

PRIMARY PRODUCTIVITY CASTS

RV ROGER REVELLE

CALCOFI CRUISE 0610

STATION 76.7 70.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
34 23.5 N	122 15.1 W	04/11/06	1800 UTC	17 m	1157 - 1735 PST	1153 PST	1735 PST	185.0 mg C/m <sup>2</sup>

  

DEPTH	TEMP	SALINITY	SIGMA	OXYGEN	PHYC	SI03	P04	N03	N02	CHL-A	PHAE0	LIGHT	UPTAKE (mg C/m <sup>3</sup> )			
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	16.41	33.313	24.358	5.75	102.9	1.4	0.31	0.1	0.00	0.42	0.00	83. A	0.00	1.2	0.61	0.11
11	16.40	33.312	24.360	5.79	103.6	1.3	0.30	0.1	0.00	0.42	0.01	37.	4.5	4.6	4.5	0.10
19	16.39	33.321	24.369	5.73	102.5	1.3	0.30	0.1	0.00	0.38	0.03					
27	16.28	33.367	24.430	5.77	103.0	1.1	0.31	0.1	0.00	0.86 B	0.10 B	8.7	4.9	4.9	4.9	0.02
38	13.94	33.239	24.841	5.57	94.8	3.6	0.59	3.2	0.28	1.39	0.23	3.2	4.7	4.1	4.4	0.06
48	12.40	33.303	25.197	4.79	79.0	9.0	1.06	11.0	0.08	0.61	0.22	1.3	0.92	0.87	0.90	0.04
57	11.21	33.438	25.523	4.14	66.6	14.1	1.41	16.7	0.01	0.23	0.19					
65	10.78	33.520	25.664	3.80	60.6	16.7	1.55	19.0	0.01	0.14	0.07	0.28	0.03	0.02	0.03	0.02

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

RV ROGER REVELLE

CALCOFI CRUISE 0610

STATION 80.0 70.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
33 49.7 N	121 49.3 W	02/11/06	1928 UTC	32 m	1222 - 1742 PST	1151 PST	1743 PST	157.6 mg C/m <sup>2</sup>

  

DEPTH	TEMP	SALINITY	SIGMA	OXYGEN	PHYC	SI03	P04	N03	N02	CHL-A	PHAE0	LIGHT	UPTAKE (mg C/m <sup>3</sup> )			
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	17.45	33.194	24.023	5.56	101.5	1.7	0.30	0.0	0.00	0.14	0.03	91. A	2.3	2.3	2.3	0.08
11	17.42	33.201	24.036	5.57	101.6	1.8	0.30	0.0	0.00	0.05	0.02					
21	17.33	33.196	24.054	5.57	101.4	1.7	0.30	0.0	0.00	0.16	0.07	37.	2.2	2.2	2.2	0.10
30	17.32	33.196	24.057	5.58	101.6	1.7	0.30	0.0	0.00	0.17	0.04					
40	15.26	33.037	24.405	6.17	107.7	1.4	0.32	0.0	0.00	0.27	0.12					
50	14.12	33.034	24.645	6.16	105.1	1.6	0.35	0.2	0.02	0.32	0.12	9.1	2.2	2.1	2.2	0.05
60	13.65	33.058	24.761	6.08	102.7	1.8	0.37	0.3	0.04	0.25	0.13					
69	13.13	33.119	24.913	5.81	97.2	2.7	0.48	1.8	0.13	0.28	0.14	3.7	0.99	0.92	0.95	0.02
79	12.96	33.193	25.004	5.65	94.2	3.4	0.53	2.8	0.10	0.30	0.09					
89	12.53	33.392	25.242	5.16	85.3	5.6	0.72	6.4	0.04	0.18	0.11	1.4	0.28	0.24	0.26	0.02
100	11.92	33.434	25.391	4.75	77.6	8.3	0.95	10.2	0.02	0.13	0.09					
111	11.13	33.458	25.555	4.56	73.2	10.3	1.10	12.7	0.02	0.09	0.08					
123	10.20	33.543	25.783	4.20	66.1	14.8	1.36	16.8	0.01	0.04	0.05	0.27	0.00	0.01	0.00	0.03

RV ROGER REVELLE

CALCOFI CRUISE 0610

STATION 80.0 100.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
32 48.7 N	123 55.2 W	03/11/06	1745 UTC	41 m	1200 - 1746 PST	1159 PST	1747 PST	217.9 mg C/m <sup>2</sup>

  

DEPTH	TEMP	SALINITY	SIGMA	OXYGEN	PHYC	SI03	P04	N03	N02	CHL-A	PHAE0	LIGHT	UPTAKE (mg C/m <sup>3</sup> )			
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	17.82	33.187	23.929	5.53	101.6	1.8	0.29	0.0	0.00	0.05	0.29	93. A	2.5	2.5	2.5	0.07
14	17.64	33.222	23.999													
25	17.60	33.224	24.011	5.54	101.4	1.6	0.29	0.0	0.00	0.17	0.03	39.	2.3	2.4	2.4	0.10
39A	17.57	33.229	24.023	5.54	101.3	1.5	0.29	0.0	0.00	0.28	0.02					
52	16.97	33.181	24.129	5.65	102.1	1.4	0.30	0.0	0.00	0.52	0.00					
64	15.15	33.170	24.532	5.95	103.7	1.5	0.32	0.0	0.00	0.51	0.08	9.1	2.5	2.6	2.5	0.04
71A	14.56	33.165	24.655	5.97	102.8	1.7	0.34	0.0	0.02	0.54	0.12					
79A	13.86	33.163	24.800	6.04	102.6	1.7	0.34	0.2	0.04	0.38	0.08					
88	13.54	33.187	24.884	5.95	100.4	2.0	0.37	0.5	0.08	0.31	0.10	3.7	0.90	0.86	0.88	0.02
97A	13.41	33.255	24.963	5.88	99.0	2.2	0.37	0.5	0.06	0.29	0.19					
106	13.13	33.335	25.081	5.69	95.3	2.8	0.42	1.4	0.10	0.20	0.27					
114	13.14	33.475	25.188	5.52	92.5	3.5	0.46	2.6	0.06	0.15	0.19	1.4	0.26	0.26	0.26	0.01
135	11.99	33.605	25.511	5.07	83.0	6.7	0.72	7.5	0.02	0.06	0.09					
157	10.40	33.602	25.796	4.63	73.2	12.2	1.13	13.9	0.01	0.03	0.06	0.28	0.00	0.00	0.00	0.02

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

RV ROGER REVELLE

CALCOFI CRUISE 0610

STATION 83.3 40.6

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
34 13.5 N	119 24.7 W	01/11/06	1754 UTC	16 m	1140 - 1732 PST	1141 PST	1732 PST	291.2 mg C/m <sup>2</sup>

  

DEPTH	TEMP	SALINITY	SIGMA	OXYGEN	PHYC	SI03	P04	N03	N02	CHL-A	PHAE0	LIGHT	UPTAKE (mg C/m <sup>3</sup> )			
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	18.06	33.473	24.089	5.75	106.4	1.9	0.23	0.0	0.00	0.93	0.12	91. A	9.1	10.1	9.6	0.17
6	17.99	33.470	24.104	5.76	106.4	1.9	0.22	0.0	0.00	0.92	0.17					
11	17.94	33.465	24.113	5.76	106.3	1.9	0.24	0.0	0.00	0.97	0.17	35.	11.5	11.9	11.6	0.16
18	17.22	33.438	24.265	5.68	103.3	2.8	0.32	0.3	0.04	1.08	0.32					
25	16.31	33.416	24.461	5.35	95.6	4.5	0.47	1.1	0.13	0.98	0.37	9.1	9.7	9.2	9.4	0.24
29	15.23	33.407	24.696	5.34	93.4	4.5	0.51	1.5	0.16	1.14	0.14	6.2	4.9	4.9	4.9	0.22

A) INCUBATION LIGHT INTENSITIES WERE 97, 39, 9.3, 3.7, 1.4, 0.28 PERCENT RESPECTIVELY.

PRIMARY PRODUCTIVITY CASTS

RV ROGER REVELLE

CALCOFI CRUISE 0610

STATION 83.3 60.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE								
33 34.7 N	120 45.4 W	31/10/06	1817 UTC	18 m	1148 - 1735 PST	1147 PST	1735 PST	349.9 mg C/m <sup>2</sup>								
DEPTH	TEMP	SALINITY	SIGMA	OXYGEN	OXY	SI03	P04	N03	N02	CHL-A	PHAE0	LIGHT	UPTAKE (mg C/m <sup>3</sup> )			
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	15.81	33.422	24.578	5.80	102.6	2.3	0.31	0.1	0.01	0.79	0.16	84. A	10.4	10.7	10.6	0.24
12	15.77	33.411	24.579	5.81	102.7	2.2	0.30	0.1	0.01	0.77	0.20	36.	12.6	12.6	12.6	0.19
21	15.73	33.405	24.583	5.82	102.8	2.1	0.30	0.1	0.01	0.79	0.17					
29	14.22	33.134	24.701	5.89	100.8	2.1	0.40	0.6	0.10	0.70	0.21	8.4	5.4	5.5	5.4	0.08
40	12.90	33.024	24.884	5.80	96.5	2.5	0.49	1.7	0.21	0.43	0.25	3.3	2.0	2.0	2.0	0.03
51	12.31	33.163	25.106	5.33	87.6	5.3	0.72	5.9	0.14	0.25	0.21	1.3	0.49	0.56	0.53	0.03
60	12.12	33.253	25.212	5.10	83.6	6.6	0.82	7.8	0.11	0.19	0.18					
69	11.60	33.478	25.484	4.12	66.9	12.0	1.24	14.2	0.03	0.17	0.17	0.28	0.04	0.04	0.04	0.02

RV ROGER REVELLE

CALCOFI CRUISE 0610

STATION 83.3 100.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE								
32 14.7 N	123 29.6 W	30/10/06	1732 UTC	24 m	1157 - 1746 PST	1158 PST	1748 PST	137.7 mg C/m <sup>2</sup>								
DEPTH	TEMP	SALINITY	SIGMA	OXYGEN	OXY	SI03	P04	N03	N02	CHL-A	PHAE0	LIGHT	UPTAKE (mg C/m <sup>3</sup> )			
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	17.32	33.173	24.038	5.59	101.7	1.6	0.30	0.1	0.00	0.18	0.04	88. A	2.9	2.9	2.9	0.09
10	17.32	33.173	24.038	5.58	101.6	1.7	0.30	0.0	0.00	0.22	0.05					
15	17.32	33.175	24.040	5.62	102.3	1.6	0.30	0.0	0.00	0.18	0.04	38.	2.8	2.8	2.8	0.08
26	17.30	33.174	24.044	5.58	101.5	1.6	0.30	0.0	0.00	0.27	0.07	B				
38	16.82	33.131	24.125	5.72	103.1	1.6	0.31	0.0	0.00	0.45	0.12	8.8	1.9	2.0	2.0	0.05
44	15.74	33.166	24.398	5.93	104.6	1.5	0.32	0.0	0.00	0.51	0.03					
52	14.73	33.180	24.630	5.97	103.2	1.6	0.34	0.0	0.00	0.47	0.18	3.6	1.2	1.1	1.2	0.05
60	14.10	33.169	24.754	5.74	98.0	2.5	0.47	1.1	0.23	0.78	0.16					
66	12.92	33.039	24.892	5.73	95.3	3.2	0.57	2.4	0.23	0.45	0.21	1.5	0.46	0.43	0.44	0.03
75	13.17	33.363	25.094	5.01	84.0	6.8	0.84	7.3	0.05	0.27	0.17					
82	12.28	33.283	25.205	5.02	82.5	7.2	0.89	8.5	0.03	0.16	0.19					
91	12.07	33.413	25.346	5.02	82.2	7.1	0.83	8.2	0.03	0.22	0.06	0.30	0.03	0.02	0.02	0.01

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

RV ROGER REVELLE

CALCOFI CRUISE 0610

STATION 86.7 50.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE								
33 19.5 N	119 40.0 W	28/10/06	1655 UTC	19 m	1145 - 1737 PST	1142 PST	1739 PST	169.0 mg C/m <sup>2</sup>								
DEPTH	TEMP	SALINITY	SIGMA	OXYGEN	OXY	SI03	P04	N03	N02	CHL-A	PHAE0	LIGHT	UPTAKE (mg C/m <sup>3</sup> )			
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	17.30	33.450	24.255	5.61	102.2	1.1	0.26	0.1	0.00	0.43	0.11	85. A	4.0	3.9	4.0	0.13
5	17.27	33.449	24.261	5.62	102.4	1.0	0.25	0.1	0.00	0.57	0.10	B				
11	17.18	33.447	24.281	5.63	102.4	1.0	0.25	0.1	0.00	0.47	0.04					
13	17.13	33.448	24.294	5.66	102.8	0.9	0.25	0.1	0.00	0.38	0.11	35.	6.2	6.3	6.2	0.14
21	15.53	33.399	24.623	5.65	99.4	1.8	0.38	0.8	0.09	1.02	0.44					
29	14.10	33.348	24.891	5.34	91.2	4.3	0.62	3.9	0.22	0.46	0.41	9.6	2.5	2.3	2.4	0.09
41	12.72	33.404	25.213	4.74	78.7	8.1	0.92	9.1	0.10	0.22	0.23	3.6	1.0	0.95	0.98	0.03
54	12.61	33.405	25.236	4.72	78.2	8.3	0.94	9.5	0.09	0.21	0.21	1.3	0.54	0.56	0.55	0.03
63	12.30	33.423	25.310	4.56	75.1	9.4	1.04	11.0	0.07	0.17	0.18					
73	12.21	33.429	25.332	4.49	73.8	9.6	1.06	11.6	0.06	0.17	0.19	0.27	0.08	0.06	0.07	0.04

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

RV ROGER REVELLE

CALCOFI CRUISE 0610

STATION 86.7 90.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE								
31 59.4 N	122 23.6 W	29/10/06	1801 UTC	30 m	1153 - 1752 PST	1153 PST	1752 PST	293.8 mg C/m <sup>2</sup>								
DEPTH	TEMP	SALINITY	SIGMA	OXYGEN	OXY	SI03	P04	N03	N02	CHL-A	PHAE0	LIGHT	UPTAKE (mg C/m <sup>3</sup> )			
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	17.25	33.094	23.994	5.62	102.1	1.8	0.32	0.0	0.00	0.14	0.03	90. A	2.5	2.6	2.5	0.09
11	17.16	33.091	24.013	5.62	101.9	1.7	0.31	0.0	0.00	0.16	0.01					
20	17.15	33.110	24.031	5.63	102.1	1.6	0.31	0.0	0.00	0.17	0.03	36.	2.8	2.9	2.8	0.11
29	17.81	33.450	24.134	5.54	102.0	1.2	0.27	0.0	0.00	0.21	0.06					
38	17.50	33.404	24.173	5.59	102.2	1.1	0.27	0.0	0.00	0.31	0.08					
46	16.08	33.308	24.431	5.82	103.5	1.1	0.31	0.0	0.00	0.64	0.34	9.5	6.5	6.3	6.4	0.10
57	14.94	33.275	24.658	5.85	101.6	1.7	0.40	0.2	0.05	0.95	0.56					
66	13.57	33.299	24.964	5.30	89.5	4.5	0.69	4.5	0.09	0.51	0.47	3.4	2.7	2.6	2.7	0.05
74	12.91	33.359	25.142	4.98	83.0	6.7	0.85	7.3	0.10	0.24	0.26					
83	11.59	33.289	25.339	4.74	76.8	9.6	1.10	11.8	0.02	0.12	0.16	1.4	0.30	0.30	0.30	0.02
94	11.28	33.505	25.564	4.05	65.3	13.5	1.33	15.6	0.02	0.07	0.11					
105	10.82	33.566	25.694	3.78	60.3	16.2	1.48	18.0	0.01	0.05	0.09					
115	10.46	33.616	25.796	3.54	56.1	18.2	1.59	19.6	0.01	0.03	0.06	0.28	0.01	0.01	0.01	0.02

A) INCUBATION LIGHT INTENSITIES WERE 97, 39, 9.3, 3.7, 1.4, 0.28 PERCENT RESPECTIVELY.

PRIMARY PRODUCTIVITY CASTS

RV ROGER REVELLE

CALCOFI CRUISE 0610

STATION 90.0 28.0

LATITUDE 33 29.1 N LONGITUDE 117 46.2 W DAY/MO/YR 27/10/06 CAST TIME 1828 UTC SECCHI 11 m INCUBATION TIME 1133 - 1731 PST LAN 1135 PST CIVIL TWILIGHT 1732 PST INTEGRATED VALUE 439.3 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
1	18.01	33.421	24.062	5.83	107.7	2.7	0.30	0.0	0.03	1.22	0.34	87. A	37.5	30.9	34.2	0.30
7	17.60	33.420	24.161	5.76	105.6	2.7	0.30	0.0	0.03	0.95	0.34	38.	17.8	16.7	17.3	0.21
17	17.07	33.423	24.289	5.79	105.0	2.4	0.32	0.0	0.01	0.71	0.23	9.3	10.1	11.6	10.9	0.13
24	16.16	33.375	24.463	5.66	100.8	3.8	0.42	0.3	0.08	0.99	0.19	3.5	7.1	7.0	7.1	0.12
31	14.84	33.344	24.732	5.54	96.1	5.4	0.56	1.5	0.20	0.62	0.36	1.3	2.3	2.2	2.3	0.08
42	14.13	33.336	24.876	5.56	95.0	5.6	0.57	1.7	0.25	0.60	0.37	0.28	0.29	0.08	0.19	0.07

RV ROGER REVELLE

CALCOFI CRUISE 0610

STATION 90.0 53.0

LATITUDE 32 39.4 N LONGITUDE 119 29.1 W DAY/MO/YR 26/10/06 CAST TIME 1831 UTC SECCHI 33 m INCUBATION TIME 1149 - 1732 PST LAN 1142 PST CIVIL TWILIGHT 1735 PST INTEGRATED VALUE 274.0 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	18.74	33.537	23.970	5.45	102.2	1.6	0.23	0.1	0.00	0.22	0.06	95. A	2.1	2.3	2.2	0.08
10	18.71	33.535	23.976	5.44	101.9	1.8	0.23	0.1	0.00	0.24	0.07					
20	18.66	33.545	23.997	5.48	102.6	2.0	0.23	0.1	0.00	0.31	0.11	39.	6.6	5.9	6.3	0.08
30	17.37	33.507	24.283	5.67	103.5	2.0	0.29	0.2	0.01	0.59	0.20					
40	15.41	33.345	24.609	5.82	102.1	2.7	0.38	0.6	0.03	0.51	0.30					
51	13.55	33.350	25.007	5.28	89.2	5.4	0.66	4.7	0.12	0.38	0.28	9.3	2.6	2.5	2.5	0.04
61	12.54	33.414	25.256	4.68	77.4	8.4	0.93	9.2	0.09	0.25	0.30					
71	12.09	33.459	25.378	4.40	72.1	10.6	1.07	11.5	0.07	0.20	0.20	3.7	1.0	1.0	1.0	0.04
82	11.44	33.502	25.532	4.09	66.1	13.1	1.25	14.5	0.03	0.14	0.16					
93	10.99	33.542	25.644	3.86	61.8	14.9	1.36	16.4	0.03	0.10	0.13	1.3	0.32	0.31	0.31	0.03
109	10.35	33.631	25.826	3.48	55.0	18.5	1.57	19.7	0.01	0.04	0.07					
126	10.19	33.654	25.872	3.44	54.2	18.6	1.62	20.3	0.01	0.03	0.06	0.28	0.01	0.01	0.01	0.02

RV ROGER REVELLE

CALCOFI CRUISE 0610

STATION 90.0 90.0

LATITUDE 31 25.1 N LONGITUDE 121 59.4 W DAY/MO/YR 25/10/06 CAST TIME 1748 UTC SECCHI 28 m INCUBATION TIME 1153 - 1743 PST LAN 1152 PST CIVIL TWILIGHT 1747 PST INTEGRATED VALUE 214.8 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	18.10	33.342	23.979	5.50	101.7	1.6	0.30	0.0	0.00	0.17	0.03	90. A	3.0	3.0	3.0	0.07
11	18.09	33.341	23.981	5.50	101.7	1.6	0.30	0.1	0.00	0.19	0.01					
18	18.08	33.340	23.983	5.50	101.7	1.5	0.29	0.1	0.00	0.20	0.01	37.	3.2	3.1	3.2	0.08
30	17.99	33.338	24.004	5.51	101.7	1.5	0.28	0.1	0.00	0.23	0.00					
44	16.60	33.289	24.297	5.84	104.9	1.4	0.31	0.1	0.00	0.35	0.06	9.0	2.9	2.9	2.9	0.05
53	15.53	33.253	24.512	5.90	103.7	1.4	0.35	0.0	0.00	0.36	0.13					
61	14.21	33.234	24.781	5.69	97.4	3.1	0.46	1.3	0.16	0.62	0.26	3.5	3.1	3.1	3.1	0.04
69	13.47	33.348	25.022	5.30	89.4	4.7	0.62	4.4	0.05	0.40	0.22					
78	12.59	33.389	25.228	4.81	79.7	8.0	0.96	9.7	0.02	0.19	0.12	1.4	0.32	0.33	0.32	0.02
88	11.94	33.438	25.390	4.50	73.5	10.1	1.10	12.3	0.02	0.12	0.10					
98	11.05	33.485	25.590	4.26	68.3	12.7	1.28	15.1	0.02	0.08	0.06					
107	10.52	33.530	25.718	4.07	64.5	15.0	1.40	17.1	0.02	0.05	0.06	0.28	0.01	0.01	0.01	0.02

RV ROGER REVELLE

CALCOFI CRUISE 0610

STATION 93.3 26.7

LATITUDE 32 57.3 N LONGITUDE 117 18.3 W DAY/MO/YR 21/10/06 CAST TIME 1842 UTC SECCHI 22 m INCUBATION TIME 1145 - 1735 PST LAN 1134 PST CIVIL TWILIGHT 1735 PST INTEGRATED VALUE 342.3 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	18.77	33.496	23.931	5.59	104.8	1.5	0.25	0.1	0.01	0.26	0.06	87. A	5.3	5.2	5.2	0.23
7	18.14	33.456	24.057	5.72	105.9	1.6	0.32	0.0	0.00	0.30	0.14					
15	15.61	33.329	24.551	6.08	107.1	3.2	0.36	0.0	0.01	0.75	0.14	35.	14.1	15.3	14.7	0.19
24	13.77	33.359	24.968	5.61	95.2	5.3	0.60	1.9	0.18	1.49	0.67					
34	12.93	33.383	25.156	4.81	80.2	7.8	0.86	6.8	0.25	0.55	0.35	9.3	3.3	3.3	3.3	0.08
40	12.53	33.404	25.250	4.60	76.1	8.5	0.95	8.6	0.07	0.51	0.27					
47	12.20	33.455	25.353	4.19	68.9	10.7	1.15	11.3	0.06	0.28	0.23	3.8	0.97	0.24	0.61	0.17
54	11.86	33.497	25.450	3.78	61.7	13.4	1.32	14.3	0.10	0.14	0.22					
59	11.78	33.512	25.477	3.67	59.8	14.2	1.38	15.1	0.13	0.06	0.34	1.6	0.44	0.38	0.41	0.13

A) INCUBATION LIGHT INTENSITIES WERE 97, 39, 9.3, 3.7, 1.4, 0.28 PERCENT RESPECTIVELY.

PRIMARY PRODUCTIVITY CASTS

RV ROGER REVELLE

CALCOFI CRUISE 0610

STATION 93.3 40.0

LATITUDE 32 30.9 N LONGITUDE 118 12.8 W DAY/MO/YR 22/10/06 CAST TIME 1647 UTC SECCHI 31 m INCUBATION TIME 1145 - 1740 PST LAN 1137 PST CIVIL TWILIGHT 1742 PST INTEGRATED VALUE 237.1 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	19.05	33.516	23.876	5.46	102.9	1.7	0.23	0.1	0.00			95. A	2.8	2.7	2.7	0.10
11	18.71	33.493	23.944	5.49	102.8	2.0	0.25	0.1	0.00							
20	18.57	33.480	23.970	5.53	103.3	1.9	0.25	0.1	0.00	0.22	0.06	37.	3.0	2.8	2.9	0.11
30	17.44	33.380	24.169	5.78	105.6	2.1	0.28	0.1	0.00	0.35	0.06					
40	15.17	33.259	24.595	6.06	105.8	3.0	0.35	0.1	0.00	0.55	0.17					
48	14.23	33.284	24.815	5.82	99.7	3.4	0.46	0.3	0.02	0.83	0.47	9.3	4.9	5.2	5.1	0.09
58	12.89	33.362	25.148	5.18	86.3	6.1	0.71	5.3	0.19	0.41	0.47					
67	12.44	33.420	25.281	4.61	76.1	8.9	0.97	9.3	0.06	0.26	0.31	3.6	0.76	0.78	0.77	0.03
76	11.85	33.456	25.421	4.33	70.6	10.6	1.12	12.0	0.03	0.19	0.22					
86	11.08	33.511	25.604	3.96	63.5	13.8	1.34	15.7	0.02	0.11	0.16	1.4	0.23	0.22	0.23	0.03
102	10.57	33.620	25.779	3.44	54.6	18.1	1.58	19.3	0.01	0.06	0.08					
119	10.11	33.753	25.962	3.13	49.3	21.6	1.75	21.6	0.01	0.02	0.05	0.28	0.01	0.01	0.01	0.02

RV ROGER REVELLE

CALCOFI CRUISE 0610

STATION 93.3 80.0

LATITUDE 31 11.5 N LONGITUDE 120 53.9 W DAY/MO/YR 23/10/06 CAST TIME 1925 UTC SECCHI 35 m INCUBATION TIME 1228 - 1748 PST LAN 1148 PST CIVIL TWILIGHT 1751 PST INTEGRATED VALUE 131.4 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	19.06	33.376	23.766	5.38	101.4	1.8	0.26	0.0	0.00	0.10	0.02	92. A	1.8	1.7	1.8	0.08
13	19.02	33.374	23.776	5.38	101.3	1.8	0.26	0.0	0.00	0.12	0.01					
23	18.99	33.374	23.784	5.38	101.2	1.8	0.27	0.0	0.00	0.13	0.01	36.	1.8	1.8	1.8	0.10
39	18.96	33.372	23.790	5.38	101.2	1.8	0.26	0.0	0.00	0.12	0.04					
54	17.15	33.225	24.120	5.83	105.8	1.8	0.27	0.0	0.00	0.18	0.03	9.4	1.1	1.1	1.1	0.08
64	15.59	33.181	24.444	6.04	106.2	1.7	0.29	0.0	0.00	0.19	0.04					
75	14.57	33.215	24.691	5.92	102.0	1.9	0.30	0.0	0.00	0.23	0.13	3.7	0.77	0.85	0.81	0.05
86	14.27	33.296	24.818	5.71	97.9	2.4	0.34	0.1	0.02	0.29	0.21					
97	13.78	33.390	24.992	5.42	92.0	3.7	0.50	1.9	0.13	0.30	0.23	1.4	0.51	0.53	0.52	0.02
106	13.04	33.382	25.135	5.23	87.4	4.8	0.60	4.2	0.10	0.23	0.29					
116	11.75	33.386	25.386	4.88	79.4	7.3	0.86	8.7	0.02	0.18	0.22					
125	11.18	33.412	25.510	4.58	73.6	10.4	1.09	12.3	0.01	0.13	0.13					
134	10.89	33.423	25.570	4.52	72.2	11.1	1.12	13.0	0.01	0.15	0.12	0.28	0.04	0.04	0.04	0.02

RV ROGER REVELLE

CALCOFI CRUISE 0610

STATION 93.3 120.0

LATITUDE 29 50.9 N LONGITUDE 123 35.2 W DAY/MO/YR 24/10/06 CAST TIME 1756 UTC SECCHI 31 m INCUBATION TIME 1152 - 1800 PST LAN 1159 PST CIVIL TWILIGHT 1800 PST INTEGRATED VALUE 124.5 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	19.48	33.492	23.748	5.37	102.0	1.7	0.26	0.0	0.00	0.10	0.02	91. A	1.2	1.3	1.2	0.08
11	19.48	33.492	23.748	5.34	101.5	1.7	0.25	0.0	0.00	0.10	0.02					
20	19.48	33.493	23.750	5.33	101.3	1.6	0.24	0.0	0.00	0.11	0.02	37.	1.8	1.8	1.8	0.08
35	19.51	33.511	23.756	5.33	101.3	1.6	0.25	0.0	0.00	0.11	0.02					
49	18.95	33.451	23.854	5.53	104.0	1.6	0.24	0.0	0.00	0.16	0.04	8.8	1.5	1.5	1.5	0.08
59	16.02	33.300	24.439	5.97	106.0	1.6	0.26	0.0	0.00	0.17	0.06					
67	15.41	33.383	24.639	5.87	103.0	1.8	0.27	0.0	0.00	0.19	0.11	3.6	1.0	1.1	1.0	0.04
77	15.69	33.599	24.743	5.79	102.3	1.9	0.24	0.0	0.00	0.23	0.13					
86	15.41	33.679	24.867	5.68	99.8	2.1	0.30	0.0	0.01	0.31	0.13	1.4	0.50	0.55	0.53	0.02
97	15.35	33.820	24.990	5.49	96.5	2.3	0.29	0.0	0.06	0.24	0.30					
108	14.76	33.798	25.101	5.35	92.9	3.1	0.34	1.3	0.09	0.19	0.25					
119	14.02	33.751	25.222	5.18	88.6	4.0	0.48	3.4	0.03	0.13	0.21	0.28	0.08	0.10	0.09	0.02

A) INCUBATION LIGHT INTENSITIES WERE 97, 39, 9.3, 3.7, 1.4, 0.28 PERCENT RESPECTIVELY.