.4	55.6	2.21	31.4	.00			508
	600 ISL	5.057	5.009	34.072	26.938	117.6	1.298	1.40	19.6							604
1	607	4.977	4.928	34.079	26.953	116.2	1.307	1.29	18.1	84.9	2.82	39.7	.00			611
	700 ISL	4.469	4.415	34.180	27.090	103.5	1.409	.66	9.1							705
1	779	4.313	4.253	34.265	27.175	96.1	1.488	.45	6.2	109.0	3.13	43.5	.00			784
	800 ISL	4.245	4.184	34.284	27.198	94.1	1.508	.46	6.4							806
	1000 ISL	3.760	3.685	34.421	27.358	79.9	1.682	.57	7.8							1008
1	1012	3.739	3.664	34.427	27.365	79.3	1.691	.58	7.9	125.3	3.15	44.0	.00			1020

RV NEW HORIZON SOSO STATION 36

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 01.1 N	139 57.9 W	15/08/82	1236 GMT	4927 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 D.BAR
	0 ISL	22.529	22.529	35.241	24.253	365.9	.000	5.11	103.7							0
5	1	22.529	22.529	35.241	24.253	366.0	.004	5.11	103.7	2.1	.07	.5	.00	.06	.01	1
	10 ISL	22.537	22.535	35.241	24.251	366.5	.037	5.11	103.7							10
5	16	22.542	22.539	35.241	24.250	366.9	.057	5.11	103.7	2.1	.06	.3	.00	.06	.01	16
	20 ISL	22.536	22.532	35.251	24.260	366.2	.073	5.11	103.7							20
	30 ISL	22.521	22.515	35.273	24.281	364.6	.110	5.11	103.7							30
5	34	22.515	22.508	35.283	24.291	363.8	.126	5.11	103.7	2.1	.06	.2	.00	.06	.01	35
	50 ISL	22.104	22.094	35.247	24.380	355.9	.182	5.22	105.0							50
5	55	21.853	21.842	35.226	24.435	350.9	.200	5.27	105.6	2.3	.05	.3	.00	.08	.01	55
5	73	20.299	20.285	35.152	24.803	316.4	.260	5.53	107.7	2.5	.05	.2	.00	.08	.02	73
	75 ISL	20.173	20.159	35.145	24.832	313.8	.266	5.52	107.3							75
5	94	19.382	19.365	35.102	25.007	297.8	.323	5.45	104.3	2.5	.07	.1	.00	.12	.03	94
	100 ISL	19.238	19.219	35.096	25.040	294.9	.342	5.44	103.9							101
5	104	19.157	19.139	35.092	25.057	293.3	.353	5.44	103.7	2.7	.07	.1	.00	.14	.06	104
5	113	18.850	18.830	35.076	25.124	287.3	.381	5.40	102.3	2.8	.07	.1	.00	.18	.13	114
5	123	18.647	18.626	35.057	25.161	284.1	.408	5.30	100.0	3.0	.10	.1	.01	.18	.20	123
	125 ISL	18.607	18.585	35.051	25.167	283.6	.414	5.28	99.6							126
5	134	18.406	18.383	35.020	25.194	281.4	.440	5.20	97.7	3.2	.12	.2	.05	.20	.18	135
5	143	18.109	18.084	34.975	25.233	277.9	.465	5.11	95.4	3.6	.15	.7	.09	.17	.17	144
	150 ISL	17.985	17.959	34.957	25.250	276.5	.484	5.10	95.1							151
5	155	17.886	17.860	34.941	25.262	275.5	.497	5.10	94.8	3.6	.18	1.0	.07	.11	.15	155
5	180	16.352	16.324	34.665	25.417	261.2	.564	4.90	88.3	5.0	.32	2.9	.02	.04	.05	181
	200 ISL	14.696	14.666	34.419	25.597	244.2	.615	4.95	86.1							201
5	202	14.499	14.469	34.391	25.618	242.2	.621	4.96	85.9	6.4	.45	4.7	.01	.02	.02	203
5	227	12.600	12.569	34.159	25.827	222.3	.679	5.00	83.2	9.6	.65	7.7	.01			228
	250 ISL	11.547	11.516	34.090	25.974	208.5	.728	4.98	81.0							252
5	252	11.459	11.427	34.087	25.987	207.2	.733	4.98	80.8	12.4	.83	10.7	.00			254
	300 ISL	10.011	9.975	34.074	26.233	184.2	.826	4.92	77.4							302
5	301	9.989	9.955	34.074	26.237	183.9	.828	4.92	77.3	18.4	1.11	15.2	.00			302
	400 ISL	8.083	8.042	34.043	26.516	158.0	.997	4.14	62.3							403
5	406	8.001	7.960	34.040	26.526	157.1	1.006	4.07	61.2	35.3	1.63	23.0	.00			408
	500 ISL	6.448	6.402	34.003	26.714	139.3	1.146	2.76	40.0							504
5	504	6.388	6.343	34.003	26.721	138.6	1.152	2.69	38.9	56.1	2.24	31.8	.00			507
	600 ISL	5.523	5.472	34.134	26.934	118.8	1.275	.95	13.5							604
5	601	5.519	5.468	34.135	26.935	118.6	1.276	.94	13.3	79.3	2.88	39.6	.00			604
	700 ISL	4.876	4.820	34.223	27.080	105.3	1.387	.66	9.2							705
	800 ISL	4.401	4.339	34.288	27.184	95.6	1.487	.38	5.3							806
5	804	4.385	4.323	34.290	27.188	95.3	1.491	.37	5.1	108.3	3.14	43.6	.00			810
	1000 ISL	3.742	3.667	34.430	27.367	79.0	1.662	.55	7.4							1008
5	1005	3.730	3.656	34.434	27.371	78.7	1.666	.55	7.5	124.4	3.15	44.4	.00			1013

RV NEW HORIZON SOSO STATION 37

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
27 59.5 N	139 00.5 W	15/08/82	2107 GMT		080	14 KT	090 05 05	1	1019.6 MB	22.6 C	19.7 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 D.BAR
	0 ISL	22.256	22.256	35.148	24.260	366.3	.000	5.18	104.6							0
5	2	22.256	22.256	35.148	24.260	365.4	.006	5.18	104.6	2.4	.07	.4	.00	.06	.00	2
	10 ISL	22.072	22.070	35.135	24.303	361.6	.036	5.21	104.7							10
5	17	21.962	21.959	35.130	24.330	359.3	.061	5.22	104.8	2.4	.06	.3	.00	.08	.00	17
	20 ISL	21.938	21.934	35.130	24.337	358.8	.072	5.22	104.8							20
	30 ISL	21.863	21.857	35.130	24.358	357.2	.108	5.23	104.8							30
5	33	21.840	21.833	35.130	24.365	356.7	.119	5.23	104.8	2.3	.06	.2	.00	.09	.01	33
	50 ISL	20.187	20.177	35.051	24.755	320.1	.176	5.53	107.3							50
5	53	19.921	19.911	35.042	24.818	314.2	.185	5.57	107.7	2.3	.06	.2	.00	.09	.01	53
5	73	19.648	19.635	35.085	24.924	304.9	.246	5.52	106.2	2.5	.06	.0	.00	.12	.02	73
	75 ISL	19.595	19.581	35.091	24.942	303.2	.254	5.51	105.9							75
5	92	18.977	18.961	35.040	25.063	292.3	.306	5.45	103.5	2.5	.07	.1	.00	.17	.04	93
	100 ISL	18.512	18.495	34.937	25.098	289.2	.328	5.46	102.7							101
5	102	18.382	18.364	34.901	25.107	288.4	.335	5.46	102.5	3.0	.10	.0	.00	.18	.08	103
5	113	18.267	18.248	34.910	25.143	285.3	.365	5.41	101.3	3.2	.10	.0	.00	.20	.16	113
5	123	18.338	18.317	34.962	25.166	283.6	.394	5.37	100.7	3.0	.11	.0	.02	.22	.19	124
	125 ISL	18.320	18.298	34.963	25.171	283.1	.399	5.36	100.5							126
5	134	18.127	18.104	34.936	25.198	280.8	.424	5.34	99.7	3.2	.11	.1	.10	.19	.18	134
5	144	17.699	17.675	34.842	25.232	277.9	.453	5.33	98.7	3.1	.13	.1	.15	.15	.11	145
	150 ISL	17.707	17.681	34.855	25.240	277.3	.469	5.32	98.4							151
5	155	17.713	17.687	34.865	25.247	276.9	.483	5.30	98.1	3.1	.14	.2	.13	.11	.09	156
5	180	16.938	16.909	34.730	25.330	269.7	.552	5.17	94.2	3.5	.21	1.3	.03	.05	.05	181
	200 ISL	15.073	15.043	34.447	25.537	250.0	.603	5.03	88.2							201
5	205	14.611	14.580	34.383	25.588	245.1	.615	5.00	86.8	5.8	.44	4.4	.02	.03	.02	205
5	229	13.021	12.989	34.170	25.753	227.6	.572	4.96	83.3	8.2	.62	6.9	.01			230
	250 ISL	11.941	11.909	34.092	25.901	215.5	.719	4.92	80.8							252
5	253	11.798	11.766	34.086	25.924	213.4	.726	4.92	80.4	11.3	.79	9.9	.01			254
	300 ISL	9.914	9.879	34.050	26.230	184.4	.819	4.87	76.3							302
5	302	9.836	9.801	34.050	26.244	183.1	.824	4.86	76.1	19.2	1.14	15.5	.00			304
	400 ISL	7.800	7.760	34.030	26.548	154.8	.989	3.96	59.3							403
5	403	7.759	7.719	34.030	26.554	154.3	.993	3.92	58.6	37.1	1.72	24.0	.00			405
	500 ISL	6.063	6.019	34.014	26.771	133.4	1.133	2.30	33.1							504
5	501	6.042	5.999	34.014	26.774	133.2	1.135	2.28	32.7	62.2	2.43	34.1	.00			504
	600 ISL	5.170	5.121	34.106	26.953	116.4	1.258	1.08	15.1							604
5	601	5.167	5.118	34.107	26.954	116.4	1.258	1.07	15.0	83.9	2.91	40.0	.00			604
	700 ISL	4.696	4.641	34.225	27.102	102.8	1.367	.96	13.4							705
5	793	4.426	4.364	34.3290	27.214	92.8	1.458									798
	800 ISL	4.401	4.339	34.336	27.222	92.1	1.465	.85	11.8							806
	1000 ISL	3.784	3.710	34.452	27.380	77.9	1.535	.63	8.6							1008
5	1012	3.752	3.677	34.455	27.385	77.4	1.544	.62	8.4	124.2	3.17	45.8	.00			1020

RV NEW HORIZON SOSO STATION 38

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
27 59.9 N	138 00.7 W	16/08/82	0505 GMT		100	10 KT		1	1021.7 MB	21.7 C	18.6 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 D.BAR
	0 ISL	22.205	22.205	35.166	24.288	362.9	.000	5.05	101.9							0
1	1	22.205	22.205	35.166	24.288	362.7	.004	5.05	101.9	2.0	.07	.3	.00	.06	.00	1
	10 ISL	22.136	22.134	35.168	24.309	361.0	.036	5.06	102.0							10
1	16	22.107	22.104	35.168	24.318	360.4	.057	5.07	102.1	2.0	.07	.3	.00	.06	.03	16
	20 ISL	22.101	22.097	35.168	24.320	360.4	.072	5.07	102.1							20
	30 ISL	22.087	22.081	35.168	24.324	360.4	.108	5.07	102.0							30
1	32	22.085	22.079	35.168	24.325	360.4	.114	5.07	102.0	2.0	.07	.2	.00	.06	.00	32
	50 ISL	21.161	21.151	35.075	24.511	343.4	.179	5.21	103.1							50
1	51	21.061	21.051	35.063	24.529	341.7	.183	5.23	103.3	2.0	.06	.2	.00	.08	.01	51
1	70	18.891	18.879	34.749	24.862	310.6	.243	5.55	105.1	2.4	.08	.2	.00	.10	.00	70
	75 ISL	18.842	18.828	34.788	24.904	306.7	.260	5.52	104.5							75
1	90	18.709	18.693	34.828	24.969	301.1	.304	5.45	102.9	2.4	.08	.1	.00	.14	.01	90
1	99	18.826	18.809	34.931	25.018	296.8	.333	5.39	102.0	2.4	.08	.1	.00	.17	.02	100
	100 ISL	18.814	18.796	34.932	25.022	296.5	.335	5.39	101.9							101
1	109	18.557	18.538	34.923	25.081	291.2	.363	5.35	100.7	2.4	.08	.1	.00	.17	.05	110
1	120	18.439	18.418	34.932	25.117	288.1	.393	5.32	99.9	2.4	.09	.1	.00	.18	.11	120
	125 ISL	18.283	18.262	34.904	25.135	286.6	.408	5.31	99.4							126
1	130	18.127	18.105	34.873	25.150	285.3	.421	5.30	98.9	2.6	.12	.1	.08	.18	.15	130
1	139	17.859	17.835	34.844	25.194	281.4	.448	5.26	97.7	2.6	.12	.1	.09	.17	.14	140
1	149	17.581	17.556	34.799	25.228	278.5	.477	5.22	96.4	3.0	.14	.2	.14	.14	.12	150
	150 ISL	17.562	17.537	34.796	25.230	278.3	.478	5.22	96.3							151
1	173	16.489	16.461	34.621	25.351	267.3	.542	5.09	91.9	3.8	.23	1.6	.04	.08	.06	174
1	197	14.710	14.680	34.325	25.522	251.2	.603	4.96	86.3	5.8	.41	3.8	.02	.04	.03	198
	200 ISL	14.389	14.360	34.279	25.554	248.1	.611	4.95	85.5							201
1	221	12.326	12.297	34.032	25.781	226.3	.661	4.88	80.7	9.5	.70	8.1	.01			222
1	248	10.730	10.700	33.982	26.036	202.1	.719	4.82	77.0	14.3	.96	12.7	.01			250
	250 ISL	10.672	10.642	33.983	26.048	201.0	.723	4.82	76.8							252
1	297	9.545	9.511	34.037	26.282	179.3	.812	4.60	71.6	21.3	1.23	17.2	.00			298
	300 ISL	9.480	9.447	34.038	26.293	178.2	.817	4.57	71.1							302
1	387	7.847	7.808	34.024	26.536	155.7	.962	3.63	54.4	37.5	1.76	25.1	.00			389
	400 ISL	7.597	7.557	34.020	26.569	152.6	.982	3.47	51.7							403
1	491	6.104	6.061	34.016	26.768	133.7	1.113	2.36	33.9	60.4	2.35	33.9	.00			494
	500 ISL	5.995	5.952	34.021	26.786	132.0	1.125	2.23	32.0							504
1	586	5.119	5.071	34.105	26.958	115.8	1.232	1.10	15.5	83.9	2.85	40.5	.00			590
	600 ISL	5.027	4.978	34.120	26.980	113.6	1.247	1.05	14.7							604
	700 ISL	4.502	4.448	34.231	27.127	100.1	1.354	.66	9.2							705
1	769	4.300	4.241	34.302	27.206	93.1	1.420	.40	5.5	110.6	3.14	44.2	.00			773
	800 ISL	4.228	4.167	34.324	27.231	90.9	1.449	.44	6.0							806
1	999	3.787	3.713	34.460	27.386	77.3	1.617	.67	9.1	123.2	3.13	44.5	.00			1007
	1000 ISL	3.780	3.705	34.462	27.388	77.1	1.618									1008

RV NEW HORIZON SOSO STATION 40

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 00.0 N	136 59.5 W	16/08/82	1357 GMT	4602 M	090	10 KT	080 02 07	1	1022.0 MB	21.1 C	18.1 C	3/3	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 D.BAR
	0 ISL	22.781	22.781	34.990	23.991	390.9	.000	5.04	102.6							0
1	1	22.781	22.781	34.990	23.991	391.0	.004	5.04	102.6	2.0	.11	.3	.00	.06	.01	1
	10 ISL	22.788	22.786	34.990	23.989	391.5	.039	5.03	102.5							10
1	16	22.790	22.787	34.989	23.988	391.9	.063	5.03	102.4	2.0	.11	.1	.00	.06	.01	16
	20 ISL	22.788	22.784	35.006	24.002	390.7	.078	5.04	102.5							20
	30 ISL	22.782	22.775	35.050	24.037	387.8	.117	5.06	102.9							30
1	33	22.780	22.773	35.061	24.047	387.0	.127	5.06	103.0	1.7	.10	.1	.00	.06	.01	33
	50 ISL	21.780	21.770	35.152	24.399	354.1	.192	5.28	105.6							50
1	52	21.595	21.585	35.160	24.457	348.7	.200	5.31	105.9	2.1	.06	.0	.00	.08	.02	53
1	72	20.003	19.990	35.093	24.837	313.2	.264	5.50	106.5	2.7	.06	.0	.00	.10	.02	72
	75 ISL	19.770	19.757	35.056	24.869	310.1	.274	5.50	106.0							75
1	91	18.968	18.952	34.928	24.979	300.2	.323	5.48	104.0	3.1	.07	.0	.00	.12	.05	91
	100 ISL	18.837	18.819	34.977	25.051	293.7	.350	5.38	101.9							101
1	102	18.806	18.788	34.981	25.062	292.7	.355	5.37	101.6	2.8	.10	.0	.00	.15	.11	102
1	111	18.254	18.235	34.849	25.099	289.4	.382	5.41	101.2	3.0	.10	.0	.00	.15	.14	112
1	122	18.084	18.063	34.841	25.136	286.3	.412	5.37	100.1	3.0	.11	.0	.02	.16	.17	122
	125 ISL	18.102	18.080	34.863	25.149	285.2	.422	5.34	99.7							126
1	132	18.137	18.114	34.908	25.174	283.0	.442	5.30	99.0	2.9	.12	.0	.08	.14	.16	133
1	142	17.562	17.538	34.772	25.211	279.8	.471	5.33	98.4	2.9	.14	.0	.14	.13	.14	143
	150 ISL	17.440	17.415	34.752	25.226	278.6	.493	5.32	98.0							151
1	153	17.414	17.389	34.751D	25.232	278.2	.501							.09	.07	154
1	178	16.623	16.594	34.599	25.303	272.1	.570	5.29	95.8	3.4	.20	.6	.04	.05	.05	179
	200 ISL	14.869	14.838	34.341	25.500	253.5	.627	5.11	89.2							201
1	202	14.663	14.633	34.315	25.524	251.1	.633	5.09	88.5	5.3	.40	3.3	.02	.01	.00	203
1	226	13.095	13.064	34.168	25.736	231.1	.690	4.91	82.5	8.3	.63	6.9	.01			227
1	250	11.453	11.422	34.022	25.938	211.8	.743	4.83	78.4	11.8	.87	10.6	.01			251
1	299	9.771	9.736	34.001	26.217	185.6	.841	4.67	73.0	19.3	1.20	16.1	.01			301
	300 ISL	9.749	9.715	34.002	26.221	185.2	.843	4.66	72.9							302
1	399	7.847	7.807	34.032	26.542	155.3	1.011	3.62	54.2	37.7	1.80	24.9	.00			401
	400 ISL	7.831	7.791	34.032	26.545	155.1	1.013	3.61	54.0							403
1	498	6.174	6.130	34.028D	26.769	133.8	1.154									501
	500 ISL	6.149	6.105	34.029	26.772	133.4	1.157	2.29	33.0							504
1	598	5.175	5.126	34.105	26.951	116.6	1.279	1.12	15.8	83.1	2.88	40.0	.00			601
	600 ISL	5.159	5.110	34.108	26.955	116.2	1.282	1.12	15.7							604
	700 ISL	4.618	4.563	34.223	27.108	102.1	1.391	1.00	13.9							705
1	798	4.309	4.248	34.333D	27.230	91.2	1.486									804
	800 ISL	4.303	4.241	34.335	27.232	91.0	1.487	.89	12.2							806
	1000 ISL	3.737	3.663	34.449	27.382	77.7	1.656	.66	9.0							1008
1	1017	3.703	3.628	34.452	27.388	77.1	1.669	.64	8.7	125.2	3.17	44.1	.00			1025

RV NEW HORIZON — SOSO — STATION 42

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
27 59.9 N	135 59.8 W	16/08/82	2223 GMT		070	10 KT	060 02 03	1	1021.5 MB	22.1 C	19.1 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 D.BAR
	0 ISL	22.502	22.502	35.167	24.204	371.2	.000	5.10	103.4							0
1	1	22.502	22.502	35.167	24.204	370.6	.004	5.10	103.4	2.2	.08	.5	.00	.06	.00	1
	10 ISL	22.306	22.304	35.168	24.262	365.5	.037	5.07	102.5							10
1	14	22.195	22.192	35.161	24.288	363.2	.052	5.06	102.0	2.2	.07	.4	.00	.06	-.01	14
	20 ISL	22.012	22.008	35.131	24.317	360.7	.073	5.07	101.9							20
	30 ISL	21.631	21.625	35.079	24.384	354.7	.109	5.14	102.6							30
1	33	21.518	21.512	35.066	24.405	352.8	.118	5.17	102.9	2.2	.07	.3	.00	.06	.00	33
	50 ISL	20.565	20.556	35.068	24.667	328.6	.177	5.48	107.1							50
1	52	20.442	20.432	35.067	24.699	325.5	.184	5.51	107.6	2.2	.05	.2	.00	.09	-.01	52
1	71	19.253	19.240	34.941	24.916	305.5	.245	5.55	105.9	2.4	.07	.2	.00	.11	.00	72
	75 ISL	19.221	19.207	34.955	24.935	303.8	.256	5.54	105.6							75
1	91	18.876	18.860	34.943	25.014	296.9	.303	5.47	103.6	2.4	.07	.2	.00	.15	.01	91
1	100	18.030	18.013	34.777	25.099	289.0	.331	5.46	101.7	2.7	.10	.1	.00	.18	.06	101
1	110	17.697	17.679	34.683	25.109	288.4	.360	5.47	101.2	2.7	.11	.0	.00	.19	.11	111
1	120	17.391	17.371	34.642	25.152	284.6	.388	5.44	100.0	2.7	.12	.1	.01	.23	.14	121
	125 ISL	17.518	17.497	34.706	25.171	283.0	.402	5.39	99.3							126
1	130	17.662	17.640	34.776	25.189	281.4	.417	5.33	98.6	2.7	.12	.0	.07	.20	.16	131
1	141	17.405	17.382	34.734	25.220	278.8	.446	5.31	97.7	2.7	.13	.0	.12	.17	.14	141
	150 ISL	17.346	17.321	34.716	25.221	279.1	.472	5.27	96.9							151
1	151	17.339	17.314	34.714	25.221	279.1	.475	5.27	96.8	2.9	.16	.3	.13	.12	.09	152
1	176	16.269	16.241	34.578	25.369	265.6	.542	5.16	92.7	4.0	.24	1.5	.05	.05	.04	176
	200 ISL	14.861	14.831	34.394	25.543	249.4	.605	4.96	86.7							201
1	201	14.815	14.785	34.388	25.548	248.9	.606	4.96	86.5	6.1	.41	3.9	.03	.02	.02	202
1	224	12.322	12.292	34.067	25.809	223.8	.663	4.88	80.7	10.2	.73	8.2	.01			226
1	249	11.037	11.007	34.071	26.051	200.8	.715	4.74	76.2	14.4	.95	12.3	.01			250
	250 ISL	10.999	10.969	34.071	26.058	200.2	.717	4.74	76.1							252
1	299	9.881	9.846	34.069	26.251	182.4	.810	4.63	72.6	19.8	1.17	15.9	.01			300
	300 ISL	9.846	9.811	34.068	26.257	181.9	.812	4.62	72.5							302
	400 ISL	7.663	7.624	34.026	26.564	153.1	.980	3.77	56.2							403
1	404	7.576	7.536	34.024	26.575	152.0	.987	3.71	55.2	39.8	1.79	24.9	.00			407
	500 ISL	6.071	6.027	34.038	26.789	131.8	1.122	1.93	27.7							504
1	504	6.016	5.972	34.039	26.797	131.0	1.128	1.85	26.5	65.1	2.52	35.0	.00			507
	600 ISL	5.075	5.027	34.110	26.966	115.0	1.246	1.04	14.7							604
1	601	5.069	5.020	34.110	26.968	114.9	1.247	1.04	14.6	85.9	2.88	39.9	.00			605
	700 ISL	4.548	4.493	34.220	27.113	101.5	1.354	.55	7.6							705
1	798	4.253	4.192	34.327	27.231	90.9	1.448	.34	4.7	112.7	3.14	43.4	.00			804
	800 ISL	4.246	4.185	34.329	27.233	90.7	1.450	.34	4.7							806
	1000 ISL	3.694	3.620	34.460	27.395	76.3	1.617	.72	9.8							1008
1	1022	3.651	3.576	34.469	27.407	75.3	1.633	.76	10.3	126.6	3.12	43.6	.00			1029

RV NEW HORIZON SOSO STATION 43

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 00.0 N	134 59.4 W	17/08/82	0535 1511 GMT	4419 M	050	08 KT		1	1023.2 MP	21.0 C	18.6 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 D.BAR
	0 ISL	21.447	21.447	34.890	24.289	363.4	.000	5.21	103.5							0
1	1	21.447	21.447	34.890	24.289	362.6	.005	5.21	103.5	2.5	.09	.1	.00	.06	.00	1
	10 ISL	21.293	21.291	34.904	24.343	357.8	.036	5.19	102.9							10
1	16	21.226	21.223	34.912	24.368	355.6	.057	5.19	102.7	2.1	.09	.0	.00	.06	.00	16
	20 ISL	21.216	21.212	34.920	24.376	355.0	.072	5.19	102.7							20
	30 ISL	21.192	21.186	34.927	24.389	354.2	.107	5.21	103.0							30
1	32	21.188	21.182	34.927	24.390	354.2	.113	5.21	103.0	2.1	.09	.0	.00	.06	-.03	32
	50 ISL	21.094	21.085	34.942	24.428	351.3	.178	5.24	103.4							50
1	52	21.084	21.074	34.943	24.432	351.0	.185	5.24	103.4	2.2	.09	.0	.00	.07	.01	52
1	72	19.778	19.765	34.970	24.802	316.5	.250	5.45	105.0	2.4	.09	.0	.00	.08	.01	72
	75 ISL	19.586	19.572	34.960	24.844	312.5	.261	5.43	104.3							75
1	91	18.857	18.841	34.897	24.984	299.7	.311	5.30	100.3	2.6	.11	.0	.00	.13	.03	92
	100 ISL	18.614	18.596	34.871	25.026	296.0	.337	5.27	99.4							101
1	102	18.577	18.559	34.867	25.032	295.5	.341	5.27	99.2	2.6	.11	.0	.00	.14	.07	102
1	112	18.403	18.384	34.858	25.069	292.3	.371	5.34	100.2	2.6	.11	.0	.00	.21	.13	112
1	122	17.731	17.711	34.733	25.139	285.9	.399	5.40	100.0	2.8	.12	.0	.02	.25	.18	122
	125 ISL	17.626	17.605	34.717	25.153	284.7	.409	5.39	99.5							126
1	132	17.479	17.457	34.697	25.173	283.0	.429	5.35	98.5	3.2	.14	.1	.09	.22	.19	132
1	143	17.122	17.099	34.633	25.210	279.8	.459	5.36	98.0	3.2	.15	.2	.15	.17	.14	143
	150 ISL	17.081	17.056	34.653	25.236	277.6	.480	5.30	96.8							151
1	154	17.064	17.039	34.667	25.250	276.3	.490	5.26	96.1	3.7	.17	.6	.16	.11	.12	154
1	179	15.903	15.874	34.527	25.413	261.4	.558	5.01	89.4	4.7	.32	2.9	.02	.06	.06	180
	200 ISL	14.369	14.339	34.311	25.584	245.3	.611	4.95	85.6							201
1	203	14.087	14.057	34.273	25.614	242.4	.619	4.95	85.0	6.8	.50	5.5	.01	.03	.02	204
1	227	12.162	12.132	34.065	25.838	221.0	.673	4.88	80.4	10.6	.74	8.8	.01			228
	250 ISL	11.303	11.271	34.024	25.967	209.0	.724	4.80	77.7							252
1	251	11.282	11.251	34.024	25.971	208.6	.725	4.80	77.6	13.1	.90	11.8	.00			252
	300 ISL	9.594	9.560	34.034	26.272	180.3	.821	4.65	72.5							302
1	301	9.569	9.535	34.035	26.276	179.9	.822	4.65	72.4	21.3	1.22	17.1	.00			302
1	398	7.569	7.530	34.025	26.577	151.8	.984	3.16	47.0	42.0	1.96	27.6	.00			400
	400 ISL	7.537	7.498	34.026	26.582	151.3	.987	3.13	46.5							403
1	495	6.156	6.113	34.062	26.797	131.0	1.121	1.72	24.8	64.8	2.56	36.0	.00			498
	500 ISL	6.094	6.050	34.066	26.808	130.0	1.127	1.66	23.9							504

RV NEW HORIZON SOSO STATION 43

1	592	5.125	5.077	34.140	26.985	113.3	1.239	.88	12.4	86.5	2.93	41.1	.00	596
	600 ISL	5.071	5.023	34.148	26.998	112.1	1.248	.86	12.1					604
	700 ISL	4.518	4.464	34.254	27.144	98.6	1.353	.61	8.5					705
1	789	4.244	4.184	34.343	27.245	89.6	1.437	.39	5.4	112.8	3.16	44.3	.00	794
	800 ISL	4.219	4.158	34.350	27.252	88.9	1.447	.41	5.6					806
7	999	3.739	3.665	34.462	27.392	76.6	1.612	.72	9.8	123.7	3.11	44.0	.00	1007
	1000 ISL	3.736	3.662	34.463	27.393	76.6	1.613	.72	9.8					1008
1	1014	3.683	3.608	34.472	27.406	75.3	1.623	.79	10.7	125.2	3.11	44.1	.00	1022
7	1197	3.350	3.263	34.519	27.477	69.4	1.756	1.01	13.6	132.2	3.08	43.8	.00	1207
	1250 ISL	3.245	3.154	34.529	27.495	67.7	1.792	1.07	14.4					1261
7	1399	2.947	2.847	34.554	27.543	63.4	1.890	1.23	16.4	142.2	3.05	43.5	.00	1411
	1500 ISL	2.760	2.653	34.568	27.572	60.7	1.952	1.35	17.9					1514
7	1600	2.587	2.475	34.581	27.597	58.3	2.012	1.46	19.3	153.0	3.01	43.0	.00	1615
	1750 ISL	2.367	2.245	34.598	27.630	55.2	2.097	1.61	21.2					1767
7	1801	2.302	2.176	34.603	27.640	54.3	2.125	1.66	21.8	160.1	2.97	42.5	.00	1819
7	2000	2.098	1.958	34.619	27.670	51.6	2.230	1.86	24.3	165.7	2.92	42.0	.00	2021
7	2184	1.901	1.748	34.633	27.698	48.9	2.323	2.06	26.7	171.3	2.88	41.3	.00	2208
	2250 ISL	1.845	1.688	34.637	27.705	48.1	2.355	2.14	27.7					2275
7	2366	1.764	1.597	34.645	27.718	47.0	2.410	2.27	29.3	173.2	2.83	40.8	.00	2393
	2500 ISL	1.693	1.515	34.652	27.730	46.0	2.472	2.41	31.1					2529
7	2568	1.665	1.482	34.655	27.735	45.6	2.503	2.47	31.8	175.0	2.79	40.2	.00	2599
	2750 ISL	1.616	1.417	34.660	27.743	45.2	2.586	2.60	33.5					2784
7	2775	1.611	1.410	34.661	27.745	45.1	2.597	2.62	33.7	175.4	2.75	39.8	.00	2810
7	2976	1.559	1.339	34.667	27.755	44.6	2.687	2.80	36.0	173.7	2.72	39.2	.00	3014
	3000 ISL	1.552	1.331	34.668	27.756	44.5	2.698	2.82	36.2					3038
7	3177	1.513	1.274	34.674	27.765	44.0	2.776	2.96	38.0	170.9	2.67	38.7	.00	3220
	3250 ISL	1.509	1.264	34.676	27.767	44.1	2.808	3.00	38.5					3293
7	3378	1.503	1.244	34.676	27.769	44.3	2.865	3.06	39.2	169.5	2.64	38.5	.00	3425
	3500 ISL	1.502	1.231	34.677	27.770	44.5	2.919	3.11	39.8					3549
7	3580	1.502	1.222	34.678	27.772	44.7	2.955	3.14	40.2	168.7	2.63	38.3	.00	3632
	3750 ISL	1.504	1.206	34.681	27.775	45.0	3.031	3.20	41.0					3804
7	3782	1.505	1.203	34.681	27.775	45.1	3.046	3.21	41.1	169.0	2.62	38.1	.00	3838
7	3982	1.515	1.191	34.683	27.778	45.7	3.136	3.25	41.6	168.0	2.60	38.0	.00	4043
	4000 ISL	1.517	1.191	34.683	27.778	45.8	3.145	3.25	41.6					4060
7	4082	1.526	1.190	34.683	27.778	46.1	3.182	3.26	41.7	167.9	2.60	37.9	.00	4146
7	4182	1.532	1.184	34.683	27.778	46.5	3.229	3.27	41.8	167.3	2.60	37.9	.00	4249
7	4233	1.535	1.181	34.682	27.778	46.8	3.252	3.31	42.3	166.8	2.60	37.8	.00	4301
	4250 ISL	1.537	1.182	34.683	27.778	46.8	3.260	3.31	42.3					4317
7	4283	1.541	1.181	34.684	27.780	46.8	3.276	3.30	42.2	166.7	2.60	37.8	.00	4352
7	4318	1.544	1.180	34.684	27.779	47.0	3.292	3.28	42.0	166.6	2.60	37.8	.00	4388

RV NEW HORIZON SOSO STATION 45

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
28 01.3 N	134 00.0 W	18/08/82	0108 GMT	4552 M	050	11 KT	050 02 03	2	1021.2 MB	21.3 C	19.4 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 D.BAR
	0 ISL	21.464	21.464	35.022	24.385	353.7	.000	5.19	103.2							0
1	2	21.464	21.464	35.022	24.385	353.4	.006	5.19	103.2	2.4	.10	.2	.00	.06	.01	2
	10 ISL	21.403	21.401	35.025	24.405	351.9	.035	5.20	103.4							10
1	16	21.362	21.359	35.028	24.419	350.8	.057	5.21	103.4	2.4	.10	.2	.00	.06	.01	16
	20 ISL	21.340	21.336	35.031	24.427	350.2	.070	5.21	103.3							20
	30 ISL	21.284	21.278	35.039	24.449	348.4	.105	5.20	103.1							30
1	33	21.266	21.260	35.042	24.456	347.9	.116	5.20	103.0	2.4	.10	.2	.00	.06	.00	33
	50 ISL	19.612	19.603	34.793	24.709	324.4	.173	5.50	105.6							50
1	52	19.403	19.394	34.763	24.740	321.5	.179	5.54	105.9	2.6	.11	.2	.00	.08	.01	52
1	72	18.928	18.915	34.688	24.805	316.0	.243	5.54	104.9	2.8	.12	.2	.00	.09	.01	72
	75 ISL	18.914	18.900	34.699	24.817	315.0	.253	5.52	104.5							75
1	92	18.836	18.820	34.776	24.897	308.0	.306	5.40	102.1	2.6	.12	.1	.00	.12	.04	93
	100 ISL	18.821	18.803	34.836	24.947	303.6	.330	5.36	101.4							101
1	103	18.815	18.797	34.854	24.962	302.2	.338	5.35	101.2	2.6	.11	.0	.00	.13	.07	103
1	113	18.577	18.557	34.820	24.997	299.3	.369	5.30	99.8	2.7	.12	.0	.00	.14	.13	113
1	123	18.281	18.260	34.762	25.027	296.8	.400	5.31	99.4	2.9	.13	.0	.02	.19	.15	124
	125 ISL	18.186	18.164	34.743	25.035	296.0	.405	5.31	99.2							126
1	133	17.694	17.672	34.643	25.080	291.9	.429	5.31	98.2	3.1	.15	.2	.13	.20	.13	134
1	143	17.242	17.218	34.553	25.120	288.3	.459	5.29	96.9	3.3	.18	.2	.15	.15	.12	144
	150 ISL	16.807	16.783	34.456	25.149	285.8	.478	5.33	96.8							151
1	153	16.594	16.570	34.411	25.164	284.4	.487	5.35	96.7	3.5	.20	.6	.12	.15	.07	154
1	179	15.662	15.634	34.369	25.346	267.6	.557	5.04	89.4	4.8	.35	2.8	.02	.06	.07	179
	200 ISL	13.860	13.832	34.206	25.610	242.7	.611	4.86	83.0							201
1	202	13.621	13.592	34.184	25.641	239.6	.617	4.84	82.3	8.1	.60	6.7	.01	.02	.02	203
1	225	11.367	11.339	33.960	25.905	214.3	.569	4.71	76.2	13.1	.91	11.6	.00			226
1	250	10.671	10.641	33.979	26.045	201.3	.721	4.65	74.2	16.2	1.06	13.9	.00			251
	300 ISL	9.220	9.187	34.053	26.347	172.9	.814	4.52	69.9							302
1	301	9.203	9.170	34.054	26.351	172.6	.815	4.52	69.8	24.5	1.33	18.8	.00			302
1	395	6.964	6.927	34.023	26.659	143.4	.965	2.82	41.4	49.4	2.14	30.4	.00			398
	400 ISL	6.903	6.865	34.025	26.670	142.4	.971	2.74	40.2							403
1	495	5.996	5.953	34.082	25.833	127.4	1.099	1.45	20.8	68.3	2.67	37.5	.00			498
	500 ISL	5.941	5.897	34.086	26.843	126.5	1.106	1.40	20.1							504
1	598	5.026	4.978	34.155	27.008	111.0	1.222	.82	11.5	89.1	2.97	41.8	.00			602
	600 ISL	5.012	4.964	34.157	27.012	110.7	1.225	.82	11.4							604
	700 ISL	4.480	4.426	34.253	27.147	98.3	1.329	.60	8.3							705
1	795	4.185	4.125	34.341	27.249	89.1	1.418	.39	5.4	114.4	3.18	44.6	.00			801
	800 ISL	4.169	4.108	34.345	27.254	88.7	1.422	.40	5.5							806
	1000 ISL	3.776	3.702	34.465	27.392	76.8	1.588	.77	10.5							1008
1	1009	3.769	3.694	34.469	27.395	76.5	1.595	.79	10.8	123.1	3.12	44.2	.00			1017

RV NEW HORIZON — SOSO — STATION 46

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
28 00.7 N	133 00.3 W	18/08/82	0813 GMT	4347 M	030	17 KT		2	1022.5 MB	19.7 C	18.0 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 D.BAR
	0 ISL	21.075	21.075	34.535	24.121	379.3	.000	5.29	104.2							0
1	1	21.075	21.075	34.535	24.121	378.5	.005	5.29	104.2	2.5	.15	.3	.00	.06	.01	1
	10 ISL	20.807	20.806	34.527	24.188	372.5	.038	5.31	103.9							10
1	17	20.591	20.588	34.530	24.249	367.0	.063	5.33	104.0	2.9	.14	.3	.00	.06	.01	17
	20 ISL	20.514	20.510	34.542	24.278	364.3	.074	5.35	104.2							20
	30 ISL	20.167	20.162	34.562	24.386	354.4	.110	5.41	104.8							30
1	33	20.022	20.016	34.564	24.426	350.7	.122	5.44	105.1	3.3	.13	.2	.00	.07	.01	33
	50 ISL	18.521	18.512	34.429	24.709	324.4	.178	5.66	106.3							50
1	52	18.313	18.304	34.409	24.746	320.9	.186	5.69	106.3	3.4	.14	.3	.00	.07	.01	53
1	72	17.685	17.673	34.371	24.871	309.6	.248	5.68	104.8	3.6	.15	.2	.00	.11	.02	72
	75 ISL	17.608	17.595	34.364	24.885	308.4	.257	5.68	104.7							75
1	92	17.286	17.271	34.372	24.969	301.0	.309	5.64	103.3	3.6	.15	.3	.00	.12	.05	92
	100 ISL	17.255	17.238	34.433	25.023	296.1	.333	5.59	102.3							101
1	103	17.243	17.226	34.451	25.040	294.5	.340	5.57	102.0	3.6	.15	.3	.00	.14	.09	103
1	112	17.080	17.062	34.465D	25.091	290.1	.369	5.49	100.2	3.7	.15	.2	.01	.17	.13	113
1	122	16.640	16.621	34.397	25.142	285.5	.398	5.52	99.8	3.9	.17	.3	.06	.18	.13	123
	125 ISL	16.628	16.608	34.394	25.143	285.5	.405	5.50	99.5							126
1	133	16.593	16.572	34.387	25.145	285.4	.427	5.45	98.5	3.9	.19	.3	.13	.15	.12	133
1	143	15.915	15.892	34.238	25.187	281.6	.456	5.46	97.3	4.1	.23	.7	.13	.12	.12	143
	150 ISL	15.684	15.660	34.201	25.211	279.6	.476	5.41	95.9							151
1	153	15.610	15.586	34.197	25.224	278.4	.486	5.38	95.2	4.3	.27	1.3	.07	.09	.08	154
1	179	14.934	14.907	34.273	25.433	259.2	.553	5.05	88.2	5.9	.40	3.6	.02	.05	.05	179
	200 ISL	12.636	12.609	33.990	25.688	234.8	.606	4.99	83.0							201
1	202	12.376	12.349	33.960	25.715	232.1	.612	4.99	82.5	9.6	.69	7.8	.01	.02	.01	203
1	227	11.124	11.096	33.945	25.937	211.2	.566	4.85	78.1	13.6	.91	11.7	.00			228
	250 ISL	9.952	9.923	33.936	26.134	192.4	.713	4.68	73.4							252
1	251	9.910	9.881	33.936	26.142	191.7	.714	4.67	73.2	18.6	1.17	15.9	.00			252
1	300	8.738	8.706	34.013	26.392	168.4	.803	4.19	64.0	28.6	1.49	21.1	.00			302
	400 ISL	7.023	6.985	34.026	26.653	144.1	.959	2.77	40.8							403
1	401	7.010	6.972	34.025	26.655	143.9	.960	2.76	40.5	49.5	2.15	30.6	.00			403
1	500	5.687	5.644	34.065	26.858	124.8	1.093	1.42	20.2	72.5	2.72	38.5	.00			503
1	599	5.022	4.973	34.202	27.046	107.5	1.209	.59	8.3	92.7	3.05	42.4	.00			603
	600 ISL	5.019	4.970	34.203	27.047	107.4	1.210	.59	8.3							604
	700 ISL	4.571	4.516	34.306	27.180	95.3	1.311	.49	6.8							705
1	795	4.264	4.203	34.380	27.272	87.1	1.398	.39	5.4	113.0	3.17	44.4	.00			801
	800 ISL	4.248	4.187	34.384	27.277	86.7	1.402	.39	5.4							806
	1000 ISL	3.745	3.670	34.487	27.412	74.8	1.564	.83	11.3							1008
1	1012	3.722	3.647	34.491	27.417	74.4	1.573	.88	12.0	123.4	3.10	44.1	.00			1020

RV NEW HORIZON — SOSO — STATION 47

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
27 59.9 N	132 00.0 W	18/08/82	1654 GMT	4694 M	030	14 KT	040 03 04	2	1022.8 MB	21.2 C	19.6 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 D.BAR
	0 ISL	20.699	20.699	34.697	24.346	357.2	.000	5.29	103.5							0
1	1	20.699	20.699	34.697	24.346	357.1	.004	5.29	103.5	2.2	.13	.4	.00	.05	.01	1
	10 ISL	20.668	20.666	34.694	24.353	356.8	.036	5.30	103.7							10
1	17	20.639	20.636	34.691	24.358	356.6	.060	5.31	103.8	2.2	.12	.4	.00	.06	.01	17
	20 ISL	20.622	20.618	34.709	24.377	354.9	.071	5.32	103.9							20
	30 ISL	20.569	20.563	34.797	24.458	347.5	.106	5.33	104.2							30
1	34	20.549	20.543	34.840	24.497	344.3	.119	5.34	104.3	2.1	.11	.4	.00	.06	.02	34
	50 ISL	18.879	18.870	34.530	24.697	325.5	.174	5.61	106.0							50
1	53	18.586	18.577	34.4760	24.729	322.5	.183	5.65	106.2	2.9	.12	.4	.00	.07	.02	53
1	73	18.199	18.187	34.530	24.867	310.1	.247	5.59	104.3	3.1	.12	.4	.00	.12	.04	73
	75 ISL	18.100	18.087	34.516	24.881	308.8	.253	5.59	104.1							75
1	92	17.136	17.121	34.360	24.995	298.4	.305	5.58	101.9	3.3	.15	.3	.00	.13	.13	93
	100 ISL	16.827	16.811	34.306	25.027	295.6	.328	5.56	101.0							101
1	102	16.761	16.745	34.296	25.035	294.9	.335	5.56	100.8	3.3	.17	.3	.00	.17	.18	103
1	113	16.674	16.656	34.328	25.080	290.9	.366	5.45	98.6	3.4	.20	.4	.11	.17	.16	113
1	123	16.447	16.428	34.312	25.121	287.4	.395	5.36	96.5	3.6	.23	.6	.18	.14	.15	123
	125 ISL	16.328	16.308	34.289	25.131	286.5	.401	5.36	96.3							126
1	132	15.901	15.880	34.213	25.170	282.9	.421	5.37	95.6	3.6	.25	.9	.18	.12	.12	133
1	143	15.404	15.382	34.193	25.267	273.9	.451	5.22	92.0	3.9	.32	2.1	.02	.08	.10	143
	150 ISL	14.775	14.753	34.120	25.348	266.3	.471	5.15	89.6							151
1	153	14.506	14.483	34.088	25.381	263.1	.479	5.13	88.8	5.6	.44	3.7	.02	.06	.07	154
1	178	13.544	13.519	34.084	25.579	244.8	.543	5.01	85.0	7.2	.54	5.8	.01	.03	.04	179
	200 ISL	11.752	11.727	33.953	25.828	221.2	.593	4.73	77.3							201
1	202	11.597	11.572	33.941	25.847	219.2	.597	4.71	76.6	12.1	.89	11.0	.00	.01	.01	203
1	225	10.350	10.324	33.883	26.025	202.4	.647	4.60	72.8	16.2	1.12	14.9	.00			226
1	249	9.548	9.520	33.919	26.188	187.1	.693	4.40	68.4	21.6	1.31	18.1	.00			250
	250 ISL	9.524	9.496	33.920	26.193	186.6	.695	4.39	68.2							252
1	298	8.475	8.444	33.976	26.403	167.1	.779	3.68	55.9	31.9	1.69	23.8	.00			299
	300 ISL	8.431	8.399	33.977	26.411	166.4	.783	3.65	55.4							302
1	395	6.845	6.809	34.031	26.682	141.2	.929	2.41	35.3	52.6	2.28	32.2	.00			397
	400 ISL	6.780	6.743	34.036	26.694	140.0	.936	2.33	34.0							403
1	494	5.861	5.819	34.126	26.885	122.4	1.060	1.06	15.2	73.9	2.81	39.1	.00			497
	500 ISL	5.816	5.773	34.132	26.895	121.5	1.067	1.02	14.5							504
1	589	5.192	5.143	34.214	27.036	108.5	1.169	.55	7.7	89.9	3.02	42.1	.00			593
	600 ISL	5.132	5.083	34.225	27.052	107.1	1.181	.54	7.6							604
	700 ISL	4.667	4.611	34.318	27.179	95.6	1.282	.45	6.3							705
1	773	4.417	4.357	34.379	27.255	88.8	1.350	.39	5.4	109.7	3.15	44.3	.00			779
	800 ISL	4.340	4.278	34.394	27.276	87.0	1.373	.40	5.5							806
1	991	3.863	3.789	34.486	27.399	76.3	1.530	.71	9.7	122.3	3.14	44.5	.00			999
	1000 ISL	3.840	3.765	34.491	27.405	75.7	1.536									1008

RV NEW HORIZON — SOSO — STATION 49

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
27 59.9 N	131 00.5 W	19/08/82	0123 GMT	3814 M	010	11 KT	040 03 04	1	1019.0 MB	20.8 C	17.8 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 D.BAR
	0 ISL	21.189	21.189	35.022	24.460	346.6	.000	5.23	103.5							0
1	1	21.189	21.189	35.022	24.460	346.2	.005	5.23	103.5	2.3	.13	.2	.00	.05	.00	1
	10 ISL	21.087	21.085	35.015	24.484	344.3	.035	5.22	103.0							10
1	16	21.026	21.023	35.009	24.496	343.4	.056	5.21	102.8	2.3	.12	.1	.00	.06	.00	16
	20 ISL	21.014	21.010	35.009	24.500	343.3	.069	5.21	102.8							20
	30 ISL	20.953	20.947	34.996	24.506	343.0	.103	5.22	102.8							30
1	33	20.928	20.922	34.989	24.508	342.9	.113	5.22	102.8	2.3	.12	.1	.00	.06	.00	33
	50 ISL	20.497	20.487	34.877	24.540	340.6	.172	5.32	103.8							50
1	53	20.386	20.376	34.845	24.545	340.2	.181	5.34	104.0	2.5	.11	.0	.00	.08	.01	53
1	72	19.124	19.111	34.700	24.765	319.9	.244	5.56	105.7	2.5	.11	.0	.00	.11	.01	72
	75 ISL	18.956	18.942	34.681	24.793	317.3	.254	5.55	105.2							75
1	92	18.405	18.389	34.644	24.904	307.3	.306	5.52	103.5	2.7	.12	.0	.00	.14	.03	92
	100 ISL	18.373	18.356	34.679	24.939	304.2	.332	5.48	102.6							101
1	102	18.367	18.350	34.686	24.946	303.6	.336	5.47	102.5	2.7	.12	.0	.00	.15	.06	102
1	112	17.814	17.795	34.582	25.003	298.5	.367	5.47	101.3	2.9	.13	.0	.00	.17	.12	112
1	123	17.601	17.581	34.571	25.047	294.7	.399	5.41	99.8	3.1	.15	.0	.03	.22	.16	123
	125 ISL	17.497	17.476	34.549	25.055	294.0	.406	5.41	99.7							126
1	133	17.083	17.061	34.457	25.084	291.4	.430	5.44	99.3	3.3	.16	.1	.09	.22	.17	134
1	144	16.514	16.491	34.363	25.146	285.7	.460	5.45	98.3	3.6	.18	.1	.16	.17	.13	144
	150 ISL	16.303	16.279	34.320	25.162	284.4	.478	5.43	97.6							151
1	154	16.192	16.168	34.296	25.169	283.8	.489	5.42	97.1	3.8	.20	.2	.17	.09	.12	154
1	176	15.161	15.134	34.144	25.283	273.3	.550	5.28	92.6	4.6	.32	1.9	.02	.06	.07	176
1	198	13.947	13.918	34.139	25.540	249.3	.609	4.97	85.0	6.8	.53	5.5	.01	.03	.03	199
	200 ISL	13.815	13.787	34.134	25.563	247.1	.614	4.95	84.4							201
1	221	12.167	12.138	34.064	25.836	221.0	.662	4.68	77.1	11.5	.82	10.1	.00			222
1	244	10.916	10.887	33.998	26.016	204.0	.711	4.48	71.8	15.8	1.07	13.9	.00			245
	250 ISL	10.660	10.629	33.996	26.060	199.8	.724	4.44	70.8							252
1	290	9.388	9.355	34.028	26.300	177.2	.799	4.16	64.5	24.5	1.42	19.6	.00			291
	300 ISL	9.119	9.086	34.028	26.344	173.2	.817	4.06	62.6							302
1	397	7.157	7.119	34.017	26.628	146.5	.972	2.89	42.6	46.7	2.09	29.8	.00			399
	400 ISL	7.115	7.077	34.018	26.635	145.9	.976	2.85	41.9							403
1	492	6.041	5.998	34.074	26.821	128.6	1.102	1.56	22.4							495
	500 ISL	5.958	5.914	34.081	26.837	127.1	1.112	1.48	21.2							504
1	596	5.110	5.061	34.174	27.013	110.6	1.227	.73	10.3	88.2	2.99	41.8	.00			600
	600 ISL	5.091	5.042	34.178	27.019	110.1	1.231	.72	10.2							604
	700 ISL	4.696	4.641	34.289	27.152	98.1	1.335	.56	7.9							705
	800 ISL	4.495	4.432	34.387	27.253	89.5	1.429	.41	5.6							806
1	804	4.491	4.428	34.390	27.256	89.2	1.432	.40	5.5	107.6	3.17	44.3	.00			809
	1000 ISL	3.917	3.841	34.477	27.386	77.7	1.596	.75	10.2							1008
1	1012	3.883	3.807	34.478	27.391	77.3	1.605	.79	10.8	119.3	3.13	44.2	.00			1020

RV NEW HORIZON SOSO STATION 50

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
28 01.0 N	130 00.8 W	19/08/82	1105 GMT	4436 M	030	14 KT		2	1020.0 MB	20.3 C	17.7 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 D.BAR
	0 ISL	20.433	20.433	34.351	24.154	376.5	.000	5.32	103.4							0
5	1	20.433	20.433	34.351	24.154	375.5	.004	5.32	103.4	2.4	.17	.3	.00	.06	.01	1
	10 ISL	20.476	20.474	34.460	24.226	368.9	.037	5.31	103.3							10
5	16	20.528	20.525	34.532	24.267	365.3	.060	5.30	103.3	2.2	.15	.3	.00	.06	.01	16
	20 ISL	20.588	20.584	34.571	24.281	364.1	.074	5.30	103.5							20
	30 ISL	20.718	20.712	34.671	24.323	360.5	.110	5.30	103.8							30
5	32	20.741	20.735	34.693	24.333	359.6	.118	5.30	103.8	2.4	.14	.3	.00	.06	.02	32
	50 ISL	20.569	20.560	34.882	24.525	342.1	.180	5.29	103.4							50
5	53	20.545	20.535	34.911	24.553	339.5	.189	5.29	103.4	2.4	.11	.3	.00	.06	.01	53
5	72	19.631	19.618	34.740	24.665	329.5	.255	5.43	104.2	2.4	.12	.2	.00	.07	.02	73
	75 ISL	19.454	19.440	34.701	24.681	328.1	.264	5.46	104.4							75
5	92	18.538	18.522	34.527	24.781	319.0	.318	5.59	105.0	2.6	.12	.2	.00	.10	.03	92
	100 ISL	18.361	18.343	34.534	24.831	314.5	.344	5.57	104.2							101
5	102	18.339	18.322	34.539	24.841	313.7	.350	5.56	104.0	2.8	.12	.2	.00	.12	.05	102
5	112	18.232	18.213	34.574	24.894	308.9	.381	5.49	102.5	3.0	.12	.2	.00	.14	.06	112
5	122	18.029	18.008	34.570	24.942	304.7	.412	5.49	102.1	3.2	.12	.1	.00	.13	.10	122
	125 ISL	17.920	17.898	34.554	24.957	303.4	.422	5.48	101.7							126
5	132	17.706	17.684	34.523	24.985	300.9	.442	5.46	100.9	3.1	.15	.1	.00	.22	-.01	132
5	141	17.549	17.525	34.521	25.022	297.7	.471	5.23	96.4	3.3	.19	.2	.20	.15	.13	142
	150 ISL	17.164	17.139	34.469	25.075	292.9	.496	5.25	95.9							151
5	152	17.081	17.056	34.457	25.085	291.9	.501	5.25	95.8	3.5	.21	.3	.22	.12	.11	152
5	177	15.906	15.878	34.310	25.246	277.2	.572	5.04	89.8	4.3	.33	2.5	.02	.06	.07	177
	200 ISL	13.945	13.917	34.092	25.504	252.8	.634	4.92	84.2							201
5	201	13.867	13.838	34.084	25.514	251.8	.636	4.92	84.0	7.2	.55	5.7	.01	.03	.04	202
5	223	11.955	11.926	33.947	25.786	225.8	.690	4.69	76.9	11.8	.85	10.4	.00			224
5	247	10.708	10.679	33.898	25.975	207.8	.741	4.58	73.1	15.9	1.06	13.9	.00			248
	250 ISL	10.582	10.552	33.900	25.999	205.6	.747	4.56	72.5							252
5	296	8.991	8.959	33.991	26.335	173.9	.835	4.07	62.5	26.9	1.48	20.9	.00			298
	300 ISL	8.898	8.866	33.994	26.352	172.2	.842	4.02	61.7							302
5	394	7.229	7.191	34.030	26.629	146.5	.992	2.75	40.6	47.5	2.12	30.2	.00			396
	400 ISL	7.141	7.103	34.034	26.644	145.1	1.000	2.65	39.1							403
5	491	6.033	5.990	34.095	26.839	126.9	1.124	1.35	19.4	68.8	2.68	37.6	.00			494
	500 ISL	5.947	5.904	34.102	26.855	125.4	1.135	1.27	18.2							504
5	589	5.234	5.185	34.181	27.005	111.5	1.241	.70	9.9	87.3	2.96	41.6	.00			593
	600 ISL	5.174	5.125	34.192	27.021	110.1	1.253	.68	9.6							604
	700 ISL	4.711	4.655	34.294	27.155	98.0	1.357	.54	7.5							705
5	791	4.442	4.380	34.378	27.251	89.3	1.442	.41	5.7	108.0	3.13	44.3	.00			796
	800 ISL	4.413	4.351	34.385	27.260	88.6	1.450	.42	5.9							806
	1000 ISL	3.924	3.848	34.489	27.396	76.8	1.616	.73	10.0							1008
5	1010	3.906	3.830	34.492	27.400	76.5	1.624	.75	10.2	119.9	3.12	44.6	.00			1018

RV NEW HORIZON SOSO STATION 51 (90 190)

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 06.7 N	128 42.4 W	19/08/82	2151 0413 GMT	4557 M	040	08 KT		1	1020.3 MB	19.6 C	17.6 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 D.BAR
	0 ISL	20.269	20.269	34.153	24.046	385.8	.000	5.36	103.8							0
6	1	20.269	20.269	34.153	24.046	385.7	.004	5.36	103.8	1.9	.18	.1	.00	.07	.01	1
	10 ISL	20.220	20.218	34.155	24.061	384.6	.039	5.36	103.7							10
6	16	20.187	20.184	34.156	24.071	383.9	.062	5.36	103.6	2.0	.18	.1	.00	.07	.00	16
	20 ISL	20.115	20.111	34.138	24.077	383.5	.077	5.36	103.5							20
	30 ISL	19.932	19.926	34.141	24.127	379.1	.115	5.41	104.0							30
6	32	19.895	19.889	34.150	24.144	377.6	.123	5.42	104.2	2.0	.18	.1	.00	.09	.01	32
	50 ISL	18.306	18.297	34.076	24.492	344.9	.188	5.70	106.4							50
6	51	18.210	18.201	34.072	24.513	343.0	.191	5.72	106.5	2.4	.18	.1	.00	.12	.01	51
6	72	17.622	17.610	34.072	24.657	329.9	.262	5.70	104.9	2.5	.19	.0	.00	.15	.04	72
	75 ISL	17.529	17.517	34.076	24.683	327.6	.272	5.68	104.4							75
6	92	17.029	17.014	34.113	24.831	314.0	.327	5.57	101.4	2.7	.21	.0	.00	.18	.11	93
	100 ISL	16.855	16.838	34.141	24.894	308.2	.351	5.51	99.9							101
6	103	16.779	16.763	34.145	24.915	306.4	.359	5.49	99.4	2.7	.21	.0	.00	.23	.17	103
6	113	16.168	16.151	34.080	25.006	297.9	.391	5.43	97.1	3.0	.25	.3	.14	.20	.17	114
6	123	15.473	15.454	34.015	25.114	287.9	.420	5.31	93.6	3.8	.33	1.1	.19	.15	.13	124
	125 ISL	15.385	15.366	34.010	25.129	286.5	.425	5.29	93.2							126
6	134	14.961	14.941	33.984	25.203	279.6	.450	5.23	91.3	4.5	.39	2.5	.03	.11	.12	134
6	144	14.187	14.166	33.932	25.328	267.8	.477	5.17	88.8	5.3	.47	3.7	.02	.08	.08	144
	150 ISL	13.848	13.827	33.905	25.378	263.2	.494	5.13	87.5							151
6	153	13.681	13.659	33.891	25.401	261.0	.503	5.11	86.8	6.2	.54	4.7	.02	.07	.07	154
6	176	11.391	11.369	33.751	25.737	229.0	.559	4.79	77.5	11.7	.92	10.9	.01	.03	.02	177
6	200	10.290	10.267	33.796	25.967	207.3	.612	4.59	72.5	16.1	1.15	14.9	.01	.01	.01	201
6	225	9.407	9.382	33.881	26.181	187.2	.661	4.37	67.7	21.7	1.35	18.5	.00			227
	250 ISL	9.011	8.984	33.958	26.305	175.7	.706	4.21	64.8							252
6	251	9.005	8.978	33.960	26.308	175.5	.707	4.21	64.7	25.5	1.45	20.3	.01			252
6	300	8.136	8.105	34.019	26.488	158.9	.790	3.63	54.7	35.5	1.75	24.8	.01			302
6	399	6.715	6.679	34.044	26.710	138.5	.936	2.18	31.8	55.2	2.36	33.4	.01			401
	400 ISL	6.699	6.662	34.045	26.713	138.2	.938	2.16	31.5							403
6	498	5.712	5.669	34.151	26.923	118.7	1.063	.88	12.5	77.9	2.88	39.9	.01			501
	500 ISL	5.696	5.653	34.154	26.927	118.3	1.066	.86	12.3							504

RV NEW HORIZON SOSO STATION 51 (90 190)

6	597	5.194	5.145	34.242	27.058	106.6	1.175	.46	6.5	91.5	3.06	42.3	.01	601
	600 ISL	5.179	5.130	34.245	27.062	106.3	1.178	.46	6.5					604
	700 ISL	4.745	4.689	34.326	27.176	96.0	1.280	.44	6.2					705
6	795	4.403	4.341	34.391	27.266	88.0	1.367	.43	5.9	110.7	3.17	44.3	.01	800
	800 ISL	4.383	4.321	34.395	27.271	87.5	1.371	.44	6.0					806
	1000 ISL	3.857	3.782	34.489	27.402	76.1	1.535	.75	10.3					1008
5	1003	3.853	3.778	34.489	27.403	76.0	1.537	.76	10.4	121.6	3.12	44.2	.00	1010
6	1018	3.837	3.761	34.489	27.404	75.9	1.548	.79	10.8	122.1	3.13	44.3	.01	1026
5	1200	3.386	3.298	34.530	27.482	69.0	1.681	.90	12.1	134.3	3.13	44.3	.00	1210
	1250 ISL	3.273	3.182	34.539	27.500	67.3	1.715	.95	12.8					1261
5	1398	2.964	2.864	34.562	27.548	63.0	1.811	1.13	15.1	144.8	3.09	44.0	.00	1410
	1500 ISL	2.776	2.670	34.576	27.576	60.3	1.874	1.26	16.7					1514
5	1595	2.621	2.509	34.588	27.600	58.2	1.930	1.38	18.3	154.4	3.05	43.4	.00	1611
	1750 ISL	2.426	2.303	34.603	27.629	55.6	2.018	1.56	20.5					1767
5	1794	2.377	2.250	34.607	27.637	54.9	2.043	1.61	21.2	159.7	3.00	42.8	.00	1812
5	1991	2.147	2.007	34.625	27.671	51.7	2.148	1.87	24.4	164.2	2.94	42.2	.00	2012
	2000 ISL	2.137	1.997	34.626	27.672	51.6	2.152	1.88	24.6					2021
5	2189	1.969	1.814	34.640	27.698	49.2	2.247	2.12	27.6	167.1	2.88	41.6	.00	2213
	2250 ISL	1.921	1.763	34.643	27.704	48.6	2.277	2.18	28.3					2275
5	2386	1.830	1.660	34.649	27.717	47.6	2.343	2.29	29.7	171.3	2.84	41.1	.00	2414
	2500 ISL	1.770	1.591	34.653	27.725	47.0	2.397	2.37	30.6					2529
5	2584	1.730	1.544	34.655	27.730	46.5	2.436	2.43	31.4	173.6	2.82	40.6	.00	2616
	2750 ISL	1.645	1.446	34.661	27.742	45.5	2.512	2.57	33.1					2784
5	2784	1.630	1.427	34.663	27.745	45.3	2.528	2.60	33.5	175.6	2.78	40.1	.00	2818
5	2984	1.565	1.344	34.669	27.756	44.6	2.618	2.77	35.6	175.7	2.74	39.6	.00	3023
	3000 ISL	1.561	1.339	34.670	27.757	44.5	2.625	2.78	35.7					3038
5	3185	1.521	1.281	34.6720	27.763	44.3	2.707							3228
	3250 ISL	1.512	1.266	34.673	27.765	44.3	2.736	2.96	37.9					3293
5	3387	1.498	1.238	34.676	27.769	44.2	2.796	3.05	39.1	172.4	2.68	38.9	.00	3435
	3500 ISL	1.487	1.216	34.678	27.772	44.2	2.846	3.13	40.1					3549
5	3589	1.482	1.202	34.681	27.775	44.2	2.885	3.19	40.8	170.0	2.64	38.4	.00	3641
	3750 ISL	1.487	1.189	34.686	27.781	44.4	2.957	3.24	41.5					3804
5	3790	1.488	1.186	34.687	27.781	44.4	2.975	3.25	41.6	169.4	2.63	38.2	.00	3847
5	3989	1.502	1.177	34.686	27.781	45.3	3.064	3.29	42.1	168.1	2.62	38.2	.00	4051
	4000 ISL	1.503	1.177	34.686	27.781	45.3	3.069	3.29	42.1					4060
5	4189	1.522	1.174	34.692	27.786	45.7	3.155	3.31	42.3	168.6	2.61	38.2	.00	4256
	4250 ISL	1.528	1.173	34.689	27.783	46.2	3.183	3.30	42.2					4317
5	4290	1.533	1.173	34.686	27.781	46.6	3.201	3.29	42.1	168.2	2.62	38.1	.00	4359
5	4388	1.545	1.173	34.6860	27.781	47.0	3.247							4460
5	4488	1.557	1.173	34.687	27.782	47.4	3.294	3.30	42.2	167.9	2.61	38.2	.00	4563
	4500 ISL	1.558	1.173	34.687	27.782	47.5	3.300	3.30	42.2					4573
5	4537	1.563	1.173	34.687	27.782	47.7	3.318	3.31	42.3	168.1	2.60	38.1	.00	4613

RV NEW HORIZON — SOSO — STATION 52 (90 180)

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 24.8 N	128 04.7 W	20/08/82	1502 GMT	4528 M	040	13 KT	040 03 04	2	1023.0 MB	19.7 C	17.6 C		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 D.BAR
	0 ISL	20.299	20.299	34.447	24.262	365.0	.000	5.30	102.8							0
1	1	20.299	20.299	34.447	24.262	365.1	.005	5.30	102.8	2.9	.19	.2	.00	.04	.01	2
	10 ISL	20.297	20.295	34.446	24.262	365.4	.037	5.31	103.0							10
1	17	20.295	20.292	34.445	24.263	365.7	.060	5.32	103.2	2.8	.19	.1	.00	.04	.01	17
	20 ISL	20.282	20.278	34.448	24.269	365.2	.073	5.32	103.3							20
	30 ISL	20.220	20.214	34.460	24.295	363.1	.109	5.34	103.4							30
1	33	20.197	20.191	34.465	24.305	362.3	.119	5.34	103.4	2.8	.17	.1	.00	.05	.00	33
	50 ISL	19.970	19.961	34.493	24.387	355.1	.181	5.37	103.7							50
1	53	19.932	19.922	34.504	24.405	353.5	.192	5.38	103.7	2.7	.16	.1	.00	.05	.01	53
1	72	18.148	18.136	34.143	24.583	337.0	.258	5.68	105.6	3.1	.19	.1	.00	.07	.02	73
	75 ISL	18.038	18.025	34.154	24.619	333.7	.268	5.67	105.2							75
1	92	17.509	17.494	34.243	24.816	315.5	.322	5.60	102.9	3.2	.18	.0	.00	.10	.04	92
	100 ISL	17.060	17.043	34.168	24.867	310.9	.348	5.57	101.5							101
1	102	16.982	16.966	34.154	24.874	310.2	.354	5.57	101.3	3.4	.20	.0	.00	.10	.09	102
1	112	17.087	17.069	34.228	24.906	307.5	.385	5.57	101.5	3.3	.19	.0	.00	.12	.10	113
1	122	16.464	16.445	34.1390	24.984	300.4	.416	5.55	99.9	3.3	.20	.0	.03	.12	.13	123
	125 ISL	16.263	16.243	34.100	25.000	298.9	.424	5.52	99.0							126
1	132	15.835	15.814	34.030	25.045	294.8	.447	5.42	96.3	3.6	.28	.3	.20	.12	.12	133
1	143	15.966	15.944	34.167	25.121	288.0	.478	5.27	93.9	4.0	.31	1.2	.12	.08	.09	144
	150 ISL	15.904	15.880	34.237	25.189	281.7	.497	5.12	91.2							151
1	154	15.871	15.846	34.283	25.232	277.7	.507	5.04	89.7	4.8	.36	2.4	.02	.06	.08	154
1	177	13.139	13.115	34.002	25.597	242.9	.569	4.83	81.2	8.8	.68	7.2	.01	.02	.02	178
1	200	11.289	11.264	33.864	25.844	219.4	.621	4.60	74.3	13.5	1.00	12.2	.00	.01	.01	201
1	223	10.137	10.112	33.8720	26.052	199.7	.670									224
	250 ISL	9.287	9.260	33.931	26.240	182.1	.721	4.05	62.6							252
1	258	9.109	9.081	33.950	26.284	178.0	.735	3.97	61.2	26.1	1.53	20.9	.00			259
	300 ISL	8.304	8.273	34.012	26.457	161.9	.807	3.59	54.3							302
1	306	8.210	8.178	34.017	26.476	160.2	.817	3.53	53.3	35.3	1.78	24.8	.00			308
	400 ISL	6.715	6.679	34.040	26.706	138.8	.957	2.31	33.7							403
1	402	6.684	6.647	34.039	26.710	138.5	.960	2.28	33.2	55.8	2.36	32.9	.00			405
1	497	5.685	5.642	34.104	26.889	121.8	1.084	1.18	16.8	76.5	2.80	39.0	.00			500
	500 ISL	5.667	5.625	34.108	26.894	121.4	1.087	1.16	16.5							504
1	596	5.158	5.109	34.229	27.052	107.1	1.197	.46	6.5	92.9	3.09	42.4	.00			600
	600 ISL	5.137	5.088	34.234	27.058	106.5	1.201	.46	6.4							604
	700 ISL	4.693	4.638	34.332	27.187	95.0	1.302	.39	5.4							705
1	768	4.435	4.375	34.383	27.256	88.7	1.364	.34	4.7	110.9	3.20	44.3	.00			773
	800 ISL	4.323	4.261	34.404	27.285	86.1	1.392	.35	4.9							806
	1000 ISL	3.776	3.701	34.479	27.403	75.8	1.554	.67	9.1							1008
1	1003	3.769	3.694	34.480	27.404	75.7	1.557	.68	9.3	124.9	3.17	44.5	.00			1011

RV NEW HORIZON SOSO STATION 49

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
27 59.9 N	131 00.5 W	19/08/82	0123 GMT	3814 M	010	11 KT	040 03 04	1	1019.0 MB	20.8 C	17.8 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 D.BAR
	0 ISL	21.189	21.189	35.022	24.460	346.6	.000	5.23	103.5							0
1	1	21.189	21.189	35.022	24.460	346.2	.005	5.23	103.5	2.3	.13	.2	.00	.05	.00	1
	10 ISL	21.087	21.085	35.015	24.484	344.3	.035	5.22	103.0							10
1	16	21.026	21.023	35.009	24.496	343.4	.056	5.21	102.8	2.5	.12	.1	.00	.06	.00	16
	20 ISL	21.014	21.010	35.009	24.500	343.3	.069	5.21	102.8							20
	30 ISL	20.953	20.947	34.996	24.506	343.0	.103	5.22	102.8							30
1	33	20.928	20.922	34.989	24.508	342.9	.113	5.22	102.8	2.3	.12	.1	.00	.06	.00	33
	50 ISL	20.497	20.487	34.877	24.540	340.6	.172	5.32	103.8							50
1	53	20.386	20.376	34.845	24.545	340.2	.181	5.34	104.0	2.5	.11	.0	.00	.08	.01	53
1	72	19.124	19.111	34.700	24.765	319.9	.244	5.56	105.7	2.5	.11	.0	.00	.11	.01	72
	75 ISL	18.956	18.942	34.681	24.793	317.3	.254	5.55	105.2							75
1	92	18.405	18.389	34.644	24.904	307.3	.306	5.52	103.5	2.7	.12	.0	.00	.14	.03	92
	100 ISL	18.373	18.356	34.679	24.939	304.2	.332	5.48	102.6							101
1	102	18.367	18.350	34.686	24.946	303.6	.336	5.47	102.5	2.7	.12	.0	.00	.15	.06	102
1	112	17.814	17.795	34.582	25.003	298.5	.367	5.47	101.3	2.9	.13	.0	.00	.17	.12	112
1	123	17.601	17.581	34.571	25.047	294.7	.399	5.41	99.8	3.1	.15	.0	.03	.22	.16	123
	125 ISL	17.497	17.476	34.549	25.055	294.0	.406	5.41	99.7							126
1	133	17.083	17.061	34.457	25.084	291.4	.430	5.44	99.3	3.3	.16	.1	.09	.22	.17	134
1	144	16.514	16.491	34.363	25.146	285.7	.460	5.45	98.3	3.6	.18	.1	.16	.17	.13	144
	150 ISL	16.303	16.279	34.320	25.162	284.4	.478	5.43	97.6							151
1	154	16.192	16.168	34.296	25.169	283.8	.489	5.42	97.1	3.8	.20	.2	.17	.09	.12	154
1	176	15.161	15.134	34.144	25.283	273.3	.550	5.28	92.6	4.6	.32	1.9	.02	.06	.07	176
1	198	13.947	13.918	34.139	25.540	249.3	.609	4.97	85.0	6.8	.53	5.5	.01	.03	.03	199
	200 ISL	13.815	13.787	34.134	25.563	247.1	.614	4.95	84.4							201
1	221	12.167	12.138	34.064	25.836	221.0	.662	4.68	77.1	11.5	.82	10.1	.00			222
1	244	10.916	10.887	33.998	26.016	204.0	.711	4.48	71.8	15.8	1.07	13.9	.00			245
	250 ISL	10.660	10.629	33.996	26.060	199.8	.724	4.44	70.8							252
1	290	9.388	9.355	34.028	26.300	177.2	.799	4.16	64.5	24.5	1.42	19.6	.00			291
	300 ISL	9.119	9.086	34.028	26.344	173.2	.817	4.06	62.6							302
1	397	7.157	7.119	34.017	26.628	146.5	.972	2.89	42.6	46.7	2.09	29.8	.00			399
	400 ISL	7.115	7.077	34.018	26.635	145.9	.976	2.85	41.9							403
1	492	6.041	5.998	34.074	26.821	128.6	1.102	1.56	22.4							495
	500 ISL	5.958	5.914	34.081	26.837	127.1	1.112	1.48	21.2							504
1	596	5.110	5.061	34.174	27.013	110.6	1.227	.73	10.3	88.2	2.99	41.8	.00			600
	600 ISL	5.091	5.042	34.178	27.019	110.1	1.231	.72	10.2							604
	700 ISL	4.696	4.641	34.289	27.152	98.1	1.335	.56	7.9							705
	800 ISL	4.495	4.432	34.387	27.253	89.5	1.429	.41	5.6							806
1	804	4.491	4.428	34.390	27.256	89.2	1.432	.40	5.5	107.6	3.17	44.3	.00			809
	1000 ISL	3.917	3.841	34.477	27.386	77.7	1.596	.75	10.2							1008
1	1012	3.883	3.807	34.478	27.391	77.3	1.505	.79	10.8	119.3	3.13	44.2	.00			1020

RV NEW HORIZON

SOSO

STATION 53
(20 170)

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 45.0 N	127 31.3 W	20/08/82	2054 GMT	4500 M	040	13 KT	040 02 05	2	1022.0 MB	21.4 C	19.1 C		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 D.BAR
	0 ISL	20.210	20.210	34.130	24.044	386.3	.000	5.35	103.4							0
5	1	20.210	20.210	34.130	24.044	385.9	.005	5.35	103.4	2.7	.20	.1	.00	.06	.00	1
	10 ISL	20.091	20.089	34.131	24.076	383.1	.038	5.36	103.4							10
5	16	20.023	20.020	34.129	24.094	381.7	.062	5.37	103.5	2.7	.21	.1	.00	.07	-.01	16
	20 ISL	20.015	20.011	34.133	24.099	381.4	.077	5.37	103.5							20
	30 ISL	19.942	19.937	34.125	24.112	380.5	.115	5.39	103.6							30
5	32	19.914	19.908	34.120	24.116	380.3	.124	5.39	103.6	2.9	.21	.1	.00	.08	.01	33
	50 ISL	19.235	19.226	34.357	24.474	346.8	.188	5.62	106.9							50
5	52	19.146	19.137	34.387	24.519	342.5	.195	5.65	107.2	3.1	.17	.1	.00	.10	.01	52
5	72	18.666	18.654	34.427	24.672	328.7	.263	5.58	105.0	3.2	.17	.1	.00	.10	.02	73
	75 ISL	18.595	18.582	34.423	24.687	327.3	.272	5.57	104.6							75
5	92	18.134	18.118	34.387	24.775	319.6	.327	5.51	102.6	3.4	.18	.1	.00	.14	.04	92
	100 ISL	17.907	17.890	34.369	24.816	315.8	.352	5.51	102.1							101
5	102	17.850	17.833	34.367	24.829	314.7	.359	5.51	102.0	3.4	.18	.1	.00	.14	.08	103
5	113	17.684	17.665	34.411	24.904	308.0	.393	5.40	99.7	3.6	.19	.1	.00	.20	.12	113
5	123	17.326	17.306	34.401	24.983	300.8	.424	5.26	96.4	3.8	.22	.3	.13	.21	.13	124
	125 ISL	17.165	17.144	34.372	25.000	299.2	.429	5.26	96.2							126
5	133	16.396	16.375	34.240	25.078	291.8	.454	5.28	95.0	4.2	.27	.8	.18	.17	.13	134
5	144	16.213	16.191	34.266	25.141	286.1	.484	5.13	91.9	4.6	.32	1.6	.08	.14	.12	144
	150 ISL	15.834	15.810	34.227	25.197	281.0	.502	5.09	90.5							151
5	154	15.531	15.507	34.191	25.237	277.1	.512	5.07	89.6	5.4	.39	2.7	.02	.10	.11	155
5	178	13.238	13.213	33.975	25.557	246.8	.576	4.86	81.9	8.6	.67	7.2	.01	.04	.03	179
	200 ISL	11.194	11.169	33.846	25.847	219.1	.627	4.60	74.1							201
5	201	11.077	11.053	33.841	25.864	217.4	.630	4.58	73.6	14.5	1.03	12.9	.00	.01	.01	202
5	225	9.919	9.893	33.867	26.086	196.4	.678	4.38	68.7	19.9	1.27	17.0	.00			226
5	249	9.380	9.352	33.905	26.205	185.4	.724	4.19	64.9	23.8	1.41	19.2	.00			250
	250 ISL	9.349	9.321	33.907	26.211	184.8	.726	4.17	64.6							252
5	298	8.117	8.087	34.003	26.479	159.7	.808	3.30	49.7	36.7	1.88	26.3	.00			299
	300 ISL	8.069	8.039	34.005	26.487	158.9	.812	3.27	49.2							302
5	398	6.605	6.569	34.042	26.722	137.2	.957	2.16	31.4	56.8	2.39	33.7	.00			400
	400 ISL	6.581	6.544	34.043	26.727	136.8	.960	2.13	31.0							403
5	498	5.656	5.613	34.128	26.912	119.7	1.085	.94	13.4	77.4	2.88	40.0	.00			501
	500 ISL	5.639	5.596	34.130	26.916	119.4	1.088	.92	13.2							504
5	598	5.045	4.996	34.235	27.069	105.3	1.199	.50	7.0	93.5	3.07	42.7	.00			602
	600 ISL	5.038	4.990	34.237	27.072	105.1	1.200	.50	7.0							604
	700 ISL	4.676	4.620	34.335	27.191	94.5	1.300	.46	6.5							705
5	797	4.431	4.369	34.411	27.279	85.8	1.388	.43	6.0	110.2	3.18	44.3	.00			803
	800 ISL	4.422	4.360	34.413	27.281	85.6	1.391	.43	6.0							806
	1000 ISL	3.906	3.830	34.484	27.393	77.0	1.554	.68	9.3							1008
5	1009	3.885	3.809	34.484	27.395	76.8	1.561	.70	9.6	122.0	3.16	44.6	.00			1017

RV NEW HORIZON — SOSO — STATION 50

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 01.0 N	130 00.8 W	19/08/82	1105 GMT	4436 M	030	14 KT		2	1020.0 MB	20.3 C	17.7 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 D.BAR
	0 ISL	20.433	20.433	34.351	24.154	376.5	.000	5.32	103.4							0
5	1	20.433	20.433	34.351	24.154	375.5	.004	5.32	103.4	2.4	.17	.3	.00	.06	.01	1
	10 ISL	20.476	20.474	34.460	24.226	368.9	.037	5.31	103.3							10
5	16	20.528	20.525	34.532	24.267	365.3	.060	5.30	103.3	2.2	.15	.3	.00	.06	.01	16
	20 ISL	20.588	20.584	34.571	24.281	364.1	.074	5.30	103.5							20
	30 ISL	20.718	20.712	34.671	24.323	360.5	.110	5.30	103.8							30
5	32	20.741	20.735	34.693	24.333	359.6	.118	5.30	103.8	2.4	.14	.3	.00	.06	.02	32
	50 ISL	20.569	20.560	34.882	24.525	342.1	.180	5.29	103.4							50
5	53	20.545	20.535	34.911	24.553	339.5	.189	5.29	103.4	2.4	.11	.3	.00	.06	.01	53
5	72	19.631	19.618	34.740	24.665	329.5	.255	5.43	104.2	2.4	.12	.2	.00	.07	.02	73
	75 ISL	19.454	19.440	34.701	24.681	328.1	.264	5.46	104.4							75
5	92	18.538	18.522	34.527	24.781	319.0	.318	5.59	105.0	2.6	.12	.2	.00	.10	.03	92
	100 ISL	18.361	18.343	34.534	24.831	314.5	.344	5.57	104.2							101
5	102	18.339	18.322	34.539	24.841	313.7	.350	5.56	104.0	2.8	.12	.2	.00	.12	.05	102
5	112	18.232	18.213	34.574	24.894	308.9	.381	5.49	102.5	3.0	.12	.2	.00	.14	.06	112
5	122	18.029	18.008	34.570	24.942	304.7	.412	5.49	102.1	3.2	.12	.1	.00	.13	.10	122
	125 ISL	17.920	17.898	34.554	24.957	303.4	.422	5.48	101.7							126
5	132	17.706	17.684	34.523	24.985	300.9	.442	5.46	100.9	3.1	.15	.1	.00	.22	-.01	132
5	141	17.549	17.525	34.521	25.022	297.7	.471	5.23	96.4	3.3	.19	.2	.20	.15	.13	142
	150 ISL	17.164	17.139	34.469	25.075	292.9	.496	5.25	95.9							151
5	152	17.081	17.056	34.457	25.085	291.9	.501	5.25	95.8	3.5	.21	.3	.22	.12	.11	152
5	177	15.906	15.878	34.310	25.246	277.2	.572	5.04	89.8	4.3	.33	2.5	.02	.06	.07	177
	200 ISL	13.945	13.917	34.092	25.504	252.8	.634	4.92	84.2							201
5	201	13.867	13.838	34.084	25.514	251.8	.636	4.92	84.0	7.2	.55	5.7	.01	.03	.04	202
5	223	11.955	11.926	33.947	25.786	225.8	.690	4.69	76.9	11.8	.85	10.4	.00			224
5	247	10.708	10.679	33.898	25.975	207.8	.741	4.58	73.1	15.9	1.06	13.9	.00			248
	250 ISL	10.582	10.552	33.900	25.999	205.6	.747	4.56	72.5							252
5	296	8.991	8.959	33.991	26.335	173.9	.835	4.07	62.5	26.9	1.48	20.9	.00			298
	300 ISL	8.898	8.866	33.994	26.352	172.2	.842	4.02	61.7							302
5	394	7.229	7.191	34.030	26.629	146.5	.992	2.75	40.6	47.5	2.12	30.2	.00			396
	400 ISL	7.141	7.103	34.034	26.644	145.1	1.000	2.65	39.1							403
5	491	6.033	5.990	34.095	26.839	126.9	1.124	1.35	19.4	68.8	2.68	37.6	.00			494
	500 ISL	5.947	5.904	34.102	26.855	125.4	1.135	1.27	18.2							504
5	589	5.234	5.185	34.181	27.005	111.5	1.241	.70	9.9	87.3	2.96	41.6	.00			593
	600 ISL	5.174	5.125	34.192	27.021	110.1	1.253	.68	9.6							604
	700 ISL	4.711	4.655	34.294	27.155	98.0	1.357	.54	7.5							705
5	791	4.442	4.380	34.378	27.251	89.3	1.442	.41	5.7	108.0	3.13	44.3	.00			796
	800 ISL	4.413	4.351	34.385	27.260	88.6	1.450	.42	5.9							806
	1000 ISL	3.924	3.848	34.489	27.396	76.8	1.616	.73	10.0							1008
5	1010	3.906	3.830	34.492	27.400	76.5	1.624	.75	10.2	119.9	3.12	44.6	.00			1018

RV NEW HORIZON SOSO STATION 54 (90 160)

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
29 04.8 N	126 48.0 W	21/08/82	0416 1259 GMT	4368 M	030	15 KT		2	1020.9 MB	19.0 C	16.9 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 D.BAR
	0 ISL	19.664	19.664	33.774	23.916	398.1	.000	5.39	102.9							0
6	1	19.664	19.664	33.774	23.916	398.1	.003	5.39	102.9	2.7	.30	.3	.00	.06	.00	1
	10 ISL	19.678	19.676	33.775	23.913	398.7	.040	5.40	103.1							10
1	14	19.683	19.681	33.776	23.913	398.9	.054	5.40	103.2	2.6	.29	.2	.00			14
6	16	19.657	19.654	33.770	23.915	398.8	.063	5.40	103.1	2.7	.30	.2	.00	.05	.00	16
	20 ISL	19.592	19.589	33.769	23.931	397.4	.080	5.41	103.1							20
	30 ISL	19.265	19.259	33.763	24.011	390.1	.119	5.46	103.5							30
6	32	19.145	19.139	33.761	24.040	387.4	.129	5.48	103.6	2.7	.29	.2	.00	.06	.01	33
	50 ISL	17.704	17.696	33.663	24.323	361.0	.194	5.76	106.0							50
6	52	17.514	17.506	33.652	24.361	357.5	.203	5.80	106.3	2.7	.28	.1	.00	.07	.01	53
6	72	17.064	17.053	33.685	24.494	345.4	.273	5.78	105.0	2.7	.28	.3	.00	.09	.01	73
	75 ISL	17.045	17.033	33.690	24.502	344.7	.282	5.77	104.8							75
6	92	16.921	16.906	33.772	24.595	336.5	.341	5.70	103.3	2.9	.27	.2	.00	.12	.03	93
	100 ISL	16.528	16.512	33.775	24.689	327.7	.367	5.64	101.5							101
6	103	16.369	16.353	33.777	24.727	324.1	.375	5.62	100.7	3.6	.30	.1	.00	.14	.06	103
6	113	15.679	15.661	33.839	24.932	304.8	.407	5.48	96.9	4.3	.34	.3	.06	.21	.16	113
6	123	14.770	14.751	33.738	25.054	293.4	.437	5.42	94.1	4.5	.40	1.1	.19	.18	.16	123
	125 ISL	14.672	14.653	33.742	25.078	291.2	.444	5.39	93.3							126
6	133	14.378	14.358	33.768	25.161	283.4	.466	5.25	90.4	5.4	.51	3.0	.18	.15	.15	134
6	143	13.779	13.759	33.743	25.266	273.6	.495	5.14	87.4	6.6	.57	4.5	.05	.12	.12	144
	150 ISL	13.408	13.387	33.727	25.330	267.6	.513	5.10	86.1							151
6	153	13.217	13.196	33.720	25.363	264.5	.523	5.08	85.4	7.3	.65	6.0	.03	.11	.10	154
6	178	11.768	11.745	33.729	25.650	237.4	.584	4.72	77.0	11.6	.93	10.7	.01	.06	.05	179
	200 ISL	10.263	10.240	33.738	25.927	211.2	.633	4.37	68.9							201
6	202	10.161	10.138	33.740	25.945	209.3	.637	4.34	68.4	18.3	1.27	16.5	.00	.02	.02	203
6	226	9.256	9.231	33.855	26.185	186.8	.685	3.85	59.5	25.4	1.56	21.0	.00			227
	250 ISL	8.781	8.754	33.931	26.320	174.2	.728	3.42	52.3							252
6	252	8.753	8.726	33.936	26.328	173.4	.732	3.39	51.8	31.3	1.76	24.1	.00			253
	300 ISL	8.033	8.003	34.031	26.513	156.5	.811	2.64	39.7							302
6	301	8.017	7.986	34.033	26.517	156.1	.813	2.62	39.4	41.4	2.09	28.8	.00			303
	400 ISL	6.867	6.830	34.127	26.755	134.4	.956	1.38	20.2							403
6	401	6.858	6.821	34.128	26.757	134.2	.958	1.37	20.1	59.7	2.62	35.5	.00			403
6	500	6.255	6.211	34.226	26.914	120.2	1.084	.63	9.1	73.0	2.92	39.2	.00			503

RV NEW HORIZON SOSO STATION 54 (90 160)

6	600	5.368	5.318	34.270	27.060	106.7	1.197	.37	5.2	89.5	3.09	42.1	.00	603
	700 ISL	4.843	4.786	34.314	27.156	98.1	1.300	.35	4.9					705
6	791	4.495	4.433	34.389	27.254	89.2	1.385	.34	4.7	108.8	3.18	44.4	.00	797
	800 ISL	4.455	4.392	34.401	27.268	87.9	1.393	.38	5.3					806
1	801	4.449	4.386	34.402	27.270	87.8	1.394	.39	5.4	110.1	3.16	44.2	.00	807
1	999	3.917	3.841	34.481	27.390	77.3	1.557	.59	8.1	122.6	3.17	44.7	.00	1007
	1000 ISL	3.916	3.841	34.482	27.390	77.3	1.558	.59	8.1					1008
6	1015	3.896	3.819	34.483	27.394	77.1	1.569	.62	8.5	121.6	3.17	44.6	.00	1023
1	1200	3.435	3.347	34.522	27.471	70.2	1.706	.85	11.5	133.8	3.14	44.5	.00	1210
	1250 ISL	3.321	3.230	34.531	27.489	68.5	1.740	.91	12.2					1261
1	1396	3.017	2.917	34.554	27.537	64.2	1.837	1.07	14.3	145.3	3.11	44.2	.00	1409
	1500 ISL	2.830	2.723	34.569	27.566	61.5	1.903	1.18	15.7					1514
1	1595	2.675	2.562	34.582	27.591	59.3	1.960	1.29	17.1	154.4	3.07	43.7	.00	1610
	1750 ISL	2.439	2.316	34.598	27.624	56.0	2.049	1.49	19.6					1767
1	1796	2.376	2.249	34.603	27.634	55.2	2.075	1.55	20.4	161.9	3.00	43.0	.00	1814
1	1995	2.138	1.998	34.625	27.672	51.6	2.181	1.86	24.3	165.9	2.94	42.3	.00	2016
	2000 ISL	2.133	1.993	34.625	27.672	51.5	2.184	1.87	24.4					2021
1	2196	1.963	1.808	34.639	27.698	49.3	2.282	2.09	27.2	168.6	2.88	41.5	.00	2220
	2250 ISL	1.925	1.766	34.642	27.704	48.8	2.309	2.15	27.9					2275
1	2393	1.835	1.665	34.650	27.717	47.6	2.378	2.30	29.8	171.4	2.83	41.0	.00	2421
	2500 ISL	1.770	1.591	34.653	27.725	46.9	2.428	2.39	30.9					2529
1	2593	1.719	1.532	34.656	27.732	46.4	2.472	2.46	31.8	174.6	2.79	40.6	.00	2625
	2750 ISL	1.655	1.456	34.661	27.741	45.7	2.544	2.58	33.2					2784
1	2792	1.641	1.437	34.662	27.744	45.5	2.563	2.61	33.6	174.6	2.76	40.2	.00	2827
1	2993	1.573	1.351	34.670	27.756	44.7	2.654	2.78	35.7	174.7	2.72	39.6	.00	3032
	3000 ISL	1.571	1.349	34.670	27.756	44.6	2.657	2.78	35.8					3038
1	3190	1.531	1.291	34.673D	27.763	44.4	2.741	2.90	37.2	174.0	2.69	39.3	.00	3233
	3250 ISL	1.521	1.275	34.674	27.765	44.3	2.768	2.95	37.8					3293
1	3393	1.504	1.244	34.678	27.770	44.2	2.831	3.05	39.1	173.6	2.66	39.0	.00	3440
	3500 ISL	1.498	1.227	34.680	27.773	44.3	2.879	3.10	39.7					3549
1	3593	1.496	1.215	34.683	27.776	44.3	2.920	3.13	40.1	172.3	2.65	38.6	.00	3646
	3750 ISL	1.498	1.200	34.684	27.778	44.7	2.990	3.19	40.8					3804
1	3792	1.499	1.196	34.684	27.778	44.8	3.009	3.20	41.0	171.1	2.62	38.4	.00	3850
1	3992	1.509	1.184	34.686	27.781	45.4	3.099	3.24	41.5	170.2	2.61	38.3	.00	4055
	4000 ISL	1.509	1.184	34.686	27.781	45.4	3.103	3.24	41.5					4060
1	4091	1.517	1.180	34.686	27.781	45.8	3.144	3.25	41.6	170.0	2.61	38.4	.00	4156
1	4161	1.523	1.178	34.685D	27.780	46.1	3.176							4227
	4250 ISL	1.532	1.177	34.685	27.780	46.5	3.217	3.27	41.8					4317
1	4321	1.541	1.177	34.686	27.781	46.8	3.251	3.27	41.8	169.7	2.60	38.2	.00	4392
1	4371	1.547	1.177	34.687	27.782	46.9	3.274	3.27	41.8	169.3	2.60	38.2	.00	4443

RV NEW HORIZON SOSO STATION 55 (90 150)

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
29 23.6 N	126 01.2 W	21/08/82	2017 GMT	4428 M	020	15 KT	020 03 03	1	1021.0 MB	20.3 C	17.2 C	6/8	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 D.BAR
	0 ISL	19.713	19.713	33.739	23.876	402.1	.000	5.40	103.2							0
4	2	19.713	19.713	33.739	23.876	401.9	.009	5.40	103.2	3.5	.30	.1	.00	.05	.00	2
	10 ISL	19.676	19.674	33.737	23.885	401.4	.040	5.40	103.1							10
4	15	19.651	19.648	33.737	23.891	401.0	.061	5.40	103.1	3.5	.30	.1	.00	.06	.00	15
	20 ISL	19.563	19.560	33.734	23.912	399.2	.080	5.41	103.2							20
	30 ISL	19.382	19.376	33.727	23.954	395.6	.120	5.45	103.4							30
4	35	19.293	19.287	33.724	23.974	393.8	.139	5.46	103.5	3.5	.30	.1	.00	.06	.00	35
	50 ISL	17.936	17.928	33.672	24.274	365.7	.197	5.70	105.2							50
4	55	17.436	17.427	33.655	24.382	355.5	.216	5.78	105.7	3.5	.29	.1	.00	.07	.01	56
	75 ISL	16.780	16.768	33.609	24.502	344.7	.285	5.82	105.0							75
4	76	16.751	16.739	33.604	24.505	344.4	.288	5.82	105.0	3.5	.31	.1	.00	.10	.02	76
4	95	15.207	15.192	33.455	24.740	322.5	.353	5.83	101.9	3.8	.38	.1	.00	.14	.05	96
	100 ISL	14.519	14.504	33.424	24.864	310.7	.367	5.63	97.1							101
4	105	13.805	13.790	33.403	24.997	298.0	.382	5.41	91.9	5.8	.60	2.7	.16	.25	.08	105
4	115	13.051	13.035	33.419	25.162	282.5	.411	5.18	86.6	7.4	.74	5.7	.14	.25	.10	115
4	125	12.617	12.600	33.444	25.267	272.7	.439	4.97	82.4	9.0	.84	8.0	.07	.21	.14	125
4	135	12.268	12.250	33.457	25.344	265.5	.466	4.87	80.1	9.8	.91	9.1	.04	.17	.14	136
4	145	11.762	11.744	33.495	25.469	253.8	.491	4.68	76.2	11.8	1.03	11.2	.02	.12	.15	145
	150 ISL	11.422	11.403	33.518	25.550	246.1	.505	4.56	73.7							151
4	154	11.135	11.116	33.541	25.619	239.6	.516	4.46	71.7	13.9	1.15	13.5	.02	.10	.10	155
4	179	9.926	9.905	33.718	25.967	206.7	.571	3.92	61.4	21.5	1.46	19.1	.00	.02	.03	180
	200 ISL	9.363	9.341	33.820	26.140	190.5	.612	3.57	55.2							201
4	204	9.283	9.260	33.837	26.166	188.1	.620	3.52	54.4	27.0	1.66	22.4	.00	.00	.02	205
4	229	8.802	8.777	33.946	26.328	173.0	.665	3.48	53.2	31.0	1.73	23.7	.00			230
	250 ISL	8.393	8.367	33.994	26.429	163.7	.700	3.21	48.6							252
4	254	8.317	8.291	34.000	26.446	162.2	.707	3.14	47.5	36.0	1.87	26.1	.00			255
	300 ISL	7.714	7.684	34.049	26.573	150.5	.779	2.50	37.4							302
4	304	7.672	7.642	34.051	26.581	149.8	.785	2.45	36.6	45.1	2.17	30.1	.00			306
	400 ISL	6.636	6.599	34.126	26.785	131.3	.920	1.32	19.2							403
4	405	6.594	6.557	34.129	26.792	130.6	.926	1.27	18.5	63.4	2.66	36.5	.00			407
	500 ISL	5.946	5.903	34.232	26.958	115.8	1.043	.55	7.9							504
4	505	5.921	5.878	34.236	26.965	115.1	1.048	.53	7.6	78.9	2.96	40.2	.00			508
	600 ISL	5.413	5.363	34.305	27.082	104.7	1.153	.33	4.7							604
4	604	5.393	5.342	34.308	27.087	104.3	1.158	.33	4.7	90.7	3.09	42.1	.00			608
	700 ISL	4.943	4.886	34.362	27.183	95.7	1.253	.35	5.0							705
	800 ISL	4.534	4.471	34.408	27.266	88.3	1.346	.38	5.3							806
4	804	4.519	4.456	34.410	27.269	88.1	1.349	.38	5.3	109.0	3.17	44.1	.00			810
	1000 ISL	3.902	3.826	34.483	27.393	77.0	1.511	.63	8.6							1008
4	1023	3.845	3.768	34.490	27.404	76.0	1.528	.67	9.1	123.8	3.15	44.4	.00			1031

RV NEW HORIZON SOSO STATION 56 (90 140)

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
29 46.5 N	125 20.2 W	22/08/82	0236 GMT	4373 M	360	17 KT	360 05 04	1	1017.5 MB	18.8 C	16.8 C	5/8	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 D.BAR
	0 ISL	19.618	19.618	33.878	24.007	389.7	.000	5.43	103.7							0
1	3	19.618	19.618	33.878	24.007	389.5	.010	5.43	103.7	3.5	.28	.1	.00	.06	.00	3
	10 ISL	19.624	19.622	33.890	24.015	389.0	.039	5.39	103.0							10
1	17	19.630	19.627	33.903	24.024	388.4	.067	5.37	102.5	3.4	.28	.0	.00	.06	.00	17
	20 ISL	19.615	19.611	33.903	24.028	388.2	.078	5.37	102.6							20
	30 ISL	19.557	19.551	33.899	24.040	387.4	.117	5.38	102.7							30
1	35	19.530	19.524	33.897	24.045	387.0	.134	5.39	102.8	3.2	.28	.0	.00	.06	.00	35
	50 ISL	17.857	17.849	33.687	24.304	362.8	.192	5.72	105.4							50
1	54	17.412	17.403	33.640	24.376	356.1	.206	5.80	106.0	3.1	.30	.0	.00	.06	.00	54
1	75	17.064	17.052	33.687	24.495	345.3	.279	5.79	105.2	3.2	.28	.0	.00	.09	.01	75
1	95	16.779	16.764	33.759	24.618	334.3	.348	5.69	102.8	3.2	.28	.0	.00	.14	.04	95
	100 ISL	16.599	16.583	33.765	24.665	330.0	.365	5.69	102.4							101
1	105	16.300	16.284	33.746	24.719	324.9	.382	5.68	101.7	3.5	.29	.0	.00	.14	.07	106
1	115	15.295	15.277	33.5990	24.833	314.3	.413	5.64	98.9	3.8	.33	.0	.00	.20	.14	115
1	124	13.940	13.922	33.457	25.012	297.3	.442	5.47	93.2	5.0	.53	1.8	.21	.24	.18	125
	125 ISL	13.881	13.864	33.457	25.024	296.1	.444	5.45	92.8							126
1	133	13.210	13.192	33.494	25.189	280.5	.467	5.23	87.8	6.7	.67	4.9	.11	.19	.16	134
1	143	12.664	12.645	33.512	25.311	269.0	.495	5.03	83.5	8.7	.80	7.6	.04	.15	.10	144
	150 ISL	12.429	12.409	33.532	25.372	263.3	.513	4.94	81.6							151
1	154	12.304	12.284	33.545	25.406	260.1	.522	4.89	80.6	9.6	.87	8.9	.03	.10	.12	154
1	178	10.698	10.677	33.637	25.772	225.5	.582	4.32	68.8	16.4	1.25	15.4	.01	.04	.04	179
	200 ISL	9.742	9.719	33.740	26.015	202.5	.629	3.84	60.0							201
1	202	9.685	9.662	33.748	26.031	201.0	.632	3.81	59.4	23.1	1.54	20.4	.00	.01	.01	203
1	225	8.950	8.926	33.890	26.261	179.4	.676	3.30	50.6	29.7	1.79	24.3	.00			226
1	249	8.614	8.588	33.956	26.365	169.8	.718	3.05	46.5	33.4	1.90	26.0	.00			250
	250 ISL	8.600	8.574	33.958	26.369	169.5	.720	3.04	46.3							252
1	298	7.873	7.843	34.051	26.552	152.6	.797	2.44	36.6	43.0	2.16	29.9	.00			299
	300 ISL	7.840	7.810	34.053	26.558	152.1	.800	2.42	36.2							302
1	395	6.619	6.583	34.087	26.756	134.0	.935	1.62	23.6	59.9	2.55	35.6	.00			397
	400 ISL	6.565	6.528	34.092	26.767	132.9	.943	1.56	22.7							403
1	495	5.814	5.771	34.192	26.943	116.9	1.061	.68	9.7	78.0	2.93	40.3	.00			498
	500 ISL	5.785	5.742	34.197	26.950	116.3	1.067	.66	9.4							504
1	592	5.380	5.330	34.266	27.055	107.1	1.170	.40	5.7	88.6	3.08	42.1	.00			596
	600 ISL	5.348	5.298	34.272	27.063	106.3	1.178	.40	5.6							604
	700 ISL	4.965	4.908	34.352	27.172	96.7	1.280	.37	5.2							705
1	792	4.647	4.584	34.415	27.259	89.1	1.365	.35	4.9	105.7	3.18	44.2	.00			797
	800 ISL	4.618	4.555	34.420	27.266	88.5	1.373	.35	4.9							806
	1000 ISL	3.985	3.909	34.482	27.384	78.1	1.539	.59	8.1							1008
1	1017	3.937	3.860	34.484	27.390	77.5	1.552	.62	8.5	120.9	3.17	44.7	.00			1025

RV NEW HORIZON SOSO STATION 57 (90 130)

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 06.2 N	124 38.5 W	22/08/82	1016 GMT	4320 M	330	18 KT		2	1018.0 MB	18.8 C	17.0 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 D.BAR
	0 ISL	19.326	19.326	33.770	24.000	390.1	.000	5.40	102.5							0
5	2	19.326	19.326	33.770	24.000	390.1	.007	5.40	102.5	2.9	.29	.2	.00	.05	.01	2
	10 ISL	19.329	19.327	33.770	23.999	390.5	.039	5.40	102.6							10
5	17	19.331	19.328	33.770	23.999	390.8	.066	5.41	102.7	2.9	.29	.1	.00	.05	.01	17
	20 ISL	19.325	19.322	33.804	24.027	388.3	.078	5.41	102.8							20
	30 ISL	19.306	19.301	33.942	24.137	378.1	.116	5.43	103.0							30
5	33	19.300	19.294	33.996	24.180	374.1	.128	5.43	103.1	2.8	.25	.0	.00	.05	.01	33
	50 ISL	18.116	18.107	33.857	24.372	356.4	.190	5.70	105.8							50
5	52	17.938	17.929	33.832	24.396	354.1	.198	5.74	106.1	3.0	.25	.0	.00	.06	.02	53
5	73	17.538	17.526	33.909	24.553	339.9	.269	5.70	104.6	2.9	.24	.0	.00	.08	.02	73
	75 ISL	17.587	17.575	33.945	24.569	338.4	.277	5.68	104.4							75
5	93	17.887	17.871	34.232	24.717	325.1	.337	5.52	102.2	3.1	.20	.0	.00	.12	.06	94
	100 ISL	17.744	17.727	34.279	24.788	318.6	.359	5.46	100.8							101
5	104	17.602	17.585	34.286	24.827	314.9	.371	5.43	100.0	3.2	.20	.0	.00	.14	.10	104
5	114	17.026	17.008	34.200	24.900	308.2	.403	5.39	98.1	3.0	.24	.1	.03	.19	.11	115
5	124	15.565	15.545	33.966	25.055	293.4	.432	5.30	93.6	3.9	.36	1.2	.21	.18	.17	124
	125 ISL	15.496	15.477	33.958	25.065	292.6	.436	5.29	93.4							126
5	134	15.038	15.017	33.918	25.135	286.1	.462	5.23	91.4	4.8	.44	2.3	.18	.14	.13	135
5	144	14.090	14.069	33.835	25.273	273.0	.490	5.08	87.0	6.0	.56	4.7	.04	.10	.11	145
	150 ISL	13.619	13.598	33.797	25.341	266.6	.506	5.01	84.9							151
5	154	13.335	13.314	33.780	25.386	262.4	.516	4.96	83.6	7.3	.68	6.5	.02	.08	.10	155
5	179	12.007	11.984	33.855	25.703	232.5	.577	4.63	75.9	11.2	.88	10.3	.01	.04	.04	179
	200 ISL	10.875	10.851	33.842	25.901	213.8	.625	4.35	69.7							201
5	203	10.716	10.692	33.838	25.926	211.5	.632	4.31	68.7	16.6	1.17	15.1	.00	.01	.02	204
5	227	9.565	9.539	33.835	26.119	193.1	.680	3.88	60.3	23.4	1.49	20.2	.00			228
	250 ISL	8.879	8.852	33.920	26.296	176.5	.723	3.44	52.8							252
5	252	8.824	8.797	33.931	26.313	174.9	.727	3.40	52.0	30.1	1.75	24.2	.00			254
	300 ISL	7.991	7.961	34.035	26.522	155.6	.805	2.82	42.3							302
5	302	7.969	7.939	34.037	26.527	155.1	.808	2.80	42.1	40.2	2.04	28.5	.00			303
5	400	6.731	6.694	34.106	26.756	134.1	.950	1.50	21.9	59.4	2.57	35.7	.00			403
	500 ISL	6.031	5.987	34.204	26.926	118.9	1.077	.67	9.7							504
5	506	6.002	5.958	34.210	26.934	118.1	1.384	.64	9.2	76.2	2.93	40.0	.00			509
	600 ISL	5.591	5.540	34.302	27.059	107.2	1.190	.32	4.5							604
5	605	5.572	5.520	34.307	27.065	106.6	1.195	.31	4.4	87.1	3.08	41.8	.00			609
	700 ISL	5.174	5.116	34.371	27.163	98.0	1.292	.30	4.2							705
5	781	4.850	4.786	34.409	27.231	91.9	1.369	.29	4.1	101.9	3.17	44.0	.00			787
	800 ISL	4.776	4.711	34.418	27.247	90.6	1.387	.30	4.2							806
	1000 ISL	4.061	3.984	34.478	27.373	79.3	1.556	.53	7.2							1008
5	1008	4.035	3.958	34.479	27.376	78.9	1.563	.54	7.4	119.4	3.17	44.7	.00			1016

RV NEW HORIZON SOSO STATION 58 (90 120)

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 24.8 N	123 58.7 W	22/08/82	1608 2132 GMT	4234 M	360	16 KT	360 06 06	1	1018.4 MB	19.2 C	17.6 C	7/9	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 D.BAR
	0 ISL	18.903	18.903	33.617	23.990	391.0	.000	5.46	102.7							0
1	1	18.903	18.903	33.617	23.990	391.1	.004	5.46	102.7	3.1	.31	.0	.00	.06	.00	1
	10 ISL	18.902	18.900	33.616	23.990	391.3	.039	5.46	102.7							10
1	17	18.901	18.898	33.616	23.991	391.6	.068	5.46	102.7	3.0	.32	.0	.00	.05	.00	17
6	20	18.979	18.976	33.639	23.989	391.8	.077	5.44	102.5	2.8	.30	.1	.00			20
	30 ISL	18.921	18.915	33.622	23.991	392.0	.117	5.46	102.6							30
1	33	18.903	18.897	33.617	23.992	392.1	.130	5.46	102.7	3.0	.31	.0	.00	.05	.01	33
	50 ISL	17.929	17.920	33.620	24.236	369.3	.194	5.72	105.6							50
1	53	17.758	17.749	33.626	24.282	365.0	.204	5.76	106.0	3.0	.30	.0	.00	.07	.01	53
1	72	17.274	17.262	33.700	24.456	349.1	.272	5.80	105.8	2.9	.28	.0	.00	.08	.02	72
	75 ISL	17.289	17.277	33.726	24.472	347.6	.283	5.79	105.7							75
1	93	17.372	17.357	33.940	24.617	334.4	.343	5.67	103.8	3.1	.25	.0	.00	.13	.05	93
	100 ISL	17.159	17.143	34.043	24.747	322.3	.368	5.59	101.9							101
1	103	16.990	16.974	34.058	24.799	317.5	.376	5.56	101.1	3.2	.25	.0	.00	.16	.09	103
1	112	15.743	15.725	33.896	24.962	302.0	.404	5.52	97.8	3.6	.31	.3	.02	.20	.14	112
1	122	15.479	15.460	33.876	25.005	298.2	.436	5.39	95.0	4.2	.37	.9	.17	.18	.16	123
	125 ISL	15.348	15.329	33.881	25.038	295.1	.444	5.35	94.1							126
1	133	14.902	14.882	33.901	25.151	284.5	.468	5.24	91.3	5.1	.44	2.4	.17	.16	.14	134
1	143	14.441	14.420	33.904	25.253	275.0	.496	5.13	88.5	5.5	.49	3.7	.05	.13	.11	144
	150 ISL	13.834	13.813	33.851	25.339	266.9	.514	5.05	86.1							151
1	155	13.377	13.355	33.810D	25.401	261.0	.526									155
1	175	12.021	11.998	33.779	25.642	238.2	.578	4.69	76.9	11.2	.90	10.4	.01	.05	.05	176
	200 ISL	10.357	10.333	33.778	25.941	209.8	.633	4.19	66.3							201
1	202	10.212	10.189	33.780	25.968	207.2	.638	4.14	65.3	19.0	1.32	17.2	.00	.01	.02	203
1	228	9.288	9.263	33.838	26.167	188.5	.688	3.67	56.7	25.4	1.60	21.5	.00			229
	250 ISL	8.789	8.762	33.922	26.312	175.0	.729	3.36	51.3							252
1	253	8.739	8.712	33.933	26.328	173.4	.734	3.32	50.7	31.1	1.81	24.7	.00			254
	300 ISL	8.029	7.999	34.038	26.519	155.9	.811	2.64	39.7							302
1	303	7.995	7.964	34.042	26.527	155.1	.816	2.60	39.1	40.9	2.10	29.1	.00			304
	400 ISL	6.749	6.712	34.109	26.756	134.1	.956	1.48	21.7							403
1	402	6.722	6.685	34.109	26.760	133.8	.960	1.46	21.3							405
	500 ISL	5.907	5.864	34.198	26.936	117.8	1.082	.67	9.6							504

RV NEW HORIZON SOSO STATION 58
(90 120)

1	502	5.897	5.854	34.199	26.938	117.5	1.084	.66	9.5	76.8	2.94	40.1	.00	505
	600 ISL	5.416	5.366	34.301	27.078	105.1	1.194	.34	4.8					604
1	601	5.412	5.361	34.302	27.080	104.9	1.195	.34	4.8	89.0	3.10	42.3	.00	605
	700 ISL	5.016	4.959	34.355	27.168	97.2	1.295	.33	4.7					705
1	798	4.626	4.562	34.407	27.255	89.5	1.386	.33	4.6	106.4	3.18	44.2	.00	803
	800 ISL	4.654	4.590	34.403	27.249	90.2	1.388	.32	4.5					806
6	805	4.717	4.652	34.394	27.234	91.7	1.393	.31	4.3	104.7	3.15	43.5	.00	811
	1000 ISL	4.067	3.991	34.467	27.363	80.2	1.560	.53	7.3					1008
6	1004	4.053	3.976	34.468	27.365	80.0	1.564	.54	7.4	118.9	3.17	44.5	.00	1012
1	1018	3.955	3.878	34.482	27.387	77.9	1.575	.60	8.2	120.5	3.17	44.7	.00	1026
6	1204	3.553	3.463	34.512	27.452	72.4	1.714	.78	10.6	130.9	3.14	44.2	.00	1214
	1250 ISL	3.452	3.359	34.520	27.469	70.9	1.747	.82	11.1					1261
6	1402	3.116	3.014	34.548	27.523	65.9	1.851	.98	13.1	142.7	3.12	44.0	.00	1415
	1500 ISL	2.889	2.781	34.564	27.557	62.6	1.914	1.12	14.9					1514
6	1602	2.671	2.558	34.579	27.588	59.5	1.976	1.27	16.8	153.6	3.05	43.4	.00	1617
	1750 ISL	2.436	2.313	34.598	27.624	56.1	2.062	1.48	19.4					1767
6	1801	2.369	2.242	34.604	27.635	55.1	2.090	1.55	20.4	161.1	2.99	42.8	.00	1819
	2000 ISL	2.137	1.996	34.623	27.670	51.8	2.196	1.86	24.3					2021
6	2001	2.136	1.995	34.623	27.670	51.7	2.197	1.86	24.3	165.5	2.92	41.9	.00	2023
6	2200	1.988	1.832	34.637	27.694	49.7	2.298	2.09	27.2	167.8	2.87	41.2	.00	2225
	2250 ISL	1.961	1.802	34.640	27.699	49.4	2.323	2.13	27.7					2275
6	2400	1.895	1.723	34.647	27.710	48.6	2.396	2.25	29.2	169.5	2.84	40.9	.00	2429
	2500 ISL	1.853	1.673	34.649	27.716	48.3	2.445	2.32	30.1					2529
6	2602	1.812	1.623	34.651D	27.721	48.0	2.494	2.39	30.9	169.9	2.79	40.4	.00	2634
	2750 ISL	1.750	1.548	34.655	27.730	47.4	2.564	2.50	32.3					2784
6	2800	1.730	1.524	34.657D	27.733	47.1	2.588	2.54	32.8	171.8	2.77	40.0	.00	2836
6	2999	1.657	1.433	34.666	27.747	46.1	2.681	2.67	34.4	173.9	2.74	39.7	.00	3038
	3000 ISL	1.656	1.432	34.666	27.747	46.1	2.681	2.67	34.4					3038
6	3198	1.594	1.351	34.666D	27.753	45.8	2.772							3242
	3250 ISL	1.581	1.334	34.667	27.755	45.7	2.796	2.83	36.3					3293
6	3397	1.554	1.292	34.674	27.763	45.3	2.863	2.91	37.3	176.0	2.68	39.1	.00	3445
	3500 ISL	1.540	1.268	34.675	27.766	45.2	2.909	2.96	38.0					3549
6	3596	1.531	1.248	34.678	27.770	45.2	2.953	3.01	38.6	174.7	2.66	38.7	.00	3649
	3750 ISL	1.517	1.218	34.680	27.774	45.2	3.022	3.10	39.7					3804
6	3795	1.514	1.210	34.682	27.775	45.2	3.043	3.12	39.9	174.4	2.64	38.4	.00	3853
6	3896	1.512	1.197	34.683	27.777	45.4	3.088	3.15	40.3	174.0	2.63	38.2	.00	3956
6	3996	1.516	1.190	34.683	27.778	45.7	3.134	3.17	40.6	172.5	2.62	38.2	.00	4058
	4000 ISL	1.516	1.190	34.683	27.778	45.7	3.136	3.17	40.6					4060
6	4055	1.517	1.184	34.683	27.778	45.9	3.161	3.19	40.8	172.3	2.62	38.2	.00	4119
6	4114	1.519	1.179	34.684	27.779	46.0	3.188	3.23	41.3	172.0	2.61	38.1	.00	4180
6	4160	1.521	1.176	34.686	27.781	46.0	3.209	3.24	41.4	171.6	2.61	38.1	.00	4227

RV NEW HORIZON SOSO STATION 59 (90 110)

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 45.0 N	123 18.3 W	23/08/82	0523 GMT	3982 M	330	16 KT		1	1017.9 MB	18.0 C	16.7 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 D.BAR
	0 ISL	18.923	18.923	33.559	23.941	395.7	.000	5.46	102.7							0
1	2	18.923	18.923	33.559	23.941	395.8	.007	5.46	102.7	3.0	.29	.0	.00	.05	.00	2
	10 ISL	18.928	18.926	33.558	23.940	396.2	.040	5.45	102.5							10
1	17	18.931	18.928	33.558	23.939	396.5	.066	5.44	102.3	2.6	.30	.0	.00	.05	.00	17
	20 ISL	18.941	18.937	33.576	23.950	395.6	.079	5.44	102.4							20
	30 ISL	18.970	18.965	33.630	23.984	392.6	.119	5.44	102.5							30
1	34	18.982	18.976	33.652	23.998	391.4	.134	5.44	102.5	2.6	.27	.0	.00	.06	.00	34
	50 ISL	17.235	17.227	33.551	24.349	358.4	.194	5.77	105.1							50
1	53	16.871	16.863	33.528D	24.418	351.9	.205	5.84	105.6	2.8	.27	.0	.00	.12	.08	53
1	73	16.170	16.159	33.464	24.531	341.8	.275	5.90	105.2	2.8	.29	.0	.00	.10	.02	74
	75 ISL	16.129	16.117	33.476	24.550	340.0	.281	5.89	105.0							75
1	93	15.412	15.397	33.547	24.766	320.0	.341	5.80	101.9	3.2	.30	.0	.00	.14	.06	93
	100 ISL	14.819	14.804	33.478	24.842	312.9	.363	5.77	100.2							101
1	103	14.627	14.612	33.462D	24.871	310.1	.371	5.76	99.5	3.8	.34	.0	.01	.20	.09	103
1	112	14.468	14.451	33.603D	25.013	296.8	.400	5.62	96.9	4.1	.38	.6	.08	.22	.12	113
1	123	13.965	13.947	33.563	25.088	289.9	.430	5.52	94.2	4.7	.43	1.7	.20	.20	.12	123
	125 ISL	13.843	13.825	33.574	25.122	286.7	.437	5.47	93.0							126
1	133	13.356	13.337	33.616	25.254	274.3	.460	5.27	88.8	6.3	.56	4.2	.09	.15	.11	134
1	142	12.562	12.543	33.612	25.408	259.7	.484	5.11	84.7	8.1	.69	6.6	.03			143
	150 ISL	12.068	12.049	33.623	25.511	250.0	.504	5.00	82.0							151
1	151	12.002	11.983	33.625	25.525	248.7	.507	4.98	81.6	9.7	.80	8.3	.02	.10	.07	152
1	176	10.719	10.698	33.709	25.824	220.5	.565	4.36	69.5	16.2	1.19	14.8	.00	.04	.03	176
	200 ISL	9.508	9.485	33.817	26.114	193.1	.615	4.07	63.2							201
1	201	9.455	9.432	33.822	26.127	191.8	.617	4.06	63.0	23.1	1.45	19.4	.00	.01	.01	202
1	226	9.000	8.975	33.899	26.260	179.5	.663	3.85	59.1	27.2	1.57	21.6	.00			227
1	250	8.409	8.383	33.969	26.407	165.8	.705	3.56	54.0	33.1	1.75	24.5	.00			252
	300 ISL	7.655	7.626	34.020	26.559	151.8	.784	2.90	43.2							302
1	301	7.648	7.618	34.020	26.560	151.7	.785	2.89	43.1	42.4	2.04	28.6	.00			302
	400 ISL	6.359	6.323	34.079	26.783	131.2	.926	1.48	21.4							403
1	401	6.351	6.316	34.079	26.785	131.1	.927	1.47	21.3	63.5	2.62	36.6	.00			403
1	500	5.597	5.554	34.171	26.953	115.8	1.049	.70	10.0	80.9	2.95	40.8	.00			503
1	599	5.171	5.122	34.251	27.068	105.7	1.158	.40	5.6	92.2	3.09	42.6	.00			603
	600 ISL	5.165	5.116	34.252	27.069	105.5	1.160	.40	5.6							604
	700 ISL	4.783	4.728	34.323	27.169	96.7	1.261	.36	5.1							705
1	798	4.455	4.393	34.381	27.252	89.4	1.352	.33	4.6	110.4	3.18	44.3	.00			804
	800 ISL	4.450	4.387	34.381	27.253	89.3	1.354	.33	4.6							806
	1000 ISL	3.921	3.845	34.463	27.375	78.8	1.522	.57	7.8							1008
1	1014	3.891	3.814	34.466	27.381	78.3	1.533	.60	8.2	122.9	3.17	44.6	.00			1022

RV NEW HORIZON — 5050 — STATION 60 (90 100)

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 05.6 N	122 39.7 W	23/08/82	1500 GMT	4132 M	330	17 KT	330 05 06	2	1018.8 MB	17.7 C	16.7 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 D.BAR
	0 ISL	18.024	18.024	33.306	23.970	393.0	.000	5.58	103.0							0
1	1	18.024	18.024	33.306	23.970	393.0	.005	5.58	103.0	3.4	.36	.0	.00	.08	.04	1
	10 ISL	18.016	18.015	33.306	23.973	393.0	.039	5.57	102.9							10
1	17	18.010	18.007	33.307	23.975	393.0	.067	5.57	102.8	3.3	.36	.0	.00	.09	.01	17
	20 ISL	17.955	17.952	33.315	23.994	391.3	.079	5.58	102.8							20
	30 ISL	17.553	17.548	33.269	24.057	385.6	.117	5.65	103.4							30
1	35	17.225	17.220	33.208	24.089	382.8	.137	5.72	103.9	3.1	.35	.0	.00	.12	.02	35
	50 ISL	15.417	15.410	33.271	24.551	339.1	.191	6.19	108.6							50
1	54	14.900	14.892	33.295	24.682	326.7	.204	6.28	109.0	3.5	.39	.0	.00	.29	.08	54
1	73	13.206	13.196	33.252	25.001	296.7	.263	5.79	97.1	5.2	.57	2.4	.19	.39	.30	73
	75 ISL	13.095	13.084	33.274	25.040	293.0	.269	5.71	95.5							75
1	83	12.771	12.760	33.360	25.170	280.8	.292	5.43	90.3	7.2	.77	6.0	.27	.22	.19	83
1	93	12.440	12.428	33.420	25.281	270.5	.320	5.16	85.2	8.4	.89	8.7	.06	.15	.15	93
	100 ISL	12.064	12.051	33.420	25.353	263.7	.338	4.95	81.1							101
1	103	11.890	11.877	33.420	25.386	260.7	.347	4.86	79.3	11.0	1.01	10.9	.02	.09	.10	104
1	113	11.530	11.516	33.476	25.496	250.3	.372	4.63	75.0	12.7	1.13	12.9	.01	.07	.08	114
1	123	10.772	10.758	33.499	25.650	235.7	.396	4.52	72.0	15.3	1.23	14.8	.00	.04	.05	123
	125 ISL	10.685	10.670	33.526	25.687	232.3	.401	4.42	70.3							126
1	133	10.441	10.426	33.636	25.815	220.3	.418	4.00	63.4	19.3	1.44	18.3	.00	.02	.03	133
	150 ISL	9.697	9.680	33.766	26.042	198.9	.454	3.47	54.1							151
1	152	9.594	9.577	33.777	26.068	196.5	.459	3.43	53.4	25.5	1.68	22.5	.00	.00	.02	153
1	177	8.874	8.855	33.868	26.255	179.0	.506	3.40	52.1	29.4	1.77	24.2	.00	.00	.01	178
	200 ISL	8.517	8.496	33.927	26.357	169.6	.546	3.27	49.6							201
1	202	8.492	8.471	33.932	26.365	168.9	.549	3.25	49.4	33.0	1.85	25.7	.00	.00	.01	203
1	227	8.252	8.229	33.978	26.438	162.4	.591	3.11	47.0	35.8	1.91	26.8	.00			229
	250 ISL	7.935	7.910	34.006	26.506	156.1	.627	2.96	44.5							252
1	252	7.907	7.882	34.007	26.512	155.6	.630	2.95	44.2	39.5	2.00	28.1	.00			253
	300 ISL	7.254	7.226	34.035	26.627	145.1	.702	2.44	36.1							302
1	302	7.231	7.202	34.035	26.631	144.8	.705	2.42	35.7	48.5	2.24	31.7	.00			304
	400 ISL	6.286	6.250	34.107	26.815	128.2	.839	1.21	17.5							403
1	401	6.278	6.243	34.107	26.816	128.0	.840	1.20	17.3	66.9	2.72	37.3	.00			405
	500 ISL	5.535	5.494	34.184	26.971	114.0	.960	.61	8.6							504
1	502	5.525	5.483	34.186	26.973	113.8	.962	.60	8.5	83.2	2.99	41.2	.00			505
	600 ISL	5.076	5.027	34.263	27.088	103.7	1.069	.36	5.1							604
1	601	5.071	5.022	34.264	27.089	103.5	1.070	.36	5.1	95.0	3.11	42.9	.00			606
	700 ISL	4.708	4.653	34.341	27.192	94.4	1.168	.36	5.1							705
	800 ISL	4.388	4.326	34.409	27.281	86.5	1.258	.37	5.1							806
1	802	4.383	4.321	34.410	27.283	86.4	1.260	.37	5.1	111.6	3.19	44.4	.00			808
	1000 ISL	3.793	3.718	34.481	27.402	75.8	1.421	.63	8.6							1008
1	1020	3.738	3.662	34.484	27.410	75.1	1.436	.67	9.1	126.3	3.16	44.7	.00			1028

RV NEW HORIZON SOSO STATION 62 (90 90)

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 24.3 N	121 59.9 W	24/08/82	0047 GMT	3817 M	330	20 KT	330 04 05	2	1017.0 MB	17.6 C	16.1 C	8/8	ST

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 D.BAR
	0 ISL	17.345	17.345	33.201	24.053	385.0	.000	5.65	102.9							0
4	2	17.345	17.345	33.201	24.053	385.0	.007	5.65	102.9	3.2	.35	.0	.00	.08	-.01	2
	10 ISL	17.344	17.343	33.201	24.054	385.2	.039	5.64	102.7							10
4	17	17.343	17.341	33.201	24.054	385.4	.065	5.63	102.5	3.2	.35	.0	.00	.08	.00	17
	20 ISL	17.306	17.302	33.199	24.062	384.8	.077	5.64	102.7							20
	30 ISL	17.015	17.010	33.190	24.124	379.2	.115	5.72	103.6							30
4	35	16.796	16.791	33.186	24.172	374.8	.133	5.78	104.1	2.8	.36	.0	.00	.13	.01	35
	50 ISL	15.433	15.425	33.180	24.477	346.1	.188	6.10	107.0							50
4	54	15.025	15.017	33.186	24.571	337.3	.202	6.16	107.1	3.6	.36	.0	.00	.23	.04	54
4	74	13.426	13.416	33.277	24.976	299.1	.264	5.74	96.7	5.6	.57	2.4	.12	.45	.27	74
	75 ISL	13.313	13.303	33.287	25.007	296.2	.268	5.67	95.3							75
4	83	12.778	12.767	33.342	25.155	282.2	.292	5.34	88.8	7.6	.76	6.2	.03	.22	.22	83
4	93	12.419	12.407	33.378	25.253	273.1	.320	5.19	85.6	8.5	.85	8.0	.03	.16	.12	94
	100 ISL	11.956	11.943	33.429	25.380	261.2	.338	4.93	80.5							101
4	103	11.770	11.757	33.451	25.432	256.2	.345	4.81	78.3	11.5	1.02	11.1	.03	.13	.10	103
4	112	11.444	11.430	33.510	25.538	246.3	.369	4.55	73.6	13.9	1.15	13.4	.01	.06	.07	113
4	121	10.911	10.897	33.546	25.662	234.6	.390	4.29	68.6	16.3	1.28	15.7	.01	.05	.05	122
	125 ISL	10.697	10.682	33.553	25.706	230.5	.399	4.23	67.3							126
4	131	10.411	10.396	33.571	25.769	224.6	.413	4.13	65.3	18.3	1.38	17.4	.02	.04	.04	131
4	149	9.829	9.812	33.776	26.028	200.2	.451	3.36	52.5	25.6	1.68	22.0	.00	.01	.02	150
	150 ISL	9.804	9.787	33.784	26.039	199.3	.453	3.33	52.1							151
4	174	9.259	9.240	33.939	26.250	179.6	.499	2.83	43.7	31.5	1.89	25.3	.00	.00	.02	175
4	199	9.001	8.979	34.032	26.364	169.2	.543	2.49	38.3	35.3	2.01	26.9	.00	.01	.02	200
	200 ISL	8.993	8.972	34.034	26.366	169.0	.544	2.48	38.2							201
4	224	8.743	8.719	34.083	26.445	161.9	.583	2.26	34.6	38.3	2.12	28.5	.00			225
	250 ISL	8.504	8.477	34.131	26.519	155.2	.625	1.96	29.9							252
4	252	8.486	8.460	34.134	26.525	154.7	.628	1.94	29.5	42.0	2.24	29.8	.00			253
	300 ISL	7.829	7.799	34.207	26.681	140.5	.699	1.29	19.3							302
4	303	7.786	7.756	34.210	26.690	139.6	.703	1.25	18.7	52.5	2.55	33.4	.00			305
	400 ISL	6.846	6.809	34.260	26.862	124.3	.831	.66	9.7							403
4	403	6.819	6.782	34.260	26.866	123.9	.835	.65	9.5	67.1	2.85	37.3	.00			406
	500 ISL	6.093	6.048	34.302	26.996	112.4	.949	.37	5.4							504
4	502	6.077	6.033	34.303	26.998	112.2	.952	.37	5.3	79.8	3.02	40.4	.00			506
	600 ISL	5.539	5.488	34.342	27.096	103.6	1.357	.30	4.3							604
4	602	5.532	5.481	34.342	27.097	103.4	1.059	.30	4.3	89.2	3.10	42.1	.00			606
	700 ISL	5.133	5.075	34.382	27.177	96.6	1.157	.31	4.4							705
4	794	4.812	4.748	34.4160	27.241	91.1	1.245	.32	4.5	103.8	3.18	43.9	.00			800
	800 ISL	4.789	4.724	34.418	27.246	90.7	1.251	.32	4.5							806
	1000 ISL	4.074	3.997	34.474	27.368	79.7	1.421	.51	7.0							1008
4	1012	4.031	3.953	34.477	27.375	79.1	1.431	.53	7.3	120.4	3.18	44.7	.00			1021

RV NEW HORIZON SOSO STATION 62 (90 90)

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
31 23.4 N	121 58.6 W	24/08/82	0505 GMT	3900 M	330	18 KT			1018.0 MB	17.0 C	15.8 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 D.BAR
	0 ISL	17.259	17.259	33.195	24.069	383.4	.000	5.65	102.7							0
8	1	17.259	17.259	33.195	24.069	383.5	.004	5.65	102.7	2.9	.36	.0	.00	.08	.01	1
	10 ISL	17.258	17.257	33.192	24.068	383.9	.038	5.64	102.6							10
8	17	17.257	17.255	33.193	24.069	384.1	.065	5.64	102.5	2.9	.36	.0	.00	.08	.01	17
	20 ISL	17.255	17.251	33.194	24.071	384.0	.077	5.64	102.6							20
	30 ISL	17.227	17.222	33.192	24.076	383.8	.115	5.65	102.6							30
8	34	17.206	17.201	33.189	24.078	383.7	.131	5.65	102.6	2.8	.36	.0	.00	.08	.01	34
8	45	17.117	17.110	33.189	24.100	382.0	.171	5.68	103.0	2.8	.36	.0	.00	.09	.01	45
	50 ISL	16.235	16.227	33.186	24.302	362.9	.191	5.90	105.2							50
8	54	15.530	15.521	33.186	24.460	347.8	.205	6.07	106.6	2.8	.37	.0	.00	.18	.03	54
8	64	14.559	14.549	33.165	24.655	329.5	.238	6.21	107.0	3.3	.39	.0	.00	.28	.05	64
8	73	13.732	13.722	33.225	24.874	308.8	.268	5.99	101.5	3.9	.47	.2	.06	.62	.29	73
	75 ISL	13.615	13.604	33.233	24.904	306.0	.274	5.93	100.3							75
8	83	13.217	13.206	33.263	25.007	296.3	.299	5.67	95.1	5.5	.60	2.8	.15	.39	.30	84
8	93	12.661	12.649	33.331	25.170	281.1	.327	5.32	88.2	7.5	.78	6.3	.04	.22	.17	94
	100 ISL	12.373	12.359	33.374	25.259	272.8	.346	5.16	85.1							101
8	103	12.254	12.241	33.389	25.293	269.5	.354	5.10	83.9	9.4	.91	8.7	.02	.11	.11	103
8	112	11.689	11.675	33.438	25.437	255.9	.379	4.79	77.8	11.6	1.06	11.4	.01	.07	.07	113
8	122	11.061	11.046	33.544	25.634	237.3	.402	4.34	69.6	15.7	1.28	15.3	.01	.04	.04	122
	125 ISL	10.885	10.870	33.576	25.690	232.0	.410	4.19	66.9							126
8	131	10.609	10.594	33.626	25.778	223.8	.423	3.94	62.6	19.1	1.44	17.9	.01	.02	.03	131
8	150	9.978	9.960	33.738	25.974	205.4	.465	3.49	54.7	23.6	1.65	21.5	.00	.01	.02	151
8	174	9.395	9.375	33.889	26.188	185.5	.512	2.98	46.2	29.5	1.86	24.6	.00			175
8	198	8.846	8.825	33.981	26.348	170.5	.554	2.73	41.8	33.8	1.98	26.8	.01			199
	200 ISL	8.826	8.804	33.989	26.357	169.7	.557	2.70	41.4							201
8	247	8.617	8.591	34.111	26.487	158.3	.635	2.12	32.3	39.7	2.20	29.1	.01			249
	250 ISL	8.588	8.561	34.117	26.495	157.5	.639	2.08	31.7							252
8	297	7.993	7.963	34.194	26.647	143.8	.711	1.44	21.7	49.0	2.49	32.3	.00			299
	300 ISL	7.966	7.936	34.197	26.653	143.2	.714	1.41	21.2							302
8	393	7.162	7.125	34.267	26.824	128.0	.841	.71	10.5	62.7	2.83	36.4	.00			396
	400 ISL	7.107	7.069	34.269	26.834	127.2	.849	.68	10.1							403
	500 ISL	6.336	6.291	34.289	26.954	116.6	.971	.44	6.4							504
8	506	6.291	6.246	34.289	26.960	116.1	.979	.44	6.4	75.2	3.01	39.4	.00			510
	600 ISL	5.718	5.666	34.334	27.069	106.4	1.083	.38	5.5							604
	700 ISL	5.203	5.145	34.385	27.171	97.2	1.185	.32	4.5							705
8	733	5.055	4.994	34.403D	27.203	94.4	1.217	.30	4.2	100.2	3.20	43.1	.00			739
	800 ISL	4.770	4.735	34.422	27.250	90.2	1.278	.31	4.4							806
8	989	4.085	4.009	34.464	27.359	80.5	1.440	.49	6.7	119.1	3.21	44.9	.00			998
	1000 ISL	4.050	3.973	34.467	27.365	80.0	1.448									1008

RV NEW HORIZON SOSO STATION 63 (90 90)

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 24.3 N	121 59.0 W	24/08/82	1300 GMT	3829 M	320	22 KT	320 05 05	2	1018.5 MB	17.5 C	16.4 C	8/8	ST

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 D.BAR
	0 ISL	17.190	17.190	33.190	24.082	382.3	.000	5.68	103.1							0
1	1	17.190	17.190	33.190	24.082	382.3	.004	5.68	103.1	2.9	.36	.0	.00	.08	.01	1
	10 ISL	17.191	17.189	33.189	24.081	382.7	.038	5.68	103.1							10
1	17	17.191	17.189	33.190	24.082	382.8	.064	5.68	103.1	2.9	.36	.0	.00	.08	.01	17
	20 ISL	17.185	17.182	33.190	24.083	382.8	.077	5.68	103.1							20
	30 ISL	17.168	17.163	33.188	24.087	382.8	.115	5.67	102.9							30
1	34	17.160	17.155	33.188	24.088	382.7	.130	5.67	102.9	2.9	.36	.0	.00	.09	.02	34
1	43	14.800	14.793	33.170	24.607	333.5	.162	6.24	108.0	3.5	.38	.0	.00	.18	.03	43
	50 ISL	14.408	14.401	33.168	24.689	325.9	.185	6.23	107.0							50
1	53	14.258	14.250	33.168	24.720	322.9	.194	6.23	106.7	3.5	.39	.0	.00	.27	.08	53
1	63	13.726	13.717	33.202	24.857	310.1	.225	6.11	103.5	3.7	.43	.0	.00	.46	.25	63
1	73	13.349	13.339	33.227	24.953	301.2	.257	5.82	97.8	4.5	.53	1.3	.24	.46	.32	73
	75 ISL	13.216	13.206	33.248	24.996	297.2	.263	5.72	95.8							75
1	83	12.766	12.755	33.324	25.144	283.3	.286	5.37	89.2	7.0	.75	6.0	.03	.21	.17	83
1	93	12.512	12.500	33.357	25.219	276.4	.314	5.23	86.5	7.8	.82	7.5	.02	.16	.15	93
	100 ISL	12.072	12.059	33.407	25.342	264.8	.333	5.00	81.9							101
1	102	11.936	11.923	33.424	25.380	261.2	.338	4.92	80.4	10.2	.99	10.4	.01	.08	.09	102
1	111	11.293	11.280	33.522	25.575	242.8	.362	4.48	72.2	13.9	1.19	14.0	.01	.04	.05	112
1	121	10.860	10.846	33.580	25.698	231.2	.386	4.18	66.8	16.9	1.34	16.5	.01	.03	.04	122
	125 ISL	10.682	10.667	33.603	25.748	226.6	.394	4.06	64.7							126
1	130	10.442	10.427	33.636	25.814	220.2	.406	3.90	61.8	19.6	1.47	18.7	.00	.02	.02	131
1	150	9.790	9.773	33.778	26.036	199.5	.447	3.34	52.2	25.1	1.69	22.2	.00	.01	.02	151
1	173	9.350	9.331	33.895	26.200	184.2	.492	2.93	45.4	29.6	1.86	24.8	.00	.00	.02	174
1	196	8.942	8.921	33.985	26.336	171.7	.533	2.70	41.5	33.4	1.98	26.5	.00	.00	.01	197
	200 ISL	8.898	8.876	33.999	26.354	170.1	.539	2.65	40.6							201
1	245	8.512	8.486	34.125	26.514	155.7	.613	2.03	30.9	41.0	2.23	29.5	.00			246
	250 ISL	8.476	8.450	34.133	26.525	154.6	.620	1.98	30.1							252
1	299	8.115	8.084	34.182	26.619	146.5	.695	1.55	23.4	47.1	2.43	31.8	.00			301
	300 ISL	8.107	8.076	34.183	26.621	146.3	.696	1.54	23.3							302
1	391	7.098	7.061	34.250	26.820	128.3	.821	.78	11.5	62.4	2.79	36.4	.00			394
	400 ISL	7.006	6.968	34.254	26.835	126.9	.832	.73	10.8							403
1	490	6.164	6.121	34.285	26.973	114.5	.941	.42	6.1	77.0	3.00	40.0	.00			493
	500 ISL	6.103	6.058	34.289	26.984	113.5	.952	.41	6.0							504
	600 ISL	5.572	5.521	34.337	27.089	104.3	1.061	.36	5.1							604
	700 ISL	5.205	5.146	34.383	27.169	97.4	1.162	.30	4.2							705
1	729	5.130	5.069	34.396	27.188	95.9	1.190	.28	3.9	97.7	3.17	43.0	.00			734
	800 ISL	4.875	4.810	34.414	27.232	92.1	1.257	.30	4.2							806
1	996	4.130	4.053	34.470	27.359	80.7	1.426	.49	6.7	118.3	3.20	44.6	.00			1004
	1000 ISL	4.110	4.033	34.472	27.363	80.3	1.429									1008

RV NEW HORIZON SOSO STATION 63 (90 90)

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 24.8 N	121 58.9 W	25/08/82	0357 GMT	3811 M	330	20 KT			1017.3 MB	17.0 C	15.7 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 D.BAR
	0 ISL	17.091	17.091	33.168	24.088	381.6	.000	5.66	102.6							0
16	1	17.091	17.091	33.168	24.088	381.7	.004	5.66	102.6	3.2	.36	.2	.00	.09	.00	1
	10 ISL	17.091	17.090	33.167	24.088	382.0	.038	5.66	102.6							10
16	16	17.091	17.089	33.168	24.089	382.1	.061	5.66	102.5	3.0	.37	.2	.00	.08	.01	16
	20 ISL	17.082	17.078	33.168	24.092	382.0	.076	5.66	102.5							20
	30 ISL	17.058	17.053	33.168	24.097	381.8	.115	5.66	102.5							30
16	33	17.050	17.045	33.168	24.099	381.7	.127	5.66	102.5	3.0	.36	.2	.00	.09	.00	33
16	44	16.684	16.677	33.173	24.188	373.5	.166	5.79	104.1	3.0	.37	.2	.00	.16	.01	44
	50 ISL	15.423	15.415	33.202	24.496	344.3	.189	6.09	106.8							50
16	53	14.849	14.841	33.219	24.634	331.2	.199	6.21	107.6	3.6	.38	.2	.00	.25	.05	53
16	62	14.101	14.092	33.212	24.787	316.8	.229	6.13	104.6	3.7	.40	.2	.00	.38	.13	63
16	72	13.525	13.515	33.213	24.906	305.7	.259	5.94	100.2	4.3	.48	.7	.10	.60	.28	72
	75 ISL	13.367	13.357	33.240	24.959	300.7	.269	5.81	97.7							75
16	82	12.961	12.950	33.311	25.095	287.9	.289	5.48	91.4	6.3	.72	5.4	.02	.21	.14	82
16	92	12.076	12.064	33.374	25.315	267.1	.316	5.04	82.6	9.5	.92	9.3	.02	.13	.12	92
	100 ISL	11.880	11.868	33.431	25.396	259.6	.338	4.87	79.5							101
16	101	11.863	11.850	33.440	25.406	258.7	.341	4.85	79.1	10.8	1.02	11.0	.01	.09	.08	102
16	111	11.385	11.371	33.495	25.537	246.3	.365	4.54	73.3	13.4	1.17	13.6	.01	.06	.05	111
16	120	10.680	10.666	33.611	25.753	225.9	.387	4.03	64.2	17.7	1.39	17.6	.00	.03	.03	121
	125 ISL	10.578	10.563	33.625	25.782	223.3	.398	3.99	63.4							126
16	129	10.542	10.527	33.627	25.790	222.6	.407	3.96	62.9	18.7	1.43	18.2	.00	.02	.03	129
16	148	9.974	9.957	33.737	25.973	205.4	.448	3.48	54.5	23.2	1.63	21.4	.00	.01	.02	149
	150 ISL	9.922	9.905	33.748	25.991	203.8	.452	3.44	53.9							151
16	175	9.237	9.218	33.904	26.226	181.8	.500	2.92	45.1	29.9	1.87	25.2	.00			176
16	200	8.828	8.806	34.016	26.379	167.7	.544	2.55	39.1	35.0	2.03	27.4	.00			201
16	250	8.437	8.411	34.133	26.531	154.0	.624	2.01	30.5	41.3	2.24	29.9	.00			251
	300 ISL	7.932	7.902	34.202	26.662	142.3	.698	1.38	20.8							302
16	301	7.920	7.890	34.203	26.664	142.1	.700	1.37	20.6	49.6	2.50	32.8	.00			303
16	397	7.219	7.181	34.260	26.811	129.3	.830	.78	11.5	61.0	2.77	36.1	.00			400
	400 ISL	7.193	7.155	34.261	26.815	129.0	.834	.77	11.4							403
16	497	6.299	6.255	34.272	26.945	117.4	.954	.49	7.1	74.0	2.96	39.4	.00			501
	500 ISL	6.282	6.237	34.273	26.948	117.1	.957	.49	7.1							504
	600 ISL	5.682	5.631	34.323	27.063	106.8	1.069	.40	5.8							604
	700 ISL	5.222	5.164	34.378	27.164	98.0	1.171	.32	4.5							705
16	738	5.083	5.022	34.401	27.198	95.0	1.208	.29	4.1	98.8	3.17	43.1	.00			744
	800 ISL	4.807	4.742	34.424	27.248	90.5	1.266	.34	4.8							806
	1000 ISL	4.009	3.933	34.471	27.372	79.2	1.435	.52	7.1							1008
16	1013	3.962	3.885	34.472	27.378	78.6	1.446	.53	7.3	121.0	3.17	44.8	.00			1021

RV NEW HORIZON SOSO STATION 64 (90 90)

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 24.9 N	122 00.3 W	25/08/82	0944 1547 GMT	4002 M	320	21 KT			1017.1 MB	16.8 C	15.7 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 D.BAR
	0 ISL	17.056	17.056	33.186	24.110	379.5	.000	5.69	103.0							0
5	1	17.056	17.056	33.186	24.110	379.6	.003	5.69	103.0	2.6	.36	.2	.00	.12	.00	1
	10 ISL	17.056	17.055	33.186	24.110	379.9	.038	5.69	103.0							10
5	16	17.056	17.054	33.186	24.111	380.0	.061	5.69	103.0	2.6	.37	.1	.00	.12	.00	16
	20 ISL	17.054	17.051	33.186	24.112	380.1	.076	5.69	103.0							20
	30 ISL	17.047	17.043	33.186	24.113	380.3	.114	5.69	103.0							30
5	33	17.045	17.040	33.186	24.114	380.3	.126	5.69	103.0	2.6	.37	.1	.00	.13	.00	33
5	43	16.502	16.496	33.229	24.274	365.4	.164	5.83	104.5	2.0	.39	.0	.00	.26	.02	44
	50 ISL	15.262	15.255	33.207	24.536	340.6	.187	6.12	106.9							50
5	53	14.735	14.727	33.200	24.644	330.2	.197	6.22	107.6	2.6	.40	.0	.00	.27	.04	53
5	62	14.135	14.126	33.213	24.781	317.4	.228	6.11	104.4	2.8	.41	.1	.00	.35	.13	63
5	72	13.421	13.411	33.224	24.936	302.9	.259	5.85	98.5	4.0	.52	1.1	.13	.45	.30	73
	75 ISL	13.314	13.303	33.228	24.960	300.6	.267	5.80	97.4							75
5	82	13.087	13.076	33.254	25.026	294.5	.289	5.65	94.5	5.0	.64	3.3	.18	.29	.18	83
5	92	12.735	12.723	33.339	25.162	281.8	.317	5.38	89.3	6.7	.78	6.3	.01	.13	.10	93
	100 ISL	12.375	12.362	33.358	25.246	274.0	.339	5.18	85.4							101
5	102	12.253	12.240	33.362	25.272	271.5	.344	5.12	84.2	8.5	.91	8.6	.01	.10	.07	102
5	112	11.369	11.355	33.435	25.493	250.5	.369	4.72	76.2	11.8	1.10	12.0	.01	.06	.06	112
5	122	11.328	11.313	33.492	25.546	245.8	.395	4.53	73.1	13.4	1.20	13.6	.00	.05	.05	122
	125 ISL	11.224	11.209	33.508	25.577	242.9	.402	4.47	72.0							126
5	132	10.935	10.919	33.544	25.657	235.4	.418	4.33	69.3	15.8	1.33	15.7	.00			132
	150 ISL	10.056	10.039	33.705	25.935	209.2	.459	3.60	56.6							151
5	151	10.021	10.004	33.712	25.946	208.1	.461	3.57	56.0	22.4	1.63	20.7	.00			151
5	175	9.120	9.101	33.934	26.268	177.8	.508	2.82	43.5	31.4	1.94	25.8	.00			176
	200 ISL	8.894	8.872	34.011	26.364	169.1	.551	2.53	38.9							201
5	201	8.893	8.871	34.012	26.365	169.1	.552	2.53	38.8	34.4	2.07	27.3	.00			202
	250 ISL	8.393	8.367	34.135	26.540	153.2	.631	1.92	29.1							252
5	251	8.387	8.361	34.136	26.541	153.1	.632	1.91	29.0	42.0	2.33	30.3	.00			252
	300 ISL	7.997	7.966	34.196	26.648	143.7	.706	1.44	21.7							302
5	302	7.984	7.953	34.197	26.650	143.5	.708	1.43	21.5	48.9	2.53	32.5	.01			303
	400 ISL	7.186	7.148	34.253	26.810	129.5	.842	.79	11.6							403
5	401	7.174	7.136	34.253	26.812	129.3	.844	.78	11.5	61.2	2.84	36.2	.00			404
5	499	6.326	6.281	34.278	26.946	117.3	.965	.46	6.7	74.2	3.03	39.5	.00			503
	500 ISL	6.321	6.276	34.279	26.948	117.2	.966	.46	6.6							504

RV NEW HORIZON SOSO STATION 64 (90 90)

	600 ISL	5.573	5.522	34.350	27.098	103.4	1.076	.29	4.1					604
1	623	5.438	5.385	34.367	27.128	100.7	1.099	.27	3.8	92.2	3.14	41.3	.00	627
	700 ISL	5.200	5.142	34.390	27.175	96.9	1.175	.28	4.0					705
5	744	5.080	5.018	34.400	27.198	95.1	1.217	.29	4.1	98.3	3.23	43.4	.00	749
	800 ISL	4.783	4.718	34.425	27.251	90.2	1.270	.31	4.4					806
1	812	4.716	4.651	34.430	27.263	89.1	1.281	.32	4.5	107.1	3.20	43.5	.00	818
1	992	4.101	4.025	34.474	27.365	80.0	1.433	.51	7.0	119.3	3.21	44.5	.00	1000
	1000 ISL	4.060	3.983	34.473	27.369	79.6	1.439	.52	7.1					1008
5	1012	3.995	3.918	34.472	27.375	79.0	1.449	.53	7.3	120.5	3.25	44.9	.00	1021
1	1176	3.533	3.446	34.512	27.454	71.9	1.572	.70	9.5	132.8	3.18	44.5	.00	1186
	1250 ISL	3.328	3.237	34.526	27.485	69.0	1.624	.80	10.8					1261
1	1393	2.966	2.867	34.551	27.539	63.8	1.719	1.01	13.5	147.3	3.13	44.0	.00	1406
	1500 ISL	2.752	2.646	34.566	27.570	60.8	1.786	1.15	15.3					1514
1	1608	2.561	2.449	34.581	27.600	58.0	1.850	1.30	17.2	157.6	3.06	43.4	.00	1624
	1750 ISL	2.305	2.184	34.600	27.637	54.3	1.930	1.54	20.2					1767
1	1799	2.228	2.103	34.607	27.649	53.2	1.956	1.62	21.2	165.7	2.98	42.6	.00	1817
	2000 ISL	2.022	1.884	34.630	27.684	49.9	2.060	1.95	25.4					2021
1	2014	2.013	1.873	34.631	27.686	49.7	2.066	1.97	25.6	169.1	2.92	41.7	.00	2036
1	2207	1.897	1.742	34.643	27.706	48.2	2.161	2.17	28.2	170.7	2.88	41.1	.00	2232
	2250 ISL	1.874	1.716	34.645	27.709	47.9	2.182	2.21	28.7					2275
1	2401	1.801	1.630	34.652	27.721	47.1	2.254	2.35	30.4	171.9	2.83	40.7	.00	2430
	2500 ISL	1.759	1.581	34.655	27.728	46.6	2.300	2.42	31.3					2529
1	2610	1.717	1.529	34.659	27.735	46.2	2.351	2.50	32.3	173.3	2.80	40.2	.00	2643
	2750 ISL	1.664	1.465	34.662	27.742	45.7	2.415	2.62	33.7					2784
1	2782	1.654	1.451	34.663D	27.743	45.6	2.430	2.64	34.0	172.9	2.76	39.6	.00	2817
1	3000	1.600	1.377	34.667D	27.752	45.3	2.529							3040
1	3194	1.574	1.332	34.671	27.758	45.1	2.616	2.83	36.3	175.3	2.72	39.2	.00	3238
	3250 ISL	1.569	1.322	34.672	27.759	45.2	2.642	2.86	36.7					3293
1	3281	1.566	1.315	34.673	27.761	45.2	2.656	2.88	37.0	175.4	2.71	39.3	.00	3327
1	3413	1.545	1.281	34.675	27.765	45.1	2.716	2.94	37.7	175.2	2.69	39.0	.00	3462
	3500 ISL	1.539	1.267	34.675	27.766	45.2	2.755	2.96	38.0					3549
1	3533	1.538	1.262	34.676D	27.767	45.3	2.770	2.97	38.1	174.5	2.68	38.9	.00	3585
1	3645	1.532	1.244	34.679	27.771	45.3	2.820	3.04	39.0	175.4	2.67	38.8	.00	3699
	3750 ISL	1.533	1.234	34.680	27.772	45.5	2.868	3.06	39.1					3804
1	3782	1.533	1.230	34.680	27.772	45.6	2.883	3.06	39.2	175.1	2.67	38.7	.00	3840
1	3821	1.534	1.227	34.680	27.773	45.7	2.901	3.08	39.5	174.8	2.67	38.7	.00	3880
1	3900	1.544	1.228	34.678	27.771	46.2	2.937	3.05	39.1	174.7	2.67	38.7	.00	3961

Moore Business Forms, Inc.

RV NEW HORIZON — SOSO — STATION 65 (90 80)

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 44.5 N	121 18.9 W	25/08/82	2352 GMT	3850 M	340	24 KT	340 06 05	2	1016.1 MB	17.1 C	16.0 C	8/8	ST

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 D.BAR
	0 ISL	17.792	17.792	33.271	24.000	390.0	.000	5.57	102.4							0
1	1	17.792	17.792	33.271	24.000	390.1	.005	5.57	102.4	3.5	.35	.0	.00			1
	10 ISL	17.792	17.791	33.270	24.000	390.4	.039	5.56	102.2							10
1	17	17.792	17.789	33.270	24.000	390.6	.067	5.56	102.2	3.5	.36	.0	.00	.12	.02	17
	20 ISL	17.791	17.788	33.271	24.001	390.7	.078	5.56	102.2							20
	30 ISL	17.786	17.781	33.271	24.002	390.8	.117	5.57	102.3							30
1	35	17.783	17.777	33.271	24.003	390.9	.139	5.57	102.3	3.5	.36	.0	.00	.13	.01	36
1	46	17.259	17.252	33.284	24.139	378.3	.177	5.71	103.9	3.5	.36	.0	.00	.17	.02	46
	50 ISL	16.060	16.052	33.280	24.414	352.2	.194	5.98	106.3							50
1	55	14.747	14.739	33.289	24.710	324.0	.209	6.24	108.0	3.6	.39	.0	.00	.23	.02	55
1	64	13.817	13.808	33.289	24.906	305.6	.239	6.12	103.9	4.2	.45	.3	.02	.35	.12	64
1	74	13.121	13.111	33.307	25.060	291.0	.269	5.65	94.6	6.0	.64	3.5	.29	.32	.09	74
	75 ISL	13.065	13.055	33.315	25.077	289.4	.271	5.60	93.6							75
1	84	12.494	12.483	33.396	25.252	273.0	.296	5.13	84.8	9.3	.89	8.3	.06	.21	.06	84
1	93	11.722	11.710	33.438D	25.431	256.1	.321	4.77	77.6	12.0	1.07	11.6	.03	.12	.09	94
	100 ISL	11.397	11.385	33.509	25.546	245.3	.338	4.59	74.1							101
1	103	11.288	11.276	33.543	25.592	240.9	.346	4.51	72.7	15.1	1.23	14.4	.02	.09	.08	104
1	113	11.062	11.048	33.604	25.680	232.8	.370	4.22	67.7	17.3	1.35	16.5	.02	.05	.04	114
1	123	10.450	10.436	33.638	25.814	220.1	.392	3.94	62.4	19.6	1.44	18.3	.02	.03	.04	124
	125 ISL	10.404	10.390	33.640	25.824	219.2	.396	3.94	62.3							126
1	132	10.260	10.245	33.649	25.856	216.3	.412	3.93	62.0	20.6	1.46	18.7	.01	.03	.03	133
1	150	9.585	9.568	33.739	26.040	199.0	.449	3.60	56.0	24.2	1.61	21.3	.01	.02	.04	151
1	174	9.114	9.095	33.853	26.205	183.7	.496	3.23	49.7	29.1	1.78	24.1	.01			175
1	196	8.587	8.566	33.937	26.354	169.8	.533	3.12	47.5	33.2	1.87	25.7	.01			197
	200 ISL	8.505	8.484	33.949	26.376	167.8	.541	3.09	47.0							201
1	244	7.940	7.916	34.033	26.527	154.0	.612	2.66	39.9	41.2	2.07	28.9	.01			245
	250 ISL	7.886	7.861	34.044	26.544	152.5	.621	2.56	38.4							252
1	286	7.609	7.581	34.106	26.633	144.6	.674	1.94	28.9	48.6	2.35	32.0	.01			288
	300 ISL	7.529	7.500	34.131	26.664	141.8	.694	1.73	25.7							302
1	391	7.006	6.969	34.256	26.837	126.6	.817	.71	10.4	64.2	2.83	36.6	.00			394
	400 ISL	6.932	6.894	34.261	26.851	125.4	.828	.66	9.7							403
1	486	6.191	6.148	34.291	26.974	114.4	.930	.41	5.9	76.9	3.00	39.7	.00			489
	500 ISL	6.094	6.050	34.298	26.992	112.8	.947	.40	5.8							504
	600 ISL	5.500	5.449	34.346	27.104	102.8	1.054	.36	5.1							604
	700 ISL	5.040	4.983	34.393	27.196	94.6	1.153	.31	4.4							705
1	733	4.917	4.857	34.408	27.223	92.3	1.184	.30	4.2	101.3	3.17	43.4	.00			739
	800 ISL	4.643	4.579	34.433	27.273	87.8	1.244	.33	4.6							806
1	996	4.005	3.929	34.486	27.385	78.0	1.406	.56	7.7	121.4	3.18	44.4	.00			1004

RV NEW HORIZON SOSO STATION 66 (90 70)

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 04.8 N	120 38.5 W	26/08/82	0625 1111 GMT	3824 M	330	23 KT			1016.5 MB	15.8 C	14.8 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 D.BAR
	0 ISL	16.848	16.848	33.191	24.163	374.6	.000	5.73	103.4							0
1	2	16.848	16.848	33.191	24.163	374.6	.006	5.73	103.4	3.1	.36	.2	.00	.14	.02	2
	10 ISL	16.845	16.844	33.194	24.166	374.5	.037	5.71	103.1							10
5	15	16.843	16.841	33.196	24.168	374.5	.057	5.71	103.0	2.4	.37	.1	.00			15
1	17	16.849	16.847	33.192	24.164	375.0	.065	5.71	103.0	3.1	.36	.1	.00	.14	.03	18
	20 ISL	16.836	16.833	33.194	24.169	374.6	.075	5.71	103.0							20
	30 ISL	16.784	16.779	33.201	24.187	373.2	.112	5.72	103.0							30
1	34	16.762	16.757	33.204	24.194	372.7	.128	5.72	103.0	2.9	.36	.2	.00	.16	.04	34
1	45	16.631	16.624	33.223	24.239	368.7	.167	5.76	103.5	2.7	.36	.1	.00	.24	.04	45
	50 ISL	16.534	16.526	33.218	24.258	367.1	.186	5.78	103.6							50
1	55	16.444	16.436	33.213	24.275	365.6	.204	5.80	103.8	2.9	.37	.0	.00	.30	.05	55
1	64	14.247	14.238	33.172	24.726	322.7	.236	6.11	104.6	3.9	.39	.1	.00	.38	.17	64
1	74	13.608	13.598	33.221	24.896	306.8	.267	5.99	101.2	4.3	.45	.3	.04	.39	.30	74
	75 ISL	13.540	13.529	33.230	24.916	304.8	.270	5.94	100.3							75
1	84	13.056	13.045	33.294	25.063	291.0	.297	5.55	92.8	6.0	.66	4.3	.10	.27	.24	84
1	93	12.565	12.553	33.346	25.200	278.2	.323	5.27	87.2	7.8	.81	7.1	.03	.16	.19	95
	100 ISL	12.106	12.093	33.389	25.321	266.8	.342	5.06	82.9							101
1	103	11.914	11.901	33.409	25.373	261.9	.350	4.97	81.1	10.2	.98	10.2	.02	.10	.10	104
1	113	11.600	11.586	33.473	25.481	251.8	.376	4.80	77.9	11.7	1.08	12.0	.02	.07	.07	114
1	123	11.301	11.286	33.542	25.589	241.7	.399	4.49	72.4	14.1	1.22	14.4	.01	.04	.05	123
	125 ISL	11.128	11.113	33.560	25.635	237.4	.405	4.38	70.3							126
1	132	10.617	10.602	33.610	25.764	225.1	.420	4.07	64.7	17.5	1.38	17.2	.01	.03	.04	132
	150 ISL	9.627	9.610	33.735	26.030	200.0	.459	3.54	55.0							151
1	152	9.565	9.548	33.746	26.049	198.3	.462	3.50	54.4	24.9	1.66	22.0	.01	.01	.02	152
1	177	9.205	9.185	33.908	26.234	181.1	.510	2.92	45.1	30.0	1.87	25.1	.01			178
	200 ISL	8.830	8.808	34.005	26.369	168.6	.551	2.50	38.3							201
1	201	8.807	8.785	34.008	26.376	168.0	.553	2.48	38.0	35.5	2.05	27.7	.01			202
	250 ISL	8.101	8.076	34.071	26.533	153.7	.631	2.23	33.6							252
1	251	8.091	8.065	34.071	26.535	153.5	.632	2.23	33.6	42.0	2.20	30.1	.01			252
1	295	7.550	7.521	34.110	26.645	143.6	.698	1.77	26.3	49.3	2.41	32.8	.01			297
	300 ISL	7.493	7.464	34.113	26.656	142.6	.705	1.72	25.6							302
1	394	6.543	6.507	34.177	26.837	126.2	.832	.88	12.8	66.4	2.80	37.9	.01			397
	400 ISL	6.508	6.472	34.183	26.846	125.4	.839	.85	12.3							403
1	491	5.999	5.957	34.260	26.974	114.2	.948	.45	6.5	78.7	3.01	40.4	.00			494
	500 ISL	5.926	5.883	34.262	26.985	113.2	.958	.43	6.2							504

RV NEW HORIZON SOSO STATION 66 (90 70)

	600 ISL	5.184	5.135	34.281	27.090	103.6	1.067	.31	4.4					604
5	603	5.163	5.113	34.281	27.092	103.4	1.070	.31	4.4	92.4	3.09	42.2	.00	607
	700 ISL	4.827	4.771	34.343	27.181	95.7	1.167	.28	3.9					705
1	725	4.767	4.709	34.363	27.204	93.7	1.191	.27	3.8	103.6	3.18	44.0	.00	731
	800 ISL	4.527	4.464	34.425	27.279	87.0	1.258	.32	4.4					806
5	801	4.523	4.460	34.426	27.281	86.9	1.259	.32	4.4	109.4	3.18	44.0	.00	807
5	988	3.888	3.814	34.474	27.387	77.4	1.412	.54	7.4	122.5	3.17	44.7	.00	996
	1000 ISL	3.884	3.809	34.474	27.388	77.4	1.422	.55	7.5					1008
1	1019	3.878	3.801	34.474	27.388	77.5	1.436	.56	7.6	123.7	3.18	44.9	.00	1027
5	1181	3.369	3.283	34.520	27.476	69.4	1.556	.79	10.7	134.8	3.14	44.6	.00	1191
	1250 ISL	3.212	3.122	34.533	27.501	67.1	1.603	.87	11.7					1261
5	1382	2.958	2.860	34.552	27.541	63.6	1.689	1.02	13.6	145.8	3.10	44.2	.00	1395
	1500 ISL	2.738	2.632	34.569	27.574	60.4	1.762	1.17	15.5					1514
5	1580	2.593	2.482	34.580	27.596	58.4	1.810	1.28	16.9	155.3	3.04	43.5	.00	1596
	1750 ISL	2.290	2.169	34.604	27.641	53.9	1.905	1.56	20.4					1767
5	1782	2.241	2.117	34.608	27.648	53.1	1.922	1.61	21.1	164.4	2.97	42.7	.00	1800
5	1980	2.047	1.909	34.628	27.681	50.2	2.024	1.88	24.5	167.2	2.90	42.1	.00	2002
	2000 ISL	2.033	1.894	34.630	27.684	50.0	2.034	1.90	24.8					2021
5	2184	1.926	1.773	34.641	27.702	48.6	2.125	2.10	27.3	169.9	2.86	41.5	.00	2209
	2250 ISL	1.889	1.731	34.643	27.707	48.2	2.157	2.17	28.1					2275
5	2380	1.822	1.653	34.647	27.716	47.6	2.219	2.29	29.7	170.8	2.81	40.9	.00	2409
	2500 ISL	1.765	1.586	34.655	27.727	46.7	2.276	2.40	31.0					2529
5	2574	1.733	1.548	34.659	27.733	46.2	2.310	2.46	31.8	172.2	2.77	40.5	.00	2606
	2750 ISL	1.672	1.472	34.663	27.742	45.8	2.391	2.61	33.7					2784
5	2774	1.666	1.463	34.663	27.742	45.7	2.402	2.63	33.9	172.3	2.74	40.0	.00	2809
5	2976	1.627	1.406	34.669	27.751	45.4	2.494	2.71	34.9	173.5	2.72	39.7	.00	3016
	3000 ISL	1.621	1.398	34.669	27.752	45.4	2.505	2.73	35.1					303*
5	3173	1.585	1.345	34.672	27.758	45.2	2.583	2.83	36.4	174.5	2.69	39.5	.00	3217
	3250 ISL	1.571	1.324	34.674	27.761	45.1	2.618	2.85	36.6					3293
5	3276	1.567	1.317	34.674	27.762	45.1	2.630	2.86	36.7	174.6	2.68	39.3	.00	3323
5	3365	1.560	1.301	34.674	27.763	45.3	2.670	2.91	37.3	174.7	2.68	39.1	.00	3413
5	3446	1.555	1.288	34.674	27.764	45.4	2.707	2.92	37.5	174.7	2.68	39.1	.00	3496
	3500 ISL	1.551	1.278	34.675	27.765	45.4	2.731	2.93	37.6					3549
5	3538	1.548	1.271	34.676	27.767	45.4	2.749	2.94	37.7	175.5	2.67	39.0	.00	3590
5	3633	1.541	1.254	34.677	27.769	45.5	2.792	2.99	38.3	175.8	2.66	38.8	.00	3688
5	3734	1.536	1.238	34.678	27.771	45.7	2.838	3.02	38.7	175.9	2.65	38.7	.00	3791
	3750 ISL	1.535	1.236	34.678	27.771	45.7	2.845	3.02	38.7					3804
5	3792	1.533	1.229	34.678	27.771	45.8	2.865	3.02	38.7	175.6	2.65	38.6	.00	3851

RV NEW HORIZON SOSO STATION 67 (90 60)

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 26.1 N	119 58.4 W	27/08/82	0107 GMT	1430 M	310	14 KT	320 05 04	2	1014.2 MB	16.3 C	15.1 C	8/8	ST

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 D.BAR
	0 ISL	17.049	17.049	33.225	24.142	376.5	.000	5.66	102.5							0
9	2	17.049	17.049	33.225	24.142	376.6	.006	5.66	102.5	2.6	.36	.0	.00	.12	.01	2
	10 ISL	17.050	17.048	33.225	24.142	376.8	.038	5.67	102.6							10
9	17	17.050	17.048	33.225	24.142	377.0	.064	5.67	102.7	2.6	.36	.0	.00	.12	.02	17
	20 ISL	17.035	17.032	33.224	24.146	376.9	.075	5.67	102.6							20
	30 ISL	16.985	16.980	33.221	24.155	376.3	.113	5.66	102.4							30
9	34	16.963	16.958	33.219	24.159	376.1	.129	5.66	102.3	2.6	.37	.0	.00	.14	.03	34
9	44	16.444	16.437	33.201	24.265	366.2	.166	5.82	104.1	2.4	.38	.0	.00	.21	.04	44
	50 ISL	15.848	15.840	33.198	24.399	353.6	.187	5.96	105.5							50
9	54	15.379	15.370	33.193	24.499	344.1	.200	6.05	106.0	3.3	.38	.0	.00	.37	.10	54
9	64	14.168	14.159	33.143	24.720	323.3	.233	6.09	104.1	3.7	.39	.0	.00	.37	.19	64
9	74	13.533	13.523	33.131	24.841	311.9	.265	5.97	100.7	4.1	.45	.4	.07	.34	.22	74
	75 ISL	13.492	13.481	33.132	24.851	311.0	.269	5.96	100.5							75
9	84	13.297	13.285	33.174	24.923	304.4	.296	5.87	98.5	4.5	.51	1.0	.12	.27	.21	84
9	94	13.015	13.002	33.307	25.082	289.5	.326	5.56	92.9	6.1	.67	4.1	.16	.21	.14	94
	100 ISL	12.674	12.661	33.327	25.164	281.8	.343	5.38	89.2							101
9	104	12.387	12.373	33.336	25.227	275.9	.355	5.24	86.4	8.1	.82	7.3	.02	.15	.13	105
9	114	11.649	11.635	33.414	25.426	257.1	.380	4.83	78.4	11.4	1.02	10.9	.01	.08	.10	114
9	123	11.135	11.120	33.519	25.601	240.5	.404	4.40	70.7	14.9	1.23	14.5	.01	.04	.06	124
	125 ISL	11.056	11.040	33.537	25.629	237.9	.408	4.33	69.5							126
9	133	10.679	10.663	33.616	25.758	225.8	.428	4.02	64.0					.02	.03	134
	150 ISL	9.965	9.948	33.725	25.966	206.2	.464	3.59	56.3							151
9	153	9.853	9.835	33.740	25.996	203.4	.470	3.54	55.4	23.6	1.63	21.4	.00	.01	.02	154
9	178	9.046	9.027	33.843	26.208	183.5	.519	3.25	50.0	29.2	1.80	24.3	.00			179
	200 ISL	8.758	8.737	33.884	26.286	176.5	.558	3.23	49.4							201
9	203	8.728	8.706	33.888	26.294	175.7	.564	3.23	49.3	31.4	1.83	25.2	.00			204
	250 ISL	7.860	7.835	34.042	26.546	152.3	.640	2.39	35.8							252
9	253	7.812	7.787	34.051	26.560	151.0	.644	2.33	34.9	43.8	2.19	30.3	.00			254
	300 ISL	7.565	7.536	34.118	26.649	143.3	.714	1.72	25.6							302
9	304	7.554	7.524	34.120	26.652	143.0	.720	1.68	25.0	50.8	2.44	33.0	.00			306
	400 ISL	6.475	6.439	34.169	26.840	126.0	.849	.91	13.2							403
9	404	6.429	6.393	34.170	26.847	125.4	.853	.89	12.9	68.5	2.81	38.0	.01			406
	500 ISL	5.715	5.672	34.210	26.970	114.4	.969	.54	7.7							504
9	504	5.694	5.651	34.212	26.974	114.0	.973	.53	7.6	82.1	3.00	41.0	.00			507
	600 ISL	5.189	5.140	34.279	27.088	103.8	1.078	.45	6.3							604
	700 ISL	4.786	4.730	34.349	27.190	94.7	1.177	.36	5.0							705
9	753	4.621	4.561	34.387	27.239	90.5	1.227	.31	4.3	106.7	3.18	44.0	.00			759
	800 ISL	4.468	4.405	34.411	27.275	87.3	1.268	.35	4.9							806
	1000 ISL	3.986	3.909	34.479	27.381	78.3	1.434	.54	7.4							1008
9	1020	3.953	3.875	34.483	27.388	77.8	1.449	.56	7.7	122.9	3.19	44.5	.00			1028

RV NEW HORIZON SOSO STATION 67 (90 60)

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
32 25.0 N	119 58.0 W	27/08/82	0450 GMT	1050 M	330	16 KT			1015.5 MB	15.8 C	14.9 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 D.BAR
	0 ISL	17.087	17.087	33.213	24.124	378.2	.000	5.65	102.4							0
13	2	17.087	17.087	33.213	24.124	378.3	.008	5.65	102.4	2.4	.35	.0	.00	.09	.01	2
	10 ISL	17.090	17.088	33.212	24.123	378.7	.038	5.64	102.3							10
13	17	17.091	17.089	33.213	24.123	378.9	.064	5.64	102.2	2.4	.36	.0	.00	.09	.02	17
	20 ISL	17.088	17.084	33.213	24.124	378.9	.076	5.64	102.2							20
	30 ISL	17.076	17.071	33.212	24.126	379.0	.114	5.63	102.0							30
13	34	17.071	17.066	33.212	24.128	379.0	.130	5.63	102.0	2.4	.36	.0	.00	.09	.02	35
13	44	15.664	15.657	33.191	24.434	350.0	.164	6.01	105.9	2.4	.36	.0	.00	.26	.04	44
	50 ISL	14.781	14.774	33.173	24.613	333.1	.186	6.08	105.2							50
13	53	14.392	14.384	33.167	24.691	325.7	.197	6.12	105.1	3.6	.38	.0	.00	.35	.13	54
13	63	13.934	13.925	33.194	24.808	314.9	.228	6.07	103.3	4.0	.40	.0	.00	.35	.21	64
13	73	13.312	13.302	33.140	24.893	307.0	.258	5.94	99.7	4.0	.44	.3	.05	.30	.20	73
	75 ISL	13.294	13.284	33.168	24.918	304.6	.265	5.87	98.5							75
13	83	13.238	13.227	33.288	25.022	294.9	.289	5.59	93.8	5.7	.63	3.6	.06	.20	.18	83
13	93	12.609	12.597	33.300	25.156	282.4	.318	5.37	88.9	7.1	.74	5.9	.03	.13	.14	94
	100 ISL	12.238	12.225	33.342	25.260	272.6	.337	5.19	85.2							101
13	103	12.112	12.099	33.363	25.300	268.9	.345	5.11	83.8	9.3	.89	8.5	.01	.09	.11	103
13	113	11.910	11.896	33.421	25.383	261.2	.373	4.91	80.2	10.3	.98	10.3	.01	.07	.10	114
13	122	11.223	11.208	33.512	25.580	242.5	.394	4.58	73.7	13.8	1.18	13.7	.01	.04	.04	122
	125 ISL	11.072	11.057	33.543	25.631	237.7	.402	4.43	71.1							126
13	132	10.809	10.794	33.603	25.725	228.9	.417	4.11	65.6	17.6	1.38	16.9	.00	.02	.03	132
	150 ISL	9.851	9.834	33.772	26.021	200.9	.457	3.40	53.1							151
13	153	9.715	9.697	33.793	26.061	197.2	.462	3.32	51.8	25.5	1.69	22.3	.00	.02	-.06	153
13	176	8.920	8.901	33.881	26.258	178.7	.507	3.14	48.2	30.8	1.84	25.2	.00			177
	200 ISL	8.400	8.380	33.964	26.404	165.1	.547	2.97	45.0							201
13	201	8.384	8.363	33.967	26.408	164.7	.549	2.96	44.9	35.6	1.94	27.1	.00			202
	250 ISL	7.845	7.820	34.034	26.542	152.7	.627	2.49	37.3							252
13	251	7.840	7.815	34.035	26.543	152.6	.628	2.48	37.1	42.7	2.15	29.9	.00			252
13	298	7.446	7.417	34.103	26.654	142.7	.697	1.78	26.4	51.0	2.42	33.0	.00			300
	300 ISL	7.425	7.396	34.105	26.659	142.3	.700	1.76	26.1							302
13	393	6.548	6.513	34.165	26.827	127.2	.826	.95	13.8	66.1	2.78	37.6	.01			396
	400 ISL	6.505	6.469	34.171	26.838	126.3	.834	.91	13.2							403
13	483	6.077	6.035	34.240	26.948	116.6	.935	.52	7.5	76.9	2.97	40.0	.00			486
	500 ISL	5.980	5.937	34.251	26.969	114.7	.955	.50	7.2							504
	600 ISL	5.431	5.381	34.310	27.084	104.5	1.065	.41	5.8							604
	700 ISL	4.924	4.867	34.359	27.182	95.7	1.165	.31	4.4							705
13	744	4.714	4.655	34.377	27.221	92.3	1.206	.27	3.8	104.1	3.17	44.0	.00			750
	800 ISL	4.493	4.431	34.403	27.266	88.2	1.257	.29	4.0							806
	1000 ISL	3.918	3.842	34.482	27.390	77.3	1.422	.55	7.5							1008
13	1016	3.886	3.809	34.487	27.398	76.6	1.435	.58	7.9	123.7	3.18	44.5	.00			1025

RV NEW HORIZON SOSO STATION 68 (90 60)

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
32 27.7 N	119 57.2 W	27/08/82	1209 GMT	1502 M	310	11 KT			1014.9 MB	16.1 C	15.4 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 D.BAR
	0 ISL	17.063	17.063	33.213	24.129	377.7	.000	5.64	102.2							0
1	1	17.063	17.063	33.213	24.129	377.8	.005	5.64	102.2	2.5	.36	.1	.00	.10	.02	1
	10 ISL	17.066	17.064	33.213	24.129	378.1	.038	5.64	102.2							10
1	18	17.068	17.065	33.213	24.129	378.4	.067	5.64	102.2	2.5	.36	.0	.00	.10	.02	18
	20 ISL	17.057	17.054	33.213	24.132	378.2	.076	5.64	102.2							20
	30 ISL	17.009	17.004	33.213	24.144	377.3	.113	5.65	102.2							30
1	35	16.986	16.981	33.214	24.149	377.0	.131	5.65	102.2	2.5	.36	.0	.00	.12	.02	35
1	44	15.857	15.850	33.206	24.403	353.1	.166	5.95	105.2	2.9	.38	.0	.00	.25	.06	45
	50 ISL	15.246	15.238	33.192	24.528	341.3	.186	6.06	105.8							50
1	54	14.879	14.871	33.187	24.603	334.1	.199	6.10	105.8	3.4	.38	.0	.00	.34	.11	54
1	64	14.276	14.267	33.222	24.758	319.6	.232	6.09	104.3	3.8	.40	.0	.00	.38	.23	64
1	74	13.600	13.590	33.227	24.902	306.1	.263	5.89	99.5	4.2	.49	.8	.14	.32	.26	74
	75 ISL	13.522	13.511	33.230	24.921	304.4	.266	5.85	98.7							75
1	84	12.943	12.932	33.266	25.064	291.0	.293	5.53	92.2	5.8	.65	4.1	.07	.20	.18	84
1	93	12.281	12.269	33.325	25.238	274.5	.319	5.24	86.2	8.0	.81	7.2	.03	.09	.19	94
	100 ISL	11.735	11.722	33.391	25.392	259.9	.337	4.94	80.3							101
1	102	11.570	11.557	33.414	25.440	255.4	.343	4.84	78.4	11.4	1.03	11.0	.01	.05	.12	103
1	112	11.283	11.269	33.470	25.536	246.4	.368	4.62	74.4	13.6	1.15	13.1	.01	.05	.06	113
1	122	10.788	10.774	33.547	25.685	232.5	.391	4.30	68.6	16.2	1.31	16.0	.01	.03	.04	122
	125 ISL	10.632	10.617	33.579	25.737	227.5	.398	4.15	66.0							126
1	132	10.355	10.340	33.641	25.834	218.5	.414	3.86	61.0	19.8	1.50	18.9	.01	.02	.03	132
	150 ISL	9.834	9.817	33.756	26.012	201.8	.452	3.42	53.5							151
1	152	9.785	9.767	33.765	26.027	200.4	.456	3.39	53.0	24.6	1.68	22.1	.01	.01	.02	153
1	177	9.117	9.098	33.843	26.197	184.6	.504	3.24	49.9	29.4	1.81	24.4	.01			178
	200 ISL	8.656	8.635	33.922	26.332	172.1	.545	3.02	46.0							201
1	202	8.627	8.606	33.927	26.340	171.3	.548	3.00	45.7	33.6	1.92	26.4	.01			203
	250 ISL	7.953	7.928	34.027	26.520	154.8	.627	2.63	39.4							252
1	251	7.947	7.922	34.028	26.522	154.7	.628	2.62	39.3	41.6	2.12	29.6	.01			252
	300 ISL	7.385	7.356	34.101	26.661	142.0	.701	1.78	26.4							302
1	302	7.368	7.339	34.102	26.664	141.7	.703	1.75	25.9	51.8	2.45	33.5	.01			303
	400 ISL	6.472	6.436	34.171	26.842	125.8	.835	.88	12.8							403
1	401	6.468	6.432	34.171	26.842	125.8	.835	.88	12.8	67.8	2.82	38.1	.01			403
1	500	5.933	5.890	34.245	26.970	114.6	.955	.45	6.5	79.7	3.01	40.6	.00			503
	600 ISL	5.402	5.352	34.302	27.082	104.7	1.065	.37	5.3							604
	700 ISL	4.925	4.868	34.352	27.177	96.2	1.165	.29	4.1							705
1	743	4.735	4.675	34.371	27.214	92.9	1.206	.26	3.6	104.3	3.19	44.1	.01			749
	800 ISL	4.527	4.464	34.398	27.258	89.1	1.258	.27	3.8							806
	1000 ISL	4.002	3.926	34.477	27.377	78.7	1.425	.50	6.8							1008
1	1012	3.982	3.905	34.480	27.383	78.3	1.435	.52	7.1	122.0	3.21	44.8	.00			1020

RV NEW HORIZON SOSO STATION 69 (90 60)

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 25.2 N	119 57.7 W	27/08/82	2148 GMT	968 M	340	10 KT	310 05 06	1	1013.6 MB	17.4 C	16.7 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 D.BAR
	0 ISL	17.500	17.500	33.214	24.027	388.5	.000	5.65	103.2							0
1	1	17.500	17.500	33.214	24.027	387.6	.005	5.65	103.2	3.4	.37	.1	.00	.08	.00	1
	10 ISL	17.243	17.241	33.211	24.086	382.2	.039	5.66	102.8							10
1	15	17.098	17.096	33.212	24.121	379.1	.058	5.66	102.6	2.8	.37	.1	.00	.10	.01	15
	20 ISL	16.979	16.976	33.214	24.151	376.4	.076	5.69	102.9							20
	30 ISL	16.733	16.728	33.219	24.212	370.8	.114	5.76	103.6							30
1	35	16.608	16.603	33.221	24.243	369.0	.133	5.79	104.0	3.4	.36	.0	.00	.19	.00	35
1	44	14.612	14.605	33.169	24.646	329.8	.165	6.13	105.7	3.8	.40	.0	.00	.31	.07	45
	50 ISL	14.270	14.263	33.185	24.731	321.8	.183	6.10	104.4							50
1	54	14.140	14.132	33.194	24.765	318.7	.197	6.07	103.7	4.0	.42	.0	.00	.40	.21	54
1	64	13.146	13.137	33.145	24.930	303.2	.227	5.88	98.4	4.4	.49	.8	.11	.32	.18	64
1	74	12.933	12.923	33.191	25.008	296.0	.258	5.67	94.5	5.5	.59	2.8	.18	.20	.18	75
	75 ISL	12.902	12.891	33.190	25.013	295.5	.260	5.66	94.3							75
1	84	12.534	12.523	33.200	25.092	288.2	.286	5.54	91.5	6.1	.66	4.2	.10	.15	.15	84
1	94	12.238	12.226	33.341	25.259	272.6	.315	5.19	85.3	8.9	.85	7.8	.02	.10	.13	95
	100 ISL	11.910	11.897	33.394	25.362	262.9	.331	4.99	81.5							101
1	104	11.701	11.688	33.418	25.419	257.4	.340	4.88	79.3	11.3	1.02	10.9	.01	.07	.08	104
1	114	11.418	11.404	33.448	25.495	250.5	.366	4.73	76.4	13.0	1.11	12.4	.01	.05	.07	114
1	124	11.144	11.129	33.540	25.616	239.1	.390	4.47	71.3	15.4	1.26	14.7	.01	.03	.04	124
	125 ISL	11.091	11.076	33.550	25.634	237.5	.393	4.42	70.9							126
1	134	10.682	10.666	33.615	25.757	225.9	.414	4.04	64.3	18.8	1.42	17.5	.01	.02	.02	134
	150 ISL	9.986	9.969	33.728	25.965	206.3	.449	3.55	55.7							151
1	154	9.846	9.828	33.751	26.006	202.5	.456	3.47	54.3	24.8	1.66	21.7	.01	.01	.02	155
1	179	9.286	9.266	33.827	26.157	188.4	.505	3.26	50.4	28.1	1.78	23.8	.01			180
	200 ISL	8.824	8.802	33.902	26.290	176.1	.544	3.07	46.9							201
1	204	8.745	8.723	33.915	26.313	174.0	.550	3.03	46.3	33.1	1.90	26.0	.01			205
	250 ISL	7.885	7.860	34.041	26.542	152.8	.626	2.51	37.7							252
1	253	7.834	7.809	34.048	26.554	151.6	.631	2.47	37.0	43.7	2.16	30.0	.01			255
	300 ISL	7.495	7.466	34.117	26.658	142.4	.700	1.72	25.5							302
1	303	7.480	7.451	34.119	26.662	142.0	.704	1.67	24.8	51.9	2.46	33.3	.01			305
	400 ISL	6.520	6.483	34.158	26.825	127.4	.835	.96	13.9							403
1	402	6.497	6.461	34.158	26.828	127.1	.838	.95	13.8	67.3	2.80	38.0	.01			405
	500 ISL	5.982	5.938	34.255	26.972	114.5	.956	.47	6.7							504
1	502	5.973	5.930	34.257	26.975	114.2	.958	.46	6.6	79.5	3.03	40.6	.01			505
	600 ISL	5.394	5.344	34.321	27.097	103.3	1.064	.40	5.7							604
	700 ISL	4.867	4.811	34.370	27.198	94.2	1.163	.34	4.8							705
1	751	4.623	4.563	34.388	27.240	90.4	1.210	.31	4.3	107.0	3.20	44.4	.01			757
	800 ISL	4.526	4.463	34.404	27.263	88.5	1.254	.32	4.4							806
	1000 ISL	4.130	4.053	34.468	27.358	80.9	1.423	.50	6.8							1008
1	1003	4.135	4.057	34.467	27.356	81.0	1.426	.50	6.9	119.0	3.20	44.7	.01			1011

RV NEW HORIZON — SOSO — STATION 69 (90 60)

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 24.9 N	119 58.0 W	28/08/82	0232 GMT	836 M	320	04 KT	320 04 06	1	1013.5 MB	17.0 C	16.3 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 D.BAR
	0 ISL	17.508	17.508	33.214	24.025	388.8	.000	5.62	102.7							0
5	2	17.508	17.508	33.214	24.025	387.8	.007	5.62	102.7	2.7	.37	.3	.00	.07	.01	2
	10 ISL	17.286	17.284	33.211	24.076	383.1	.039	5.63	102.4							10
5	17	17.104	17.102	33.212	24.120	379.2	.064	5.64	102.2	2.7	.37	.2	.00	.08	.01	17
	20 ISL	17.027	17.024	33.215	24.140	377.4	.077	5.66	102.4							20
	30 ISL	16.769	16.764	33.221	24.205	371.5	.114	5.74	103.3							30
5	34	16.652	16.647	33.223	24.234	368.9	.130	5.78	103.9	2.1	.39	.1	.00	.18	.01	34
5	45	16.280	16.273	33.218	24.316	361.4	.168	5.89	105.1	2.3	.40	.2	.00	.22	.04	45
	50 ISL	15.411	15.403	33.196	24.494	344.5	.187	6.04	105.8							50
5	54	14.696	14.688	33.179	24.636	331.0	.200	6.13	105.9	3.5	.40	.1	.00	.27	.11	54
5	64	13.809	13.800	33.121	24.777	317.7	.232	6.07	102.9	3.7	.43	.2	.00	.36	.14	64
5	74	13.190	13.180	33.143	24.920	304.4	.262	5.89	98.6	4.0	.49	.8	.10	.31	.19	74
	75 ISL	13.146	13.136	33.147	24.931	303.3	.267	5.87	98.2							75
5	84	12.914	12.903	33.180	25.003	296.7	.293	5.71	95.1	4.8	.59	2.4	.18	.22	.19	84
5	93	12.504	12.492	33.231	25.122	285.5	.321	5.47	90.3	6.4	.70	5.0	.06	.13	.15	94
	100 ISL	12.075	12.062	33.306	25.262	272.4	.339	5.23	85.7							101
5	103	11.881	11.868	33.345	25.329	266.0	.348	5.11	83.3	9.5	.91	8.8	.02	.09	.09	104
5	113	11.608	11.594	33.436	25.450	254.7	.374	4.77	77.4	11.9	1.08	11.8	.01	.06	.07	114
5	123	11.035	11.020	33.510	25.612	239.4	.399	4.47	71.7	15.0	1.25	14.7	.01	.04	.04	124
	125 ISL	10.971	10.956	33.521	25.632	237.6	.403	4.43	70.8							126
5	133	10.730	10.714	33.571	25.714	229.9	.422	4.22	67.2	17.2	1.37	16.7	.01	.03	.02	134
	150 ISL	10.043	10.026	33.723	25.950	207.7	.459	3.57	56.1							151
5	152	9.948	9.930	33.743	25.982	204.7	.464	3.49	54.7	23.7	1.66	21.5	.00	.01	.02	153
5	177	9.217	9.197	33.839	26.178	186.4	.511	3.23	49.8	28.4	1.81	24.3	.01			178
	200 ISL	8.728	8.707	33.896	26.300	175.1	.554	3.19	48.7							201
5	201	8.713	8.692	33.897	26.303	174.8	.555	3.19	48.7	31.5	1.88	25.7	.01			202
	250 ISL	8.136	8.111	34.007	26.478	158.9	.637	2.83	42.7							252
5	251	8.130	8.104	34.009	26.480	158.7	.638	2.82	42.5	38.2	2.03	28.5	.01			252
5	300	7.569	7.540	34.100	26.634	144.7	.714	1.88	28.0	49.2	2.39	32.7	.01			302
5	399	6.395	6.360	34.166	26.848	125.2	.847	.89	12.9	68.7	2.83	38.6	.01			402
	400 ISL	6.391	6.355	34.166	26.848	125.1	.848	.89	12.8							403
5	499	5.928	5.885	34.260	26.983	113.4	.966	.44	6.3	79.8	3.03	40.6	.01			503
	500 ISL	5.925	5.882	34.260	26.983	113.3	.967	.44	6.3							504
	600 ISL	5.385	5.335	34.312	27.091	103.8	1.076	.36	5.1							604
5	695	4.898	4.842	34.350	27.178	96.0	1.171	.28	3.9	100.5	3.16	43.7	.01			700
	700 ISL	4.876	4.820	34.353	27.183	95.6	1.175	.28	3.9							705
	800 ISL	4.494	4.431	34.410	27.271	87.7	1.267	.35	4.9							806
5	834	4.385	4.320	34.431	27.300	85.1	1.297	.40	5.5	112.1	3.18	44.5	.01			841

RV NEW HORIZON SOSO STATION 70 (90 50)

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
32 45.2 N	119 16.2 W	28/08/82	1002 GMT	372 M	180	06 KT			1014.5 MB	18.0 C	16.9 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 D.BAR
	0 ISL	17.203	17.203	33.512	24.325	361.0	.000	5.73	104.3							0
1	1	17.203	17.203	33.512	24.325	359.1	.004	5.73	104.3	1.7	.38	.1	.00	.23	.02	1
	10 ISL	16.749	16.747	33.536	24.451	347.4	.035	5.78	104.3							10
1	12	16.651	16.649	33.539	24.476	345.1	.043	5.79	104.2	1.7	.39	.2	.01	.25	.03	12
	20 ISL	16.453	16.450	33.561	24.539	339.3	.070	5.82	104.5							20
1	25	16.193	16.190	33.537	24.580	335.5	.086	5.84	104.2	1.8	.44	.9	.06	.49	.14	25
	30 ISL	15.538	15.534	33.429	24.645	329.5	.103	5.85	103.0							30
1	34	14.796	14.791	33.329	24.730	321.5	.117	5.86	101.5	3.7	.58	2.3	.23	.49	.30	34
1	43	12.595	12.589	33.200	25.080	288.3	.143	5.67	93.8	5.3	.71	4.3	.38	.37	.25	43
	50 ISL	12.183	12.177	33.268	25.211	276.0	.163	5.36	87.9							50
1	52	12.054	12.047	33.266	25.234	273.8	.170	5.26	86.1	8.2	.90	8.1	.21	.22	.14	53
1	62	11.773	11.765	33.336	25.341	263.8	.196	5.02	81.7	10.2	1.04	10.4	.07	.16	.10	63
1	72	11.248	11.239	33.468D	25.540	245.1	.221	4.59	73.9	14.1	1.25	14.1	.04	.08	.08	72
	75 ISL	11.077	11.067	33.480	25.581	241.3	.229	4.52	72.6							75
1	82	10.707	10.698	33.496	25.658	234.0	.244	4.41	70.2	16.1	1.33	15.7	.03	.06	.07	82
1	91	10.197	10.187	33.558	25.795	221.2	.266	4.19	66.0	18.4	1.43	17.7	.03	.04	.04	92
	100 ISL	9.839	9.828	33.619	25.903	211.0	.285	3.96	61.9							101
1	101	9.813	9.801	33.625	25.912	210.2	.287	3.94	61.5	21.4	1.55	19.6	.02	.02	.03	101
1	111	9.665	9.652	33.679	25.979	204.0	.307	3.73	58.1	23.2	1.63	21.0	.02	.02	.03	111
1	121	9.575	9.561	33.803	26.091	193.6	.328	3.15	49.0	27.5	1.82	23.8	.02	.01	.03	122
	125 ISL	9.524	9.510	33.814	26.108	192.1	.336	3.16	49.1							126
1	131	9.433	9.418	33.821	26.128	190.2	.347	3.18	49.3	28.2	1.84	24.0	.03	.01	.04	132
1	141	9.235	9.219	33.883	26.209	182.8	.366	3.00	46.3	30.6	1.90	24.9	.04	.01	.04	142
	150 ISL	9.215	9.199	33.902	26.227	181.2	.382	2.92	45.1							151
1	151	9.213	9.196	33.903	26.229	181.1	.384	2.91	44.9	31.4	1.93	25.2	.04	.01	.05	152
1	176	8.921	8.902	33.995	26.347	170.3	.428	2.57	39.4	35.0	2.05	26.9	.04			177
	200 ISL	8.556	8.535	34.083	26.473	158.6	.467	2.13	32.4							201
1	202	8.531	8.510	34.088	26.481	157.9	.470	2.10	32.0	41.0	2.24	29.4	.08			203
	250 ISL	7.856	7.831	34.143	26.626	144.8	.543	1.71	25.6							252
1	252	7.833	7.808	34.143	26.629	144.5	.546	1.70	25.5	48.7	2.44	32.3	.02			253
	300 ISL	7.502	7.473	34.191	26.716	137.0	.613	1.27	18.8							302
1	327	7.398	7.366	34.213	26.748	134.3	.650	1.05	15.6	57.8	2.71	35.1	.02			329
1	352	7.294	7.260	34.228	26.775	132.1	.683	.92	13.6	60.1	2.76	35.7	.02			354
1	372	7.256	7.220	34.234	26.785	131.4	.710	.87	12.9	60.6	2.79	35.8	.02			375

RV NEW HORIZON SOSO STATION 71 (90 37)

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 11.0 N	118 23.2 W	28/08/82	1638 GMT	1156 M	00		1	1016.0 MB	21.0 C	19.0 C	7/8	ST

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 D.BAR
	0 ISL	20.500	20.176	33.550	23.611	435.3	.000		107.4							0
1	1	20.176	20.176	33.542	23.605	427.8	.004	5.58	107.4	1.7	.31	.2	.00	.32	.03	1
	10 ISL	18.519	18.517	33.490	23.990	391.4	.041	5.79	108.1							10
1	15	18.098	18.096	33.457	24.068	384.0	.062	5.91	109.4	2.0	.32	.2	.00	.31	.03	16
	20 ISL	17.515	17.511	33.439	24.196	372.1	.079	6.00	109.8							20
	30 ISL	16.171	16.166	33.392	24.474	345.8	.115	6.18	110.0							30
1	33	15.769	15.763	33.378	24.554	338.3	.125	6.22	109.9	2.8	.38	.0	.00	.38	.12	33
1	42	14.237	14.231	33.322	24.843	310.9	.156	6.34	108.6	3.8	.43	.2	.00	.36	.10	42
	50 ISL	13.612	13.605	33.338	24.984	297.7	.179	6.08	102.8							50
1	52	13.485	13.478	33.350	25.020	294.3	.185	5.96	100.5	5.0	.54	2.0	.05	.36	.14	52
1	62	12.667	12.659	33.461	25.269	270.9	.212	5.21	86.5	7.6	.85	7.4	.25	.41	.27	62
1	71	12.029	12.020	33.470	25.398	258.7	.238	4.82	78.9	10.0	1.00	10.2	.16	.33	.18	72
	75 ISL	11.932	11.922	33.493	25.434	255.4	.247	4.67	76.4							75
1	81	11.792	11.782	33.541	25.497	249.5	.264	4.41	71.9	12.0	1.17	13.0	.06	.22	.16	82
1	91	11.316	11.305	33.610	25.639	236.2	.287	3.94	63.6	15.8	1.35	16.1	.03	.12	.14	92
	100 ISL	10.759	10.747	33.644	25.765	224.3	.308	3.90	62.2							101
1	101	10.719	10.707	33.646	25.773	223.5	.309	3.90	62.2	18.2	1.43	17.7	.02	.08	.10	101
1	110	10.316	10.304	33.683	25.872	214.3	.330	3.78	59.7	20.2	1.51	19.3	.02	.05	.08	111
1	120	9.943	9.929	33.788	26.018	200.6	.351	3.31	51.9	24.2	1.69	21.8	.01	.02	.06	121
	125 ISL	9.871	9.856	33.810	26.047	198.0	.360	3.24	50.8							126
1	130	9.813	9.798	33.825	26.069	196.0	.371	3.21	50.2	25.4	1.73	22.5	.01	.01	.04	131
1	150	9.390	9.373	33.925	26.217	182.2	.408	2.96	45.9	29.6	1.85	24.3	.01	.00	.03	151
1	175	9.102	9.083	34.021	26.339	171.1	.452	2.58	39.8	33.6	2.01	26.4	.02			176
1	200	8.867	8.845	34.078	26.421	163.7	.494	2.31	35.4	36.6	2.11	27.7	.02			201
1	250	8.635	8.608	34.215	26.565	150.9	.572	1.55	23.7	43.8	2.40	30.2	.03			251
1	300	8.302	8.271	34.244	26.640	144.7	.646	1.30	19.7	48.1	2.53	31.8	.02			301
1	399	7.517	7.478	34.268	26.775	133.1	.785	.81	12.1	58.3	2.75	34.9	.02			402
	400 ISL	7.511	7.472	34.268	26.776	133.0	.785	.81	12.0							403
1	499	6.655	6.609	34.319	26.936	118.7	.910	.39	5.7	72.2	2.99	38.2	.01			503
	500 ISL	6.650	6.603	34.320	26.937	118.6	.911	.39	5.7							504
	600 ISL	5.973	5.920	34.354	27.052	108.3	1.025	.33	4.7							604
	700 ISL	5.422	5.363	34.383	27.144	100.2	1.129	.27	3.8							705
1	749	5.199	5.136	34.394	27.179	97.1	1.177	.24	3.4	99.5	3.19	42.0	.02			755
	800 ISL	4.971	4.905	34.409	27.218	93.7	1.226	.26	3.6							806
	1000 ISL	4.307	4.229	34.462	27.334	83.5	1.403	.33	4.6							1008
1	1016	4.269	4.189	34.466	27.342	82.9	1.417	.34	4.7	121.2	3.26	42.8	.01			1025

RV NEW HORIZON 5050 STATION 71 (90 37)

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 11.0 N	118 23.0 W	29/08/82	0239 GMT	1170 M	270	10 KT	270 02 04	1	1013.5 MB	19.7 C	17.4 C	6/8	ST

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 D.BAR
	0 ISL	20.370	20.359	33.553	23.565	431.8	.000		107.6							0
11	2	20.359	20.359	33.553	23.565	431.6	.008	5.57	107.6	2.2	.32	.2	.00	.24	.03	2
	10 ISL	19.304	19.302	33.512	23.809	408.7	.042	5.78	109.6							10
11	17	17.873	17.870	33.463	24.128	378.4	.069	5.95	109.6	2.6	.34	.2	.00	.36	.05	17
	20 ISL	17.079	17.076	33.429	24.292	362.9	.081	6.06	109.9							20
	30 ISL	14.973	14.969	33.367	24.720	322.3	.115	6.28	109.2							30
11	33	14.410	14.405	33.356	24.833	311.7	.125	6.31	108.5	3.6	.42	.2	.00	.66	.10	33
11	43	14.002	13.996	33.359	24.921	303.6	.156	6.12	104.4	4.7	.52	1.3	.07	.69	.15	43
	50 ISL	13.621	13.614	33.359	25.000	296.2	.176	5.95	100.6							50
11	53	13.443	13.436	33.362	25.038	292.6	.185	5.86	98.8	5.9	.62	2.8	.11			53
11	63	12.953	12.944	33.398	25.164	280.9	.214	5.59	93.3	6.5	.69	4.6	.12	.43	.16	63
11	73	12.698	12.688	33.491	25.286	269.5	.242	5.02	83.4	7.9	.92	8.2	.43	.42	.23	73
	75 ISL	12.542	12.532	33.506	25.328	265.5	.247	4.86	80.5							75
11	83	11.881	11.871	33.561	25.496	249.6	.266	4.27	69.7	12.7	1.22	13.5	.05	.22	.15	83
11	92	11.404	11.393	33.607	25.620	238.0	.289	3.94	63.7	15.8	1.36	16.0	.02	.14	.16	92
	100 ISL	11.001	10.989	33.636	25.716	229.1	.308	3.87	62.0							101
11	102	10.922	10.910	33.641	25.734	227.4	.311	3.86	61.8	17.8	1.43	17.3	.02	.09	.11	102
11	111	10.412	10.399	33.682	25.855	216.0	.332	3.76	59.5	20.0	1.50	18.9	.01	.06	.09	111
11	121	10.113	10.100	33.766	25.972	205.0	.353	3.38	53.2	23.3	1.66	21.2	.01	.03	.06	121
	125 ISL	9.965	9.950	33.791	26.017	200.9	.362	3.30	51.7							126
11	130	9.787	9.772	33.819	26.068	196.0	.372	3.22	50.3	25.7	1.74	22.6	.01	.02	.04	131
11	150	9.537	9.520	33.939	26.204	183.5	.410	2.85	44.3	29.5	1.88	24.5	.01	.01	.03	151
11	175	9.074	9.055	34.000	26.327	172.2	.454	2.69	41.4	33.1	1.98	26.2	.01			176
11	200	8.909	8.887	34.088	26.422	163.6	.495	2.29	35.2	36.4	2.13	27.9	.01			201
11	250	8.693	8.666	34.228	26.566	150.9	.575	1.50	22.9	43.6	2.42	30.3	.02			252
	300 ISL	8.308	8.277	34.264	26.655	143.3	.648	1.16	17.5							302
11	301	8.296	8.265	34.264	26.656	143.1	.650	1.15	17.4	49.1	2.58	32.2	.01			303
11	398	7.436	7.397	34.274	26.792	131.4	.783	.77	11.4	59.3	2.79	35.4	.01			401
	400 ISL	7.423	7.384	34.275	26.794	131.2	.785	.76	11.3							403
11	500	6.691	6.645	34.320	26.932	119.2	.911	.42	6.1	71.2	2.99	38.2	.00			503
	600 ISL	6.066	6.013	34.351	27.039	109.7	1.025	.36	5.2							604
	700 ISL	5.524	5.464	34.378	27.128	101.9	1.131	.30	4.2							705
11	743	5.314	5.251	34.388	27.161	98.9	1.174	.27	3.8	95.6	3.19	41.9	.01			749
	800 ISL	5.053	4.986	34.405	27.205	95.0	1.229	.29	4.0							806
	1000 ISL	4.306	4.228	34.462	27.335	83.4	1.408	.35	4.8							1008
11	1012	4.269	4.189	34.466	27.342	82.8	1.418	.35	4.8	121.1	3.27	42.6	.00			1021

RV NEW HORIZON SOSO STATION 72 (90 30)

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 25.0 N	117 54.0 W	29/08/82	1313 GMT	617 M	310	03 KT		2	1015.4 MB	20.4 C	19.8 C	8/8	ST

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 D.BAR
	0 ISL	21.637	21.637	33.651	23.295	459.7	.000	5.49	108.6							0
1	1	21.637	21.637	33.651	23.295	457.4	.006	5.49	108.5	1.5	.24	.1	.00	.31	.02	1
	10 ISL	20.573	20.571	33.599	23.544	434.0	.045	5.67	110.1							10
1	12	20.253	20.251	33.581	23.615	427.2	.052	5.72	110.3	1.7	.26	.0	.00	.27	.03	12
	20 ISL	18.079	18.075	33.480	24.091	382.1	.086	5.99	110.8							20
1	24	16.942	16.938	33.438D	24.331	359.3	.102	6.12	110.7	2.2	.34	.0	.00	.26	.05	25
	30 ISL	16.241	16.236	33.384	24.452	347.9	.122	6.20	110.7							30
1	34	15.846	15.840	33.352	24.517	341.8	.136	6.24	110.4	3.4	.38	.0	.00	.23	.06	34
1	44	14.701	14.694	33.361	24.775	317.5	.168	6.27	108.5	3.8	.42	.2	.00	.34	.11	44
	50 ISL	13.822	13.815	33.378	24.972	298.8	.187	6.00	102.0							50
1	53	13.431	13.424	33.391	25.063	290.3	.196	5.83	98.3	5.8	.62	2.9	.12	.52	.17	53
1	63	13.033	13.024	33.439	25.180	279.4	.225	5.43	90.8	7.6	.79	5.8	.26	.42	.21	63
1	72	12.310	12.301	33.522	25.385	260.0	.250	4.55	75.0	11.4	1.10	11.1	.15	.22	.20	73
	75 ISL	12.170	12.161	33.535	25.422	256.6	.256	4.44	73.0							75
1	82	11.811	11.801	33.562	25.510	248.3	.275	4.28	69.8	13.4	1.23	13.6	.08	.17	.19	83
1	92	11.251	11.240	33.603	25.645	235.6	.298	4.06	65.4	16.0	1.35	16.1	.05	.11	.15	92
	100 ISL	10.816	10.804	33.637	25.749	225.9	.317	3.95	63.1							101
1	102	10.740	10.728	33.643	25.768	224.1	.320	3.93	62.7	18.2	1.43	17.7	.03	.08	.12	102
1	111	10.450	10.437	33.687	25.853	216.2	.342	3.77	59.7	19.9	1.52	19.0	.03			112
1	121	10.223	10.209	33.735	25.929	209.1	.363	3.64	57.4	21.7	1.57	19.9	.02	.04	.08	122
	125 ISL	10.155	10.141	33.762	25.962	206.1	.371	3.49	55.0							126
1	131	10.057	10.042	33.806	26.013	201.4	.383	3.24	50.9	24.5	1.70	21.8	.02			132
	150 ISL	9.795	9.778	33.888	26.121	191.4	.420	2.94	45.9							151
1	151	9.785	9.767	33.890	26.125	191.1	.422	2.93	45.8	27.5	1.84	23.8	.02	.01	.04	152
	200 ISL	9.412	9.389	34.058	26.319	173.7	.512	2.39	37.2							201
1	201	9.409	9.386	34.060	26.320	173.5	.513	2.39	37.1	33.3	2.05	26.4	.02	.01	.04	202
	250 ISL	9.168	9.141	34.133	26.417	165.3	.596	2.12	32.8							252
1	251	9.165	9.137	34.133	26.418	165.2	.597	2.12	32.7	36.0	2.17	28.0	.02			252
	300 ISL	8.758	8.725	34.207	26.541	154.3	.676	1.65	25.2							302
1	302	8.743	8.711	34.209	26.545	154.0	.679	1.63	24.9	42.4	2.38	30.2	.02			303
	400 ISL	7.939	7.898	34.275	26.720	138.7	.823	.93	14.0							403
1	402	7.922	7.881	34.275	26.722	138.5	.825	.92	13.8	53.2	2.69	33.6	.01			405
	500 ISL	6.986	6.938	34.306	26.881	124.2	.954	.49	7.1							504
1	502	6.969	6.921	34.306	26.883	124.0	.956	.48	7.1	67.6	2.95	37.0	.03			505
	600 ISL	5.921	5.868	34.345	27.052	108.2	1.070	.22	3.2							604
1	601	5.912	5.860	34.346	27.053	108.1	1.072	.22	3.2	86.1	3.16	39.5	.12			606
1	611	5.904	5.851	34.347	27.056	108.0	1.083	.21	3.0	86.9	3.17	39.6	.10			616

RV NEW HORIZON SOSO STATION 72 (90 30)

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 26.0 N	117 53.8 W	30/08/82	0348 GMT		300	12 KT			1013.0 MB	20.1 C	18.8 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 D.BAR
	0 ISL	21.331	21.331	33.598	23.339	454.1	.000	5.50	108.2							0
16	2	21.331	21.331	33.598	23.339	453.2	.008	5.50	108.2	.3	.27	.1	.00	.26	.02	2
16	10	21.132	21.130	33.591	23.388	448.9	.045	5.51	108.0	1.1	.28	.1	.00	.27	.02	10
	20 ISL	20.246	20.242	33.528	23.577	431.2	.089	5.63	108.6							20
16	26	19.025	19.021	33.465	23.844	405.9	.114	5.83	109.8	.2	.32	.0	.00	.31	.02	26
	30 ISL	17.512	17.507	33.426	24.187	373.2	.130	6.09	111.5							30
16	35	15.788	15.782	33.409	24.574	336.5	.146	6.37	112.7	1.2	.38	.0	.00	.34	.05	35
16	44	14.391	14.384	33.367	24.846	310.8	.176	6.39	109.8	2.2	.43	.0	.00	.30	.14	44
	50 ISL	13.798	13.791	33.383	24.982	298.0	.195	6.18	105.0							50
16	53	13.555	13.547	33.399	25.043	292.1	.205	6.02	101.7	3.8	.57	1.8	.07	.62	.18	54
16	63	13.093	13.084	33.450	25.176	279.7	.234	5.52	92.4	5.4	.72	4.3	.32	.43	.20	64
16	73	12.355	12.345	33.519	25.374	261.1	.260	4.65	76.7	8.6	1.06	10.4	.34	.25	.16	74
	75 ISL	12.228	12.219	33.530	25.407	258.0	.265	4.54	74.7							75
16	83	11.674	11.664	33.580	25.550	244.6	.284	4.19	68.1	12.2	1.26	14.5	.07	.18	.18	83
16	92	11.065	11.054	33.624	25.695	230.9	.307	3.99	64.1	17.1	1.38	16.7	.05	.11	.15	93
	100 ISL	10.774	10.762	33.623	25.746	226.2	.324	4.06	64.8							101
16	102	10.723	10.711	33.622	25.754	225.4	.329	4.08	65.0	17.7	1.37	16.9	.04	.09	.11	102
16	112	10.501	10.488	33.653	25.817	219.6	.351	3.96	62.8	19.3	1.44	18.0	.03	.07	.10	112
16	122	10.319	10.305	33.715	25.897	212.2	.372	3.68	58.2	21.3	1.56	19.6	.02	.06	.06	122
	125 ISL	10.259	10.245	33.728	25.917	210.3	.379	3.63	57.2							126
16	131	10.150	10.135	33.748	25.952	207.1	.392	3.54	55.8	22.2	1.61	20.6	.01	.04	.08	132
	150 ISL	9.820	9.803	33.853	26.090	194.4	.430	3.16	49.4							151
16	151	9.808	9.790	33.858	26.096	193.8	.431	3.14	49.1	26.2	1.77	22.9	.01			152
16	175	9.693	9.673	34.002	26.228	181.8	.478	2.62	40.9	30.4	1.95	25.0	.01			176
16	196	9.704	9.681	34.072	26.281	177.3	.514	2.43	38.0	32.0	2.03	25.8	.01			197
	200 ISL	9.693	9.670	34.084	26.292	176.3	.522	2.39	37.4							201
	250 ISL	9.221	9.194	34.164	26.433	163.8	.607	2.02	31.3							252
16	251	9.212	9.184	34.164	26.435	163.7	.608	2.02	31.2	37.3	2.21	28.1	.02			252

RV NEW HORIZON SOSO STATION 73 (90 30)

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
33 25.3 N	117 55.8 W	30/08/82	1000 GMT	620 M	290 04 KT		1	1013.7 MB	20.4 C	19.0 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 D.BAR
	0 ISL	21.310	21.310	33.598	23.344	453.9	.000	5.45	107.2							0
1	1	21.310	21.310	33.598	23.344	452.7	.004	5.45	107.2	1.1	.27	.1	.00	.22	.04	1
	10 ISL	20.519	20.517	33.567	23.534	434.9	.044	5.54	107.4							10
1	12	20.315	20.313	33.555	23.579	430.7	.052	5.56	107.3	1.9	.28	.1	.00	.27	.02	12
	20 ISL	19.069	19.065	33.475	23.841	406.0	.087	5.87	110.7							20
1	25	17.937	17.933	33.412	24.074	383.9	.108	6.09	112.3	2.4	.34	.1	.00	.30	.05	26
	30 ISL	16.594	16.589	33.368	24.359	356.8	.125	6.21	111.6							30
1	34	15.337	15.331	33.339	24.620	332.0	.140	6.26	109.7	2.8	.39	.0	.00	.28	.07	34
1	43	13.551	13.545	33.267	24.942	301.5	.168	6.02	101.7	4.3	.50	1.1	.06	.55	.18	43
	50 ISL	13.100	13.093	33.255	25.024	293.8	.188	5.72	95.6							50
1	53	13.011	13.004	33.269D	25.052	291.2	.197	5.56	92.8	6.2	.68	4.2	.18	.51	.22	53
1	63	12.415	12.407	33.466	25.321	265.9	.224	4.93	81.4	8.9	.97	8.9	.32	.28	.20	63
1	73	12.005	11.996	33.502	25.427	256.0	.250	4.58	75.0	11.6	1.11	11.8	.12	.22	.20	73
	75 ISL	11.927	11.917	33.523	25.458	253.1	.256	4.46	72.9							75
1	82	11.712	11.702	33.582	25.544	245.0	.274	4.14	67.4	14.5	1.28	14.7	.07	.16	.15	83
1	92	11.384	11.373	33.607D	25.624	237.7	.299	3.92	63.4	16.8	1.39	16.7	.04	.12	.15	93
	100 ISL	10.992	10.980	33.618	25.703	230.3	.316	3.93	63.0							101
1	102	10.894	10.882	33.621	25.723	228.4	.320	3.93	62.9	18.0	1.41	17.5	.03			102
1	112	10.528	10.515	33.672D	25.828	218.6	.343	3.80	60.3	19.5	1.49	18.9	.02			112
1	121	10.254	10.240	33.708	25.903	211.6	.363	3.67	57.9	21.2	1.56	20.0	.02			122
	125 ISL	10.209	10.194	33.724	25.924	209.7	.371	3.60	56.8							126
1	131	10.144	10.129	33.755	25.958	206.5	.384	3.47	54.6	23.0	1.63	21.1	.02			132
	150 ISL	9.713	9.697	33.846	26.102	193.2	.421	3.18	49.6							151
1	151	9.692	9.675	33.851	26.110	192.5	.423	3.16	49.3	27.0	1.78	23.4	.01			152
1	176	9.569	9.549	34.015	26.259	178.9	.469	2.53	39.4	31.5	1.99	25.9	.01			177
	200 ISL	9.531	9.509	34.081	26.317	173.9	.512	2.32	36.1							201
1	201	9.530	9.507	34.082	26.318	173.8	.513	2.32	36.1	33.4	2.06	26.8	.02			202
	250 ISL	8.907	8.880	34.114	26.444	162.6	.596	2.17	33.3							252
1	252	8.881	8.854	34.115	26.449	162.2	.599	2.16	33.1	37.7	2.19	28.9	.02			253
	300 ISL	8.699	8.667	34.215	26.556	152.9	.675	1.59	24.3							302
1	302	8.694	8.662	34.219	26.560	152.5	.678	1.56	23.8	43.5	2.42	30.9	.02			304
	400 ISL	7.850	7.809	34.269	26.728	137.8	.820	.92	13.8							403
1	402	7.831	7.790	34.269	26.731	137.6	.823	.91	13.6	54.4	2.72	34.9	.01			404
	500 ISL	6.907	6.859	34.312	26.896	122.7	.951	.45	6.6							504
1	503	6.882	6.835	34.313	26.901	122.3	.954	.44	6.5	68.9	2.98	38.3	.04			506
	600 ISL	5.951	5.898	34.346	27.049	108.6	1.066	.21	3.0							604
1	601	5.939	5.887	34.346	27.050	108.5	1.068	.21	3.0	86.7	3.17	40.8	.09			605

RV NEW HORIZON — EXPEDITION SOSO — STATION 2 - 3

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
21 58.9 N	157 17.0 W	31/07/82	2105 GMT	29M		1200-1925	276.43 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	4.05	2.52	3.29	0.63					0.08	0.01	1
5	77	6.40	4.83	5.61	0.78					0.08	0.02	5
16	44	4.48	6.53	5.50	0.82					0.07	0.01	16
26	25	1.31	1.00	1.15	0.34					0.08	0.01	26
47	8.5	2.62	2.28	2.45	0.67					0.12	0.02	47
95	0.65	3.92	1.43	2.68	0.38					0.23	0.16	95

RV NEW HORIZON — EXPEDITION SOSO — STATION 2 - 4

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
21 58.9 N	157 17.0 W	31/07/82	2105 GMT	29M		1200-1925	282.03 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	0.51	0.67	.059	0.26					0.16	0.01	1
5	77	2.12	0.96	1.54	0.47					0.06	0.01	5
16	44	6.75	8.11	7.43	1.23					0.07	0.02	16
26	25	4.83	5.18	5.01	0.83					0.07	0.03	26
47	8.5	0.22	1.50	0.86	0.43					0.10	0.02	47
95	0.65	2.34	4.60	3.47	0.38					0.23	0.19	95

RV NEW HORIZON — EXPEDITION SOSO — STATION 4 - 1

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
23 50.2 N	156 35.9 W	01/08/82	2148 GMT	29M*		1230-1915	186.11 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	3.71	2.79	3.25	0.48	2.2	0.05	0.2	0.00	0.06	0.01	1
5	77	3.43	2.08	2.75	0.28	2.0	0.04	0.1	0.01	0.06	0.01	5
16	44	2.22	1.33	1.77	0.49	1.8	0.05	0.1	0.00	0.06	0.01	16
26	25	0.71	1.26	0.98	0.36	1.8	0.04	0.1	0.00	0.06	0.01	26
47	8.5	3.14	3.05	3.09	0.13	2.0	0.03	0.1	0.00	0.11	0.02	47
95	0.65	0.69	0.58	0.63	0.16	2.2	0.12	0.1	0.02	0.23	0.21	95

* ASSUMED VALUE

RV NEW HORIZON — EXPEDITION SOSO — STATION 4 - 2

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
23 50.2 N	156 35.9 W	01/08/82	2148 GMT	29M*		1230-1915	195.81 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	2.89	1.14	2.02	0.68	2.2	0.04	0.2	0.00	0.06	0.01	1
5	77	2.08	2.07	2.07	0.46	1.8	0.05	0.1	0.00	0.06	0.01	5
16	44	3.90	4.25	4.08	0.66	1.8	0.04	0.1	0.00	0.06	0.01	16
26	25	1.11	1.03	1.07	0.39	2.0	0.04	0.1	0.00	0.05	0.00	26
47	8.5	2.39	2.33	2.36	0.78	2.0	0.03	0.1	0.00	0.11	0.03	47
95	0.65	0.68	2.11	1.40	0.64	2.2	0.12	0.1	0.01	0.17	0.14	95

*ASSUMED VALUE

RV NEW HORIZON — EXPEDITION SOSO — STATION 5 -11

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
23 59.1 N	156 32.7 W	02/08/82	2144 GMT	28M*		1225-1915	176.94 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	0.29	0.36	0.32	0.47					0.06	0.01	1
5	77	4.16	5.27	4.72	0.94					0.05	0.01	5
15	44	3.86	4.39	4.12	0.54					0.05	0.01	15
25	25	1.43	1.71	1.57	0.51					0.05	0.01	25
45	8.5	1.58	1.82	1.70	0.68					0.08	0.01	45
92	0.65	0.72	1.09	0.91	0.24					0.17	0.14	92

* VALUE ESTIMATED DUE TO BAD GLITTER ON WATER SURFACE.

RV NEW HORIZON — EXPEDITION SOSO — STATION 6 -12

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
24 0.7 N	156 32.0 W	03/08/82	2058 GMT	27M*	106M	1145-1910	254.57 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	0.28	0.49	0.38	0.54					0.05	0.01	1
6	77	0.99	1.01	1.00	0.55					0.05	0.01	6
19	44	6.28	6.36	6.32	1.01					0.05	0.01	19
32	25	3.35	2.88	3.11	0.74					0.05	0.01	32
56	8.5	0.94	0.49	0.72	0.55					0.08	0.02	56
115	0.65	3.15	1.91	2.53	0.41					0.22	0.20	115

* APPROXIMATE VALUE DUE TO BAD GLITTER ON WATER SURFACE. CAST DEPTH BASED ON 1% LIGHT LEVEL.

RV NEW HORIZON — EXPEDITION SOSO — STATION 8 - 5

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
25 59.9 N	155 46.5 W	04/08/82	2058 GMT	30M	96M	1145-1910	274.22 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	3.15	2.58	2.87	0.45					0.07	0.01	1
5	77	2.08	2.45	2.27	0.44					0.06	0.02	5
17	44	5.06	6.45	5.75	0.56					0.08	0.02	17
29	25	4.43	4.71	4.57	1.12					0.07	0.01	29
51	8.5	1.36	2.19	1.77	0.81					0.09	0.01	51
105	0.65	1.75	0.72	1.23	0.32					0.15	0.14	105

RV NEW HORIZON — EXPEDITION SOSO — STATION 10 - 5

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
27 58.9 N	154 57.2 W	05/08/82	2053 GMT	28M	90M	1140-1915	329.25 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	2.95	1.79	2.37	0.75					0.09	0.01	1
5	77	2.71	2.83	2.77	0.60					0.08	0.02	5
16	44	5.23	6.89	6.06	0.89					0.08	0.02	16
27	25	4.46	5.45	4.96	1.19					0.10	0.02	27
48	8.5	3.58	3.57	3.58	1.07					0.17	0.03	48
98	0.65	1.68	0.58	1.13	0.43					0.16	0.09	98

RV NEW HORIZON — EXPEDITION SOSO — STATION 11 - 7

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
28 0.0 N	154 58.7 W	06/08/82	2051 GMT	28M	82M	1130-1935	294.66 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	3.85	4.73	4.29	1.10					0.08	0.01	1
5	77	4.66	4.86	4.76	1.16					0.09	0.01	5
15	44	7.22	6.91	7.07	1.19					0.07	0.02	15
25	25	7.46	6.16	6.81	1.24					0.09	0.01	25
45	8.5	2.48	1.77	2.12	0.96					0.09	0.01	45
92	0.65	0.09	0.29	0.19	0.82					0.13	0.04	92

RV NEW HORIZON — EXPEDITION SOSO — STATION 13 - 7

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
28 0.8 N	154 58.3 W	07/08/82	2059 GMT	28M	84M	1140-1915	348.33 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	2.38	1.74	2.06	0.60					0.06	0.01	1
5	77	3.78		3.78	0.56					0.06	0.01	5
15	44	7.09	8.03	7.56	0.69					0.08	0.02	15
25	25	4.58	6.30	5.44	0.86					0.08	0.01	25
45	8.5	3.47	4.30	3.89	0.83					0.16	0.04	45
92	0.65	2.03	0.38	1.21	0.47					0.14	0.08	92

RV NEW HORIZON — EXPEDITION SOSO — STATION 16 - 3

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
28 0.6 N	153 34.9 W	08/08/82	2123 GMT		87M	1220-1915	283.90 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	3.74	2.92	3.33	0.66	2.0	0.02	0.0	0.00	0.14	0.01	1
5	77	2.32	2.41	2.37	0.63	2.0	0.02	0.0	0.00	0.11	0.03	5
16	44	5.81	5.81	5.81	0.97	1.9	0.02	0.0	0.00	0.11	0.02	16
26	25	5.24	6.15	5.70	0.97	1.9	0.02	0.0	0.00	0.10	0.02	26
47	8.5	2.35	2.50	2.43	0.80	2.8	0.02	0.0	0.00	0.15	0.03	47
95	0.65	1.54	0.38	0.96	0.32	3.6	0.10	0.0	0.00	0.16	0.05	95

RV NEW HORIZON — EXPEDITION SOSO — STATION 20 - 3

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
28 1.4 N	150 51.3 W	09/08/82	2135 GMT		96M	1215-1907	200.47 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	1.77	2.08	1.92	0.54	2.0	0.03	0.1	0.00	0.05	0.01	1
5	77	2.75	2.63	2.69	0.56	2.0	0.03	0.1	0.00	0.06	0.01	5
17	44	3.69	3.80	3.75	0.53	2.0	0.03	0.1	0.00	0.05	0.01	17
29	25	3.62	2.91	3.26	0.72	2.0	0.03	0.1	0.00	0.06	0.00	29
51	8.5	1.23	1.24	1.23	0.84	2.4	0.03	0.1	0.00	0.08	0.01	51
105	0.65	1.68	0.23	0.96	0.47	3.5	0.10	0.1	0.00	0.14	0.05	105

RV NEW HORIZON — EXPEDITION SOSO — STATION 23 - 3

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
27 59.8 N	147 58.3 W	10/08/82	2119 GMT		104M	1200-1900	132.33 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	0.48	0.48	0.48	0.27					0.05	0.01	1
6	77	0.26	0.45	0.36	0.56					0.05	0.01	6
18	44	2.36	2.20	2.28	0.36					0.05	0.01	18
31	25	2.95	2.01	2.48	0.98					0.07	0.01	31
55	8.5	0.93	0.79	0.86	0.57					0.07	0.01	55
112	0.65	0.39	0.90	0.65	0.24					0.18	0.16	112

RV NEW HORIZON — EXPEDITION SOSO — STATION 27 - 3

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
27 59.5 N	145 11.0 W	11/08/82	2115 GMT		102M	1155-1840	250.09 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	2.01	2.04	2.03	0.57	2.4	0.03	0.0	0.00	0.06	0.00	1
6	77	1.79	2.65	2.22	0.77	2.4	0.03	0.4	0.00	0.05	0.01	6
18	44	3.89	4.14	4.02	1.06	2.4	0.03	0.4	0.00	0.06	0.00	18
31	25	2.82	3.54	3.18	1.20	2.4	0.03	0.3	0.00	0.06	0.01	31
55	8.5	2.40	2.05	2.23	1.03	2.8	0.03	0.2	0.00	0.09	0.01	55
112	0.65	0.70	1.04	0.87	0.46	3.8	0.08	0.1	0.00	0.17	0.08	112

RV NEW HORIZON — EXPEDITION SOSO — STATION 29 - 7

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
28 3.5 N	144 59.3 W	12/08/82	2105 GMT		102M	1140-1840	255.02 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	2.57	2.70	2.63	0.74					0.05	0.01	1
6	77	2.13	3.07	2.60	0.64					0.05	0.01	6
18	44	3.93	4.58	4.26	0.95					0.06	0.01	18
31	25	3.37	3.87	3.62	1.03					0.06	0.01	31
55	8.5	1.51	1.77	1.64	1.11					0.08	0.01	55
112	0.65	1.92	0.69	1.30	0.54					0.15	0.11	112

RV NEW HORIZON — EXPEDITION SOSO — STATION 31 - 7

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
27 59.7 N	144 59.9 W	13/08/82	2049 GMT		97M	1125-1955	212.73 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	2.24	1.97	2.11	0.53					0.05	0.01	1
5	77	2.44	2.80	2.62	1.05					0.06	0.01	5
17	44	4.10	3.86	3.98	0.74					0.05	0.00	17
29	25	2.97		2.97	1.02					0.06	0.01	29
51	8.5	1.57	1.48	1.52	1.07					0.08	0.01	51
105	0.65	1.73	0.44	1.08	0.65					0.13	0.11	105

RV NEW HORIZON — EXPEDITION SOSO — STATION 34 - 3

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
27 59.9 N	142 0.1 W	14/08/82	1951 GMT		88M	1135-1920	310.17 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	1.98	2.31	2.14	0.89					0.06	0.00	1
5	77	2.43	3.02	2.82	0.96					0.06	0.00	5
16	44	5.00	6.19	5.59	0.92					0.06	0.01	16
26	25	4.31	4.57	4.44	2.32					0.06	0.01	26
47	8.5	2.95	3.08	3.01	1.87					0.08	0.01	47
95	0.65	1.73	2.53	2.13	0.49					0.24	0.19	95

RV NEW HORIZON — EXPEDITION SOSO — STATION 37 - 4

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
27 59.3 N	139 0.7 W	15/08/82	2014 GMT	33M	96M	1155-1900	341.71 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	0.88	0.77	0.83	0.49					0.08	0.00	1
5	77	2.08	2.39	2.24	0.45					0.07	0.00	5
17	44	5.68	4.90	5.29	1.06					0.08	0.00	17
29	25	5.24	5.01	5.12	1.44					0.08	0.01	29
51	8.5	1.94	3.50	2.72	1.12					0.10	0.01	51
105	0.65	2.50		2.50	0.62					0.19	0.08	105

RV NEW HORIZON — EXPEDITION SOSO — STATION 41 - 3

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
27 59.7 N	136 12.9 W	16/08/82	2012 GMT		104M	1150-1900	156.06 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	0.95	0.77	0.86	0.36	1.6	0.08	0.1	0.00	0.05	0.00	1
6	77	0.59	0.86	0.72	0.79	1.5	0.08	0.0	0.00	0.06	0.00	6
19	44	1.77	1.72	1.74	0.55	1.6	0.08	0.0	0.00	0.05	0.00	19
31	25	0.88	1.00	0.94	1.21	1.8	0.08	0.0	0.00	0.06	0.00	31
55	8.5	2.30	2.31	2.30	1.28	2.6	0.06	0.0	0.00	0.09	0.01	55
112	0.65	0.37	0.64	0.51	0.84	2.7	0.08	0.0	0.00	0.14	0.04	112

RV NEW HORIZON — EXPEDITION SOSO — STATION 44 - 3

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
28 0.0 N	134 48.0 W	17/08/82	2001 GMT		100M	1135-1855	263.62 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	4.53	4.44	4.48	0.98	2.7	0.10	0.0	0.00	0.06	0.01	1
6	77	5.19	4.49	4.84	1.00	2.4	0.10	0.0	0.00	0.06	0.01	6
18	44	4.71	4.72	4.71	1.33	2.4	0.09	0.1	0.00	0.06	0.01	18
30	25	3.81	4.50	4.16	1.22	2.4	0.09	0.1	0.00	0.08	0.01	30
53	8.5	1.12	1.59	1.35	1.31	2.4	0.09	0.1	0.00	0.08	0.01	53
108	0.65	1.55	0.26	0.90	0.46	3.2	0.12	0.1	0.00	0.12	0.10	108

RV NEW HORIZON — EXPEDITION SOSO — STATION 48 - 3

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
28 0.4 N	131 48.6 W	18/08/82	1958 GMT		91M	1130-1830	234.20 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	3.26	2.35	2.81	1.40	2.9	0.14	0.1	0.00	0.06	0.01	1
5	77	3.78	4.19	3.99	1.35	2.7	0.14	0.1	0.00	0.05	0.01	5
16	44	3.02	3.78	3.40	1.24	2.7	0.14	0.0	0.00	0.06	0.01	16
27	25	2.83	3.33	3.08	1.38	3.0	0.11	0.1	0.00	0.06	0.01	27
48	8.5	1.50	1.96	1.73	1.16	3.0	0.12	0.1	0.00	0.08	0.02	48
99	0.65	2.63	1.05	1.84	0.47	3.4	0.17	0.1	0.00	0.14	0.12	99

RV NEW HORIZON — EXPEDITION SOSO — STATION 51 - 4

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
28 5.0 N	128 41.5 W	19/08/82	2008 GMT	27.5M	81M	1144-1825	278.84 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	4.04	3.74	3.89	0.65					0.07	0.01	1
5	77		5.30	5.30	0.72					0.07	0.01	5
14	44	5.33	6.38	5.85	0.73					0.08	0.01	14
24	25	4.94	4.42	4.68	0.82					0.08	0.01	24
43	8.5	3.20	3.03	3.12	0.68					0.11	0.02	43
89	0.65	0.80	1.78	1.29	0.59					0.16	0.14	89

RV NEW HORIZON — EXPEDITION SOSO — STATION 53 - 4

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
28 44.9 N	127 31.3 W	20/08/82	1959 GMT	29M	91M	1135-1825	207.72 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	3.32	3.48	3.40	0.51					0.06	0.01	1
5	77	3.12	3.55	3.33	0.68					0.07	0.01	5
16	44	4.03	3.98	4.01	0.76					0.08	0.00	16
27	25	2.80	4.50	3.65	0.91					0.07	0.01	27
48	8.5	1.41	1.27	1.34	0.74					0.09	0.01	48
97	0.65	1.47	0.25	0.86	0.77					0.15	0.05	97

RV NEW HORIZON — EXPEDITION SOSO — STATION 55 - 3

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
29 23.5 N	126 0.9 W	21/08/82	1929 GMT		93M	1202-1910	255.30 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	3.33	2.99	3.16	0.54					0.05	0.01	1
5	77	4.47	3.94	4.20	0.60					0.05	0.01	5
17	44	4.55	4.56	4.55	0.59					0.05	0.01	17
28	25	4.68	4.32	4.50	0.53					0.06	0.01	28
50	8.5	1.13	1.52	1.32	0.79					0.06	0.01	50
102	0.65	1.16	1.67	1.41	0.44					0.19	0.09	102

RV NEW HORIZON — EXPEDITION SOSO — STATION 58 - 5

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
30 24.2 N	123 59.9 W	22/08/82	1914 GMT		99M	1150-1910	304.41 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	2.72	2.89	2.81	0.60					0.05	0.00	1
5	77	3.48	4.15	3.81	0.59					0.05	0.01	5
16	44	4.60	4.51	4.56	0.71					0.05	0.01	16
30	25	3.64	4.93	4.29	0.74					0.06	0.00	30
53	8.5	1.90	2.26	2.08	0.67					0.07	0.01	53
108	0.65	2.55	1.09	1.82	0.29					0.18	0.13	108

RV NEW HORIZON — EXPEDITION SOSO — STATION 61 - 3

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
31 15.5 N	122 20.0 W	23/08/82	1853 GMT		70M	1130-1855	153.61 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	2.58	3.03	2.81	0.13	3.3	0.35	0.1	0.00	0.09	0.01	1
4	77	3.30	3.34	3.32	0.12	3.3	0.36	0.1	0.00	0.08	0.01	4
12	44	3.25	3.43	3.34	0.11	3.3	0.36	0.0	0.00	0.08	0.01	12
21	25	2.64	3.07	2.85	0.13	3.3	0.35	0.1	0.00	0.09	0.01	21
37	8.5	1.26	0.94	1.10	0.15	3.3	0.36	0.1	0.00	0.11	0.02	37
76	0.65	0.81	2.68	1.75	0.09	5.2	0.60	3.0	0.24	0.52	0.11	76

RV NEW HORIZON — EXPEDITION SOSO — STATION 64 - 9

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
31 25.0 N	122 1.1 W	25/08/82	1855 GMT	18M	63M	1125-1900	183.35 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	4.80	4.93	4.86	0.16					0.14	0.01	1
4	77	6.54	5.63	6.08	0.15					0.13	0.02	4
11	44	5.15	4.79	4.97	0.15					0.13	0.02	11
19	25	4.71	4.47	4.59	0.15					0.14	0.02	19
34	8.5	1.54	1.54	1.54	0.15					0.14	0.01	34
69	0.65	0.35	1.04	0.69	0.10					0.38	0.08	69

RV NEW HORIZON — EXPEDITION SOSO — STATION 67 - 4

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
32 24.4 N	119 59.0 W	26/08/82	1859 GMT	22M	66M	1133-1905	138.34 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	3.09	2.97	3.03	0.13					0.11	0.02	1
4	77	3.66	3.43	3.54	0.13					0.11	0.03	4
12	44	3.32	3.47	3.39	0.13					0.11	0.02	12
20	25	2.40	2.95	2.68	0.13					0.11	0.03	20
35	8.5	1.24	1.09	1.16	0.12					0.12	0.02	35
72	0.65	2.12	0.38	1.25	0.10					0.38	0.25	72

RV NEW HORIZON — EXPEDITION SOSO — STATION 68 - 5

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
32 25.7 N	119 58.0 W	27/08/82	1856 GMT		66M	1130-1900	162.64 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	1.52	1.86	1.69	0.14					0.09	0.00	1
4	77	2.48	2.60	2.54	0.10					0.09	0.00	4
12	44	3.78	3.53	3.66	0.12					0.10	0.01	12
20	25	3.78	3.66	3.72	0.12					0.10	0.01	20
35	8.5	1.95	1.97	1.96	0.14					0.14	0.01	35
72	0.65	0.88	1.44	1.16	0.25					0.38	0.26	72

RV NEW HORIZON — EXPEDITION SOSO — STATION 71 - 5

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
33 10.0 N	118 22.1 W	28/08/82	1853 GMT	18M	48M	1130-1900	466.30 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	13.76	14.67	14.22	0.23					0.30	0.06	1
3	77	16.27	16.65	16.46	0.34					0.29	0.03	3
9	44	17.63	22.68	20.16	0.26					0.36	0.03	9
14	25	16.29	15.56	15.92	0.24					0.32	0.04	14
26	8.5	5.19	6.01	5.60	0.24					0.28	0.07	26
52	0.65	2.49	0.50	1.49	0.16					0.34	0.14	52

RV NEW HORIZON — EXPEDITION SOSO — STATION 72 - 8

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	SECCHI DEPTH	1% LIGHT LEVEL	INCUBATION TIME	INTEGRATED VALUE
33 25.0 N	117 53.7 W	29/08/82	1905 GMT	21.5M	58M	1140-1855	421.09 MGC/M2

DEPTH M	LIGHT %	UPTAKE 1 MGC/M3	UPTAKE 2 MGC/M3	MEAN MGC/M3	DARK MGC/M3	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL.A UG/L	PHAEO UG/L	PRESS D.BAR
1	95	13.08	16.33	14.71	0.15					0.23	0.05	1
3	77	14.29	13.37	13.83	0.16					0.22	0.04	3
10	44	15.96	16.31	16.13	0.21					0.25	0.04	10
17	25	11.93	10.73	11.33	0.20					0.22	0.03	17
31	8.5	2.22	3.23	2.72	0.18					0.20	0.04	31
62	0.65	3.70	0.98	2.34	0.08					0.38	0.24	62

Moore Business Forms, Inc.

R/V New Horizon Macrozooplankton Biomass (1 m net, 0.505 mm mesh)

Station	Position	DATE (1982) mo/yr	TIME (LOCAL) start	stop	VOL FILT (m3)	BIOMASS (ml/1000m3)
1	21 31.5N 157 26.9W	7/30	2201	2221	740	39
1	" "	7/30	2234	2355	738	46
3	23 04.8N 156 51.7W	8/1	0307	0329	852	29
3	23 05.2N 156 51.2W	8/1	0334	0356	688	35
3	23 05.5N 156 51.0W	8/1	0402	0421	685	26
5	24 02.7N 156 32.6W	8/2	0027	0048	773	44
5	" "	8/2	0052	0114	768	52
5	" "	8/2	0118	0140	744	51
6	24 08.4N 156 34.8W	8/2	2350	0012	717	53
6	" "	8/3	0015	0036	693	58
6	" "	8/3	0039	0101	678	56
7	25 00.9N 156 19.0W	8/3	2150	2212	717	53
7	" "	8/3	2215	2237	712	56
7	" "	8/3	2239	2300	677	61
9	27 00.9N 155 22.8W	8/4	2224	2246	702	51
9	" "	8/4	2248	2311	659	55
9	" "	8/4	2313	2334	666	54
10	28 02.0N 154 58.1W	8/5	2050	2111	683	64
10	" "	8/5	2115	2136	668	63
10	" "	8/5	2139	2200	633	63
12	27 58.6N 154 55.0W	8/6	2043	2105	640	72
12	" "	8/6	2106	2129	602	76
12	" "	8/6	2130	2151	584	77
14	28 01.3N 154 56.4W	8/7	2018	2040	698	56
14	" "	8/7	2041	2103	517	81
14	" "	8/7	2105	2127	819	46
18	28 01.5N 152 00.1W	8/9	0014	0036	679	44
18	" "	8/9	0039	0100	715	52
18	" "	8/9	0103	0125	712	42
22	27 59.0N 148 59.5W	8/10	0046	0108	676	64
22	" "	8/10	0112	0133	711	49
22	" "	8/10	0136	0200	745	43
25	28 01.5N 146 22.7W	8/11	0010	0031	716	42
25	" "	8/11	0035	0056	732	46
25	" "	8/11	0059	0120	722	42
28	28 01.7N 144 56.8W	8/11	2033	2055	691	49
28	" "	8/11	2057	2118	676	47
28	" "	8/11	2122	2144	658	49
30	28 06.3N 144 54.1W	8/12	2315	2336	631	43
30	" "	8/12	2339	2359	646	53
30	" "	8/13	0000	0021	654	52
33	28 00.3N 142 58.9W	8/14	0229	0250	694	43
33	" "	8/14	0254	0315	644	47
33	" "	8/14	0319	0340	653	49
36	28 00.6N 139 59.8W	8/15	0200	0221	684	41
36	" "	8/15	0225	0246	705	42
36	" "	8/15	0251	0312	662	42

Station	Position	DATE (1982) mo/yr	TIME (LOCAL) start	stop	VOL FILT (m3)	BIOMASS (ml/1000m3)	
39	28 00.0N 137 26.5W	8/16	0038	0059	685	47	
39	" "	8/16	0104	0125	657	47	
39	" "	8/16	0127	0148	666	52	
43	28 04.6N 134 52.8W	8/17	0127	0148	736	52	
43	" "	8/17	0152	0213	690	51	
43	" "	8/17	0217	0238	733	52	
46	28 00.8N 132 59.6W	8/18	0028	0049	660	36	
46	" "	8/18	0053	0014	724	50	
46	" "	8/18	0119	0140	703	47	
50	28 00.1N 130 00.6W	8/19	0003	0024	714	36	
50	" "	8/19	0032	0053	647	48	
50	" "	8/19	0058	0119	663	62	
51	28 05.8N 128 42.0W	8/19	2045	2106	599	67	90.190
51	" "	8/19	2108	2129	883	49	"
51	" "	8/19	2132	2153	---	--	"
54	29 10.7N 126 49.2W	8/21	0221	0242	783	33	90.160
54	" "	8/21	0246	0307	768	39	"
54	" "	8/21	0312	0333	809	36	"
57	30 04.6N 124 38.2W	8/22	0015	0036	740	35	90.130
57	" "	8/22	0041	0102	761	34	"
57	" "	8/22	0106	0127	714	salps	"
59	30 49.6N 123 16.2W	8/23	0143	0204	809	27	90.110
59	" "	8/23	0207	0228	700	27	"
59	" "	8/23	0233	0254	721	30	"
62	31 25.4N 121 59.5W	8/23	1358	1420	685	22	90.90
62	" "	8/23	1423	1445	750	19	"
62	" "	8/23	1446	1508	736	16	"
62	31 25.1N 121 59.3W	8/23	1818	1839	767	18	"
62	" "	8/23	1844	1906	800	28	"
62	" "	8/23	1910	1932	760	40	"
62	31 24.8N 121 59.3W	8/24	0242	0303	748	37	"
62	" "	8/24	0307	0328	748	40	"
62	" "	8/24	0333	0354	775	37	"
63	31 23.6N 121 59.0W	8/24	0650	0712	788	23	"
63	" "	8/24	0717	0740	751	23	"
63	" "	8/24	0743	0803	764	18	"
63	31 24.2N 122 01.3W	8/24	1058	1119	697	23	"
63	" "	8/24	1123	1144	717	34	"
63	" "	8/24	1147	1209	733	25	"
63	31 25.1N 121 59.3W	8/24	1733	1755	752	43	"
63	" "	8/24	1757	1819	768	18	"
63	" "	8/24	1822	1844	745	salps	"
63	31 25.6N 122 01.1W	8/24	2209	2231	735	33	"
63	" "	8/24	2233	2255	730	41	"
63	" "	8/24	2257	2318	743	35	"
64	31 24.7N 121 58.8W	8/25	0532	0555	809	15	"
64	" "	8/25	0558	0620	754	16	"
64	" "	8/25	0623	0644	780	15	"
66	32 25.6N 122 01.1W	8/25	2341	0002	778	53	90.70
66	" "	8/26	0006	0027	782	54	"
66	" "	8/26	0031	0052	824	salps	"

Station	Position	DATE (1982) mo/yr	TIME (LOCAL) start	stop	VOL FILT (m3)	BIOMASS (ml/1000m3)	
67	32 24.9N 120 03.0W	8/26	1111	1132	715	17	90.60
67	" "	8/26	1135	1156	730	21	"
67	" "	8/26	1202	1223	777	18	"
67	32 26.7N 119 58.0W	8/26	1829	1851	763	29	"
67	" "	8/26	1855	1917	730	33	"
67	" "	8/26	1918	1940	780	28	"
67	32 25.2N 119 58.3W	8/27	0205	0227	782	40	"
68	" "	8/27	0231	0253	793	35	"
68	" "	8/27	0257	0319	812	34	"
68	32 29.5N 120 00.5W	8/27	0609	0631	774	25	"
68	" "	8/27	0635	0656	756	21	"
68	" "	8/27	0700	0722	758	28	"
68	32 26.0N 119 58.1W	8/27	1108	1129	762	20	"
68	" "	8/27	1132	1153	755	21	"
68	" "	8/27	1158	1220	746	19	"
69	" "	8/27	1633	1655	769	20	"
69	" "	8/27	1657	1719	792	19	"
69	" "	8/27	1722	1744	768	20	"
69	32 23.9N 119 56.2W	8/27	2033	2055	822	28	"
69	" "	8/27	2056	2118	776	35	"
69	" "	8/27	2120	2142	802	30	"
71	32 09.7N 118 21.9W	8/28	1102	1123	742	24	90.37
71	" "	8/28	1126	1147	728	29	"
71	" "	8/28	1152	1214	738	23	"
71	33 10.0N 118 23.0W	8/28	2342	0004	760	38	"
71	" "	8/29	0009	0032	801	49	"
71	" "	8/29	0035	0055	--	--	"
72	33 25.7N 117 53.9W	8/29	0803	0825	753	27	90.30
72	" "	8/29	0830	0853	771	35	"
72	" "	8/29	0856	0918	757	37	"
72	33 25.8N 117 54.3W	8/29	1113	1135	747	25	"
72	" "	8/29	1139	1201	721	24	"
72	" "	8/29	1205	1227	735	34	"
72	" "	8/29	1734	1756	768	26	"
72	" "	8/29	1758	1820	707	40	"
72	" "	8/29	1823	1845	701	31	"
72	" "	8/29	2346	0008	803	51	"
72	" "	8/30	0012	0034	730	55	"
72	" "	8/30	0037	0100	815	48	"