PRIMARY PRODUCTIVITY CASTS

RV DAVID STARR JORDAN — CALCOFI CRUISE 0704 — STATION 80.0 80.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
33 29.3 N	122 30.8 W	14/04/07	2017 UTC	14 m	1255 - 1909 PST	1210 PST	1908 PST	203.8 mg C/m2

DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	LIGHT PCT	UPTAKE (mg C/m3) 1	2	MEAN	DARK
2	13.49	33.259	24.947	6.12	103.2	2.8	0.42	1.0	0.09	0.52	0.11	80. A	6.2	6.1	6.1	0.09
8	13.48	33.259	24.949	6.11	103.0	2.8	0.47	1.1	0.09	0.55	0.08	42.	8.5	7.9	8.2	0.07
19	13.40	33.263	24.969	6.13	103.2	2.6	0.43	1.0	0.09	0.70	0.06	12.	5.8	5.5	5.7	0.12
27	13.10	33.335	25.085	6.18	103.4	2.8	0.49	2.1	0.12	0.67	0.20	5.2	3.6	3.7	3.6	0.10
34	13.05	33.342	25.100	6.19	103.5	2.9	0.49	2.3	0.13	0.71	0.22	2.4	1.6	1.5	1.6	0.06
54	12.71	33.425	25.232	6.09	101.1	2.7	0.60	3.3	0.21	0.39	0.19	0.27	0.07	0.11	0.09	0.03

RV DAVID STARR JORDAN — CALCOFI CRUISE 0704 — STATION 81.8 46.9

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
34 16.7 N	120 1.5 W	13/04/07	1848 UTC	11 m	1203 - 1900 PST	1201 PST	1859 PST	1411.5 mg C/m2

DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	LIGHT PCT	UPTAKE (mg C/m3) 1	2	MEAN	DARK
2	13.03	33.746	25.416	5.23	87.6	10.9	0.95	10.6	0.56	4.32	0.27	76.A	81.7	81.5	81.6	0.30
7	12.09	33.748	25.600	4.77	78.4	12.7	1.13	12.1	0.56	4.82	0.46	38.	89.0	91.2	90.1	0.28
15 B	11.76	33.749 D	25.663	4.45 D	72.6							12.	41.1	38.5	39.8	0.24
22	11.59	33.753	25.698	4.18	67.9	15.9	1.36	15.5	0.35	2.88	0.34	4.6	17.3	21.5	19.4	0.13
28	11.23	33.771	25.778	3.82	61.6	18.5	1.54	17.8	0.27	1.09	0.23	2.0	3.8	3.0	3.4	0.09
42	9.96	33.930	26.124	2.38	37.4	27.2	2.02	24.9	0.03	0.04	0.18	0.28	0.00	0.00	0.00	0.04

B) 15 METER PRIMARY PRODUCTIVITY SAMPLE WAS DRAWN FROM THE 7 METER BOTTLE DUE TO SURFACE BOTTLE NON-CLOSURE AND INCUBATED AT THE 12% LIGHT LEVEL.

RV DAVID STARR JORDAN — CALCOFI CRUISE 0704 — STATION 83.3 70.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
33 14.6 N	121 26.6 W	11/04/07	1825 UTC	14 m	1203 - 1856 PST	1207 PST	1856 PST	333.0 mg C/m2

DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	LIGHT PCT	UPTAKE (mg C/m3) 1	2	MEAN	DARK
1 B	13.14	33.423 D	25.144	6.15 D	103.1							90.A	10.1	10.1	10.1	0.08
8	13.14	33.423	25.144	6.05	101.4	3.7	0.53	2.8	0.15	0.73	0.21	42.	13.5	12.9	13.2	0.09
11	13.12	33.424	25.149	6.07	101.7	3.6	0.53	2.8	0.15	0.75	0.22					
19	13.13	33.424	25.147	6.06	101.5	3.8	0.53	2.8	0.15	0.74	0.22	12.	9.8	9.8	9.8	0.10
28	13.09	33.424	25.156	6.06	101.5	3.7	0.53	2.8	0.15	0.80	0.24	4.6	5.2	5.7	5.4	0.09
34	13.08	33.424	25.158	6.05	101.3	3.6	0.53	2.8	0.15	0.80	0.24	2.4	2.3	2.2	2.3	0.07
45	12.68	33.443	25.251	5.81	96.4	4.5	0.67	4.5	0.27	0.50	0.22					
54	12.07	33.557	25.457	4.96	81.3	8.9	1.03	10.6	0.25	0.11	0.12	0.27	0.03	0.04	0.04	0.06

B) SURFACE PRIMARY PRODUCTIVITY SAMPLE WAS DRAWN FROM THE 8 METER BOTTLE DUE TO SURFACE BOTTLE NON-CLOSURE AND INCUBATED AT THE 90% LIGHT LEVEL.

RV DAVID STARR JORDAN — CALCOFI CRUISE 0704 — STATION 83.3 90.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
32 34.5 N	122 48.7 W	10/04/07	1848 UTC	15 m	1204 - 1933 PST	1213 PST	1900 PST	244.9 mg C/m2

DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	LIGHT PCT	UPTAKE (mg C/m3) 1	2	MEAN	DARK
2	13.92	33.403	24.970	6.17	105.1	3.4	0.39	0.8	0.05	0.44	0.09	81. A	6.5	6.5	6.5	0.09
8	13.91	33.401	24.971	6.16	104.9	3.3	0.39	0.7	0.05	0.46	0.10	44.	9.6	9.3	9.4	0.08
10	13.90	33.401	24.973	6.17	105.0	3.1	0.39	0.7	0.05	0.46	0.11					
21	13.82	33.404	24.992	6.16	104.7	3.2	0.39	0.8	0.06	0.47	0.12	12.	6.4	6.8	6.6	0.09
28	13.46	33.431	25.087	6.21	104.8	3.2	0.44	1.4	0.08	0.61	0.16	5.7	4.1	4.3	4.2	0.07
38	13.14	33.438	25.157	6.08	101.9	3.4	0.51	2.1	0.13	0.52	0.22	2.0	1.4	1.3	1.4	0.05
49	12.73	33.398	25.207	5.95	98.8	3.9	0.55	2.8	0.19	0.33	0.17					
58	11.80	33.341	25.340	5.49	89.4	7.0	0.83	7.8	0.04	0.15	0.12	0.26	0.04	0.05	0.04	0.04

A) INCUBATION LIGHT INTENSITIES WERE 96, 45, 13, 5.4, 2.4, 0.26 PERCENT RESPECTIVELY.

PRIMARY PRODUCTIVITY CASTS

RV DAVID STARR JORDAN — CALCOFI CRUISE 0704 — STATION 86.7 40.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
33 39.6 N	118 58.4 W	07/04/07	1929 UTC	21 m	1238 - 1848 PST	1158 PST	1849 PST	314.0 mg C/m2

DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	LIGHT PCT	UPTAKE (mg C/m3) 1	2	MEAN	DARK
2 B	14.96	33.559 D	24.871	6.09 D	106.0							86. A	4.3	4.9	4.6	0.10
11	14.86	33.559	24.893	6.04	105.0	2.6	0.33	0.0	0.01	0.35	0.11	45.	7.7	7.7	7.7	0.10
20	14.65	33.555	24.935	6.03	104.3	2.6	0.34	0.0	0.01	0.38	0.14					
28	14.24	33.556	25.023	5.96	102.3	2.9	0.38	0.4	0.06	0.58	0.25	13.	8.1	8.1	8.1	0.10
40	12.75	33.540	25.313	4.94	82.2	7.1	0.83	7.1	0.19	0.61	0.42	5.4	4.2	4.3	4.2	0.07
51	12.00	33.552	25.466	4.34	71.1	10.6	1.10	11.7	0.08	0.36	0.26	2.4	0.87	0.91	0.89	0.04
66	10.87	33.626	25.731	3.71	59.3	16.0	1.45	17.2	0.04	0.08	0.09					
81	10.13	33.751	25.957	3.17	49.9	21.3	1.72	21.3	0.01	0.01	0.10	0.27	0.00	0.00	0.00	0.02

B) SURFACE PRIMARY PRODUCTIVITY SAMPLE WAS DRAWN FROM THE 11 METER BOTTLE DUE TO SURFACE BOTTLE NON-CLOSURE AND INCUBATED AT THE 86% LIGHT LEVEL.

RV DAVID STARR JORDAN — CALCOFI CRUISE 0704 — STATION 86.7 70.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
32 39.2 N	121 2.2 W	08/04/07	1953 UTC	10 m	1251 - 1857 PST	1206 PST	1856 PST	136.4 mg C/m2

DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	LIGHT PCT	UPTAKE (mg C/m3) 1	2	MEAN	DARK
2	14.22	33.471	24.961	6.05	103.7	2.8	0.35	0.1	0.02	0.60	0.15	74. A	7.1	7.4	7.2	0.09
5	14.21	33.471	24.963	6.08	104.2	2.8	0.35	0.1	0.02	0.58	0.13	46.	9.1	8.8	8.9	0.10
14	14.20	33.471	24.965	6.08	104.2	2.7	0.34	0.1	0.02	0.57	0.13	12.	5.5	5.6	5.6	0.11
19	14.18	33.471	24.969	6.06	103.8	2.6	0.36	0.1	0.02	0.58	0.15	5.4	2.4	2.5	2.5	0.10
24	14.15	33.471	24.976	6.07	103.9	2.5	0.34	0.2	0.02	0.61	0.14	2.5	0.50	0.62	0.56	0.11
32	14.03	33.469	25.000	6.03	103.0	2.6	0.37	0.3	0.04	0.62	0.15					
40	13.59	33.466	25.088	6.08	102.9	2.7	0.41	0.9	0.08	0.64	0.21	0.22	0.02	0.05	0.03	0.08

RV DAVID STARR JORDAN — CALCOFI CRUISE 0704 — STATION 86.7 100.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
31 38.9 N	123 5.2 W	09/04/07	1652 UTC	25 m	1216 - 1906 PST	1214 PST	1905 PST	130.5 mg C/m2

DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	LIGHT PCT	UPTAKE (mg C/m3) 1	2	MEAN	DARK
2	15.25	33.368	24.660	5.85	102.3	1.8	0.31	0.0	0.00	0.11	0.02	88. A	1.8	1.8	1.8	0.07
11	15.24	33.370	24.664	5.86	102.5	1.8	0.30	0.0	0.00	0.12	0.03					
13	15.24	33.369	24.664	5.85	102.3	1.7	0.30	0.0	0.00	0.12	0.03	45.	2.4	2.4	2.4	0.06
23	15.24	33.377	24.670	5.85	102.3	1.7	0.30	0.0	0.00	0.12	0.03					
34	15.14	33.380	24.695	5.88	102.6	1.7	0.30	0.0	0.00	0.13	0.03	12.	1.7	1.8	1.8	0.06
40	14.70	33.323	24.746	5.96	103.1	1.7	0.31	0.0	0.00	0.17	0.05					
47	14.40	33.287	24.782	6.00	103.1	1.8	0.32	0.0	0.00	0.27	0.11	5.6	1.7	1.7	1.7	0.08
54	14.20	33.287	24.824	6.00	102.7	1.8	0.33	0.0	0.00	0.30	0.11					
61	13.77	33.245	24.881	6.05	102.6	1.8	0.34	0.1	0.01	0.44	0.25	2.4	0.96	1.1	1.0	0.06
72	13.31	33.254	24.981	5.84	98.1	2.4	0.44	1.0	0.31	0.54	0.31					
85	13.15	33.334	25.076	5.70	95.5	3.1	0.50	2.5	0.15	0.31	0.20					
96	12.63	33.388	25.220	5.53	91.7	4.2	0.64	4.9	0.03	0.07	0.06	0.28	0.03	0.03	0.03	0.02

RV DAVID STARR JORDAN — CALCOFI CRUISE 0704 — STATION 90.0 37.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
33 10.7 N	118 24.0 W	06/04/07	1732 UTC	23 m	1201 - 1840 PST	1155 PST	1840 PST	534.6 mg C/m2

DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	LIGHT PCT	UPTAKE (mg C/m3) 1	2	MEAN	DARK
2	15.53	33.548	24.737	5.84	102.8	1.7	0.32	0.0	0.00	0.24	0.04	88. A	5.6	5.7	5.7	0.05
12	15.50	33.549	24.745	5.85	103.0	1.7	0.32	0.0	0.00	0.27	0.04	45.	7.1	6.9	7.0	0.06
22	15.26	33.542	24.793	5.91	103.5	1.9	0.32	0.0	0.00	0.32	0.07					
31	14.43	33.525	24.959	5.85	100.7	2.5	0.39	0.4	0.03	1.63	0.41	13.	18.7	19.6	19.2	0.07
38	14.09	33.524	25.030	5.64	96.4	3.4	0.48	1.8	0.11	0.95	0.43					
44	13.87	33.521	25.073	5.51	93.8	3.9	0.54	2.6	0.15	0.74	0.43	5.3	5.5	5.0	5.3	0.06
56	13.34	33.608	25.249	5.28	88.9	6.1	0.72	4.9	0.35	0.34	0.15	2.4	0.86	0.88	0.87	0.05
72	12.03	33.597	25.496	4.32	70.8	10.8	1.13	12.2	0.14	0.10	0.13					
89	11.25	33.649	25.681	3.73	60.1	15.1	1.41	16.4	0.03	0.06	0.14	0.26	0.01	0.00	0.01	0.03

A) INCUBATION LIGHT INTENSITIES WERE 96, 45, 13, 5.4, 2.4, 0.26 PERCENT RESPECTIVELY.

PRIMARY PRODUCTIVITY CASTS

RV DAVID STARR JORDAN — CALCOFI CRUISE 0704 — STATION 90.0 70.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
32 3.8 N	120 39.1 W	05/04/07	1705 UTC	16 m	1205 - 1846 PST	1205 PST	1846 PST	117.2 mg C/m2

DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	LIGHT PCT	UPTAKE (mg C/m3) 1	2	MEAN	DARK
2	14.56	33.432	24.859	5.94	102.5	1.9	0.31	0.0	0.00	0.22	0.05	83. A	2.6	2.9	2.8	0.08
8	14.56	33.433	24.860	5.96	102.9	1.9	0.31	0.0	0.00	0.23	0.05	46.	4.3	4.3	4.3	0.07
15	14.54	33.433	24.864	5.95	102.6	1.8	0.32	0.0	0.00	0.22	0.06					
22	14.55	33.433	24.862	5.94	102.5	1.8	0.32	0.0	0.00	0.24	0.06	12.	3.0	2.9	2.9	0.08
30	14.54	33.433	24.865	5.94	102.5	1.8	0.32	0.0	0.00	0.24	0.06	5.6	1.2	1.3	1.3	0.08
40	14.00	33.421	24.969	6.07	103.5	2.3	0.35	0.1	0.03	0.64	0.19	2.2	0.97	0.93	0.95	0.08
50	13.90	33.482	25.037	6.11	104.0	2.6	0.37	0.3	0.04	0.63	0.23					
62	13.01	33.404	25.157	5.83	97.4	3.2	0.52	2.4	0.22	0.72 B	0.29 B	0.26	0.11	0.16	0.13	0.04

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

RV DAVID STARR JORDAN — CALCOFI CRUISE 0704 — STATION 90.0 100.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
31 4.8 N	122 39.8 W	04/04/07	1954 UTC	21 m	1250 - 1854 PST	1214 PST	1854 PST	119.2 mg C/m2

DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	LIGHT PCT	UPTAKE (mg C/m3) 1	2	MEAN	DARK
2	14.51	33.297	24.765	5.96	102.7	2.1	0.33	0.1	0.00	0.15	0.04	86. A	4.3	3.1	3.7	0.06
12	14.48	33.301	24.775	5.94	102.3	2.1	0.32	0.0	0.00	0.15	0.04	42.	2.6	2.0	2.3	0.06
16	14.38	33.289	24.787	5.96	102.4	2.1	0.32	0.0	0.00	0.19	0.05					
20	14.31	33.281	24.796	5.98	102.6	2.1	0.33	0.0	0.00	0.22	0.06					
29	14.12	33.274	24.830	6.03	103.0	2.3	0.35	0.1	0.01	0.33	0.17	12.	3.0	3.0	3.0	0.07
40	14.05	33.275	24.846	6.04	103.0	2.3	0.35	0.1	0.01	0.34	0.11	5.4	1.2	1.3	1.3	0.06
45	14.01	33.278	24.857	6.05	103.1	2.4	0.35	0.1	0.02	0.34	0.11					
50	14.01	33.279	24.857	6.05	103.1	2.4	0.35	0.1	0.02	0.34	0.12	2.6	0.27	0.33	0.30	0.08
65	13.95	33.286	24.876	6.05	103.0	2.5	0.36	0.2	0.03	0.38	0.12					
75	13.66	33.288	24.937	6.00	101.5	2.6	0.39	0.3	0.11	0.41	0.16					
80	13.31	33.262	24.988	5.84	98.1	2.8	0.44	1.0	0.27	0.37	0.19	0.29	0.03	0.06	0.04	0.03

RV DAVID STARR JORDAN — CALCOFI CRUISE 0704 — STATION 93.3 35.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
32 40.5 N	117 52.1 W	28/03/07	2004 UTC	16 m	1304 - 1835 PST	1157 PST	1835 PST	324.5 mg C/m2

DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	LIGHT PCT	UPTAKE (mg C/m3) 1	2	MEAN	DARK
3	14.73	33.568	24.927	5.98	103.6	2.2	0.35	0.0	0.02	0.53	0.18	75. A	8.0	8.2	8.1	0.12
8	14.64	33.572	24.950	5.99	103.6	2.2	0.33	0.0	0.02	0.60	0.20	46.	12.5	12.4	12.4	0.15
11	14.61	33.566	24.952	5.99	103.6	2.2	0.33	0.0	0.01	0.61	0.21					
14	14.60	33.566	24.954	5.99	103.5	1.6	0.33	0.0	0.01	0.63	0.22					
21	14.58	33.566	24.958	5.99	103.5	1.7	0.33	0.0	0.01	0.68	0.25	13.	9.5	8.8	9.2	0.18
31	14.56	33.566	24.963	5.97	103.1	1.7	0.33	0.0	0.02	0.74	0.25	5.1	4.7	4.6	4.6	0.10
39	14.52	33.564	24.970	5.95	102.7	1.8	0.34	0.1	0.03	0.73	0.28	2.4	1.3	1.4	1.3	0.08
50	13.59	33.539	25.145	5.53	93.6	3.7	0.55	2.4	0.37	0.80	0.40					
52	13.53	33.538	25.156	5.50	93.0	3.9	0.58	2.6	0.40	0.81	0.40					
62	13.11	33.555	25.254	5.07	85.0	6.0	0.77	5.4	0.52	0.45	0.29	0.26	0.08	0.10	0.09	0.05

RV DAVID STARR JORDAN — CALCOFI CRUISE 0704 — STATION 93.3 70.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
31 30.4 N	120 15.4 W	02/04/07	1714 UTC	21 m	1205 - 1849 PST	1205 PST	1848 PST	235.3 mg C/m2

DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	LIGHT PCT	UPTAKE (mg C/m3) 1	2	MEAN	DARK
2	15.04	33.465	24.781	5.87	102.3	2.0	0.30	0.0	0.00	0.16	0.03	86. A	1.6	1.6	1.6	0.08
12	15.03	33.464	24.783	5.87	102.3	1.9	0.30	0.0	0.00	0.17	0.03	42.	3.1	3.0	3.0	0.06
21	15.01	33.463	24.786	5.87	102.2	1.8	0.30	0.0	0.00	0.16	0.03					
29	13.85	33.297	24.904	6.15	104.5	2.2	0.36	0.0	0.00	0.33	0.09	12.	4.9	4.7	4.8	0.12
40	13.65	33.281	24.933	6.08	102.9	2.3	0.35	0.0	0.03	0.71	0.24	5.4	6.7	6.7	6.7	0.08
51	13.63	33.426	25.049	5.93	100.4	2.5	0.42	0.7	0.11	0.57	0.23	2.4	2.0	1.9	2.0	0.08
66	12.85	33.388	25.176	5.85	97.4	3.7	0.56	2.3	0.37	0.29	0.18					
81	12.93	33.517	25.261	5.71	95.3	4.0	0.63	3.4	0.48	0.21	0.13	0.27	0.13	0.09	0.11	0.05

RV DAVID STARR JORDAN — CALCOFI CRUISE 0704 — STATION 93.3 110.0

LATITUDE	LONGITUDE	DAY/MO/YR	CAST TIME	SECCHI	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
30 10.8 N	122 55.2 W	03/04/07	1824 UTC	29 m	1205 - 1856 PST	1215 PST	1858 PST	192.2 mg C/m2

DEPTH m	TEMP DEG C	SALINITY	SIGMA THETA	OXYGEN ml/l	OXY PCT	SIO3 uM/l	PO4 uM/l	NO3 uM/l	NO2 uM/l	CHL-A ug/l	PHAEO ug/l	LIGHT PCT	UPTAKE (mg C/m3) 1	2	MEAN	DARK
2	15.09	33.330	24.666	5.86	102.2	1.9	0.31	0.0	0.00	0.12	0.03	90. A	2.3	1.9	2.1	0.06
15	14.94	33.328	24.697	5.87	102.0	1.9	0.31	0.0	0.00	0.13	0.03	45.	2.5	2.6	2.5	0.07
27	14.95	33.338	24.703	5.86	101.9	1.9	0.31	0.0	0.00	0.13	0.03					
39	14.53	33.299	24.764	5.92	102.0	1.8	0.32	0.0	0.00	0.21	0.07	13.	2.6	2.7	2.7	0.10
47	14.48	33.286	24.764	5.92	101.9	2.0	0.31	0.0	0.00	0.27	0.10					
55	14.48	33.290	24.768	5.91	101.7	1.8	0.31	0.0	0.00	0.31	0.13	5.4	2.4	2.3	2.3	0.06
63	14.45	33.291	24.775	5.88	101.1	1.8	0.33	0.0	0.01	0.37	0.17					
70	15.12	33.500	24.793	5.78	100.9	1.7	0.32	0.1	0.03	0.34	0.20	2.5	1.3	1.4	1.3	0.04
84	16.44	33.972	24.860	5.60	100.6	1.5	0.22	0.0	0.00	0.27	0.13					
98	15.59	33.847	24.957	5.54	97.8	2.0	0.27	0.4	0.07	0.25	0.25					
111	14.06	33.630	25.120	5.45	93.2	3.0	0.44	2.0	0.07	0.18	0.22	0.28	0.12	0.09	0.10	0.02

A) INCUBATION LIGHT INTENSITIES WERE 96, 45, 13, 5.4, 2.4, 0.26 PERCENT RESPECTIVELY.