

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD	AMT	TYPE
34 13.6 N	119 24.7 W	22/06/98	1446	UTC	35 m	090	01 kn	310 01 06	1	1015.7 mb	16.0 C	18.3 C		2/8		CS
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C		THETA			ml/L	PCT	uM/L	uM/L	uM/L	uM/L	ug/L	ug/L	db	
0 ISL	17.39	17.39	33.609	24.355	356.2	0.000	6.21	113.5					0.68	0.22	0	
1	17.39	17.39	33.609	24.355	356.2	0.004	6.21	113.5					0.68	0.22	1	205
4	17.28	17.28	33.613	24.385	353.5	0.014	6.26	114.2					0.75	0.25	4	204
9	15.28	15.28	33.667	24.884	306.1	0.031	5.79	101.5					2.28	0.89	9	203
10 ISL	14.91	14.91	33.658	24.958	299.1	0.034	5.66	98.5					2.24	0.88	10	
20	12.40	12.40	33.554	25.391	258.1	0.062	4.54	75.0					1.89	0.81	20	202
26	12.24	12.24	33.565	25.430	254.5	0.077	4.25	70.0					1.51	0.75	26	201

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD	AMT	TYPE
34 10.4 N	119 30.5 W	22/06/98	1205	UTC	160 m	260	13 kn			1015.5 mb	16.1 C	14.8 C				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C		THETA			ml/L	PCT	uM/L	uM/L	uM/L	uM/L	ug/L	ug/L	db	
0 ISL	16.69	16.69	33.693	24.585	334.3	0.000	6.17	111.3					0.47	0.15	0	
2	16.69	16.69	33.693	24.585	334.4	0.007	6.17	111.3					0.47	0.15	2	212
9	16.66	16.66	33.693	24.592	333.9	0.030	6.15	110.9					0.47	0.17	9	211
10 ISL	16.53	16.53	33.688	24.618	331.4	0.033	6.12	110.0					0.58	0.21	10	
19	14.97	14.97	33.645	24.935	301.5	0.062	5.70	99.3					1.51	0.56	19	210
20 ISL	14.82	14.82	33.644	24.967	298.5	0.065	5.63	97.8					1.50	0.55	20	
30	13.40	13.40	33.624	25.248	272.0	0.093	4.84	81.7					1.06	0.50	30	209
39	12.11	12.10	33.558	25.450	253.0	0.117	4.17	68.4					0.74	0.54	39	208
49	11.67	11.66	33.628	25.587	240.2	0.142	3.76	61.2					0.49	0.47	49	207
50 ISL	11.62	11.61	33.640	25.605	238.4	0.144	3.67	59.6					0.47	0.45	50	
60	11.19	11.18	33.758	25.776	222.4	0.167	2.81	45.3					0.25	0.26	60	206
70	10.86	10.85	33.806	25.873	213.4	0.189	2.67	42.7					0.09	0.20	70	205
75 ISL	10.70	10.69	33.826	25.917	209.4	0.199	2.67	42.6					0.07	0.17	75	
83	10.50	10.49	33.854	25.974	204.1	0.216	2.66	42.2					0.04	0.13	83	204
99	10.37	10.36	33.895	26.028	199.2	0.248	2.52	39.9					0.04	0.15	100	203
100 ISL	10.35	10.34	33.899	26.035	198.7	0.250	2.51	39.7					0.04	0.15	101	
118	9.90	9.89	33.968	26.166	186.5	0.285	2.39	37.5					0.02	0.11	119	202
125 ISL	9.86	9.85	33.978	26.180	185.3	0.298	2.36	37.0					0.02	0.11	126	
146	9.74	9.72	34.007	26.223	181.6	0.336	2.28	35.6					0.01	0.09	147	201

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD	AMT	TYPE
33 52.5 N	120 8.8 W	22/06/98	0423	UTC	114 m	320	20 kn			1016.3 mb	15.9 C	14.8 C				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C		THETA			ml/L	PCT	uM/L	uM/L	uM/L	uM/L	ug/L	ug/L	db	
0 ISL	15.77	15.77	33.564	24.696	323.7	0.000	5.82	103.0					1.05	0.31	0	
2	15.77	15.77	33.564	24.696	323.8	0.006	5.82	103.0					1.05	0.31	2	210
10	15.44	15.44	33.560	24.767	317.3	0.032	5.80	102.0					1.13	0.13	10	209
20	14.29	14.29	33.545	25.004	295.0	0.063	5.49	94.3					1.02	0.22	20	208
30	12.19	12.19	33.567	25.442	253.5	0.090	4.33	71.2					1.03	0.22	30	207
39	12.19	12.18	33.575	25.448	253.2	0.113	4.30	70.7					1.00	0.34	39	206
49	12.15	12.14	33.594	25.471	251.3	0.138	4.28	70.3					0.98	0.28	49	205
50 ISL	12.07	12.06	33.602	25.492	249.2	0.141	4.22	69.2					0.98	0.29	50	
59	11.25	11.24	33.692	25.714	228.3	0.162	3.58	57.7					0.98	0.38	59	204
69	10.77	10.76	33.787	25.874	213.3	0.184	3.10	49.5					0.41	0.24	69	203
75 ISL	10.72	10.71	33.801	25.894	211.5	0.197	3.04	48.5					0.34	0.13	75	
85	10.64	10.63	33.823	25.925	208.8	0.218	2.95	47.0					0.22	0.02	85	202
100 ISL	10.47	10.46	33.850	25.976	204.2	0.249	2.84	45.1					0.22	0.24	101	
103	10.44	10.43	33.856	25.986	203.4	0.255	2.82	44.7					0.22	0.28	104	201

RV ROBERT GORDON SPROUL					CALCOFI CRUISE 9806						STATION 83 55					
LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD	AMT	TYPE
33 45.1 N	120 24.9 W	22/06/98	0034	UTC	1008 m	300	12 kn	300 06 05		1016.9 mb	18.7 c	16.8 c				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C		THETA			mL/L	PCT	uM/L	uM/L	uM/L	uM/L	ug/L	ug/L	db	
0 ISL	16.58	16.58	33.557	24.506	341.8	0.000	5.86	105.4					0.30	0.11	0	
1	16.58	16.58	33.557	24.506	341.8	0.003	5.86	105.4					0.30	0.11	1	220
10	16.44	16.44	33.557	24.539	339.0	0.034	5.86	105.1					0.31	0.12	10	219
20	14.56	14.56	33.555	24.954	299.8	0.066	5.76	99.5					0.43	0.26	20	218
30	12.84	12.84	33.574	25.321	265.0	0.094	4.83	80.5					0.45	0.31	30	217
39	12.08	12.07	33.600	25.488	249.3	0.117	4.24	69.6					0.93	0.53	39	216
49	11.45	11.44	33.655	25.648	234.3	0.142	3.71	60.1					0.42	0.36	49	215
50 ISL	11.37	11.36	33.664	25.670	232.2	0.144	3.66	59.2					0.38	0.34	50	
59	10.77	10.76	33.746	25.842	216.1	0.164	3.25	51.9					0.15	0.18	59	214
69	10.65	10.64	33.778	25.888	211.9	0.185	3.11	49.5					0.09	0.19	69	213
75 ISL	10.54	10.53	33.803	25.927	208.4	0.198	3.02	48.0					0.07	0.18	75	
85	10.26	10.25	33.832	25.998	201.8	0.219	2.95	46.6					0.06	0.16	85	212
100	9.61	9.60	33.810	26.090	193.3	0.248	3.24	50.4					0.03	0.15	101	211
119	9.17	9.16	33.860	26.201	183.0	0.284	3.12	48.1					0.01	0.08	120	210
125 ISL	9.06	9.05	33.885	26.238	179.6	0.295	3.02	46.5					0.01	0.08	126	
139	8.87	8.86	33.947	26.317	172.4	0.319	2.76	42.3					0.01	0.09	140	209
150 ISL	8.82	8.80	33.985	26.354	169.0	0.338	2.60	39.8					0.01	0.09	151	
169	8.75	8.73	34.032	26.403	164.8	0.370	2.38	36.4					0.01	0.08	170	208
200	8.31	8.29	34.061	26.493	156.6	0.420	2.23	33.8					0.01	0.09	201	207
227	8.06	8.04	34.098	26.560	150.7	0.461	1.99	30.0							228	206
250 ISL	7.95	7.92	34.138	26.608	146.5	0.495	1.72	25.8							252	
269	7.89	7.86	34.171	26.643	143.5	0.523	1.49	22.4							271	205
300 ISL	7.76	7.73	34.217	26.699	138.7	0.567	1.16	17.4							302	
318	7.66	7.63	34.238	26.730	136.0	0.591	1.00	14.9							320	204
379	7.10	7.06	34.277	26.841	126.2	0.671	0.64	9.4							381	203
400 ISL	7.01	6.97	34.286	26.860	124.6	0.698	0.58	8.5							403	
438	6.87	6.83	34.294	26.886	122.6	0.745	0.53	7.8							441	202
500 ISL	6.32	6.27	34.285	26.953	116.7	0.819	0.47	6.8							504	
516	6.18	6.13	34.283	26.969	115.2	0.837	0.45	6.5							520	201

RV ROBERT GORDON SPROUL					CALCOFI CRUISE 9806						STATION 83 60					
LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD	AMT	TYPE
33 35.1 N	120 45.2 W	21/06/98	2016	UTC	1348 m	310	10 kn	310 06 05	2	1018.0 mb	18.4 c	15.2 c			8/8	AC
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C		THETA			mL/L	PCT	uM/L	uM/L	uM/L	uM/L	ug/L	ug/L	db	
0 ISL	16.36	16.36	33.545	24.547	337.9	0.000	5.82	104.2					0.27	0.12	0	
2	16.36	16.36	33.545	24.547	337.9	0.007	5.82	104.2					0.27	0.12	2	220
9	16.19	16.19	33.543	24.585	334.6	0.030	5.84	104.2					0.30	0.13	9	219
10 ISL	16.18	16.18	33.543	24.587	334.4	0.034	5.84	104.2					0.30	0.13	10	
19	16.06	16.06	33.542	24.614	332.1	0.064	5.85	104.1					0.29	0.13	19	218
20 ISL	15.99	15.99	33.541	24.629	330.7	0.067	5.85	104.0					0.30	0.14	20	
29	15.02	15.02	33.526	24.833	311.5	0.096	5.81	101.3					0.40	0.21	29	217
30 ISL	14.83	14.83	33.520	24.870	308.1	0.099	5.75	99.8					0.40	0.20	30	
40	13.07	13.06	33.501	25.220	275.0	0.128	5.02	84.0					0.42	0.14	40	216
49	12.52	12.51	33.560	25.373	260.6	0.152	4.61	76.3					0.40	0.23	49	215
50 ISL	12.48	12.47	33.565	25.385	259.5	0.155	4.58	75.8					0.41	0.25	50	
59	12.04	12.03	33.610	25.504	248.3	0.178	4.21	69.0					0.48	0.37	59	214
69	11.06	11.05	33.700	25.754	224.7	0.201	3.44	55.2					0.20	0.22	69	213
75 ISL	10.83	10.82	33.700	25.796	220.9	0.215	3.52	56.3					0.16	0.22	75	
84	10.64	10.63	33.687	25.819	218.8	0.234	3.63	57.8					0.10	0.23	84	212
99	9.96	9.95	33.778	26.007	201.2	0.266	3.22	50.5					0.04	0.17	99	211
100 ISL	9.91	9.90	33.782	26.018	200.1	0.268	3.22	50.5					0.04	0.17	101	
120	9.11	9.10	33.855	26.207	182.5	0.306	3.28	50.5					0.02	0.14	121	210
125 ISL	8.98	8.97	33.875	26.243	179.1	0.315	3.23	49.6					0.02	0.14	126	
138	8.73	8.72	33.922	26.319	172.1	0.338	3.06	46.7					0.02	0.13	139	209
150 ISL	8.52	8.50	33.954	26.377	166.8	0.358	2.94	44.7					0.02	0.11	151	
169	8.24	8.22	33.992	26.449	160.2	0.389	2.77	41.9					0.01	0.08	170	208
198	7.86	7.84	34.028	26.534	152.5	0.435	2.55	38.2					0.01	0.09	199	207
200 ISL	7.84	7.82	34.029	26.538	152.2	0.438	2.54	38.0							201	
228	7.68	7.66	34.056	26.583	148.4	0.480	2.30	34.3							229	206
250 ISL	7.73	7.71	34.117	26.624	144.9	0.512	1.82	27.2							251	
267	7.76	7.73	34.167	26.659	141.9	0.537	1.45	21.7							269	205
300 ISL	7.17	7.14	34.145	26.726	135.7	0.582	1.38	20.4							302	
316	6.84	6.81	34.126	26.756	132.9	0.604	1.34	19.6							318	204
376	6.48	6.45	34.167	26.837	125.9	0.682	0.96	13.9							378	203
400 ISL	6.28	6.24	34.178	26.872	122.8	0.711	0.84	12.1							403	
438	5.95	5.91	34.198	26.930	117.5	0.757	0.66	9.5							441	202
500 ISL	5.58	5.54	34.263	27.028	108.8	0.827	0.37	5.3							503	
513	5.50	5.46	34.277	27.048	106.9	0.841	0.31	4.4							517	201

A) FIRST FLUOROMETER READING NOT RECORDED, CHLOROPHYLL AND PHAEOPIGMENT CALCULATED WITH ASSUMED ACID RATIO INTERPOLATED FROM ADJACENT LEVELS.

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD	AMT	TYPE
33 14.7 N	121 26.5 W	21/06/98	1339	UTC	3801 m	320	14 kn	320 06 08	2	1016.9 mb	17.0 c	14.1 c		8/8		AC
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C		THETA			mL/L	PCT	uM/L	uM/L	uM/L	uM/L	ug/L	ug/L	db	
0 ISL	16.75	16.75	33.034	24.065	383.8	0.000	5.75	103.4					0.19	0.04	0	
2	16.75	16.75	33.034	24.065	383.9	0.008	5.75	103.4					0.19	0.04	2	221
10 ISL	16.70	16.70	33.033	24.076	383.1	0.038	5.74	103.1					0.18	0.05	10	
14	16.68	16.68	33.033	24.081	382.8	0.054	5.74	103.1					0.18	0.05	14	220
20 ISL	16.38	16.38	33.023	24.143	377.1	0.076	5.80	103.5					0.21	0.05	20	
29	15.81	15.81	33.017	24.267	365.5	0.110	5.91	104.3					0.28	0.06	29	219
30 ISL	15.75	15.75	33.019	24.282	364.1	0.114	5.92	104.4					0.28	0.06	30	
44	14.98	14.97	33.065	24.487	344.9	0.163	5.98	103.8					0.35	0.11	44	218
50 ISL	14.77	14.76	33.084	24.547	339.4	0.184	5.98	103.4					0.39	0.16	50	
54	14.64	14.63	33.096	24.584	336.0	0.197	5.98	103.1					0.41	0.20	54	217
65	14.14	14.13	33.122	24.710	324.3	0.234	5.84	99.7					0.43	0.35	65	216
73	13.74	13.73	33.130	24.799	316.0	0.259	5.70	96.5					0.30	0.25	73	215
75 ISL	13.68	13.67	33.143	24.821	313.9	0.265	5.66	95.7					0.26	0.22	75	
83	13.43	13.42	33.199	24.915	305.1	0.290	5.50	92.6					0.14	0.12	83	214
95	12.64	12.63	33.220	25.088	288.9	0.326	5.26	87.1					0.10	0.10	95	213
100 ISL	12.48	12.47	33.274	25.161	282.1	0.340	5.12	84.5					0.08	0.08	100	
108	12.27	12.26	33.372	25.277	271.2	0.362	4.87	80.1					0.06	0.05	108	212
123	11.51	11.49	33.486	25.508	249.5	0.401	4.42	71.6					0.04	0.05	124	211
125 ISL	11.43	11.41	33.502	25.535	246.9	0.406	4.36	70.5					0.04	0.05	126	
144	10.71	10.69	33.644	25.775	224.4	0.451	3.92	62.4					0.02	0.04	145	210
150 ISL	10.45	10.43	33.683	25.850	217.3	0.464	3.84	60.8					0.02	0.04	151	
167	9.77	9.75	33.782	26.043	199.2	0.500	3.65	57.0					0.01	0.04	168	209
198	9.20	9.18	33.901	26.229	181.9	0.559	3.24	50.0					0.00	0.03	199	208
200 ISL	9.17	9.15	33.905	26.237	181.2	0.562	3.23	49.8							201	
227	8.82	8.80	33.967	26.342	171.7	0.610	2.92	44.7							228	207
250 ISL	8.88	8.85	34.085	26.425	164.3	0.649	2.14	32.8							251	
268	8.93	8.90	34.173	26.487	158.9	0.678	1.54	23.7							269	206
300 ISL	8.49	8.46	34.202	26.578	150.6	0.727	1.44	21.9							302	
316	8.21	8.18	34.198	26.618	147.0	0.751	1.39	21.0							318	204
376	7.57	7.53	34.239	26.745	135.6	0.836	0.97	14.5							378	203
400 ISL	7.40	7.36	34.250	26.778	132.7	0.868	0.86	12.8							402	
438	7.11	7.07	34.261	26.828	128.4	0.918	0.72	10.6							441	202
500 ISL	6.33	6.28	34.262	26.933	118.5	0.994	0.56	8.1							503	
510	6.20	6.15	34.263	26.951	116.9	1.006	0.54	7.8							513	201

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD	AMT	TYPE
32 54.7 N	122 7.7 W	21/06/98	0707	UTC	4192 m	310	14 kn			1018.0 mb	17.1 c	14.3 c				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C		THETA			mL/L	PCT	uM/L	uM/L	uM/L	uM/L	ug/L	ug/L	db	
0 ISL	17.17	17.17	33.086	24.007	389.4	0.000	5.67	102.8					0.13	0.02	0	
1	17.17	17.17	33.086	24.007	389.4	0.004	5.67	102.8					0.13	0.02	1	220
10 ISL	17.18	17.18	33.087	24.005	389.8	0.039	5.70	103.4					0.16	0.02	10	
15	17.18	17.18	33.087	24.006	390.0	0.058	5.73	104.0					0.17	0.02	15	219
20 ISL	17.07	17.07	33.210	24.126	378.7	0.078	5.77	104.5					0.15	0.02	20	
29	16.77	16.77	33.417	24.355	357.1	0.111	5.84	105.3					0.11	0.02	29	218
30 ISL	16.72	16.72	33.413	24.364	356.3	0.114	5.84	105.2					0.11	0.02	30	
44	16.02	16.01	33.308	24.444	349.1	0.164	5.88	104.4					0.13	0.01	44	217
50 ISL	15.81	15.80	33.348	24.522	341.8	0.184	5.89	104.2					0.15	0.03	50	
59	15.61	15.60	33.440	24.638	331.1	0.215	5.91	104.2					0.19	0.06	59	216
75	15.63	15.62	33.550	24.719	323.9	0.267	5.75	101.4					0.28	0.05	75	215
84	16.08	16.07	33.770	24.787	317.7	0.296	5.70	101.6					0.34	0.14	84	214
93	16.17	16.16	33.847	24.826	314.3	0.324	5.67	101.3					0.36	0.18	93	213
100 ISL	15.84	15.82	33.828	24.887	308.8	0.346	5.62	99.7					0.33	0.24	100	
105	15.47	15.45	33.794	24.943	303.5	0.362	5.56	97.9					0.29	0.28	105	212
114	14.73	14.71	33.735	25.060	292.6	0.388	5.43	94.2					0.24	0.25	114	211
124	13.80	13.78	33.665	25.201	279.2	0.417	5.28	89.8					0.24	0.23	125	210
125 ISL	13.68	13.66	33.660	25.222	277.2	0.420	5.26	89.2					0.23	0.23	126	
137	12.31	12.29	33.631	25.471	253.5	0.452	4.99	82.3					0.14	0.19	138	209
150 ISL	11.31	11.29	33.637	25.662	235.4	0.483	4.70	75.8					0.09	0.13	151	
163	10.59	10.57	33.666	25.813	221.2	0.513	4.43	70.4					0.06	0.07	164	208
194	9.28	9.26	33.810	26.145	189.9	0.577	3.87	59.8					0.01	0.02	195	207
200 ISL	9.13	9.11	33.835	26.189	185.8	0.588	3.81	58.7							201	
228	8.61	8.59	33.928	26.344	171.4	0.638	3.56	54.2							229	206
250 ISL	8.23	8.20	33.977	26.440	162.5	0.675	3.15	47.6							251	
267	7.96	7.93	34.003	26.501	156.9	0.702	2.83	42.5							268	205
300 ISL	7.47	7.44	34.024	26.589	148.9	0.752	2.52	37.4							302	
316	7.25	7.22	34.028	26.623	145.8	0.776	2.40	35.5							318	204
379	6.55	6.52	34.067	26.749	134.3	0.864	1.60	23.3							381	203
400 ISL	6.36	6.32	34.082	26.786	130.9	0.892	1.38	20.0							402	
437	6.07	6.03	34.112	26.847	125.4	0.939	1.05	15.1							440	202
500 ISL	5.71	5.67	34.171	26.939	117.2	1.016	0.67	9.6							503	
510	5.65	5.61	34.181	26.954	115.9	1.028	0.61	8.7							513	201

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD	AMT	TYPE
32 34.6 N	122 48.7 W	21/06/98	0021	UTC	4263 m	330	13 kn	330 08 07	2	1017.2 mb	17.9 c	15.0 c		8/8		AC
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C		THETA			mL/L	PCT	uM/L	uM/L	uM/L	uM/L	ug/L	ug/L	db	
0 ISL	17.47	17.47	33.444	24.210	370.0	0.000	5.62	102.8					0.09	0.01	0	
2	17.47	17.47	33.444	24.210	370.1	0.007	5.62	102.8					0.09	0.01	2	220
10	17.46	17.46	33.446	24.214	370.0	0.037	5.62	102.7					0.09	0.02	10	219
20	17.37	17.37	33.439	24.231	368.7	0.074	5.61	102.4					0.10	0.01	20	218
30	17.07	17.07	33.416	24.284	363.9	0.111	5.68	103.0					0.12	0.02	30	217
39	16.17	16.16	33.382	24.467	346.8	0.143	5.88	104.8					0.12	0.02	39	216
50	15.98	15.97	33.485	24.590	335.4	0.180	5.86	104.1					0.14	0.03	50	215
58	15.84	15.83	33.527	24.654	329.6	0.207	5.85	103.6					0.15	0.04	58	214
70	15.84	15.83	33.607	24.716	324.1	0.246	5.79	102.6					0.17	0.05	70	213
75 ISL	15.89	15.88	33.644	24.733	322.6	0.262	5.77	102.4					0.19	0.07	75	
85	15.95	15.94	33.726	24.783	318.2	0.294	5.71	101.5					0.24	0.10	85	212
100	15.70	15.68	33.876	24.955	302.2	0.341	5.51	97.5					0.31	0.31	100	211
119	14.05	14.03	33.739	25.207	278.6	0.396	5.22	89.3					0.22	0.25	120	210
125 ISL	13.54	13.52	33.713	25.292	270.6	0.412	5.15	87.2					0.19	0.23	126	
139	12.41	12.39	33.675	25.486	252.2	0.449	4.95	81.8					0.14	0.18	140	209
150 ISL	11.58	11.56	33.648	25.621	239.4	0.476	4.68	76.0					0.11	0.14	151	
169	10.40	10.38	33.645	25.830	219.7	0.520	4.21	66.6					0.06	0.07	170	208
198	9.39	9.37	33.791	26.113	193.1	0.579	3.82	59.2					0.01	0.03	199	207
200 ISL	9.32	9.30	33.802	26.133	191.2	0.583	3.79	58.6							201	
227	8.57	8.55	33.949	26.366	169.3	0.632	3.29	50.1							228	206
250 ISL	8.36	8.33	34.030	26.462	160.5	0.670	2.72	41.2							251	
265	8.30	8.27	34.065	26.499	157.3	0.694	2.37	35.9							266	205
300 ISL	7.94	7.91	34.102	26.582	149.9	0.747	2.03	30.5							302	
317	7.75	7.72	34.109	26.616	146.9	0.773	1.93	28.9							319	204
377	7.12	7.08	34.163	26.748	134.9	0.857	1.26	18.6							379	203
400 ISL	6.89	6.85	34.173	26.788	131.3	0.888	1.08	15.8							402	
437	6.55	6.51	34.187	26.844	126.2	0.935	0.86	12.5							440	202
500 ISL	6.17	6.13	34.236	26.933	118.4	1.012	0.56	8.1							503	
517	6.07	6.02	34.250	26.957	116.2	1.032	0.48	6.9							520	201

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD	AMT	TYPE
32 14.4 N	123 29.8 W	20/06/98	1744	UTC	4163 m	320	13 kn	330 04 06	2	1019.0 mb	17.8 c	15.0 c		8/8		AC
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C		THETA			mL/L	PCT	uM/L	uM/L	uM/L	uM/L	ug/L	ug/L	db	
0 ISL	17.46	17.46	33.392	24.172	373.6	0.000	5.68	103.8					0.15	0.03	0	
1	17.46	17.46	33.392	24.172	373.6	0.004	5.68	103.8					0.15	0.03	1	221
10 ISL	17.45	17.45	33.391	24.174	373.8	0.037	5.64	103.0					0.14	0.03	10	
14	17.45	17.45	33.391	24.175	373.9	0.052	5.62	102.7					0.14	0.03	14	220
20 ISL	17.45	17.45	33.391	24.175	374.1	0.075	5.63	102.9					0.14	0.03	20	
29	17.44	17.44	33.390	24.177	374.2	0.108	5.64	103.0					0.15	0.03	29	219
30 ISL	17.34	17.34	33.377	24.191	372.9	0.112	5.66	103.2					0.15	0.03	30	
44	15.79	15.78	33.227	24.434	350.1	0.163	5.92	104.6					0.19	0.04	44	218
50 ISL	15.66	15.65	33.277	24.501	343.8	0.184	5.93	104.5					0.19	0.04	50	
60	15.44	15.43	33.322	24.585	336.1	0.218	5.94	104.3					0.19	0.05	60	217
74	15.27	15.26	33.372	24.661	329.3	0.264	5.86	102.5					0.23	0.08	74	216
75 ISL	15.26	15.25	33.373	24.664	329.0	0.267	5.86	102.5					0.23	0.08	75	
84	15.20	15.19	33.391	24.692	326.7	0.297	5.82	101.7					0.24	0.12	84	215
94	15.22	15.21	33.477	24.754	321.1	0.329	5.70	99.7					0.31	0.29	94	214
100 ISL	15.15	15.13	33.502	24.789	318.0	0.349	5.64	98.5					0.33	0.33	100	
105	15.09	15.07	33.550	24.839	313.3	0.364	5.56	97.0					0.35	0.37	105	213
115	14.14	14.12	33.569	25.056	292.8	0.395	5.17	88.5					0.25	0.23	115	212
125	13.18	13.16	33.528	25.221	277.2	0.423	4.91	82.4					0.19	0.18	126	211
138	12.27	12.25	33.536	25.405	259.8	0.458	4.63	76.2					0.13	0.12	139	210
150 ISL	11.55	11.53	33.570	25.566	244.6	0.488	4.36	70.7					0.09	0.09	151	
163	10.89	10.87	33.628	25.731	229.1	0.519	4.03	64.4					0.05	0.06	164	209
193	9.79	9.77	33.821	26.071	197.1	0.583	3.13	48.9					0.00	0.02	194	208
200 ISL	9.62	9.60	33.858	26.128	191.8	0.597	3.00	46.7							201	
229	9.07	9.05	33.980	26.313	174.7	0.650	2.63	40.5							230	207
250 ISL	8.73	8.70	34.033	26.408	165.9	0.686	2.47	37.7							251	
266	8.50	8.47	34.061	26.466	160.6	0.712	2.36	35.9							267	206
300 ISL	8.10	8.07	34.112	26.566	151.5	0.765	2.03	30.6							302	
317	7.92	7.89	34.131	26.608	147.7	0.790	1.85	27.8							319	204
376	7.29	7.25	34.172	26.731	136.6	0.874	1.27	18.8							378	203
400 ISL	7.06	7.02	34.190	26.778	132.4	0.906	1.07	15.7							402	
436	6.75	6.71	34.216	26.841	126.7	0.953	0.82	12.0							439	202
500 ISL	6.28	6.24	34.246	26.927	119.1	1.032	0.55	8.0							503	
515	6.17	6.12	34.253	26.947	117.3	1.049	0.49	7.1							518	201

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD	AMT	TYPE
33 28.9 N	117 46.0 W	18/06/98	0225	UTC	67 m	220	05 kn	220 01 06	0	1015.5 mb	19.8 c	17.0 c				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C		THETA			mL/L	PCT	uM/L	uM/L	uM/L	uM/L	ug/L	ug/L	db	
0 ISL	18.95	18.95	33.496	23.886	400.9	0.000	5.66	106.5					0.17	0.05	0	
1	18.95	18.95	33.496	23.886	401.0	0.004	5.66	106.5					0.17	0.05	1	207
9	17.55	17.55	33.492	24.228	368.6	0.035	6.00	109.9					0.60	0.16	9	206
10 ISL	17.26	17.26	33.490	24.296	362.2	0.038	5.98	108.9					0.86	0.22	10	
19	14.51	14.51	33.511	24.931	301.9	0.068	5.84	100.7					2.71	0.66	19	205
20 ISL	14.24	14.24	33.517	24.992	296.1	0.071	5.66	97.1					2.58	0.65	20	
29	12.38	12.38	33.589	25.422	255.4	0.096	3.92	64.7					0.85	0.44	29	204
30 ISL	12.27	12.27	33.598	25.450	252.7	0.099	3.80	62.6					0.77	0.43	30	
39	11.66	11.66	33.665	25.617	237.0	0.121	3.11	50.6					0.40	0.37	39	203
50	11.44	11.43	33.696	25.682	231.1	0.146	3.00	48.6					0.29	0.49	50	202
59	11.19	11.18	33.734	25.757	224.2	0.167	2.80	45.1					0.24	0.37	59	201

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD	AMT	TYPE
33 25.1 N	117 54.3 W	17/06/98	2252	UTC	619 m	220	08 kn	220 01 06	0	1015.1 mb	19.9 c	17.4 c				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C		THETA			mL/L	PCT	uM/L	uM/L	uM/L	uM/L	ug/L	ug/L	db	
0 ISL	19.16	19.16	33.496	23.833	406.0	0.000	5.69	107.5					0.26	0.06	0	
1	19.16	19.16	33.496	23.833	406.0	0.004	5.69	107.5					0.26	0.06	1	220
10 ISL	17.75	17.75	33.467	24.160	375.1	0.039	5.91	108.7					0.21	0.07	10	
14	16.79	16.79	33.457	24.381	354.2	0.054	6.04	109.0					0.20	0.07	14	219
20 ISL	15.59	15.59	33.447	24.647	329.0	0.074	6.05	106.6					0.28	0.11	20	
28	14.24	14.24	33.453	24.943	301.0	0.099	6.07	104.1					0.46	0.19	28	218
30 ISL	14.13	14.13	33.454	24.967	298.8	0.105	6.00	102.6					0.57	0.23	30	
44	13.45	13.44	33.488	25.133	283.3	0.146	5.51	93.0					1.06	0.39	44	217
50 ISL	12.62	12.61	33.550	25.346	263.2	0.163	4.67	77.5					0.83	0.33	50	
54	12.10	12.09	33.593	25.479	250.5	0.173	4.15	68.1					0.65	0.29	54	216
65	11.85	11.84	33.619	25.547	244.4	0.200	3.99	65.1					0.55	0.29	65	215
74	11.11	11.10	33.705	25.750	225.3	0.221	3.43	55.1					0.31	0.22	74	214
75 ISL	11.05	11.04	33.714	25.767	223.6	0.224	3.39	54.4					0.29	0.21	75	
84	10.63	10.62	33.784	25.896	211.5	0.243	3.11	49.5					0.11	0.16	84	213
94	10.32	10.31	33.853	26.004	201.4	0.264	2.87	45.4					0.05	0.05	94	212
100 ISL	10.21	10.20	33.878	26.042	197.9	0.276	2.78	43.9					0.03	0.05	100	
110	10.08	10.07	33.914	26.093	193.3	0.295	2.65	41.7					0.02	0.06	110	211
123	9.93	9.92	33.980	26.170	186.2	0.320	2.45	38.5					0.01	0.05	123	210
125 ISL	9.91	9.90	33.985	26.177	185.6	0.324	2.44	38.3					0.01	0.05	125	
143	9.73	9.71	34.019	26.234	180.5	0.357	2.36	36.9					0.01	0.04	143	209
150 ISL	9.67	9.65	34.041	26.262	178.1	0.369	2.28	35.6					0.01	0.04	150	
169	9.53	9.51	34.101	26.332	171.8	0.402	2.04	31.8					0.01	0.05	169	208
198	9.28	9.26	34.142	26.405	165.4	0.451	1.90	29.4					0.01	0.05	198	207
200 ISL	9.25	9.23	34.145	26.412	164.7	0.455	1.88	29.1							200	
227	8.76	8.74	34.183	26.520	154.8	0.498	1.69	25.9							227	206
250 ISL	8.42	8.39	34.177	26.568	150.5	0.533	1.68	25.5							250	
267	8.22	8.19	34.170	26.594	148.4	0.558	1.67	25.2							267	205
300 ISL	7.98	7.95	34.203	26.656	142.9	0.606	1.37	20.6							300	
317	7.87	7.84	34.224	26.689	140.1	0.630	1.19	17.9							317	204
378	7.28	7.24	34.248	26.793	130.8	0.713	0.84	12.4							378	203
400 ISL	7.18	7.14	34.255	26.813	129.2	0.742	0.77	11.4							400	
437	7.04	7.00	34.266	26.841	127.0	0.789	0.67	9.9							437	202
500 ISL	6.58	6.53	34.292	26.924	119.7	0.867	0.45	6.6							500	
531	6.35	6.30	34.306	26.966	116.0	0.903	0.34	4.9							531	201

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD	AMT	TYPE
33 15.3 N	118 15.7 W	18/06/98	0702	UTC	301 m	290	06 kn			1016.1 mb	18.5 c	16.1 c				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C		THETA			mL/L	PCT	uM/L	uM/L	uM/L	uM/L	ug/L	ug/L	db	
0 ISL	19.12	19.12	33.595	23.918	397.8	0.000	5.61	106.0					0.26	0.07	0	
1	19.12	19.12	33.595	23.918	397.9	0.004	5.61	105.9					0.26	0.07	1	217
8	18.95	18.95	33.598	23.964	393.8	0.032	5.66	106.6					0.26	0.07	8	216
10 ISL	18.85	18.85	33.601	23.992	391.2	0.040	5.77	108.4					0.28	0.08	10	
19	18.39	18.39	33.617	24.119	379.4	0.074	6.08	113.3					0.38	0.12	19	215
20 ISL	18.02	18.02	33.616	24.209	370.8	0.078	6.06	112.1					0.51	0.17	20	
29	14.40	14.40	33.663	25.072	288.8	0.108	5.40	93.0					1.56	0.60	29	214
30 ISL	14.14	14.14	33.665	25.128	283.5	0.111	5.20	89.1					1.51	0.60	30	
39	12.44	12.43	33.680	25.482	250.0	0.135	3.49	57.7					1.07	0.58	39	213
49	11.28	11.27	33.751	25.754	224.3	0.158	3.07	49.6					0.19	0.24	49	212
50 ISL	11.21	11.20	33.750	25.766	223.1	0.160	3.08	49.6					0.18	0.23	50	
59	10.77	10.76	33.742	25.839	216.4	0.180	3.25	51.9					0.11	0.18	59	211
69	10.54	10.53	33.798	25.923	208.6	0.201	3.05	48.5					0.04	0.11	69	210
75 ISL	10.41	10.40	33.817	25.960	205.2	0.214	2.99	47.4					0.03	0.09	75	
83	10.23	10.22	33.838	26.008	200.8	0.230	2.94	46.4					0.02	0.08	83	209
99	9.76	9.75	33.903	26.138	188.7	0.261	2.82	44.1					0.02	0.06	99	208
100 ISL	9.74	9.73	33.906	26.144	188.2	0.263	2.81	43.9					0.02	0.06	100	
118	9.47	9.46	33.959	26.230	180.4	0.296	2.58	40.1					0.01	0.05	118	207
125 ISL	9.37	9.36	33.988	26.269	176.8	0.309	2.48	38.4					0.01	0.05	125	
138	9.19	9.17	34.037	26.336	170.6	0.331	2.32	35.8					0.01	0.05	138	206
150 ISL	9.05	9.03	34.054	26.372	167.4	0.352	2.26	34.8					0.01	0.05	150	
167	8.87	8.85	34.063	26.408	164.3	0.380	2.21	33.9					0.01	0.04	167	205
198	8.58	8.56	34.092	26.476	158.3	0.430	2.09	31.8					0.01	0.04	198	204
200 ISL	8.55	8.53	34.094	26.483	157.7	0.433	2.08	31.7							200	
228	8.11	8.09	34.126	26.575	149.3	0.476	1.87	28.2							228	203
250 ISL	7.87	7.84	34.160	26.637	143.7	0.508	1.60	24.0							250	
269	7.72	7.69	34.188	26.681	139.8	0.535	1.37	20.5							269	202
299	7.57	7.54	34.218	26.727	135.9	0.577	1.12	16.7							299	201

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD	AMT	TYPE
33 11.0 N	118 23.2 W	18/06/98	0950	UTC	1177 m	280	06 kn			1015.9 mb	17.7 c	15.5 c				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C		THETA			mL/L	PCT	uM/L	uM/L	uM/L	uM/L	ug/L	ug/L	db	
0 ISL	18.84	18.84	33.528	23.938	396.0	0.000	5.66	106.3					0.17	0.06	0	
1	18.84	18.84	33.528	23.938	396.0	0.004	5.66	106.3					0.17	0.06	1	220
9	18.59	18.59	33.514	23.990	391.3	0.035	5.73	107.1					0.17	0.05	9	219
10 ISL	18.57	18.57	33.512	23.994	391.0	0.039	5.74	107.2					0.17	0.05	10	
19	17.98	17.98	33.507	24.136	377.8	0.074	5.92	109.3					0.25	0.08	19	218
20 ISL	17.79	17.79	33.514	24.187	372.9	0.078	5.96	109.7					0.27	0.09	20	
30	15.33	15.33	33.613	24.832	311.7	0.112	6.33	111.1					0.46	0.19	30	217
40	12.69	12.68	33.717	25.462	251.9	0.140	3.37	56.0					1.54	0.98	40	216
49	11.61	11.60	33.784	25.719	227.6	0.162	2.81	45.7					0.39	0.60	49	215
50 ISL	11.52	11.51	33.788	25.739	225.7	0.164	2.81	45.6					0.36	0.55	50	
59	10.87	10.86	33.814	25.877	212.8	0.184	2.82	45.1					0.10	0.23	59	214
68	10.51	10.50	33.826	25.950	206.0	0.203	2.88	45.7					0.05	0.16	68	213
75 ISL	10.33	10.32	33.853	26.002	201.2	0.217	2.82	44.6					0.04	0.13	75	
84	10.14	10.13	33.895	26.067	195.2	0.235	2.69	42.4					0.03	0.12	84	212
98	9.83	9.82	33.950	26.163	186.4	0.261	2.55	39.9					0.02	0.12	98	211
100 ISL	9.81	9.80	33.959	26.173	185.4	0.265	2.52	39.4					0.02	0.12	101	
118	9.63	9.62	34.032	26.261	177.5	0.298	2.29	35.7					0.01	0.09	119	210
125 ISL	9.53	9.52	34.055	26.295	174.3	0.310	2.22	34.6					0.01	0.08	126	
139	9.33	9.31	34.089	26.355	168.9	0.334	2.11	32.7					0.01	0.08	140	209
150 ISL	9.22	9.20	34.100	26.381	166.6	0.353	2.10	32.5					0.01	0.08	151	
169	9.03	9.01	34.101	26.413	164.0	0.384	2.08	32.0					0.01	0.09	170	208
199	8.57	8.55	34.087	26.474	158.5	0.432	2.14	32.6					0.01	0.09	200	207
200 ISL	8.56	8.54	34.088	26.476	158.3	0.434	2.13	32.4							201	
228	8.42	8.40	34.137	26.537	153.1	0.477	1.85	28.1							229	206
250 ISL	8.26	8.23	34.173	26.590	148.4	0.511	1.60	24.2							251	
268	8.12	8.09	34.198	26.630	144.8	0.537	1.41	21.3							270	205
300 ISL	7.89	7.86	34.226	26.687	139.9	0.583	1.16	17.4							302	
316	7.76	7.73	34.236	26.714	137.6	0.605	1.06	15.9							318	204
377	7.16	7.12	34.259	26.818	128.3	0.686	0.73	10.8							379	203
400 ISL	6.92	6.88	34.271	26.861	124.4	0.715	0.61	9.0							403	
438	6.56	6.52	34.291	26.925	118.6	0.761	0.45	6.6							441	202
500 ISL	6.13	6.09	34.317	27.002	111.8	0.833	0.33	4.8							503	
511	6.05	6.00	34.322	27.016	110.5	0.845	0.31	4.5							515	201

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD	AMT	TYPE
32 55.3 N	118 56.1 W	18/06/98	1507	UTC	1708 m	150	05 kn	280 01 10	2	1017.2 mb	18.2 c	16.1 c			8/8	AC
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C		THETA			mL/L	PCT	uM/L	uM/L	uM/L	uM/L	ug/L	ug/L	db	
0 ISL	17.75	17.75	33.636	24.289	362.4	0.000	5.73	105.5					0.51	0.16	0	
1	17.75	17.75	33.636	24.290	362.5	0.004	5.73	105.5					0.51	0.16	1	220
8	17.42	17.42	33.625	24.361	355.9	0.029	5.75	105.1					0.41	0.17	8	219
10 ISL	17.39	17.39	33.626	24.369	355.2	0.036	5.76	105.3					0.45	0.18	10	
18	17.27	17.27	33.628	24.399	352.6	0.064	5.78	105.4					0.60	0.22	18	218
20 ISL	16.78	16.78	33.619	24.508	342.3	0.071	5.71	103.1					0.93	0.32	20	
29	14.15	14.15	33.622	25.093	286.8	0.099	5.05	86.5					2.01	0.66	29	217
30 ISL	13.91	13.91	33.629	25.148	281.6	0.102	4.91	83.7					1.89	0.64	30	
39	12.14	12.13	33.703	25.557	242.8	0.126	3.69	60.7					0.48	0.31	39	216
49	10.86	10.85	33.758	25.835	216.5	0.149	3.19	51.0					0.11	0.22	49	215
50 ISL	10.81	10.80	33.768	25.851	215.0	0.151	3.14	50.2					0.10	0.21	50	
58	10.54	10.53	33.840	25.955	205.3	0.168	2.80	44.5					0.05	0.17	58	214
69	10.01	10.00	33.875	26.074	194.2	0.190	2.71	42.6					0.01	0.13	69	213
75 ISL	9.80	9.79	33.887	26.118	190.1	0.201	2.69	42.1					0.01	0.12	75	
84	9.58	9.57	33.909	26.172	185.1	0.218	2.65	41.3					0.01	0.12	84	212
98	9.48	9.47	33.974	26.240	179.0	0.244	2.41	37.5					0.01	0.10	99	211
100 ISL	9.46	9.45	33.980	26.248	178.3	0.247	2.39	37.1					0.01	0.10	101	
118	9.28	9.27	34.011	26.301	173.5	0.279	2.28	35.3					0.01	0.09	119	210
125 ISL	9.16	9.15	34.012	26.321	171.7	0.291	2.31	35.6					0.01	0.09	126	
139	8.95	8.94	34.020	26.361	168.2	0.315	2.35	36.1					0.01	0.08	140	209
150 ISL	8.95	8.93	34.060	26.393	165.4	0.333	2.16	33.2					0.01	0.08	151	
168	8.94	8.92	34.123	26.444	160.9	0.363	1.85	28.4					0.01	0.08	169	208
199	8.44	8.42	34.118	26.518	154.3	0.411	2.02	30.7					0.00	0.03	200	207
200 ISL	8.43	8.41	34.120	26.521	154.0	0.413	2.01	30.5							201	
228	8.24	8.22	34.175	26.594	147.6	0.455	1.63	24.7							229	206
250 ISL	7.99	7.96	34.193	26.646	143.0	0.487	1.43	21.5							252	
269	7.77	7.74	34.202	26.685	139.5	0.514	1.29	19.3							271	205
300 ISL	7.52	7.49	34.219	26.735	135.1	0.557	1.10	16.4							302	
318	7.37	7.34	34.227	26.763	132.7	0.581	1.01	15.0							320	204
377	6.64	6.61	34.235	26.870	123.0	0.656	0.70	10.2							379	203
400 ISL	6.48	6.44	34.249	26.902	120.1	0.684	0.59	8.6							403	
436	6.30	6.26	34.275	26.947	116.3	0.727	0.45	6.5							439	202
500 ISL	5.99	5.95	34.323	27.025	109.5	0.799	0.30	4.3							503	
515	5.92	5.87	34.335	27.043	107.9	0.815	0.26	3.7							519	201

A) SECOND FLUOROMETER READING NOT RECORDED, CHLOROPHYLL AND PHAEOPIGMENT CALCULATED WITH ASSUMED ACID RATIO INTERPOLATED FROM ADJACENT LEVELS.

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD	AMT	TYPE
32 39.0 N	119 28.7 W	18/06/98	2048	UTC	1308 m		00 kn	340 03 06	1	1018.0 mb	18.7 c	15.6 c				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C		THETA			mL/L	PCT	uM/L	uM/L	uM/L	uM/L	ug/L	ug/L	db	
0 ISL	16.65	16.65	32.941	24.017	388.4	0.000	5.89	105.7					0.12	0.02	0	
2	16.65	16.65	32.941	24.017	388.5	0.008	5.89	105.7					0.12	0.02	2	220
9	15.79	15.79	32.986	24.247	366.8	0.034	5.97	105.3					0.17	0.04	9	219
10 ISL	15.73	15.73	32.998	24.270	364.6	0.038	5.97	105.2					0.17	0.04	10	
20	15.18	15.18	33.086	24.459	346.9	0.073	5.99	104.5					0.18	0.05	20	218
30	14.18	14.18	33.021	24.622	331.6	0.107	6.17	105.4					0.27	0.08	30	217
39	14.06	14.05	33.198	24.784	316.4	0.137	5.79	98.8					0.45	0.18	39	216
50	12.40	12.39	33.144	25.074	289.0	0.170	5.31	87.5					0.43	0.19	50	215
59	12.38	12.37	33.309	25.206	276.7	0.195	5.21	85.9					0.38	0.20	59	214
69	11.85	11.84	33.349	25.337	264.4	0.222	4.84	78.9					0.12	0.13	69	213
75 ISL	11.34	11.33	33.460	25.517	247.4	0.238	4.49	72.4					0.09	0.11	75	
84	10.62	10.61	33.629 D	25.777	222.8	0.259	4.02	63.9					0.05	0.09	84	212
99	10.24	10.23	33.644	25.855	215.7	0.292	3.94	62.1					0.03	0.06	99	211
100 ISL	10.20	10.19	33.649	25.866	214.7	0.294	3.93	61.9					0.03	0.06	100	
119	9.47	9.46	33.764	26.077	194.8	0.333	3.62	56.2					0.01	0.04	120	210
125 ISL	9.33	9.32	33.784	26.116	191.3	0.344	3.55	54.9					0.01	0.04	126	
139	9.13	9.11	33.832	26.186	184.9	0.371	3.34	51.4					0.00	0.04	140	209
150 ISL	9.11	9.09	33.911	26.251	178.9	0.391	2.94	45.3					0.00	0.06	151	
168	9.09	9.07	34.037	26.353	169.6	0.422	2.24	34.5					0.01	0.09	169	208
199	8.72	8.70	34.153	26.503	155.9	0.473	1.63	24.9					0.01	0.09	200	207
200 ISL	8.72	8.70	34.155	26.504	155.8	0.474	1.62	24.8							201	
228	8.67	8.65	34.199	26.547	152.3	0.517	1.40	21.4							229	206
250 ISL	8.52	8.49	34.215	26.583	149.2	0.550	1.31	19.9							251	
268	8.35	8.32	34.223	26.615	146.4	0.577	1.25	19.0							270	205
300 ISL	8.01	7.98	34.241	26.681	140.6	0.623	1.08	16.3							302	
318	7.77	7.74	34.245 D	26.720	137.1	0.648	1.00	15.0							320	204
378	6.73	6.70	34.197	26.828	127.0	0.727	0.92	13.4							380	203
400 ISL	6.54	6.50	34.203	26.858	124.3	0.755	0.83	12.1							403	
437	6.34	6.30	34.229	26.905	120.3	0.800	0.66	9.6							440	202
500 ISL	6.12	6.08	34.295	26.986	113.3	0.874	0.41	5.9							503	
516	6.06	6.01	34.312	27.007	111.5	0.892	0.35	5.0							520	201

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD	AMT	TYPE
32 24.5 N	119 57.8 W	19/06/98	0122	UTC	881 m	210	05 kn	280 03 05	1	1016.8 mb	17.9 c	15.0 c				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C		THETA			mL/L	PCT	uM/L	uM/L	uM/L	uM/L	ug/L	ug/L	db	
0 ISL	17.49	17.49	33.061	23.912	398.5	0.000	5.73	104.6					0.17	0.03	0	
1	17.49	17.49	33.061	23.912	398.5	0.004	5.73	104.6					0.17	0.03	1	220
10 ISL	17.21	17.21	33.044	23.965	393.7	0.040	5.74	104.2					0.17	0.03	10	
15	16.98	16.98	33.053	24.027	388.0	0.059	5.75	103.9					0.17	0.03	15	219
20 ISL	16.85	16.85	33.120	24.109	380.3	0.078	5.79	104.4					0.19	0.04	20	
30	16.62	16.62	33.282	24.287	363.7	0.116	5.87	105.5					0.23	0.05	30	218
44	16.30	16.29	33.436	24.479	345.8	0.165	5.83	104.2					0.24	0.07	44	217
50 ISL	15.58	15.57	33.331	24.561	338.2	0.186	5.88	103.5					0.30	0.10	50	
54	15.11	15.10	33.259	24.609	333.7	0.199	5.91	103.0					0.35	0.12	54	216
65	14.80	14.79	33.278	24.691	326.2	0.236	5.84	101.2					0.40	0.21	65	215
74	14.58	14.57	33.364	24.804	315.6	0.264	5.67	97.8					0.37	0.31	74	214
75 ISL	14.52	14.51	33.356	24.811	315.0	0.268	5.66	97.5					0.37	0.31	75	
83	13.95	13.94	33.307	24.892	307.4	0.292	5.53	94.2					0.31	0.25	83	213
94	13.26	13.25	33.504	25.185	279.7	0.325	5.03	84.5					0.18	0.19	94	212
100 ISL	12.81	12.80	33.519	25.286	270.2	0.341	4.88	81.3					0.14	0.18	100	
109	12.13	12.12	33.505	25.407	258.9	0.365	4.72	77.5					0.11	0.16	109	211
124	11.14	11.12	33.558	25.631	237.7	0.402	4.40	70.7					0.08	0.10	125	210
125 ISL	11.08	11.06	33.562	25.645	236.4	0.405	4.38	70.3					0.08	0.10	126	
144	10.14	10.12	33.665	25.889	213.4	0.447	4.02	63.3					0.03	0.06	145	209
150 ISL	9.93	9.91	33.713	25.962	206.5	0.460	3.79	59.4					0.02	0.06	151	
168	9.45	9.43	33.856	26.153	188.6	0.496	3.08	47.8					0.01	0.07	169	208
200	8.80	8.78	33.989	26.362	169.3	0.553	2.62	40.1					0.01	0.08	201	207
230	8.10	8.08	34.048	26.515	155.0	0.601	2.38	35.9							231	206
250 ISL	7.89	7.86	34.091	26.580	149.1	0.632	2.09	31.3							251	
268	7.80	7.77	34.128	26.623	145.4	0.658	1.80	26.9							269	205
300 ISL	7.72	7.69	34.192	26.685	140.0	0.704	1.34	20.0							302	
321	7.65	7.62	34.223	26.720	137.0	0.733	1.10	16.4							323	204
376	6.93	6.89	34.225	26.823	127.6	0.806	0.86	12.6							378	203
400 ISL	6.76	6.72	34.244	26.861	124.3	0.836	0.74	10.8							402	
438	6.55	6.51	34.281	26.919	119.2	0.882	0.55	8.0							441	202
500 ISL	6.05	6.01	34.325	27.019	110.2	0.954	0.33	4.7							503	
510	5.97	5.93	34.333	27.035	108.7	0.964	0.30	4.3							513	201

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD	AMT	TYPE
32 5.1 N	120 38.4 W	19/06/98	0848	UTC		300	11 kn			1016.9 mb	18.1 c	15.0 c				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C		THETA			mL/L	PCT	uM/L	uM/L	uM/L	uM/L	ug/L	ug/L	db	
0 ISL	17.86	17.86	33.173	23.908	398.8	0.000	5.64	103.7					0.16	0.03	0	
1	17.86	17.86	33.173	23.908	398.8	0.004	5.64	103.7					0.16	0.03	1	220
10 ISL	17.61	17.61	33.159	23.958	394.4	0.040	5.66	103.6					0.14	0.03	10	
14	17.42	17.42	33.155	24.001	390.4	0.055	5.67	103.4					0.14	0.03	14	219
20 ISL	17.14	17.14	33.168	24.077	383.3	0.079	5.76	104.5					0.16	0.03	20	
29	16.67	16.67	33.207	24.218	370.3	0.113	5.90	106.0					0.21	0.04	29	218
30 ISL	16.62	16.62	33.216	24.236	368.5	0.116	5.90	105.9					0.21	0.04	30	
44	15.89	15.88	33.310	24.475	346.1	0.166	5.90	104.5					0.28	0.08	44	217
50 ISL	15.47	15.46	33.266	24.535	340.6	0.187	5.90	103.6					0.33	0.11	50	
58	15.06	15.05	33.224	24.593	335.3	0.214	5.90	102.7					0.37	0.14	58	216
74	15.59	15.58	33.474	24.669	328.6	0.267	5.80	102.2					0.30	0.14	74	215
75 ISL	15.63	15.62	33.491	24.674	328.2	0.270	5.79	102.1					0.30	0.14	75	
84	15.88	15.87	33.639	24.732	323.0	0.300	5.70	101.1					0.30	0.15	84	214
93	15.88	15.87	33.776	24.838	313.2	0.328	5.57	98.9					0.27	0.24	93	213
100 ISL	15.66	15.64	33.800	24.906	307.0	0.350	5.47	96.7					0.27	0.27	100	
104	15.35	15.33	33.780	24.959	301.9	0.362	5.39	94.7					0.27	0.28	104	212
113	13.83	13.81	33.656	25.188	280.1	0.388	5.13	87.3					0.18	0.21	113	211
124	12.02	12.00	33.600	25.502	250.2	0.417	4.80	78.6					0.11	0.17	125	210
125 ISL	11.94	11.92	33.599	25.516	248.9	0.420	4.78	78.2					0.11	0.17	126	
139	11.27	11.25	33.614	25.651	236.2	0.454	4.58	73.8					0.09	0.12	140	209
150 ISL	10.69	10.67	33.635	25.771	224.9	0.479	4.36	69.4					0.07	0.09	151	
163	10.05	10.03	33.674	25.912	211.6	0.508	4.08	64.1					0.04	0.06	164	208
192	9.00	8.98	33.807	26.188	185.7	0.565	3.58	55.0					0.01	0.02	193	207
200 ISL	8.79	8.77	33.843	26.249	180.0	0.580	3.48	53.2							201	
228	8.25	8.23	33.953	26.418	164.2	0.628	3.12	47.1							229	206
250 ISL	7.99	7.96	34.014	26.505	156.3	0.663	2.71	40.7							251	
267	7.84	7.81	34.048	26.554	151.9	0.689	2.39	35.8							268	205
300 ISL	7.57	7.54	34.093	26.629	145.2	0.739	1.97	29.3							302	
315	7.45	7.42	34.105	26.655	142.9	0.760	1.82	27.0							317	204
378	6.76	6.73	34.130	26.771	132.4	0.847	1.28	18.7							380	203
400 ISL	6.60	6.56	34.155	26.812	128.7	0.876	1.07	15.6							402	
439	6.37	6.33	34.202	26.880	122.7	0.925	0.74	10.7							442	202
500 ISL	5.99	5.95	34.243	26.961	115.5	0.997	0.49	7.0							503	
512	5.91	5.87	34.251	26.978	114.0	1.011	0.44	6.3							515	201

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD	AMT	TYPE
31 45.1 N	121 18.8 W	19/06/98	1508	UTC		340	11 kn	340 03 07	2	1017.3 mb	17.1 c	15.0 c			8/8	AC
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C		THETA			mL/L	PCT	uM/L	uM/L	uM/L	uM/L	ug/L	ug/L	db	
0 ISL	17.93	17.93	33.667	24.269	364.4	0.000	5.54	102.3					0.10	0.02	0	
1	17.93	17.93	33.667	24.270	364.4	0.004	5.54	102.3					0.10	0.02	1	220
10 ISL	17.94	17.94	33.666	24.267	365.0	0.036	5.55	102.5					0.09	0.02	10	
13	17.94	17.94	33.666	24.267	365.1	0.047	5.56	102.7					0.09	0.02	13	219
20 ISL	17.90	17.90	33.663	24.275	364.6	0.073	5.56	102.6					0.09	0.02	20	
29	17.84	17.84	33.659	24.286	363.7	0.106	5.56	102.5					0.09	0.02	29	218
30 ISL	17.79	17.78	33.654	24.295	363.0	0.109	5.57	102.6					0.09	0.02	30	
44	17.02	17.01	33.581	24.423	351.2	0.159	5.71	103.6					0.11	0.03	44	217
50 ISL	16.91	16.90	33.576	24.446	349.3	0.180	5.72	103.5					0.12	0.04	50	
59	16.76	16.75	33.572	24.478	346.5	0.212	5.73	103.4					0.14	0.05	59	216
73	16.16	16.15	33.536	24.589	336.3	0.259	5.78	103.0					0.15	0.05	73	215
75 ISL	16.13	16.12	33.537	24.597	335.6	0.266	5.78	103.0					0.16	0.05	75	
84	16.04	16.03	33.551	24.628	332.9	0.296	5.76	102.4					0.19	0.07	84	214
93	15.94	15.93	33.567	24.663	329.8	0.326	5.72	101.5					0.23	0.11	93	213
100 ISL	15.92	15.90	33.578	24.676	328.8	0.349	5.70	101.2					0.26	0.13	100	
103	15.91	15.89	33.582	24.682	328.3	0.359	5.69	101.0					0.27	0.15	103	212
114	14.53	14.51	33.528	24.943	303.6	0.394	5.38	92.8					0.31	0.34	114	211
122	13.85	13.83	33.522	25.080	290.6	0.418	5.16	87.8					0.26	0.28	123	210
125 ISL	13.60	13.58	33.517	25.128	286.1	0.426	5.10	86.3					0.24	0.26	126	
139	12.52	12.50	33.508	25.335	266.5	0.465	4.87	80.6					0.16	0.21	140	209
150 ISL	11.74	11.72	33.537	25.506	250.4	0.493	4.61	75.0					0.11	0.17	151	
162	11.01	10.99	33.587	25.677	234.2	0.522	4.32	69.2					0.07	0.13	163	208
195	9.89	9.87	33.735	25.987	205.2	0.595	3.70	57.9					0.02	0.04	196	207
200 ISL	9.75	9.73	33.764	26.033	200.8	0.605	3.60	56.2							201	
229	9.02	9.00	33.918	26.272	178.5	0.660	3.11	47.8							230	206
250 ISL	8.61	8.58	33.984	26.388	167.7	0.696	2.88	43.9							251	
269	8.29	8.26	34.021	26.466	160.5	0.728	2.72	41.2							270	205
300 ISL	7.82	7.79	34.051	26.560	151.9	0.776	2.49	37.3							302	
318	7.57	7.54	34.057	26.601	148.2	0.803	2.36	35.1							320	204
373	6.86	6.83	34.077	26.716	137.6	0.882	1.79	26.2							375	203
400 ISL	6.60	6.56	34.099	26.768	132.9	0.918	1.46	21.2							402	
434	6.35	6.31	34.133	26.828	127.5	0.962	1.08	15.6							437	202
500 ISL	6.04	6.00	34.209	26.928	118.6	1.044	0.64	9.2							503	
513	5.98	5.94	34.224	26.948	116.9	1.059	0.55	7.9							516	201



LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD	AMT	TYPE
31 25.1 N	121 59.4 W	19/06/98	2213	UTC	3926 m	310	13 kn	310 04 04	2	1018.1 mb	18.8 c	16.0 c				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C		THETA			mL/L	PCT	uM/L	uM/L	uM/L	uM/L	ug/L	ug/L	db	
0 ISL	18.20	18.20	33.565	24.125	378.1	0.000	5.55	103.0					0.11	0.03	0	
1	18.20	18.20	33.565	24.125	378.1	0.004	5.55	103.0					0.11	0.03	1	220
9	18.17	18.17	33.598	24.158	375.3	0.034	5.57	103.3					0.11	0.01	9	219
10 ISL	18.12	18.12	33.595	24.168	374.3	0.038	5.58	103.4					0.11	0.01	10	
19	17.42	17.42	33.543	24.298	362.2	0.071	5.69	104.0					0.13	0.03	19	218
20 ISL	17.31	17.31	33.534	24.318	360.4	0.074	5.71	104.1					0.13	0.03	20	
29	16.39	16.39	33.471	24.485	344.8	0.106	5.84	104.6					0.16	0.05	29	217
30 ISL	16.34	16.34	33.468	24.494	343.9	0.110	5.84	104.5					0.16	0.05	30	
40	16.10	16.09	33.475	24.554	338.5	0.144	5.83	103.8					0.18	0.07	40	216
50	16.06	16.05	33.559	24.628	331.8	0.177	5.80	103.2					0.23	0.07	50	215
59	15.74	15.73	33.522	24.672	327.8	0.207	5.82	102.9					0.28	0.10	59	214
69	16.00	15.99	33.641	24.706	325.0	0.240	5.75	102.3					0.25	0.09	69	213
75 ISL	15.92	15.91	33.628	24.714	324.4	0.259	5.75	102.1					0.25	0.09	75	
85	15.72	15.71	33.590	24.730	323.2	0.291	5.76	101.8					0.26	0.10	85	212
99	15.88	15.86	33.704	24.782	318.7	0.336	5.65	100.3					0.26	0.16	99	211
100 ISL	15.86	15.84	33.703	24.786	318.3	0.340	5.64	100.0					0.26	0.17	100	
119	15.42	15.40	33.787	24.949	303.3	0.399	5.41	95.2					0.26	0.24	119	210
125 ISL	14.73	14.71	33.739	25.063	292.6	0.416	5.29	91.7					0.20	0.19	126	
139	12.89	12.87	33.630	25.358	264.5	0.455	4.97	82.9					0.05	0.04	140	209
150 ISL	11.81	11.79	33.633	25.567	244.6	0.483	4.75	77.5					0.04	0.04	151	
168	10.50	10.48	33.692	25.849	217.8	0.525	4.42	70.1					0.03	0.03	169	208
199	9.46	9.44	33.772	26.087	195.6	0.589	3.93	61.0					0.01	0.01	200	207
200 ISL	9.43	9.41	33.776	26.095	194.8	0.591	3.91	60.6							201	
228	8.62	8.60	33.888	26.311	174.6	0.643	3.42	52.1							229	206
250 ISL	8.20	8.17	33.952	26.425	163.9	0.680	3.13	47.2							251	
267	7.95	7.92	33.988	26.491	157.9	0.707	2.94	44.1							268	205
300 ISL	7.54	7.51	34.022	26.577	150.0	0.758	2.59	38.5							302	
318	7.34	7.31	34.032	26.614	146.8	0.785	2.40	35.5							320	204
378	6.65	6.62	34.084	26.749	134.3	0.869	1.57	22.9							380	203
400 ISL	6.52	6.48	34.111	26.788	130.9	0.898	1.33	19.3							402	
437	6.35	6.31	34.157	26.847	125.7	0.946	0.99	14.3							440	202
500 ISL	5.93	5.89	34.213	26.945	116.9	1.022	0.62	8.9							503	
516	5.82	5.78	34.227	26.970	114.7	1.041	0.52	7.4							519	201

A) SECOND FLUOROMETER READINGS NOT RECORDED, CHLOROPHYLL AND PHAEOPIGMENTS  
CALCULATED WITH ASSUMED ACID RATIOS INTERPOLATED FROM ADJACENT LEVELS.

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI/FOREL	CLD	AMT	TYPE
31 4.8 N	122 39.9 W	20/06/98	0457	UTC	4028 m	340	15 kn			1018.2 mb	17.8 c	15.1 c				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C		THETA			mL/L	PCT	uM/L	uM/L	uM/L	uM/L	ug/L	ug/L	db	
0 ISL	17.93	17.93	33.277	23.971	392.8	0.000	5.62	103.6					0.17	0.02	0	
1	17.93	17.93	33.277	23.971	392.8	0.004	5.62	103.6					0.17	0.02	1	220
9	17.94	17.94	33.283	23.974	392.9	0.035	5.61	103.4					0.16	0.02	9	219
10 ISL	17.94	17.94	33.282	23.973	393.0	0.039	5.61	103.4					0.16	0.02	10	
19	17.91	17.91	33.275	23.975	393.1	0.075	5.60	103.2					0.20	0.03	19	218
20 ISL	17.85	17.85	33.276	23.990	391.7	0.079	5.62	103.4					0.20	0.03	20	
30	16.95	16.95	33.260	24.193	372.6	0.117	5.85	105.8					0.22	0.02	30	217
39	15.93	15.92	33.184	24.369	356.1	0.150	5.96	105.6					0.30	0.04	39	216
49	15.28	15.27	33.234	24.552	338.9	0.184	5.96	104.2					0.30	0.03	49	215
50 ISL	15.25	15.24	33.240	24.563	337.9	0.188	5.96	104.2					0.30	0.04	50	
59	15.09	15.08	33.292	24.639	331.0	0.218	5.91	103.0					0.25	0.09	59	214
70	15.15	15.14	33.351	24.671	328.2	0.254	5.83	101.7					0.25	0.11	70	213
75 ISL	15.19	15.18	33.390	24.693	326.3	0.270	5.80	101.3					0.23	0.16	75	
83	15.22	15.21	33.465	24.744	321.7	0.296	5.73	100.2					0.21	0.23	83	212
99	15.12	15.11	33.660	24.917	305.7	0.347	5.46	95.4					0.26	0.18	99	211
100 ISL	15.04	15.02	33.656	24.931	304.4	0.350	5.44	94.9					0.26	0.18	100	
120	12.87	12.85	33.531	25.284	270.9	0.407	4.93	82.2					0.13	0.12	120	210
125 ISL	12.36	12.34	33.532	25.384	261.5	0.420	4.79	79.0					0.09	0.10	126	
140	11.03	11.01	33.585	25.672	234.2	0.458	4.37	70.1					0.00	0.04	141	209
150 ISL	10.47	10.45	33.647	25.819	220.3	0.480	4.17	66.1					0.00	0.03	151	
168	9.81	9.79	33.766	26.024	201.0	0.518	3.83	59.9					0.01	0.01	169	208
198	9.10	9.08	33.896	26.242	180.8	0.576	3.08	47.4					0.00	0.01	199	207
200 ISL	9.05	9.03	33.900	26.253	179.7	0.579	3.09	47.5							201	
227	8.53	8.51	33.938	26.364	169.5	0.626	3.31	50.3							228	206
250 ISL	8.29	8.26	34.010	26.457	161.0	0.664	2.82	42.7							251	
264	8.16	8.13	34.051	26.509	156.3	0.686	2.46	37.1							265	205
300 ISL	7.52	7.49	34.057	26.608	147.2	0.741	2.24	33.3							302	
319	7.18	7.15	34.045	26.646	143.6	0.769	2.21	32.6							321	204
376	6.60	6.57	34.063	26.739	135.2	0.848	1.70	24.7							378	203
400 ISL	6.45	6.41	34.084	26.776	132.0	0.880	1.44	20.9							402	
438	6.24	6.20	34.121	26.833	127.0	0.929	1.06	15.3							441	202
500 ISL	5.83	5.79	34.171	26.924	118.8	1.006	0.70	10.0							503	
519	5.70	5.66	34.187	26.953	116.1	1.028	0.59	8.4							522	201