

PRIMARY PRODUCTIVITY CASTS

RV NEW HORIZON

CALCOFI CRUISE 0507

STATION 77 70

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME					LAN	CIVIL TWILIGHT	INTEGRATED VALUE				
34 23.2 N	122 15.3 W	15/07/05	1719 UTC	17 m	1214 - 1948 PST					1215 PST	1948 PST	211.5 mg C/m2				
DEPTH	TEMP	SALINITY	SIGMA	OXYGEN	OXY	SI03	P04	N03	N02	CHL-A	PHAE0	LIGHT	UPTAKE (mg C/m3)			
m	DEG C		THETA	ml/L	PCT	uM/L	uM/L	uM/L	uM/L	ug/L	ug/L	PCT	1	2	MEAN	DARK
2	16.06	32.859	24.089	5.83	103.3	2.6	0.31	0.0	0.01	0.38	0.11	83. A	4.8	5.4	5.1	0.16
12	16.06	32.859	24.089	5.83	103.3	2.5	0.30	0.0	0.01	0.39	0.11	34.	7.2	7.0	7.1	0.15
24	16.05	32.912	24.132	5.86	103.9	2.4	0.31	0.0	0.01	0.51	0.17	11.	5.0	5.0	5.0	0.13
36	15.61	32.875	24.203	5.91	103.8	2.4	0.31	0.0	0.01	0.52	0.16	3.9	2.3	2.2	2.2	0.11
47	14.35	32.935	24.521	6.16	105.5	2.1	0.31	0.0	0.01	0.51	0.23	1.4	0.82	0.76	0.79	0.08
56	13.77	32.926	24.634	6.09	103.1	2.4	0.39	0.5	0.10	0.60	0.29					
65	12.82	32.953	24.845	5.75	95.4	4.2	0.62	3.1	0.55	0.41	0.29	0.28	0.08	0.12	0.10	0.07

RV NEW HORIZON

CALCOFI CRUISE 0507

STATION 77 100

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME					LAN	CIVIL TWILIGHT	INTEGRATED VALUE				
33 22.8 N	124 19.8 W	14/07/05	1941 UTC	19 m	1238 - 1955 PST					1223 PST	1954 PST	111.4 mg C/m2				
DEPTH	TEMP	SALINITY	SIGMA	OXYGEN	OXY	SI03	P04	N03	N02	CHL-A	PHAE0	LIGHT	UPTAKE (mg C/m3)			
m	DEG C		THETA	ml/L	PCT	uM/L	uM/L	uM/L	uM/L	ug/L	ug/L	PCT	1	2	MEAN	DARK
2	18.17	33.111	23.785	5.54	102.5	2.4	0.27	0.0	0.00	0.15	0.03	85. A	2.3	2.6	2.4	0.17
14	18.17	33.112	23.787	5.54	102.5	2.5	0.27	0.0	0.00	0.14	0.03	32.	2.8	2.6	2.7	0.16
27	18.05	33.104	23.810	5.56	102.6	2.3	0.27	0.0	0.00	0.18	0.04	11.	1.8	1.8	1.8	0.16
40	15.33	33.043	24.394	6.14	107.4	2.2	0.28	0.0	0.00	0.31	0.11	3.9	1.5	1.4	1.5	0.19
46	14.73	33.059	24.536	6.12	105.7	2.5	0.31	0.1	0.00	0.39	0.20					
53	14.39	33.073	24.619	6.11	104.8	2.7	0.32	0.0	0.00	0.44	0.28	1.4	0.87	0.90	0.89	0.16
62	13.40	33.126	24.864	5.53	93.0	4.3	0.56	3.0	0.25	0.65	0.68					
72	12.39	33.161	25.089	5.24	86.3	6.3	0.78	6.9	0.09	0.37	0.41	0.30	0.12	0.15	0.14	0.07

RV NEW HORIZON

CALCOFI CRUISE 0507

STATION 80 70

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME					LAN	CIVIL TWILIGHT	INTEGRATED VALUE				
33 49.4 N	121 50.7 W	13/07/05	1830 UTC	16 m	1210 - 1952 PST					1213 PST	1952 PST	372.9 mg C/m2				
DEPTH	TEMP	SALINITY	SIGMA	OXYGEN	OXY	SI03	P04	N03	N02	CHL-A	PHAE0	LIGHT	UPTAKE (mg C/m3)			
m	DEG C		THETA	ml/L	PCT	uM/L	uM/L	uM/L	uM/L	ug/L	ug/L	PCT	1	2	MEAN	DARK
2	15.68	33.436	24.618	5.88	103.8	2.0	0.61	5.1	0.12	0.41	0.20	83. A	11.9	12.3	12.1	0.26
12	15.67	33.433	24.618	5.89	103.9	2.0	0.60	5.1	0.12	0.40	0.22	32.	13.7	13.4	13.5	0.24
23	15.40	33.442	24.685	5.90	103.6	2.0	0.61	4.9	0.13	0.44	0.25	11.	7.8	8.0	7.9	0.24
34	14.04	33.583	25.086	5.87	100.3	2.7	0.72	4.2	0.13	0.52	0.36	3.8	4.2	4.0	4.1	0.19
44	13.73	33.563	25.134	5.78	98.1	3.5	0.78	5.1	0.15	0.45	0.35	1.5	1.3	1.1	1.2	0.18
52	13.49	33.548	25.172	5.71	96.5	4.3	0.83	6.0	0.17	0.43	0.38					
61	11.68	33.562	25.534	5.19	84.4	9.6	1.22	11.5	0.27	0.36	0.25	0.29	0.04	0.04	0.04	0.20

RV NEW HORIZON

CALCOFI CRUISE 0507

STATION 83 42

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME					LAN	CIVIL TWILIGHT	INTEGRATED VALUE				
34 10.6 N	119 30.6 W	12/07/05	1834 UTC	7 m	1202 - 1946 PST					1204 PST	1945 PST	1045.2 mg C/m2				
DEPTH	TEMP	SALINITY	SIGMA	OXYGEN	OXY	SI03	P04	N03	N02	CHL-A	PHAE0	LIGHT	UPTAKE (mg C/m3)			
m	DEG C		THETA	ml/L	PCT	uM/L	uM/L	uM/L	uM/L	ug/L	ug/L	PCT	1	2	MEAN	DARK
1	17.22	33.500	24.312	6.85	124.7	0.7	0.17	0.0	0.01	2.18	1.05	80. A	78.4	73.7	76.1	1.1
5	17.16	33.500	24.327	6.84	124.4	0.7	0.17	0.0	0.01	2.26	1.01	33.	80.8	85.3	83.1	0.99
10	16.23	33.500	24.543	6.79	121.2	0.9	0.18	0.1	0.01	3.34	1.35	11.	53.7	56.7	55.2	0.79
15	14.61	33.485	24.889	6.17	106.6	3.9	0.42	1.4	0.06	6.11	1.96	3.7	33.7	31.3	32.5	0.56
19	12.81	33.464	25.242	5.17	86.1	8.0	0.85	6.7	0.16	1.86	1.03	1.6	3.4	3.2	3.3	0.34
27	11.64	33.522	25.510	4.15	67.4	13.1	1.25	13.0	0.27	1.10	0.86	0.27	0.18	0.26	0.22	0.23

A) INCUBATION LIGHT INTENSITIES WERE 98, 39, 11, 4.3, 1.9, 0.25 PERCENT RESPECTIVELY.

PRIMARY PRODUCTIVITY CASTS

RV NEW HORIZON

CALCOFI CRUISE 0507

STATION 83 70

LATITUDE 33 13.8 N LONGITUDE 121 27.9 W DAY/MO/YR 11/07/05 CAST TIME 1759 UTC SECCHI 14 m INCUBATION TIME 1209 - 1945 PST LAN 1211 PST CIVIL TWILIGHT 1943 PST INTEGRATED VALUE 228.1 mg C/m2

DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN ml/L	OXY PCT	SI03 uM/L	P04 uM/L	N03 uM/L	N02 uM/L	CHL-A ug/L	PHAE0 ug/L	LIGHT PCT	UPTAKE (mg C/m3)			
													1	2	MEAN	DARK
2	16.15	33.200	24.330	5.78	102.8	1.9	0.45	2.3	0.08	0.37	0.15	80. A	5.7	6.0	5.8	0.17
10	16.15	33.200	24.331	5.79	103.0	1.8	0.44	2.3	0.08	0.36	0.14	33.	9.4	9.5	9.5	0.17
20	16.13	33.202	24.337	5.81	103.3	1.7	0.51	3.0	0.11	0.36	0.13	11.	5.9	6.0	5.9	0.18
31	15.60	33.257	24.499	5.94	104.6	1.7	0.51	3.0	0.10	0.39	0.18	3.3	3.1	2.9	3.0	0.19
38	13.12	33.310	25.062	5.84	97.8	4.0	0.80	6.4	0.22	0.74	0.42	1.6	1.7	1.6	1.6	0.20
46	11.91	33.295	25.284	5.30	86.5	8.2	1.02	9.7	0.33	0.50	0.29					
54	11.11	33.369	25.488	4.78	76.7	12.2	1.29	14.0	0.41	0.27	0.16	0.27	0.05	0.07	0.06	0.09

RV NEW HORIZON

CALCOFI CRUISE 0507

STATION 83 110

LATITUDE 31 54.8 N LONGITUDE 124 10.7 W DAY/MO/YR 10/07/05 CAST TIME 1704 UTC SECCHI 32 m INCUBATION TIME 1222 - 1950 PST LAN 1222 PST CIVIL TWILIGHT 1949 PST INTEGRATED VALUE 154.7 mg C/m2

DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN ml/L	OXY PCT	SI03 uM/L	P04 uM/L	N03 uM/L	N02 uM/L	CHL-A ug/L	PHAE0 ug/L	LIGHT PCT	UPTAKE (mg C/m3)			
													1	2	MEAN	DARK
1	18.85	33.196	23.682	5.43	101.8	2.6	0.30	0.1	0.00	0.08	0.01	95. A	1.8	1.7	1.7	0.10
12	18.79	33.193	23.695	5.44	101.9	2.6	0.30	0.1	0.00	0.08	0.02					
23	18.37	33.163	23.777	5.50	102.1	2.5	0.29	0.1	0.00	0.09	0.03	33.	2.3	2.2	2.3	0.14
34	17.38	33.132	23.994	5.68	103.5	2.5	0.29	0.1	0.00	0.09	0.03					
46	17.07	33.144	24.076	5.71	103.4	2.5	0.29	0.1	0.00	0.11	0.03	11.	1.4	1.6	1.5	0.10
57	16.64	33.115	24.155	5.76	103.4	2.6	0.29	0.1	0.00	0.13	0.04					
68	15.43	33.085	24.405	5.98	104.8	2.5	0.29	0.1	0.00	0.20	0.08	3.8	1.3	1.3	1.3	0.09
78	14.99	33.167	24.565	5.97	103.7	2.3	0.29	0.0	0.00	0.24	0.10					
88	14.30	33.237	24.766	5.89	101.0	2.4	0.30	0.0	0.00	0.31	0.19	1.5	0.84	0.75	0.79	0.04
97	12.54	33.072	24.992	5.61	92.6	4.9	0.60	3.4	0.10	0.29	0.19					
106	11.85	33.094	25.140	5.28	85.9	6.6	0.79	6.7	0.14	0.25	0.19					
114	10.71	33.177	25.410	4.77	75.8	10.5	1.12	12.4	0.11	0.16	0.10					
122	10.20	33.253	25.557	4.51	70.9	13.1	1.29	15.4	0.07	0.11	0.10	0.29	0.01	0.01	0.01	0.07

RV NEW HORIZON

CALCOFI CRUISE 0507

STATION 87 50

LATITUDE 33 19.4 N LONGITUDE 119 39.7 W DAY/MO/YR 08/07/05 CAST TIME 1840 UTC SECCHI 8 m INCUBATION TIME 1204 - 1944 PST LAN 1204 PST CIVIL TWILIGHT 1941 PST INTEGRATED VALUE 1344.5 mg C/m2

DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN ml/L	OXY PCT	SI03 uM/L	P04 uM/L	N03 uM/L	N02 uM/L	CHL-A ug/L	PHAE0 ug/L	LIGHT PCT	UPTAKE (mg C/m3)			
													1	2	MEAN	DARK
2	14.22	33.620	25.076	5.68	97.5	3.8	0.61	5.4	0.13	3.93	1.48	68. A	67.1	50.2	58.6	0.58
6	14.19	33.624	25.085	5.69	97.6	3.8	0.60	5.3	0.13	3.78	1.34	32.	140.5	87.1	113.8	0.48
11	13.89	33.635	25.156	5.49	93.6	4.7	0.68	6.4	0.13	4.27	1.29	12.	68.7	93.4	81.0	0.40
16	11.89	33.702	25.603	4.17	68.2	13.8	1.27	14.7	0.20	3.60	1.42	4.6	25.7	23.8	24.8	0.27
22	11.61	33.714	25.664	3.95	64.2	15.4	1.38	16.0	0.20	3.07	1.35	1.5	7.8	6.6	7.2	0.24
31	11.01	33.719	25.777	3.48	55.8	18.5	1.55	18.7	0.19	1.45	1.04	0.26	0.52	0.63	0.57	0.17

RV NEW HORIZON

CALCOFI CRUISE 0507

STATION 87 80

LATITUDE 32 19.3 N LONGITUDE 121 42.8 W DAY/MO/YR 09/07/05 CAST TIME 1659 UTC SECCHI 24 m INCUBATION TIME 1208 - 1946 PST LAN 1209 PST CIVIL TWILIGHT 1946 PST INTEGRATED VALUE 214.5 mg C/m2

DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN ml/L	OXY PCT	SI03 uM/L	P04 uM/L	N03 uM/L	N02 uM/L	CHL-A ug/L	PHAE0 ug/L	LIGHT PCT	UPTAKE (mg C/m3)			
													1	2	MEAN	DARK
1	17.51	33.112	23.946	5.60	102.3	2.6	0.30	0.1	0.00	0.09	0.03	94. A	1.9	1.7	1.8	0.09
18	16.76	33.036	24.065	5.75	103.4	2.3	0.29	0.1	0.00	0.19	0.05	32.	6.6	5.3	5.9	0.30
34	16.38	33.007	24.131	5.81	103.7	2.0	0.29	0.1	0.00	0.24	0.07	11.	4.5	4.8	4.7	0.27
42	16.44	33.079	24.173	5.84	104.4	2.6	0.30	0.1	0.00	0.18	0.05					
51	15.27	33.045	24.409	6.06	105.8	2.7	0.31	0.1	0.00	0.13	0.04	3.8	0.90	0.75	0.83	0.10
59	15.14	33.151	24.519	6.00	104.6	2.4	0.30	0.1	0.00	0.13	0.04					
66	14.57	33.137	24.631	5.99	103.2	2.7	0.31	0.1	0.00	0.17	0.08	1.5	0.36	0.31	0.34	0.11
75	13.93	33.237	24.842	5.80	98.7	3.3	0.37	0.2	0.01	0.36	0.29					
83	13.45	33.246	24.947	5.66	95.3	3.8	0.45	1.4	0.03	0.38	0.34					
92	12.63	33.248	25.111	5.42	89.8	5.3	0.63	4.5	0.15	0.34	0.34	0.28	0.14	0.20	0.17	0.03

A) INCUBATION LIGHT INTENSITIES WERE 98, 39, 11, 4.3, 1.9, 0.25 PERCENT RESPECTIVELY.

PRIMARY PRODUCTIVITY CASTS

RV NEW HORIZON

CALCOFI CRUISE 0507

STATION 90 28

LATITUDE 33 29.1 N LONGITUDE 117 46.2 W DAY/MO/YR 07/07/05 CAST TIME 1824 UTC SECCHI 9 m INCUBATION TIME 1155 - 1939 PST LAN 1156 PST CIVIL TWILIGHT 1937 PST INTEGRATED VALUE 1684.0 mg C/m2

DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN mL/L	OXY PCT	SI03 uM/L	P04 uM/L	N03 uM/L	N02 uM/L	CHL-A ug/L	PHAE0 ug/L	LIGHT PCT	UPTAKE (mg C/m3)			
													1	2	MEAN	DARK
1	18.54	33.488	23.982	6.85	127.9	1.4	0.16	0.0	0.00	2.02	0.00	84. A	20.4	17.5	19.0	0.58
8	16.50	33.453	24.445	6.60	118.4	4.7	0.29	0.0	0.01	7.53	0.23	26.	161.8	170.4	166.1	1.1
14	11.58	33.525	25.523	3.36	54.5	17.0	1.17	2.7	0.10	4.48	0.80	9.2	72.7	83.2	77.9	2.0
19	10.97	33.571	25.669	2.94	47.1	19.1	1.52	11.6	0.21	1.23	0.48	3.9	11.4	10.9	11.2	0.51
25	10.84	33.586	25.704	2.86	45.7	19.8	1.59	13.9	0.22	1.05	0.45	1.4	3.8	3.5	3.6	0.35
34	10.59	33.651	25.799	2.65	42.1	21.9	1.79	19.8	0.23	0.73	0.32	0.30	0.36	0.45	0.40	0.28

RV NEW HORIZON

CALCOFI CRUISE 0507

STATION 90 53

LATITUDE 32 39.0 N LONGITUDE 119 29.2 W DAY/MO/YR 06/07/05 CAST TIME 1954 UTC SECCHI 16 m INCUBATION TIME 1243 - 1936 PST LAN 1203 PST CIVIL TWILIGHT 1936 PST INTEGRATED VALUE 390.1 mg C/m2

DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN mL/L	OXY PCT	SI03 uM/L	P04 uM/L	N03 uM/L	N02 uM/L	CHL-A ug/L	PHAE0 ug/L	LIGHT PCT	UPTAKE (mg C/m3)			
													1	2	MEAN	DARK
1	14.99	33.554	24.860	5.88	102.4	0.8	0.37	1.4	0.06	0.75	0.25	91. A	15.5	14.9	15.2	0.28
12	14.96	33.552	24.866	5.87	102.2	0.7	0.37	1.4	0.06	0.75	0.27	32.	14.6	14.8	14.7	0.29
23	14.85	33.549	24.887	5.84	101.4	0.8	0.40	1.7	0.07	0.65	0.25	11.	6.7	7.1	6.9	0.24
34	12.47	33.421	25.275	5.49	90.7	5.7	0.94	8.6	0.32	0.79	0.60	3.8	4.1	4.0	4.0	0.15
44	11.56	33.454	25.472	4.93	79.9	10.2	1.23	12.8	0.40	0.58	0.37	1.5	0.92	0.82	0.87	0.12
52	11.05	33.567	25.652	4.42	70.9	13.5	1.48	15.7	0.39	0.50	0.61					
61	10.47	33.638	25.810	3.82	60.5	18.8	1.63	19.4	0.34	0.20	0.36	0.29	-0.01	0.02	0.00	0.14

RV NEW HORIZON

CALCOFI CRUISE 0507

STATION 90 90

LATITUDE 31 25.0 N LONGITUDE 121 59.7 W DAY/MO/YR 05/07/05 CAST TIME 1908 UTC SECCHI 21 m INCUBATION TIME 1213 - 1942 PST LAN 1213 PST CIVIL TWILIGHT 1940 PST INTEGRATED VALUE 113.5 mg C/m2

DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN mL/L	OXY PCT	SI03 uM/L	P04 uM/L	N03 uM/L	N02 uM/L	CHL-A ug/L	PHAE0 ug/L	LIGHT PCT	UPTAKE (mg C/m3)			
													1	2	MEAN	DARK
2	17.67	33.136D	23.926	5.58	102.2	2.5	0.29	0.1	0.00	0.14	0.03	86. A	2.7	2.6	2.6	0.17
15	17.68	33.136	23.924	5.59	102.4	2.5	0.28	0.0	0.00	0.15	0.03	33.	2.9	2.8	2.8	0.15
30	17.25	33.134	24.026	5.71	103.8	2.5	0.28	0.0	0.00	0.18	0.05	11.	2.0	1.9	1.9	0.16
45	16.67	33.117	24.149	5.78	103.8	2.4	0.28	0.0	0.00	0.25	0.08	3.7	1.1	1.1	1.1	0.17
51	16.51	33.123	24.191	5.81	104.0	2.4	0.28	0.0	0.01	0.27	0.10					
57	16.36	33.116	24.220	5.83	104.1	2.4	0.29	0.0	0.00	0.31	0.09	1.6	0.47	0.43	0.45	0.13
68	15.55	33.097	24.388	5.92	104.0	2.4	0.29	0.0	0.00	0.47	0.25					
79	14.77	33.097	24.558	5.92	102.4	2.5	0.32	0.0	0.00	0.47	0.41	0.31	0.10	0.12	0.11	0.07

RV NEW HORIZON

CALCOFI CRUISE 0507

STATION 93 26.7

LATITUDE 32 57.0 N LONGITUDE 117 17.8 W DAY/MO/YR 01/07/05 CAST TIME 1831 UTC SECCHI 4 m INCUBATION TIME 1150 - 1930 PST LAN 1153 PST CIVIL TWILIGHT 1930 PST INTEGRATED VALUE 530.9 mg C/m2

DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN mL/L	OXY PCT	SI03 uM/L	P04 uM/L	N03 uM/L	N02 uM/L	CHL-A ug/L	PHAE0 ug/L	LIGHT PCT	UPTAKE (mg C/m3)			
													1	2	MEAN	DARK
1	17.91	33.457	24.114	7.03	129.6	7.6	0.19	0.0	0.01	2.97	0.79	68. A	66.2	74.8	70.5	1.2
2	17.90	33.453	24.113	7.03	129.6	7.6	0.19	0.0	0.01	3.13	0.75	46.	76.7	71.4	74.1	1.1
7	14.56	33.430	24.857	6.35	109.6	8.1	0.40	0.0	0.01	2.53	0.97	6.8	39.7	46.9	43.3	0.96
9	12.76	33.460	25.248	5.44	90.5	10.9	0.65	0.0	0.01	2.23	0.79	3.2	16.3	16.5	16.4	0.25
10	12.02	33.487	25.411	4.67	76.5	13.1	0.92	3.4	0.06	1.24	0.90	2.2	9.0	8.3	8.6	0.41
15	10.79	33.562	25.694	3.16	50.4	17.7	1.54	16.4	0.19	0.98	0.79	0.32	0.34	0.41	0.37	0.24

A) INCUBATION LIGHT INTENSITIES WERE 98, 39, 11, 4.3, 1.9, 0.25 PERCENT RESPECTIVELY.

PRIMARY PRODUCTIVITY CASTS

RV NEW HORIZON

CALCOFI CRUISE 0507

STATION 93 45

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
32 20.8 N	118 33.5 W	02/07/05	1807 UTC	13 m	1157 - 1935 PST	1158 PST	1935 PST	426.3 mg C/m2

DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN ml/L	OXY PCT	SI03 uM/L	P04 uM/L	N03 uM/L	N02 uM/L	CHL-A ug/L	PHAE0 ug/L	LIGHT PCT	UPTAKE (mg C/m3)			
													1	2	MEAN	DARK
2	16.04	33.477	24.568	5.87	104.4	0.4	0.33	0.8	0.06	0.69	0.22	79. A	19.9	21.7	20.8	0.34
10	15.50	33.440	24.661	6.00	105.5	0.4	0.33	0.9	0.08	0.69	0.25	31.	18.8	18.5	18.7	0.27
19	14.04	33.374	24.924	5.72	97.6	1.6	0.59	3.4	0.24	0.72	0.36	11.	10.9	11.3	11.1	0.21
28	13.00	33.395	25.151	5.22	87.2	4.6	0.91	6.9	0.36	0.61	0.39	3.7	3.6	3.9	3.8	0.17
36	12.19	33.480	25.374	4.72	77.6	7.6	1.18	10.7	0.28	0.47	0.38	1.4	0.91	0.93	0.92	0.39
43	11.53	33.434	25.462	4.52	73.2	10.4	1.27	13.0	0.30	0.42	0.40					
49	11.71	33.626	25.578	3.97	64.6	12.5	1.51	14.3	0.25	0.25	0.50	0.31	0.14	0.09	0.11	0.18

RV NEW HORIZON

CALCOFI CRUISE 0507

STATION 93 80

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
31 10.8 N	120 55.3 W	03/07/05	1740 UTC	26 m	1208 - 1945 PST	1208 PST	1943 PST	215.6 mg C/m2

DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN ml/L	OXY PCT	SI03 uM/L	P04 uM/L	N03 uM/L	N02 uM/L	CHL-A ug/L	PHAE0 ug/L	LIGHT PCT	UPTAKE (mg C/m3)			
													1	2	MEAN	DARK
2	17.38	33.102	23.969	5.69	103.6	2.0	0.30	0.1	0.00	0.14	0.04	89. A	3.3	3.1	3.2	0.18
11	17.35	33.100	23.975	5.64	102.7	1.9	0.30	0.0	0.00	0.14	0.05					
19	17.33	33.090	23.973	5.64	102.6	1.9	0.30	0.0	0.00	0.15	0.04	33.	3.5	3.3	3.4	0.14
27	17.19	33.068	23.989	5.69	103.2	1.7	0.30	0.0	0.00	0.18	0.06					
37	16.88	33.054	24.052	5.74	103.5	1.7	0.29	0.1	0.00	0.24	0.08	11.	2.9	3.1	3.0	0.17
45	16.34	33.029	24.157	5.83	104.0	1.6	0.29	0.0	0.00	0.32	0.13					
55	15.65	33.007	24.296	5.91	104.0	1.6	0.30	0.0	0.00	0.46	0.23	3.9	2.7	2.7	2.7	0.17
62	15.37	33.033	24.378	5.93	103.8	2.0	0.30	0.0	0.00	0.56	0.26					
71	14.99	33.077	24.495	5.99	104.0	1.8	0.32	0.0	0.01	0.41	0.33	1.5	1.1	0.99	1.0	0.11
81	14.28	33.092	24.658	5.93	101.5	2.2	0.35	0.1	0.02	0.40	0.38					
91	13.42	33.087	24.831	5.87	98.7	3.2	0.49	1.5	0.11	0.29	0.29					
100	12.56	33.163	25.059	5.53	91.4	5.6	0.77	5.5	0.29	0.14	0.13	0.27	0.01	0.02	0.01	0.09

RV NEW HORIZON

CALCOFI CRUISE 0507

STATION 93 120

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
29 50.5 N	123 35.3 W	04/07/05	1733 UTC	28 m	1220 - 1948 PST	1219 PST	1948 PST	104.2 mg C/m2

DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN ml/L	OXY PCT	SI03 uM/L	P04 uM/L	N03 uM/L	N02 uM/L	CHL-A ug/L	PHAE0 ug/L	LIGHT PCT	UPTAKE (mg C/m3)			
													1	2	MEAN	DARK
2	19.30	33.431	23.747	5.39	102.0	1.7	0.28	0.0	0.00	0.09	0.02	90. A	1.1	1.3	1.2	0.11
12	19.27	33.428	23.753	5.38	101.8	1.6	0.28	0.0	0.00	0.09	0.02					
22	19.26	33.427	23.755	5.39	102.0	1.5	0.28	0.0	0.00	0.10	0.03	30.	2.2	2.1	2.2	0.12
32	18.67	33.453	23.925	5.51	103.1	1.5	0.27	0.0	0.00	0.08	0.02					
41	18.81	33.542	23.958	5.49	103.0	1.3	0.26	0.0	0.00	0.09	0.03	11.	1.3	1.3	1.3	0.10
50	18.54	33.517	24.007	5.52	103.0	1.4	0.26	0.0	0.00	0.11	0.03					
60	17.74	33.528	24.212	5.67	104.2	1.4	0.26	0.0	0.00	0.13	0.04	3.7	0.68	0.72	0.70	0.12
68	17.66	33.602	24.288	5.69	104.5	1.4	0.25	0.0	0.00	0.14	0.04					
77	17.61	33.645	24.333	5.66	103.9	1.4	0.25	0.0	0.00	0.16	0.05	1.5	0.31	0.34	0.32	0.05
87	17.50	33.670	24.379	5.63	103.1	1.4	0.25	0.0	0.00	0.19	0.08					
97	15.72	33.418	24.598	5.69	100.5	1.8	0.30	0.0	0.00	0.22	0.17					
107	15.73	33.635	24.763	5.54	98.0	2.2	0.29	0.0	0.00	0.28	0.22	0.28	0.13	0.14	0.14	0.02

A) INCUBATION LIGHT INTENSITIES WERE 98, 39, 11, 4.3, 1.9, 0.25 PERCENT RESPECTIVELY.