

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD AMT	TYPE			
35 5.3 N	120 46.6 W	17/04/06	0449 UTC	71 m	290 14 kn			1017.6 mb	13.7 C	12.0 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	13.54	13.54	33.089	24.805	313.3	0.000	6.33	106.8	5.4	0.40	1.8	0.08	3.36	0.39	0	
1	13.54	13.54	33.089	24.805	313.3	0.003	6.33	106.8	5.4	0.40	1.8	0.08	3.36	0.39	1	210
6	13.54	13.54	33.091	24.807	313.3	0.019	6.33	106.8	5.3	0.41	1.8	0.08	3.56	0.45	A	6 209
10	13.41	13.41	33.110	24.848	309.5	0.031	6.26	105.3	5.9	0.46	2.4	0.09	3.44	0.51		10 208
15	12.25	12.25	33.233	25.171	278.9	0.046	5.39	88.6	10.4	0.82	7.1	0.17	2.45	0.56		15 207
20 ISL	11.18	11.18	33.476	25.557	242.2	0.059	4.26	68.5	18.3	1.37	14.3	0.27	0.95	0.43		20
21	11.00	11.00	33.525	25.628	235.5	0.061	4.05	64.9	19.8	1.47	15.7	0.29	0.68	0.40		21 206
30	10.44	10.44	33.674	25.843	215.3	0.082	3.45	54.7	24.0	1.74	19.6	0.32	0.30	0.33		30 205
41	10.40	10.40	33.688	25.861	213.9	0.105	3.39	53.7	24.7	1.77	20.0	0.32	0.28	0.34		41 204
50	10.10	10.09	33.740	25.953	205.3	0.124	3.27	51.4	25.3	1.84	21.4	0.28	0.18	0.28		50 203
61	9.77	9.76	33.842	26.088	192.7	0.146	2.75	42.7	29.7	2.06	23.9	0.31	0.14	0.42		61 202
64	9.75	9.74	33.850	26.097	191.8	0.152	2.66	41.6	30.4	2.09	24.0	0.33	0.21	0.59		64 201

A) SECOND FLUOROMETER READING RECALCULATED BECAUSE ACID RATIO > TAU OF PURE CHL-A.
CHLOROPHYLL AND PHAEOPIGMENT CALCULATED WITH ACID RATIO FROM ADJACENT SAMPLES.

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD AMT	TYPE			
35 1.1 N	120 55.1 W	17/04/06	0658 UTC	245 m	310 15 kn			1018.5 mb	13.6 C	11.7 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	13.68	13.68	32.872	24.609	332.0	0.000	6.20	104.7	2.6	0.31	0.1	0.00	0.54	0.03	0	
2	13.68	13.68	32.872	24.609	332.0	0.007	6.20	104.7	2.6	0.31	0.1	0.00	0.54	0.03	2	220
2	13.68	13.68	32.871	24.609	332.1	0.007									2	221
10 ISL	13.63	13.63	32.882	24.627	330.5	0.033	6.21	104.8	2.7	0.31	0.0	0.00	0.43	0.07	10	
11	13.62	13.62	32.884	24.631	330.2	0.036	6.21	104.8	2.7	0.31	0.0	0.00	0.42	0.08	11	218
11	13.62	13.62	32.883	24.630	330.3	0.036									11	219
20	13.48	13.48	32.899	24.671	326.6	0.066	6.24	105.0	2.7	0.31	0.1	0.01	0.55	0.05	20	216
21	13.47	13.47	32.902	24.676	326.2	0.069									21	217
30	13.21	13.21	32.961	24.773	317.1	0.098									30	215
30	13.21	13.21	32.961	24.773	317.1	0.098	6.21	103.9	3.2	0.35	0.6	0.03	0.78	0.01	30	214
41	12.54	12.53	33.116	25.025	293.5	0.132	5.88	97.1	5.6	0.57	3.7	0.17	1.01	0.10	41	213
49	11.53	11.52	33.241	25.312	266.3	0.154									49	212
49	11.47	11.46	33.259	25.337	263.9	0.154	4.88	78.9	10.5	1.06	11.3	0.14	1.08	0.14	49	211
50 ISL	11.31	11.30	33.284	25.385	259.3	0.157	4.76	76.7	11.2	1.12	12.2	0.13	1.03	0.14	50	
59	10.13	10.12	33.517	25.774	222.5	0.178	3.88	61.0	17.7	1.54	18.8	0.05	0.42	0.14	59	210
70	9.82	9.81	33.696	25.966	204.4	0.202	3.42	53.5	23.1	1.77	21.6	0.20	0.07	0.12	70	209
75 ISL	9.65	9.64	33.724	26.016	199.8	0.212	3.33	51.9	23.5	1.79	22.4	0.16	0.06	0.11	75	
85	9.34	9.33	33.745	26.083	193.6	0.232	3.23	50.0	24.4	1.83	23.6	0.04	0.03	0.09	85	208
100	9.04	9.03	33.804	26.177	184.8	0.260	3.09	47.5	26.4	1.89	24.9	0.01	0.01	0.06	101	207
120	8.93	8.92	33.848	26.229	180.3	0.297	2.99	45.9	27.8	1.93	25.5	0.01	0.00	0.06	121	206
125 ISL	8.95	8.94	33.875	26.248	178.7	0.306	2.85	43.7	28.5	1.97	25.9	0.01	0.00	0.06	126	
139	9.01	9.00	33.960	26.305	173.5	0.330	2.40	36.9	31.0	2.12	27.3	0.01	0.00	0.06	140	205
150 ISL	8.92	8.90	34.018	26.365	168.1	0.349	2.17	33.3	33.3	2.21	28.3	0.01	0.00	0.05	151	
168	8.68	8.66	34.096	26.464	159.0	0.378	1.86	28.4	37.3	2.33	29.8	0.01	0.01	0.05	169	204
199	8.32	8.30	34.170	26.577	148.7	0.426	1.34	20.3	44.2	2.55	31.9	0.03	0.01	0.08	200	203
200 ISL	8.32	8.30	34.170	26.577	148.7	0.428	1.34	20.3	44.2	2.55	31.9	0.03			201	
228	8.33	8.31	34.177	26.582	148.8	0.469	1.26	19.1	45.2	2.58	31.9	0.04			229	202
236	8.34	8.32	34.178	26.581	149.0	0.481	1.26	19.1	45.5	2.58	31.9	0.04			237	201

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD AMT	TYPE			
34 53.4 N	121 12.0 W	16/04/06	2209 UTC	562 m	180 10 kn	280 04 08	1	1016.5 mb	15.7 C	15.0 C	12m	6/8	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	14.02	14.02	32.938	24.591	333.8	0.000	6.13	104.3	3.1	0.32	0.1	0.01	0.56	0.00	0	
2	14.02	14.02	32.938	24.591	333.8	0.007	6.13	104.3	3.1	0.32	0.1	0.01	0.56	0.00	2	222
10	13.71	13.71	32.942	24.658	327.7	0.033	6.17	104.3	3.4	0.32	0.1	0.01	0.74	0.12	10	221
20 ISL	13.42	13.42	32.962	24.732	320.8	0.066	6.12	102.9	3.6	0.35	0.6	0.05	1.08	0.10	20	
21	13.39	13.39	32.966	24.741	320.0	0.069	6.11	102.6	3.6	0.36	0.7	0.06	1.11	0.10	21	220
25	13.27	13.27	32.985	24.780	316.4	0.081	6.03	101.1	3.9	0.40	1.2	0.10	1.12	0.08	25	219
30 ISL	12.28	12.28	33.135	25.089	287.0	0.097	5.33	87.6	7.2	0.79	6.9	0.17	0.62	0.11	30	
31	12.06	12.06	33.168	25.156	280.7	0.099	5.17	84.6	7.9	0.87	8.2	0.17	0.51	0.12	31	218
36	11.68	11.68	33.219	25.267	270.3	0.113	4.87	79.0	9.1	1.01	10.4	0.07	0.40	0.11	36	217
40	11.34	11.34	33.271	25.370	260.5	0.124	4.62	74.5	10.8	1.15	12.6	0.05	0.27	0.11	40	216
50 ISL	10.71	10.70	33.394	25.578	241.0	0.149	4.30	68.4	14.0	1.34	15.7	0.07	0.14	0.10	50	
51	10.65	10.64	33.406	25.598	239.1	0.151	4.28	68.0	14.3	1.35	15.9	0.07	0.14	0.10	51	215
60	9.99	9.98	33.528	25.806	219.4	0.172	3.89	61.0	17.9	1.56	19.3	0.05	0.06	0.11	60	214
71	9.75	9.74	33.728	26.002	201.0	0.195	3.28	51.2	23.7	1.82	22.7	0.09	0.05	0.14	71	213
75 ISL	9.76	9.75	33.788	26.048	196.8	0.203	3.04	47.5	25.2	1.90	23.6	0.11	0.05	0.19	75	
85	9.78	9.77	33.885	26.120	190.1	0.222	2.54	39.7	27.8	2.05	25.0	0.15	0.07	0.29	85	212
100	9.76	9.75	33.913	26.146	188.0	0.251	2.41	37.7	28.5	2.11	25.7	0.05	0.07	0.26	101	211
120	9.40	9.39	33.972	26.251	178.3	0.287	2.25	34.9	31.2	2.17	26.8	0.06	0.03	0.22	121	210

RV NEW HORIZON

CALCOFI CRUISE 0604

STATION 76.7 60.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD	AMT	TYPE
34 43.4 N	121 33.4 W	16/04/06	1801	UTC	919 m	210	09 kn	280 04 06	1	1016.6 mb	14.8 c	14.1 c	12m		4/8	SC
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	13.90	13.90	32.988	24.654	327.7	0.000	6.27	106.5	3.4	0.31	0.3	0.02	1.08	0.24	0	
2 A	13.90	13.90	32.988	24.654	327.8	0.007	6.27	106.5	3.4	0.31	0.3	0.02	1.08	0.24	2	223
7	13.88	13.88	32.995	24.664	327.0	0.023									7	222
7 A	13.89	13.89	32.987	24.655	327.8	0.023	6.26	106.3	3.3	0.31	0.3	0.02	1.19	0.24	7	221
10 ISL	13.76	13.76	33.057	24.736	320.2	0.033	6.31	106.9	2.9	0.33	0.5	0.03	1.61	0.35	10	
16	13.32	13.32	33.260	24.982	296.9	0.051									16	220
17 A	13.32	13.32	33.256	24.979	297.2	0.054	6.42	107.9	2.2	0.37	1.7	0.08	2.26	0.62	17	219
20 ISL	13.11	13.11	33.305	25.059	289.7	0.063	6.26	104.8	2.6	0.47	2.7	0.11	1.89	0.62	20	
23 A	12.91	12.91	33.342	25.128	283.2	0.072	6.09	101.5	3.2	0.57	3.6	0.14	1.43	0.61	23	218
30 A	12.65	12.65	33.379	25.207	275.8	0.091	5.91	98.0	4.5	0.68	4.7	0.18	1.02	0.56	30	217
42	11.72	11.71	33.546	25.514	246.9	0.122	5.35	87.1	10.5	1.05	9.0	0.25	0.36	0.37	42	216
50 ISL	11.18	11.17	33.625	25.674	231.9	0.142	4.95	79.7	14.1	1.26	12.2	0.25	0.35	0.28	50	
52 A	11.06	11.05	33.641	25.708	228.6	0.146	4.83	77.5	15.0	1.31	13.1	0.25	0.35	0.27	52	215
60	10.64	10.63	33.690	25.821	218.1	0.164	4.12	65.6	18.6	1.54	16.8	0.29	0.26	0.35	60	214
69	10.44	10.43	33.719	25.878	212.8	0.183	3.87	61.3	20.1	1.63	18.4	0.30	0.26	0.29	69	213
75 ISL	10.12	10.11	33.751	25.958	205.3	0.196	3.48	54.8	22.3	1.76	20.8	0.23	0.19	0.26	75	
85	9.56	9.55	33.812	26.099	192.0	0.216	2.83	44.0	26.1	1.96	24.8	0.09	0.06	0.23	85	212
99	9.20	9.19	33.875	26.207	182.0	0.242	2.60	40.1	28.7	2.05	26.5	0.03	0.03	0.20	100	211
100 ISL	9.18	9.17	33.878	26.213	181.5	0.244	2.59	40.0	28.8	2.05	26.6	0.03	0.03	0.20	101	
120	8.99	8.98	33.933	26.287	174.9	0.280	2.47	38.0	30.8	2.11	27.4	0.05	0.02	0.21	121	210
125 ISL	8.96	8.95	33.955	26.309	172.9	0.288	2.40	36.9	31.5	2.13	27.7	0.05	0.02	0.20	126	
141	8.86	8.84	34.022	26.377	166.7	0.315	2.16	33.1	34.0	2.21	28.7	0.06	0.01	0.16	142	209
150 ISL	8.76	8.74	34.044	26.410	163.7	0.330	2.07	31.7	35.3	2.25	29.2	0.06	0.01	0.14	151	
170	8.53	8.51	34.079	26.474	158.0	0.362	1.91	29.1	38.2	2.32	30.3	0.06	0.01	0.12	171	208
198	8.32	8.30	34.124	26.541	152.1	0.406	1.66	25.2	41.7	2.43	31.5	0.05	0.01	0.10	199	207
200 ISL	8.31	8.29	34.130	26.547	151.5	0.409	1.62	24.5	42.1	2.44	31.6	0.05			201	
229	8.20	8.18	34.212	26.629	144.3	0.452	1.12	16.9	47.3	2.65	33.0	0.03			230	206
250 ISL	8.01	7.98	34.230	26.672	140.5	0.482	0.99	14.9	50.1	2.72	33.8	0.02			252	
268	7.84	7.81	34.232	26.698	138.2	0.507	0.95	14.2	52.1	2.75	34.3	0.01			270	205
300 ISL	7.65	7.62	34.238	26.731	135.6	0.551	0.86	12.8	54.7	2.80	34.9	0.01			302	
318	7.54	7.51	34.240	26.749	134.2	0.575	0.82	12.2	56.2	2.83	35.3	0.01			320	204
378	6.87	6.83	34.254	26.854	124.7	0.653	0.61	8.9	65.4	2.97	37.6	0.01			381	203
400 ISL	6.59	6.55	34.234	26.876	122.7	0.680	0.61	8.9	68.2	3.00	38.4	0.01			403	
436	6.19	6.15	34.207	26.907	119.9	0.723	0.61	8.8	72.4	3.03	39.6	0.00			439	202
500 ISL	5.94	5.90	34.276	26.994	112.4	0.798	0.39	5.6	79.6	3.14	40.7	0.00			504	
512	5.89	5.85	34.289	27.010	110.9	0.811	0.35	5.0	81.0	3.16	40.9	0.00			516	201

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

RV NEW HORIZON

CALCOFI CRUISE 0604

STATION 76.7 70.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD	AMT	TYPE
34 23.6 N	122 14.9 W	16/04/06	1201	UTC	4031 m	260	07 kn			1015.4 mb	14.5 c	12.9 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	14.53	14.53	32.944	24.489	343.5	0.000	5.90	101.5	1.8	0.33	0.1	0.00	0.18	0.01	0	
2	14.53	14.53	32.944	24.489	343.5	0.007	5.90	101.5	1.8	0.33	0.1	0.00	0.18	0.01	2	220
10 ISL	14.53	14.53	32.943	24.488	343.8	0.034	5.90	101.5	1.8	0.32	0.0	0.00	0.17	0.02	10	
16	14.53	14.53	32.942	24.487	344.0	0.055	5.91	101.6	1.8	0.32	0.0	0.00	0.16	0.02	16	219
20 ISL	14.51	14.51	32.944	24.493	343.6	0.069	5.91	101.6	1.8	0.32	0.0	0.00	0.17	0.01	20	
30 ISL	14.42	14.42	32.949	24.516	341.7	0.103	5.92	101.6	1.7	0.32	0.0	0.00	0.21	0.00	30	
31	14.41	14.41	32.950	24.519	341.4	0.106	5.92	101.5	1.7	0.32	0.0	0.00	0.21	0.00	31	218
45	14.22	14.21	32.951	24.560	337.9	0.154	5.95	101.7	1.7	0.32	0.0	0.00	0.26	0.05	45	217
50 ISL	13.99	13.98	32.911	24.577	336.4	0.171	6.00	102.0	1.7	0.33	0.0	0.00	0.41	0.06	50	
56	13.65	13.64	32.866	24.612	333.2	0.191	6.03	101.8	1.7	0.34	0.0	0.00	0.61	0.09	56	216
65	13.07	13.06	32.866	24.729	322.3	0.220	5.93	98.9	1.9	0.42	0.4	0.07	0.76	0.24	65	215
75	12.93	12.92	32.956	24.826	313.3	0.252	5.77	96.0	3.1	0.49	1.5	0.29	0.39	0.09	75	214
86	12.64	12.63	33.068	24.970	299.9	0.286	5.47	90.5	4.6	0.64	4.3	0.19	0.19	0.09	86	213
95	12.03	12.02	33.182	25.175	280.5	0.312	5.12	83.7	6.8	0.85	7.7	0.03	0.13	0.09	95	212
100 ISL	11.66	11.65	33.209	25.264	272.1	0.326	4.94	80.1	8.2	0.97	9.6	0.03	0.11	0.08	100	
111	10.94	10.93	33.260	25.434	256.0	0.355	4.57	73.0	11.1	1.21	13.3	0.02	0.07	0.06	112	211
125	10.41	10.40	33.403	25.638	236.8	0.389	4.21	66.5	14.1	1.39	16.3	0.01	0.03	0.04	126	210
143	9.75	9.73	33.603	25.906	211.7	0.430	3.70	57.7	19.1	1.63	20.2	0.01	0.01	0.03	144	209
150 ISL	9.55	9.53	33.649	25.975	205.2	0.444	3.73	57.9	20.1	1.64	20.5	0.01	0.01	0.03	151	
169	9.09	9.07	33.738	26.119	191.8	0.482	3.82	58.8	22.0	1.65	21.3	0.00	0.00	0.02	170	208
199	8.52	8.50	33.881	26.320	173.1	0.537	3.65	55.5	27.4	1.75	23.6	0.01	0.00	0.02	200	207
200 ISL	8.51	8.49	33.885	26.325	172.6	0.539	3.62	55.0	27.7	1.76	23.7	0.01			201	
229	8.12	8.10	33.981	26.459	160.3	0.587	2.80	42.2	35.2	2.06	27.8	0.00			230	206
250 ISL	7.83	7.81	34.014	26.528	154.0	0.620	2.42	36.2	39.8	2.21	29.9	0.00			251	
269	7.59	7.56	34.030	26.576	149.7	0.649	2.17	32.3	43.6	2.32	31.4	0.00			271	205
300 ISL	7.27	7.24	34.059	26.644	143.5	0.694	1.79	26.5	48.9	2.48	33.4	0.00			302	
318	7.09	7.06	34.073	26.681	140.2	0.720	1.60	23.6	51.9	2.57	34.3	0.00			320	204
378	6.39	6.36	34.110	26.804	129.0	0.800	1.06	15.4	63.5	2.83	37.4	0.00			380	203
400 ISL	6.25	6.21	34.133	26.840	125.7	0.828	0.90	13.0	66.6	2.90	38.1	0.00			403	
439	6.06	6.02	34.174	26.897	120.7	0.876	0.67	9.6	71.6	3.00	39.1	0.00			442	202
500 ISL	5.61	5.57	34.214	26.985	112.8	0.948	0.45	6.4	81.2	3.12	40.7	0.00			503	
513	5.52	5.48	34.223	27.003	111.1	0.962	0.40	5.7	83.3	3.15	41.0	0.00			517	201

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD AMT	TYPE			
34 3.4 N	122 56.3 W	16/04/06	0556 UTC	4227 m	230 10 kn			1017.2 mb	15.5 c	13.7 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	15.05	15.05	33.072	24.476	344.7	0.000	5.81	101.0	1.9	0.31	0.1	0.00	0.10	0.01	0	
2	15.05	15.05	33.072	24.476	344.8	0.007	5.81	101.0	1.9	0.31	0.1	0.00	0.10	0.01	2	222
10 ISL	15.05	15.05	33.070	24.475	345.1	0.034	5.80	100.9	1.9	0.31	0.1	0.00	0.09	0.01	10	
15	15.05	15.05	33.069	24.474	345.3	0.052	5.80	100.9	1.9	0.31	0.1	0.00	0.08	0.01	15	220
16	15.05	15.05	33.070	24.475	345.3	0.055									16	221
20 ISL	15.03	15.03	33.066	24.476	345.3	0.069	5.80	100.8	1.9	0.31	0.1	0.00	0.08	0.01	20	
30	14.97	14.97	33.068	24.491	344.1	0.103	5.81	100.9	1.8	0.31	0.1	0.00	0.09	0.02	30	219
45	14.94	14.93	33.107	24.528	341.1	0.155	5.82	101.0	1.8	0.31	0.0	0.00	0.13	0.03	45	218
50 ISL	14.91	14.90	33.107	24.535	340.6	0.172	5.82	100.9	1.8	0.31	0.0	0.00	0.16	0.04	50	
60	14.84	14.83	33.109	24.552	339.3	0.206	5.82	100.8	1.8	0.31	0.0	0.00	0.21	0.07	60	217
75	14.20	14.19	32.990	24.596	335.4	0.257	5.92	101.1	1.8	0.33	0.0	0.00	0.27	0.09	75	216
85	13.87	13.86	32.967	24.646	330.8	0.290	5.94	100.8	1.8	0.34	0.1	0.01	0.43	0.30	85	215
90	14.03	14.02	33.097	24.714	324.6	0.306	5.76	98.1	2.4	0.38	0.6	0.06	0.53	0.41	90	214
95	13.91	13.90	33.158	24.786	317.8	0.322	5.66	96.2	2.6	0.42	1.1	0.08	0.55	0.31	95	213
100 ISL	13.45	13.44	33.226	24.932	304.0	0.338	5.52	93.0	3.2	0.50	2.3	0.06	0.42	0.32	100	
104	12.98	12.97	33.275	25.064	291.5	0.350	5.39	89.9	3.9	0.58	3.6	0.04	0.28	0.32	104	212
114	11.87	11.86	33.339	25.327	266.5	0.378	5.05	82.3	6.6	0.82	7.9	0.02	0.12	0.15	114	211
125	11.34	11.32	33.374	25.452	254.8	0.406	4.93	79.5	8.2	0.92	9.7	0.01	0.08	0.08	126	210
140	10.70	10.68	33.451	25.626	238.4	0.443	4.80	76.4	10.4	1.05	12.1	0.01	0.04	0.04	141	209
150 ISL	10.24	10.22	33.516	25.756	226.2	0.467	4.66	73.4	12.5	1.17	14.1	0.01	0.02	0.03	151	
164	9.65	9.63	33.613	25.931	209.7	0.497	4.43	68.9	15.9	1.34	17.0	0.00	0.01	0.02	165	208
195	8.90	8.88	33.796	26.195	185.0	0.558	3.93	60.2	23.4	1.63	21.6	0.00	0.00	0.01	196	207
200 ISL	8.82	8.80	33.821	26.227	182.1	0.567	3.91	59.8	24.2	1.65	21.9	0.00			201	
229	8.40	8.38	33.935	26.381	167.8	0.618	3.76	57.0	29.0	1.72	23.5	0.00			230	206
250 ISL	8.01	7.98	33.971	26.468	159.8	0.653	3.40	51.1	34.3	1.88	25.9	0.00			251	
269	7.67	7.64	33.987	26.531	154.0	0.682	3.02	45.0	39.3	2.04	28.2	0.00			271	205
300 ISL	7.27	7.24	34.013	26.608	146.9	0.729	2.47	36.5	45.8	2.27	31.2	0.00			302	
319	7.05	7.02	34.023	26.647	143.4	0.757	2.18	32.1	49.4	2.39	32.7	0.00			321	204
378	6.23	6.20	34.025	26.757	133.2	0.838	1.70	24.5	60.3	2.64	36.2	0.00			380	203
400 ISL	6.04	6.01	34.037	26.791	130.1	0.867	1.50	21.5	63.9	2.73	37.3	0.00			403	
438	5.76	5.72	34.066	26.849	124.9	0.916	1.16	16.5	70.1	2.87	39.0	0.00			441	202
500 ISL	5.27	5.23	34.123	26.953	115.3	0.990	0.75	10.6	82.3	3.05	41.1	0.00			503	
512	5.17	5.13	34.134	26.974	113.4	1.004	0.67	9.4	84.7	3.08	41.5	0.00			515	201

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD AMT	TYPE			
33 43.2 N	123 38.2 W	16/04/06	0001 UTC	4188 m	280 06 kn	330 03 05	1	1017.3 mb	15.0 c	13.6 c	38m	4/8	CC			
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	15.22	15.22	33.046	24.419	350.1	0.000	5.80	101.2	2.1	0.32	0.1	0.00	0.10	0.02	0	
2	15.22	15.22	33.046	24.419	350.2	0.007	5.80	101.2	2.1	0.32	0.1	0.00	0.10	0.02	2	221
10 ISL	15.10	15.10	33.043	24.443	348.1	0.035	5.80	101.0	2.1	0.32	0.1	0.00	0.10	0.02	10	
15	15.01	15.01	33.040	24.460	346.6	0.052	5.80	100.8	2.1	0.32	0.1	0.00	0.10	0.02	15	220
20 ISL	15.00	15.00	33.041	24.464	346.5	0.070	5.81	100.9	2.1	0.32	0.1	0.00	0.10	0.02	20	
30	14.98	14.98	33.039	24.467	346.5	0.104	5.82	101.0	2.1	0.32	0.1	0.00	0.10	0.02	30	219
45	14.93	14.92	33.075	24.505	343.2	0.156	5.82	101.0	2.2	0.32	0.1	0.00	0.13	0.03	45	218
50 ISL	14.89	14.88	33.074	24.514	342.6	0.173	5.82	100.9	2.2	0.32	0.1	0.00	0.15	0.04	50	
60	14.83	14.82	33.074	24.527	341.6	0.207	5.83	100.9	2.1	0.32	0.1	0.00	0.19	0.05	60	217
75	14.86	14.85	33.115	24.552	339.6	0.258	5.82	100.8	2.0	0.31	0.1	0.00	0.25	0.08	75	216
85	14.85	14.84	33.123	24.561	339.1	0.292	5.80	100.5	2.1	0.31	0.2	0.00	0.27	0.11	85	215
95	14.81	14.80	33.168	24.605	335.2	0.326	5.78	100.1	2.0	0.32	0.1	0.00	0.31	0.33	95	214
100	14.55	14.54	33.126	24.628	333.1	0.343	5.78	99.5	2.1	0.32	0.1	0.01	0.34	0.25	100	213
104	14.22	14.20	33.086	24.666	329.5	0.356	5.78	98.8	2.2	0.35	0.2	0.06	0.31	0.23	104	212
115	13.56	13.54	33.182	24.876	309.7	0.391	5.57	94.0	3.0	0.47	1.9	0.12	0.22	0.28	115	211
124	13.10	13.08	33.333	25.086	290.0	0.418	5.37	89.8	4.0	0.55	3.6	0.03	0.15	0.19	125	210
125 ISL	13.09	13.07	33.341	25.094	289.2	0.421	5.36	89.7	4.1	0.56	3.7	0.03	0.15	0.19	126	
139	12.84	12.82	33.380	25.174	281.9	0.461	5.29	88.0	4.6	0.60	4.4	0.02	0.12	0.15	140	209
150 ISL	11.88	11.86	33.359	25.341	266.0	0.491	5.07	82.7	4.5	0.60	4.4	0.02	0.08	0.10	151	
164	10.47	10.45	33.368	25.601	241.2	0.527	4.68	74.0	4.4	0.60	4.4	0.02	0.04	0.05	165	208
194	8.99	8.97	33.696	26.102	193.8	0.592	3.72	57.1	11.1	1.15	13.2	0.01	0.00	0.01	195	207
200 ISL	8.87	8.85	33.747	26.161	188.3	0.603	3.56	54.5	14.5	1.31	15.7	0.01			201	
229	8.57	8.55	33.926	26.348	171.0	0.656	2.96	45.0	30.8	1.97	26.6	0.00			230	206
250 ISL	8.33	8.30	33.990	26.435	163.0	0.691	2.72	41.2	35.2	2.05	27.9	0.00			251	
269	8.11	8.08	34.018	26.491	158.0	0.721	2.56	38.6	37.2	2.13	29.1	0.00			270	205
300 ISL	7.68	7.65	34.039	26.570	150.8	0.769	2.25	33.6	43.0	2.29	31.3	0.00			302	
318	7.42	7.39	34.042	26.610	147.2	0.796	2.07	30.7	46.5	2.38	32.5	0.00			320	204
378	6.61	6.58	34.057	26.733	135.8	0.881	1.58	23.0	56.9	2.63	35.8	0.00			380	203
400 ISL	6.36	6.32	34.063	26.771	132.4	0.910	1.43	20.7	60.7	2.71	36.8	0.00			402	
437	6.00	5.96	34.079	26.830	127.0	0.958										

RV NEW HORIZON

CALCOFI CRUISE 0604

STATION 76.7 100.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD AMT	TYPE			
33 23.4 N	124 19.3 W	15/04/06	1756 UTC	4553 m	320 12 kn	330 04 05	2	1018.3 mb	15.1 c	13.8 c	33m	8/8	SC			
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	14.99	14.99	32.992	24.427	349.3	0.000	5.85	101.6	2.1	0.33	0.4	0.00	0.10	0.03	0	
2 A	14.99	14.99	32.992	24.427	349.4	0.007	5.85	101.6	2.1	0.33	0.4	0.00	0.10	0.03	2	223
10	14.96	14.96	32.993	24.435	348.9	0.035	5.82	101.0	2.1	0.32	0.4	0.00	0.10	0.02	10	222
19	14.95	14.95	32.991	24.436	349.1	0.066									19	221
19 A	14.95	14.95	32.992	24.436	349.0	0.066	5.84	101.3	2.2	0.32	0.4	0.00	0.10	0.02	19	220
20 ISL	14.95	14.95	32.993	24.437	349.0	0.070	5.84	101.3	2.2	0.32	0.4	0.00	0.10	0.02	20	
30 ISL	14.93	14.93	33.002	24.449	348.2	0.105	5.85	101.4	2.1	0.32	0.4	0.00	0.11	0.02	30	
33	14.93	14.93	33.005	24.451	348.0	0.115	5.85	101.4	2.1	0.32	0.4	0.00	0.11	0.02	33	219
47	14.81	14.80	33.053	24.514	342.4	0.163									47	218
47 A	14.81	14.80	33.050	24.512	342.6	0.163	5.84	101.0	2.1	0.32	0.4	0.00	0.14	0.04	47	217
50 ISL	14.81	14.80	33.059	24.519	342.0	0.174	5.84	101.1	2.1	0.32	0.4	0.00	0.15	0.04	50	
58	14.80	14.79	33.077	24.535	340.7	0.201	5.84	101.0	2.0	0.31	0.3	0.00	0.17	0.05	58	216
68 A	14.78	14.77	33.090	24.550	339.6	0.235	5.83	100.8	2.0	0.31	0.4	0.00	0.23	0.10	68	215
75 ISL	14.51	14.50	33.055	24.581	336.9	0.259	5.84	100.4	2.0	0.32	0.3	0.00	0.30	0.23	75	
80	14.23	14.22	33.016	24.610	334.2	0.275	5.85	100.0	2.0	0.33	0.3	0.00	0.34	0.30	80	214
90 A	13.57	13.56	32.923	24.674	328.3	0.309	5.95	100.3	2.0	0.37	0.3	0.03	0.36	0.20	90	213
100 ISL	13.35	13.34	33.044	24.812	315.4	0.341	5.71	99.9	2.7	0.46	1.6	0.19	0.28	0.20	100	
102	13.32	13.31	33.079	24.845	312.3	0.347	5.64	94.6	2.9	0.48	1.9	0.21	0.26	0.20	102	212
113	12.98	12.96	33.192	25.000	297.8	0.381	5.43	90.5	3.7	0.56	3.4	0.09	0.20	0.19	113	211
124 A	11.91	11.89	33.305	25.293	270.0	0.412	5.13	83.7	6.1	0.77	7.1	0.02	0.10	0.12	125	210
125 ISL	11.83	11.81	33.310	25.312	268.2	0.415	5.10	83.1	6.3	0.79	7.4	0.02	0.09	0.11	126	
139	10.91	10.89	33.365	25.522	248.3	0.451	4.77	76.2	9.6	1.04	11.7	0.01	0.04	0.06	140	209
150 ISL	10.37	10.35	33.429	25.666	234.7	0.477	4.58	72.3	12.1	1.19	14.3	0.01	0.02	0.04	151	
164	9.85	9.83	33.519	25.824	219.9	0.509	4.42	69.0	14.9	1.33	16.7	0.01	0.00	0.03	165	208
195	9.15	9.13	33.711	26.089	195.2	0.573	4.28	65.9	19.4	1.47	19.5	0.00	0.00	0.02	196	207
200 ISL	9.06	9.04	33.747	26.131	191.2	0.583	4.08	62.7	21.0	1.55	20.6	0.00			201	
228	8.62	8.60	33.924	26.339	171.9	0.634	2.90	44.2	30.7	1.99	27.0	0.00			229	206
250 ISL	8.29	8.26	33.997	26.447	161.9	0.671	2.55	38.6	35.6	2.13	29.2	0.00			251	
268	8.02	7.99	34.029	26.513	155.9	0.699	2.43	36.5	39.0	2.19	30.2	0.00			269	205
300 ISL	7.46	7.43	34.044	26.606	147.3	0.748	2.16	32.1	45.6	2.34	32.4	0.00			302	
318	7.16	7.13	34.043	26.647	143.5	0.774	2.02	29.8	49.2	2.42	33.6	0.00			320	204
378	6.53	6.50	34.087	26.768	132.5	0.857	1.38	20.1	59.7	2.71	37.0	0.00			380	203
400 ISL	6.30	6.26	34.095	26.804	129.2	0.886	1.22	17.6	63.5	2.79	38.0	0.00			402	
437	5.96	5.92	34.111	26.860	124.1	0.932	1.00	14.3	69.6	2.90	39.4	0.00			440	202
500 ISL	5.62	5.58	34.168	26.948	116.3	1.008	0.64	9.1	79.1	3.05	41.2	0.00			503	
512	5.55	5.51	34.179	26.965	114.8	1.022	0.57	8.1	80.9	3.08	41.5	0.00			515	201

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

RV NEW HORIZON

CALCOFI CRUISE 0604

STATION 80.0 50.5

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD AMT	TYPE			
34 27.5 N	120 29.2 W	13/04/06	2340 UTC	27 m	310 08 kn	310 02 05	1	1012.6 mb	15.5 c	14.9 c		3/8	CC			
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	14.58	14.58	33.325	24.772	316.5	0.000	6.63	114.4	3.1	0.35	1.2	0.06	3.44	0.17	0	
2	14.58	14.58	33.325	24.772	316.5	0.006	6.63	114.4	3.1	0.35	1.2	0.06	3.44	0.17	2	206
5	14.18	14.18	33.334	24.863	307.9	0.016									5	205
5	14.32	14.32	33.337	24.836	310.5	0.016	6.70	115.0	3.4	0.36	1.3	0.07	4.08	0.02	5	204
10 ISL	13.60	13.60	33.405	25.038	291.4	0.031	7.03	118.9	4.3	0.33	1.4	0.09	8.99	0.26	10	
11	13.48	13.48	33.420	25.074	288.0	0.034	7.08	119.5	4.5	0.32	1.4	0.09	9.87 A	0.33 A	11	203
15	13.45	13.45	33.439	25.095	286.2	0.045	7.02	118.4	5.0	0.35	1.6	0.11	8.98	0.35	15	202
19	13.22	13.22	33.458	25.156	280.5	0.056	6.72	112.8	5.8	0.47	2.6	0.14	6.46 A	0.21 A	19	201

A) SECOND FLUOROMETER READING RECALCULATED BECAUSE ACID RATIO > TAU OF PURE CHL-A. CHLOROPHYLL AND PHAEOPIGMENT CALCULATED WITH ACID RATIO FROM ADJACENT SAMPLES.

RV NEW HORIZON

CALCOFI CRUISE 0604

STATION 80.0 51.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	BOTTOM	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD AMT	TYPE			
34 26.7 N	120 31.4 W	14/04/06	0035 UTC	79 m	310 08 kn	310 02 06	1	1012.2 mb	15.5 c	14.7 c	08m	4/8	CC			
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	14.05	14.05	33.311	24.872	306.9	0.000	6.65	113.5	3.1	0.33	1.0	0.05	2.56	0.43	0	
1	14.05	14.05	33.311	24.872	306.9	0.003	6.65	113.5	3.1	0.33	1.0	0.05	2.56	0.43	1	214
1	14.07	14.07	33.309	24.867	307.5	0.003									1	215
5	13.96	13.96	33.309	24.890	305.4	0.015									5	213
6	13.84	13.84	33.309	24.914	303.1	0.018	6.69	113.7	3.0	0.33	1.0	0.05	2.63	0.46	6	212
10	13.45	13.45	33.320	25.003	294.8	0.030	6.69	112.8	3.1	0.35	1.1	0.06	3.46	0.78	10	210
10	13.29	13.29	33.316	25.032	292.0	0.030									10	211
15	12.81	12.81	33.393	25.187	277.4	0.045									15	209
15	12.79	12.79	33.391	25.189	277.2	0.045	6.35	105.6	4.6	0.52	3.6	0.11	3.86	0.69	15	208
20 ISL	12.45	12.45	33.449	25.300	266.7	0.058	6.04	99.8	7.2	0.71	5.8	0.15	2.97	0.67	20	
21	12.39	12.39	33.459	25.319	264.9	0.061	5.97	98.5	7.8	0.75	6.3	0.16	2.72	0.66	21	207
30	11.52	11.52	33.548	25.552	243.0	0.084	4.92	79.7	13.0	1.18	11.4	0.21	1.11	0.44	30	205
31	11.48	11.48	33.549	25.560	242.3	0.086									31	206
41	11.05	11.05	33.573	25.657	233.3	0.110	4.49	72.0	15.1	1.34	14.2	0.24	0.67	0.30	41	204
50	10.44	10.43	33.669	25.839	216.1	0.130	3.70	58.6	19.8	1.65	18.8					

RV NEW HORIZON

CALCOFI CRUISE 0604

STATION 80.0 55.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD	AMT	TYPE
34 19.0 N	120 48.1 W	14/04/06	0401	UTC	782 m	350	06 kn			1010.7 mb	14.8 c	14.0 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	14.05	14.05	33.283	24.851	309.0	0.000	6.26	106.8	2.5	0.31	0.6	0.03	1.01	0.10	0	
2	14.05	14.05	33.283	24.851	309.0	0.006	6.26	106.8	2.5	0.31	0.6	0.03	1.01	0.10	2	222
10	14.15	14.15	33.279	24.827	311.5	0.031									10	221
10	14.15	14.15	33.279	24.827	311.5	0.031	6.24	106.7	2.4	0.30	0.5	0.03	0.89	0.06	10	220
20	13.53	13.53	33.294	24.967	298.5	0.062	6.25	105.5	3.1	0.39	1.8	0.08	1.19	0.24	20	219
30	13.38	13.38	33.303	25.004	295.2	0.091	6.16	103.7	3.5	0.43	2.3	0.12	1.17	0.30	30	218
40	12.41	12.40	33.375	25.251	271.9	0.120									40	217
40	12.40	12.39	33.376	25.254	271.7	0.120	5.45	89.9	7.1	0.80	7.3	0.26	1.08	0.27	40	216
50 ISL	11.26	11.25	33.493	25.557	243.0	0.145	4.50	72.5	13.2	1.26	13.9	0.22	0.44	0.19	50	
51	11.16	11.15	33.508	25.587	240.2	0.148	4.41	70.9	13.8	1.30	14.5	0.21	0.37	0.19	51	215
60	10.81	10.80	33.669	25.775	222.5	0.169	4.03	64.4	17.6	1.51	16.1	0.28	0.16	0.25	60	214
71	10.53	10.52	33.734	25.875	213.2	0.192	3.64	57.8	20.0	1.65	18.3	0.28	0.11	0.25	71	213
75 ISL	10.26	10.25	33.757	25.939	207.1	0.201	3.42	54.0	21.6	1.73	19.9	0.25	0.09	0.24	75	
85	9.61	9.60	33.826	26.102	191.8	0.221	2.85	44.4	26.0	1.94	24.1	0.16	0.05	0.20	85	212
100	9.40	9.39	33.977	26.255	177.6	0.249	2.23	34.6	30.9	2.18	26.8	0.06	0.02	0.17	101	211
120	9.39	9.38	34.037	26.304	173.4	0.284	1.94	30.1	32.6	2.27	27.7	0.12	0.05	0.33	121	210
125 ISL	9.38	9.37	34.044	26.311	172.8	0.292	1.93	29.9	32.8	2.27	27.8	0.12	0.05	0.31	126	
139	9.33	9.31	34.061	26.333	171.0	0.316	1.91	29.6	33.2	2.28	28.0	0.09	0.04	0.24	140	209
150 ISL	9.27	9.25	34.082	26.359	168.7	0.335	1.85	28.6	34.1	2.30	28.3	0.07	0.04	0.23	151	
169	9.15	9.13	34.121	26.409	164.3	0.367	1.73	26.7	36.0	2.36	28.9	0.05	0.03	0.22	170	208
199	8.99	8.97	34.170	26.474	158.8	0.415	1.54	23.7	38.5	2.44	29.9	0.03	0.03	0.16	200	207
200 ISL	8.98	8.96	34.171	26.476	158.6	0.417	1.53	23.5	38.6	2.44	29.9	0.03			201	
229	8.76	8.74	34.184	26.521	154.8	0.462	1.34	20.5	41.8	2.54	30.8	0.02			230	206
250 ISL	8.59	8.56	34.201	26.561	151.3	0.494	1.26	19.2	43.4	2.58	31.4	0.01			252	
269	8.44	8.41	34.215	26.596	148.3	0.523	1.20	18.2	44.6	2.60	32.0	0.01			271	205
300 ISL	8.23	8.20	34.220	26.632	145.4	0.568	1.11	16.8	47.0	2.65	32.8	0.01			302	
318	8.10	8.07	34.221	26.652	143.7	0.594	1.06	16.0	48.6	2.68	33.2	0.01			320	204
378	7.55	7.51	34.238	26.747	135.4	0.678	0.83	12.4	55.7	2.82	35.0	0.01			381	203
400 ISL	7.29	7.25	34.230	26.777	132.7	0.708	0.79	11.7	58.3	2.86	35.8	0.01			403	
437	6.87	6.83	34.221	26.829	128.0	0.756	0.73	10.7	62.9	2.92	37.2	0.01			440	202
500 ISL	6.40	6.35	34.261	26.923	119.6	0.834	0.49	7.1	71.3	3.05	39.0	0.00			504	
514	6.30	6.25	34.270	26.944	117.7	0.850	0.44	6.4	73.2	3.08	39.4	0.00			518	201

RV NEW HORIZON

CALCOFI CRUISE 0604

STATION 80.0 60.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD	AMT	TYPE
34 9.3 N	121 9.3 W	14/04/06	0824	UTC	2225 m	240	05 kn			1010.3 mb	13.5 c	12.9 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	14.46	14.46	33.225	24.720	321.4	0.000	6.18	106.3	3.2	0.31	0.4	0.02	0.50	0.06	0	
2	14.46	14.46	33.225	24.720	321.5	0.006	6.18	106.3	3.2	0.31	0.4	0.02	0.50	0.06	2	220
10 ISL	14.36	14.36	33.227	24.743	319.5	0.032	6.23	106.9	3.2	0.30	0.3	0.02	0.60	0.04	10	
11	14.34	14.34	33.227	24.747	319.1	0.035	6.24	107.1	3.2	0.30	0.3	0.02	0.62	0.04	11	219
20	14.12	14.12	33.227	24.794	315.0	0.064	6.26	106.9	3.2	0.31	0.4	0.02	0.69	0.12	20	218
29	13.53	13.53	33.257	24.938	301.5	0.092	6.20	104.6	2.9	0.36	1.2	0.06	1.00	0.24	29	217
30 ISL	13.48	13.48	33.260	24.951	300.3	0.095	6.18	104.2	2.9	0.37	1.3	0.07	1.05	0.23	30	
40	13.02	13.01	33.290	25.066	289.6	0.124	5.93	99.0	4.0	0.51	3.1	0.22	1.38	0.14	40	216
50	12.42	12.41	33.344	25.225	274.7	0.152	5.48	90.4	6.1	0.74	5.8	0.52	1.04	0.28	50	215
59	11.81	11.80	33.397	25.382	259.9	0.176	4.92	80.2	9.6	1.01	10.3	0.28	0.35	0.17	59	214
71	11.11	11.10	33.507	25.595	239.8	0.206	4.40	70.7	13.6	1.26	14.2	0.24	0.16	0.12	71	213
75 ISL	10.82	10.81	33.550	25.680	231.8	0.216	4.07	65.0	15.9	1.41	16.4	0.16	0.13	0.12	75	
83	10.29	10.28	33.631	25.836	217.1	0.234	3.44	54.3	20.4	1.69	20.5	0.01	0.10	0.14	83	212
100	9.95	9.94	33.709	25.955	206.2	0.270	3.10	48.6	23.1	1.84	22.5	0.01	0.05	0.13	101	211
120	9.33	9.32	33.862	26.177	185.4	0.309	2.58	39.9	28.0	2.04	25.8	0.01	0.02	0.10	121	210
125 ISL	9.24	9.23	33.889	26.212	182.1	0.318	2.51	38.8	28.8	2.07	26.3	0.01	0.01	0.11	126	
139	9.06	9.04	33.950	26.289	175.1	0.343	2.38	36.6	30.7	2.12	27.2	0.01	0.00	0.13	140	209
150 ISL	8.95	8.93	33.987	26.336	170.8	0.362	2.26	34.7	32.0	2.16	27.9	0.01	0.00	0.12	151	
169	8.76	8.74	34.034	26.403	164.8	0.394	2.08	31.8	34.5	2.23	29.0	0.02	0.01	0.09	170	208
199	8.30	8.28	34.083	26.512	154.8	0.442	1.87	28.3	39.8	2.35	30.8	0.03	0.00	0.06	200	207
200 ISL	8.29	8.27	34.084	26.514	154.6	0.443	1.86	28.2	39.9	2.35	30.8	0.03			201	
228	8.12	8.10	34.122	26.570	149.8	0.486	1.62	24.4	43.3	2.46	31.8	0.03			229	206
250 ISL	8.07	8.04	34.175	26.620	145.5	0.519	1.30	19.6	46.4	2.58	32.5	0.02			252	
269	8.00	7.97	34.217	26.663	141.7	0.546	1.04	15.7	49.3	2.69	33.2	0.01			271	205
300 ISL	7.64	7.61	34.233	26.729	135.8	0.589	0.86	12.8	54.1	2.79	34.5	0.00			302	
317	7.41	7.38	34.233	26.762	132.8	0.612	0.80	11.9	56.8	2.83	35.2	0.00			319	204
378	6.72	6.69	34.255	26.875	122.6	0.690	0.56	8.2	66.5	3.00	37.6	0.00			380	203
400 ISL	6.55	6.51	34.260	26.902	120.2	0.716	0.51	7.4	69.1	3.03	38.2	0.00			403	
439	6.29	6.25	34.269	26.943	116.7	0.762	0.44	6.4	73.4	3.08	39.1	0.00			442	202
500 ISL	5.88	5.84	34.288	27.011	110.7	0.832	0.33	4.7	80.5	3.15	40.4	0.00			504	
513	5.79	5.75	34.292	27.025	109.4	0.846	0.31	4.4	82.0							

RV NEW HORIZON

CALCOFI CRUISE 0604

STATION 80.0 70.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD	AMT	TYPE
33 49.2 N	121 50.2 W	14/04/06	1600	UTC	3634 m	200	07 kn	240 02 06	2	1008.0 mb	15.5 c	14.8 c		8/8		SC
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	14.26	14.26	32.860	24.480	344.2	0.000	6.01	102.7	2.8	0.32	0.0	0.00	0.19	0.04	0	
2	14.26	14.26	32.860	24.481	344.3	0.007	6.01	102.7	2.8	0.32	0.0	0.00	0.19	0.04	2	220
10 ISL	14.04	14.04	32.874	24.537	339.1	0.034	6.04	102.8	2.8	0.32	0.0	0.00	0.21	0.05	10	
15	13.85	13.85	32.885	24.585	334.7	0.051	6.06	102.7	2.7	0.32	0.0	0.00	0.22	0.05	15	219
20 ISL	13.74	13.74	32.887	24.609	332.5	0.068	6.06	102.5	2.6	0.32	0.0	0.00	0.27	0.07	20	
30	13.61	13.61	32.893	24.641	329.8	0.101	6.06	102.2	2.4	0.33	0.0	0.00	0.42	0.10	30	218
45	13.58	13.57	32.938	24.682	326.3	0.150	6.02	101.5	2.7	0.34	0.1	0.03	0.70	0.05	45	217
50 ISL	13.43	13.42	32.946	24.718	322.9	0.166	5.95	100.0	2.8	0.38	0.3	0.08	0.68	0.11	50	
55	13.26	13.25	32.959	24.763	318.8	0.182	5.87	98.3	2.8	0.42	0.7	0.14	0.66	0.18	55	216
65	13.04	13.03	33.022	24.855	310.3	0.214	5.76	96.1	3.6	0.49	1.7	0.24	0.49	0.24	65	215
75	12.33	12.32	33.215	25.143	283.1	0.243	5.19	85.4	6.8	0.81	7.0	0.08	0.21	0.15	75	214
84	11.84	11.83	33.340	25.332	265.2	0.268	4.71	76.7	10.3	1.08	11.3	0.02	0.11	0.09	84	213
94	11.36	11.35	33.429	25.490	250.4	0.294	4.16	67.1	13.7	1.33	14.9	0.02	0.07	0.08	94	212
100 ISL	11.09	11.08	33.490	25.586	241.4	0.309	3.79	60.8	15.9	1.48	17.0	0.02	0.05	0.07	100	
110	10.64	10.63	33.595	25.748	226.2	0.332	3.24	51.5	19.5	1.70	20.2	0.02	0.02	0.06	111	211
125	9.88	9.87	33.749	25.998	202.6	0.364	2.83	44.3	24.2	1.92	23.8	0.01	0.01	0.05	126	210
145	9.60	9.58	33.894	26.158	187.8	0.403	2.44	38.0	27.9	2.07	26.0	0.01	0.01	0.06	146	209
150 ISL	9.55	9.53	33.923	26.189	184.9	0.413	2.35	36.6	28.8	2.10	26.4	0.01	0.01	0.06	151	
169	9.37	9.35	34.010	26.287	176.0	0.447	2.08	32.2	31.8	2.20	27.7	0.01	0.00	0.05	170	208
198	9.05	9.03	34.072	26.387	167.0	0.497	1.86	28.6	35.2	2.30	29.3	0.01	0.00	0.04	199	207
200 ISL	9.01	8.99	34.072	26.394	166.4	0.500	1.87	28.8	35.4	2.30	29.4	0.01			201	
230	8.47	8.45	34.073	26.479	158.6	0.549	1.99	30.2	38.1	2.30	30.5	0.01			231	206
250 ISL	8.23	8.20	34.104	26.540	153.1	0.580	1.79	27.1	41.3	2.39	31.6	0.01			251	
269	8.03	8.00	34.134	26.594	148.3	0.608	1.56	23.5	44.7	2.49	32.6	0.01			271	205
300 ISL	7.63	7.60	34.137	26.655	142.8	0.654	1.42	21.2	48.9	2.58	34.0	0.01			302	
319	7.37	7.34	34.128	26.685	140.1	0.680	1.38	20.5	51.4	2.62	34.8	0.01			321	204
380	6.49	6.46	34.103	26.785	130.8	0.763	1.18	17.1	61.4	2.79	37.7	0.00			382	203
400 ISL	6.33	6.29	34.118	26.818	127.9	0.789	1.04	15.0	64.6	2.86	38.5	0.00			403	
439	6.08	6.04	34.159	26.883	122.1	0.838	0.75	10.8	70.9	2.98	39.8	0.00			442	202
500 ISL	5.63	5.59	34.211	26.980	113.2	0.909	0.49	7.0	81.1	3.12	41.5	0.00			503	
513	5.53	5.49	34.222	27.001	111.3	0.924	0.43	6.1	83.3	3.15	41.9	0.00			517	201

RV NEW HORIZON

CALCOFI CRUISE 0604

STATION 80.0 70.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD	AMT	TYPE
33 49.1 N	121 49.6 W	14/04/06	1734	UTC	3616 m	200	08 kn	240 02 06	5	1008.5 mb	14.1 c	14.0 c		17m	8/8	SC
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	14.38	14.38	32.852	24.449	347.2	0.000	5.98	102.5	2.2	0.33	0.1	0.00	0.21	0.04	0	
1	14.38	14.38				0.003									1	213
2 A	14.38	14.38	32.852	24.449	347.3	0.007	5.98	102.5	2.2	0.33	0.1	0.00	0.21	0.04	2	212
10 ISL	14.22	14.22	32.874	24.500	342.7	0.035	6.01	102.6	2.4	0.32	0.0	0.00	0.21	0.05	10	
11	14.19	14.19	32.877	24.509	341.9	0.038	6.02	102.8	2.4	0.32	0.0	0.00	0.21	0.05	11	210
11 A	14.20	14.20				0.038									11	211
20 ISL	13.90	13.90	32.882	24.573	336.0	0.068	6.06	102.8	2.3	0.33	0.0	0.00	0.23	0.06	20	
25	13.75	13.75				0.085									25	209
25 A	13.76	13.76	32.883	24.602	333.3	0.085	6.08	102.9	2.2	0.33	0.0	0.00	0.24	0.07	25	208
30 ISL	13.73	13.73	32.893	24.616	332.1	0.102	6.07	102.6	2.2	0.33	0.0	0.00	0.29	0.09	30	
35	13.68	13.68				0.118									35	207
36 A	13.68	13.67	32.905	24.636	330.4	0.122	6.06	102.4	2.3	0.33	0.0	0.00	0.40	0.13	36	206
47 A	13.30	13.29	32.912	24.718	322.9	0.158	5.99	100.4	2.5	0.38	0.4	0.06	0.83	0.25	47	204
47	13.33	13.32				0.158									47	205
50 ISL	13.24	13.23	32.930	24.744	320.5	0.167	5.94	99.4	2.7	0.40	0.7	0.10	0.77	0.25	50	
64 A	12.94	12.93	33.012	24.867	309.1	0.211	5.73	95.4	3.6	0.51	2.0	0.26	0.51	0.26	64	202
64	12.94	12.93				0.211									64	203
206	8.87	8.85	34.063	26.409	165.0	0.548	1.91	29.3	35.9	2.28	29.1	0.01			207	201

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD	AMT	TYPE
33 28.7 N	122 32.2 W	14/04/06	2242	UTC	4000 m	310	16 kn	330 05 05	2	1010.5 mb	14.5 c	14.5 c	22m		8/8	SC
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXYPCT	SI03	P04	N03	N02	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C		THETA			mL/L		uM/L	uM/L	uM/L	uM/L	ug/L	ug/L	db	
0 ISL	14.83	14.83	32.937	24.419	350.1	0.000	5.85	101.2	2.1	0.32	0.1	0.00	0.12	0.01		0
2	14.83	14.83	32.937	24.419	350.1	0.007	5.85	101.2	2.1	0.32	0.1	0.00	0.12	0.01		2 222
10 ISL	14.81	14.81	32.945	24.430	349.3	0.035	5.85	101.2	2.1	0.32	0.1	0.00	0.12	0.01		10
15	14.80	14.80	32.954	24.439	348.6	0.052										15
15	14.79	14.79	32.959	24.445	348.0	0.052	5.86	101.3	2.1	0.32	0.1	0.00	0.12 A	0.01 A		15 220
20 ISL	14.73	14.73	32.972	24.468	346.0	0.070	5.87	101.4	2.1	0.32	0.1	0.00	0.13	0.01		20
30 ISL	14.61	14.61	33.002	24.517	341.6	0.104	5.88	101.3	2.0	0.32	0.0	0.00	0.15	0.02		30
31	14.60	14.60	33.005	24.522	341.2	0.108	5.88	101.3	2.0	0.32	0.0	0.00	0.15	0.02		31 219
45	14.61	14.60	33.050	24.555	338.5	0.155	5.87	101.2	2.0	0.32	0.0	0.00	0.21 A	0.02 A		45 218
50 ISL	14.51	14.50	33.034	24.564	337.8	0.172	5.89	101.3	2.0	0.32	0.0	0.00	0.23	0.03		50
61	14.27	14.26	32.989	24.580	336.5	0.209	5.92	101.3	2.1	0.33	0.0	0.00	0.29	0.06		61 217
74	14.16	14.15	32.978	24.595	335.5	0.253	5.92	101.0	2.0	0.33	0.0	0.00	0.41	0.12		74 216
75 ISL	14.18	14.17	33.001	24.608	334.2	0.256	5.89	100.6	2.0	0.33	0.1	0.01	0.45	0.15		75
80	14.30	14.29	33.176	24.718	323.9	0.273	5.71	97.8	2.5	0.38	0.5	0.06	0.61	0.30		80 215
85	13.61	13.60	33.278	24.940	302.9	0.288	5.52	93.3	3.8	0.50	2.4	0.07	0.48	0.27		85 214
95	12.86	12.85	33.280	25.091	288.6	0.318	5.37	89.4	4.6	0.62	4.3	0.05	0.26	0.22		95 213
100 ISL	12.26	12.25	33.271	25.200	278.3	0.332	5.28	86.8	5.6	0.71	5.9	0.03	0.21	0.14		100
106	11.48	11.47	33.249	25.328	266.1	0.348	5.13	82.9	7.3	0.86	8.3	0.02	0.17	0.06		106 212
115	10.43	10.42	33.180	25.461	253.5	0.372	4.82	76.1	11.1	1.16	12.8	0.02	0.08	0.06		115 211
125	9.88	9.87	33.372	25.704	230.5	0.396	4.51	70.4	14.4	1.33	16.1	0.01	0.03	0.03		125 210
141	9.58	9.56	33.539	25.884	213.7	0.431	4.24	65.8	17.1	1.45	18.2	0.01	0.01	0.02		142 209
150 ISL	9.40	9.38	33.620	25.977	205.0	0.450	4.23	65.5	18.3	1.48	18.9	0.01	0.00	0.02		151
166	9.09	9.07	33.739	26.120	191.6	0.482	4.21	64.7	20.6	1.51	19.8	0.01	0.00	0.02		167 208
194	8.61	8.59	33.874	26.301	174.9	0.533	3.95	60.1	25.9	1.65	22.3	0.01	0.00	0.02		195 207
200 ISL	8.53	8.51	33.896	26.330	172.1	0.544	3.79	57.6	27.4	1.71	23.2	0.01				201
229	8.19	8.17	33.978	26.447	161.5	0.592	2.93	44.2	34.7	2.02	27.5	0.00				230 206
250 ISL	7.93	7.90	34.010	26.511	155.7	0.625	2.57	38.6	39.0	2.17	29.5	0.00				251
268	7.72	7.69	34.028	26.556	151.6	0.653	2.33	34.8	42.3	2.27	30.8	0.00				270 205
300 ISL	7.46	7.43	34.060	26.618	146.1	0.701	1.91	28.4	47.0	2.44	32.9	0.01				302
317	7.32	7.29	34.072	26.648	143.5	0.725	1.72	25.5	49.3	2.52	33.8	0.01				319 204
378	6.55	6.52	34.079	26.759	133.4	0.810	1.34	19.5	59.6	2.73	36.8	0.00				380 203
400 ISL	6.34	6.30	34.094	26.798	129.8	0.839	1.17	16.9	63.4	2.81	37.7	0.00				403
439	6.03	5.99	34.128	26.865	123.7	0.888	0.88	12.6	70.0	2.95	39.2	0.00				442 202
500 ISL	5.61	5.57	34.178	26.957	115.4	0.961	0.57	8.1	79.4	3.08	41.0	0.00				503
512	5.53	5.49	34.188	26.974	113.8	0.975	0.51	7.2	81.3	3.11	41.3	0.00				515 201

A) SECOND FLUOROMETER READING RECALCULATED BECAUSE ACID RATIO > TAU OF PURE CHL-A.
CHLOROPHYLL AND PHAEOPIGMENT CALCULATED WITH ACID RATIO FROM ADJACENT SAMPLES.

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD	AMT	TYPE
33 8.9 N	123 13.9 W	15/04/06	0515	UTC	4218 m	320	15 kn			1015.1 mb	14.3 c	12.4 c				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXYPCT	SI03	P04	N03	N02	CHL-A	PHAE0	PRES	SAMP
m	DEG C	DEG C		THETA			mL/L		uM/L	uM/L	uM/L	uM/L	ug/L	ug/L	db	
0 ISL	14.97	14.97	33.039	24.468	345.5	0.000	5.82	101.0	2.0	0.31	0.0	0.00	0.10	0.02		0
1	14.97	14.97	33.039	24.468	345.5	0.003	5.82	101.0	2.0	0.31	0.0	0.00	0.10	0.02		1 221
10 ISL	14.97	14.97	33.038	24.467	345.8	0.035	5.82	101.0	2.0	0.31	0.0	0.00	0.10	0.02		10
15	14.97	14.97	33.038	24.467	345.9	0.052	5.82	101.0	2.0	0.31	0.0	0.00	0.10	0.02		15 219
15	14.97	14.97	33.036	24.466	346.1	0.052										15 220
20 ISL	14.97	14.97	33.046	24.474	345.5	0.069	5.82	101.0	2.0	0.31	0.0	0.00	0.10	0.02		20
30	14.97	14.97	33.071	24.493	343.9	0.104	5.81	100.9	2.0	0.31	0.0	0.00	0.12	0.01		30 218
45	14.87	14.86	33.086	24.527	341.2	0.155	5.83	101.0	2.0	0.31	0.1	0.00	0.19	0.03		45 217
50 ISL	14.85	14.84	33.086	24.531	340.9	0.172	5.83	101.0	2.0	0.31	0.1	0.00	0.20	0.03		50
60	14.81	14.80	33.085	24.540	340.4	0.206	5.84	101.1	1.9	0.31	0.0	0.00	0.24	0.04		60 216
75	14.44	14.43	33.024	24.572	337.7	0.257	5.87	100.8	1.9	0.32	0.0	0.00	0.38	0.11		75 215
85	14.11	14.10	32.957	24.589	336.3	0.291	5.93	101.1	1.9	0.33	0.0	0.00	0.35	0.10		85 214
95	14.07	14.06	32.985	24.619	333.7	0.324	5.91	100.7	1.7	0.33	0.1	0.00	0.44	0.20		95 213
100 ISL	14.11	14.10	33.065	24.673	328.7	0.341	5.80	98.9	1.9	0.35	0.3	0.05	0.41	0.23		100
105	14.15	14.13	33.182	24.755	321.1	0.357	5.66	96.7	2.3	0.39	0.8	0.09	0.39	0.25		105 212
115	13.06	13.04	33.237	25.019	296.0	0.388	5.46	91.2	3.2	0.53	2.7	0.05	0.22	0.22		115 211
124	12.52	12.50	33.244	25.130	285.6	0.414	5.28	87.2	4.4	0.66	4.9	0.03	0.18	0.14		125 210
125 ISL	12.46	12.44	33.245	25.143	284.4	0.417	5.26	86.8	4.5	0.67	5.1	0.03	0.17	0.14		126
139	11.57	11.55	33.288	25.343	265.5	0.455	5.04	81.6	6.9	0.88	8.7	0.02	0.10	0.10		140 209
150 ISL	10.75	10.73	33.379	25.561	244.8	0.483	4.83	76.9	9.9	1.05	11.9	0.01	0.05	0.06		151
164	9.81	9.79	33.522	25.833	219.0	0.516	4.49	70.1	14.4	1.29	16.1	0.01	0.01	0.02		165 208
195	8.99	8.97	33.762	26.154	188.9	0.579	3.27	50.2	25.5	1.85	24.4	0.00	0.00	0.01		196 207
200 ISL	8.91	8.89	33.797	26.194	185.2	0.588	3.17	48.6	26.7	1.89	25.0	0.00				201
230	8.55	8.53	33.962	26.380	168.1	0.641	2.75	41.8	32.2	2.04	27.4	0.00				231 206
250 ISL	8.32	8.29	34.017	26.458	160.9	0.674	2.48	37.5	35.6	2.15	28.9	0.00				251
270	8.07	8.04	34.046	26.519	155.4	0.706	2.24	33.7	39.1	2.25	30.3	0.00				271 205
300 ISL	7.60	7.57	34.069	26.606	147.4	0.751	1.90	28.3								

RV NEW HORIZON

CALCOFI CRUISE 0604

STATION 80.0 100.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD	AMT	TYPE
32 48.9 N	123 54.4 W	15/04/06	1136	UTC	4447 m	300	09 kn			1016.2 mb	15.0 c	13.9 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	14.97	14.97	32.970	24.415	350.5	0.000	5.83	101.2	2.1	0.32	0.1	0.00	0.10	0.03		0
1	14.97	14.97	32.970	24.415	350.5	0.004	5.83	101.2	2.1	0.32	0.1	0.00	0.10	0.03		1 220
10 ISL	14.97	14.97	32.970	24.415	350.8	0.035	5.82	101.0	2.1	0.32	0.1	0.00	0.09	0.02		10
15	14.97	14.97	32.970	24.415	350.9	0.053	5.81	100.8	2.1	0.32	0.1	0.00	0.09	0.02		15 219
20 ISL	14.96	14.96	32.979	24.424	350.2	0.070	5.81	100.8	2.1	0.32	0.1	0.00	0.09	0.02		20
30	14.93	14.93	33.001	24.448	348.2	0.105	5.83	101.1	2.1	0.32	0.1	0.00	0.10	0.03		30 218
45	14.86	14.85	33.019	24.477	345.9	0.157	5.84	101.1	2.1	0.32	0.1	0.00	0.13	0.03		45 217
50 ISL	14.81	14.80	33.020	24.489	344.9	0.174	5.84	101.0	2.1	0.32	0.1	0.00	0.15	0.04		50
60	14.69	14.68	33.021	24.516	342.6	0.209	5.85	101.0	2.1	0.32	0.1	0.00	0.19	0.06		60 216
75	14.56	14.55	33.030	24.551	339.7	0.260	5.84	100.5	2.1	0.31	0.1	0.00	0.28	0.14		75 215
85	14.44	14.43	33.040	24.584	336.8	0.294	5.84	100.3	2.1	0.32	0.1	0.00	0.32	0.25		85 214
95	13.54	13.53	33.138	24.846	312.1	0.326	5.60	94.4	3.1	0.47	1.9	0.09	0.32	0.31		95 213
100 ISL	13.04	13.03	33.171	24.972	300.1	0.342	5.48	91.5	3.6	0.54	3.1	0.07	0.26	0.30		100
105	12.53	12.52	33.192	25.087	289.2	0.356	5.36	88.5	4.3	0.63	4.5	0.03	0.19	0.26		105 212
114	11.63	11.62	33.196	25.260	272.8	0.382	5.11	82.8	6.4	0.84	7.7	0.01	0.12	0.15		114 211
125	11.00	10.98	33.277	25.437	256.1	0.411	4.80	76.8	9.0	1.04	11.3	0.01	0.08	0.09		126 210
140	10.18	10.16	33.374	25.655	235.5	0.447	4.40	69.2	13.0	1.30	15.5	0.00	0.03	0.05		141 209
150 ISL	9.81	9.79	33.456	25.781	223.6	0.470	4.20	65.5	15.5	1.43	17.7	0.00	0.01	0.03		151
164	9.42	9.40	33.576	25.939	208.8	0.501	3.95	61.1	18.9	1.57	20.1	0.00	0.00	0.02		165 208
194	8.76	8.74	33.814	26.231	181.6	0.559	3.42	52.2	26.1	1.82	24.0	0.00	0.00	0.01		195 207
200 ISL	8.64	8.62	33.851	26.278	177.1	0.570	3.31	50.4	27.8	1.86	24.8	0.00				201
229	8.14	8.12	33.988	26.462	160.0	0.619	2.75	41.5	35.9	2.07	28.2	0.00				230 206
250 ISL	7.94	7.91	34.037	26.530	153.8	0.652	2.36	35.4	40.0	2.22	30.2	0.00				251
269	7.78	7.75	34.058	26.571	150.3	0.681	2.05	30.7	43.2	2.34	31.6	0.00				270 205
300 ISL	7.41	7.38	34.075	26.637	144.3	0.726	1.75	26.0	48.2	2.48	33.3	0.00				302
317	7.19	7.16	34.078	26.671	141.3	0.751	1.64	24.2	50.9	2.54	34.0	0.00				319 204
379	6.50	6.47	34.089	26.773	132.0	0.835	1.25	18.1	60.6	2.75	36.9	0.00				381 203
400 ISL	6.31	6.27	34.103	26.809	128.7	0.863	1.10	15.9	64.2	2.82	37.8	0.00				402
441	6.00	5.96	34.135	26.874	122.9	0.914	0.82	11.8	71.0	2.95	39.2	0.00				444 202
500 ISL	5.69	5.65	34.173	26.943	116.8	0.985	0.60	8.5	78.3	3.05	40.3	0.00				503
509	5.64	5.60	34.179	26.954	115.9	0.996	0.57	8.1	79.4	3.07	40.5	0.00				512 201

RV NEW HORIZON

CALCOFI CRUISE 0604

STATION 81.7 43.5

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD	AMT	TYPE
34 24.3 N	119 47.8 W	13/04/06	1610	UTC	18 m	220	01 kn	260 01 06	0	1016.2 mb	16.0 c	15.0 c				0/8
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	14.45	14.45	33.176	24.684	324.8	0.000	7.45	128.1	3.2	0.10	0.1	0.01	2.21	0.44		0
2	14.45	14.45	33.176	24.684	324.9	0.006	7.45	128.1	3.2	0.10	0.1	0.01	2.21	0.44		2 204
5	14.23	14.23	33.253	24.790	314.9	0.016	7.33	125.5	2.8	0.10	0.1	0.01	3.70	0.25		5 203
10	14.07	14.07	33.340	24.891	305.4	0.032	6.96	118.8	2.8	0.19	0.2	0.02	3.70	0.23		10 202
13	13.97	13.97	33.329	24.903	304.4	0.041	7.04	120.0	3.1	0.19	0.3	0.02	4.30	0.22		13 201

RV NEW HORIZON

CALCOFI CRUISE 0604

STATION 81.8 46.9

LATITUDE	LONGITUDE	DAY/MO/YR	CAST	TIME	BOTTOM	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	SECCHI	CLD	AMT	TYPE
34 17.0 N	120 1.5 W	13/04/06	1826	UTC	578 m	220	04 kn	260 01 07	0	1016.1 mb	16.4 c	15.6 c				0/8
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	12.90	12.90	33.471	25.229	273.0	0.000	6.56	109.4	6.3	0.51	3.5	0.15	5.24	0.25		0
2 A,B	12.90	12.90	33.471	25.229	273.0	0.005	6.56	109.4	6.3	0.51	3.5	0.15	5.24	0.25		2 224
6 B	12.80	12.80	33.475	25.252	271.0	0.016	6.59	109.7	6.4	0.53	3.5	0.15	5.50	0.67		6 223
10 ISL	12.71	12.71	33.481	25.274	269.0	0.027	6.51	108.2	6.5	0.54	3.7	0.15	6.09	0.53		10
11 B	12.69	12.69	33.482	25.279	268.5	0.030	6.48	107.6	6.5	0.54	3.8	0.15	6.19	0.46		11 222
17 B	12.65	12.65	33.483	25.287	267.9	0.046	6.35	105.4	6.6	0.57	4.2	0.15	5.33	0.22		17 221
20 ISL	12.63	12.63	33.484	25.292	267.5	0.054	6.32	104.8	6.7	0.57	4.4	0.15	4.82	0.28		20
22 B	12.61	12.61	33.485	25.297	267.1	0.059	6.30	104.5	6.7	0.58	4.5	0.15	4.49	0.32		22 220
30 ISL	12.47	12.47	33.492	25.330	264.2	0.081	6.03	99.7	7.1	0.67	5.5	0.16	3.46	0.80		30
31 B	12.45	12.45	33.493	25.334	263.8	0.083	6.00	99.1	7.1	0.68	5.6	0.16	3.32	0.85		31 219
40	11.44	11.44	33.546	25.565	242.0	0.106	4.76	77.0	12.7	1.19	12.0	0.23	1.11	0.50		40 218
50	10.35	10.34	33.716	25.891	211.1	0.129	3.67	58.0	20.9	1.67	18.9	0.27	0.27	0.33		50 217
61	10.11	10.10	33.796	25.995	201.5	0.151	3.25	51.2	23.9	1.84	21.6	0.30	0.17	0.34		61 216
71	9.77	9.76	33.863	26.104	191.3	0.171	2.66	41.6	26.9	2.02	24.6	0.16	0.11	0.45		71 215
75 ISL	9.69	9.68	33.910	26.154	186.6	0.178	2.41	37.6	28.5	2.10	25.6	0.11	0.09	0.52		75
85	9.57	9.56	34.020	26.260	176.8	0.197	1.92	29.9	32.1	2.27	27.5	0.03	0.06	0.64		85 214
100	9.43	9.42	34.053	26.309	172.4	0.223	1.81	28.1	33.8	2.32	28.2	0.02	0.08	0.40		101 213
119	9.33	9.32	34.087	26.353	168.7	0.255	1.70	26.3	35.2	2.36	28.7	0.03	0.07	0.36		120 212
125 ISL	9.30	9.29	34.096	26.365	167.7	0.265	1.66	25.7	35.5	2.37	28.9	0.03	0.06	0.34		126
139	9.24	9.22	34.115	26.389	165.6	0.289	1.59	24.6	36.2	2.40	29.2	0.02	0.05	0.28		140 211
150 ISL	9.18	9.16	34.125	26.407	164.1	0.307	1.56	24.1	36.8	2.42	29.5	0.02	0.04	0.25		151
169	9.06	9.04	34.139	26.438												

RV NEW HORIZON CALCOFI CRUISE 0604 STATION 86.7 33.0. Table with columns: LATITUDE, LONGITUDE, DAY/MO/YR, CAST, TIME, BOTTOM, WIND, SPEED, WAVES, WEA, BAROMETER, DRY, WET, SECCHI, CLD AMT, TYPE. Includes a depth profile table with columns: DEPTH, TEMP, POT TEMP, SALINITY, SIGMA THETA, SVA, DYN HT, OXYGEN, OXY PCT, SI03, P04, N03, N02, CHL-A, PHAEO, PRES, SAMP.

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

RV NEW HORIZON CALCOFI CRUISE 0604 STATION 86.7 35.0. Table with columns: LATITUDE, LONGITUDE, DAY/MO/YR, CAST, TIME, BOTTOM, WIND, SPEED, WAVES, WEA, BAROMETER, DRY, WET, SECCHI, CLD AMT, TYPE. Includes a depth profile table with columns: DEPTH, TEMP, POT TEMP, SALINITY, SIGMA THETA, SVA, DYN HT, OXYGEN, OXY PCT, SI03, P04, N03, N02, CHL-A, PHAEO, PRES, SAMP.

RV NEW HORIZON CALCOFI CRUISE 0604 STATION 86.7 40.0. Table with columns: LATITUDE, LONGITUDE, DAY/MO/YR, CAST, TIME, BOTTOM, WIND, SPEED, WAVES, WEA, BAROMETER, DRY, WET, SECCHI, CLD AMT, TYPE. Includes a depth profile table with columns: DEPTH, TEMP, POT TEMP, SALINITY, SIGMA THETA, SVA, DYN HT, OXYGEN, OXY PCT, SI03, P04, N03, N02, CHL-A, PHAEO, PRES, SAMP.

Table with columns: LATITUDE, LONGITUDE, DAY/MO/YR, CAST TIME, BOTTOM, WIND SPEED, WAVES, WEA, BAROMETER, DRY, WET, SECCHI, CLD AMT, TYPE. Rows include depth measurements from 0 to 512 meters.

Table with columns: LATITUDE, LONGITUDE, DAY/MO/YR, CAST TIME, BOTTOM, WIND SPEED, WAVES, WEA, BAROMETER, DRY, WET, SECCHI, CLD AMT, TYPE. Rows include depth measurements from 0 to 515 meters.

RV NEW HORIZON

CALCOFI CRUISE 0604

STATION 90.0 60.0

Table with columns: LATITUDE, LONGITUDE, DAY/MO/YR, CAST TIME, BOTTOM, WIND SPEED, WAVES, WEA, BAROMETER, DRY, WET, SECCHI, CLD AMT TYPE, DEPTH, TEMP, POT TEMP, SALINITY, SIGMA, SVA, DYN HT, OXYGEN, OXY, SI03, P04, N03, N02, CHL-A, PHAE0, PRES, SAMP. Includes data rows from 0 to 512 meters depth.

A) SECOND FLUOROMETER READING RECALCULATED BECAUSE ACID RATIO > TAU OF PURE CHL-A. CHLOROPHYLL AND PHAEOPIGMENT CALCULATED WITH ACID RATIO FROM ADJACENT SAMPLES.

RV NEW HORIZON

CALCOFI CRUISE 0604

STATION 90.0 70.0

Table with columns: LATITUDE, LONGITUDE, DAY/MO/YR, CAST TIME, BOTTOM, WIND SPEED, WAVES, WEA, BAROMETER, DRY, WET, SECCHI, CLD AMT TYPE, DEPTH, TEMP, POT TEMP, SALINITY, SIGMA, SVA, DYN HT, OXYGEN, OXY, SI03, P04, N03, N02, CHL-A, PHAE0, PRES, SAMP. Includes data rows from 0 to 513 meters depth.

RV NEW HORIZON

CALCOFI CRUISE 0604

STATION 90.0 120.0

Table with columns: LATITUDE, LONGITUDE, DAY/MO/YR, CAST, TIME, BOTTOM, WIND SPEED, WAVES, WEA, BAROMETER, DRY, WET, SECCHI, CLD AMT, TYPE. Includes detailed depth data (DEPTH, TEMP, POT TEMP, SALINITY, SIGMA, SVA, DYN HT, OXYGEN, OXY PCT, SI03, P04, N03, N02, CHL-A, PHAEO, PRES, SAMP).

RV NEW HORIZON

CALCOFI CRUISE 0604

STATION 91.7 26.4

Table with columns: LATITUDE, LONGITUDE, DAY/MO/YR, CAST, TIME, BOTTOM, WIND SPEED, WAVES, WEA, BAROMETER, DRY, WET, SECCHI, CLD AMT, TYPE. Includes detailed depth data (DEPTH, TEMP, POT TEMP, SALINITY, SIGMA, SVA, DYN HT, OXYGEN, OXY PCT, SI03, P04, N03, N02, CHL-A, PHAEO, PRES, SAMP).

RV NEW HORIZON

CALCOFI CRUISE 0604

STATION 93.4 26.4

Table with columns: LATITUDE, LONGITUDE, DAY/MO/YR, CAST, TIME, BOTTOM, WIND SPEED, WAVES, WEA, BAROMETER, DRY, WET, SECCHI, CLD AMT, TYPE. Includes detailed depth data (DEPTH, TEMP, POT TEMP, SALINITY, SIGMA, SVA, DYN HT, OXYGEN, OXY PCT, SI03, P04, N03, N02, CHL-A, PHAEO, PRES, SAMP).

RV NEW HORIZON

CALCOFI CRUISE 0604

STATION 93.3 26.7

Table with columns: LATITUDE, LONGITUDE, DAY/MO/YR, CAST, TIME, BOTTOM, WIND SPEED, WAVES, WEA, BAROMETER, DRY, WET, SECCHI, CLD AMT, TYPE. Includes detailed depth data (DEPTH, TEMP, POT TEMP, SALINITY, SIGMA, SVA, DYN HT, OXYGEN, OXY PCT, SI03, P04, N03, N02, CHL-A, PHAEO, PRES, SAMP).

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

