Cruise name: KM0715
Purpose: August 2007 CMORE-II cruies (Bloomers)

Event #	Date (GMT)	Day of year (GMT)	Time (GMT)	Station #	Lat N Deg	Min	Long E Deg	min	Activity	Lon E Deg.dec
1	10-Aug	222	3:30	1	22	45.036	-158	0.102	Weight cast	-158.002
2	10-Aug	222	4:00	1	22	45.036	-158	0.102	CTD cast # 1 (200m) Station ALOHA	-158.002
3	10-Aug	222	10:40	1	22	44.984	-157	59.867	Sediment trap deployment Array #1	-157.998
4	10-Aug	222	10:21	1	22	47.148	-158	0.33	MVP Deployment	-158.006
5	10-Aug	222	18:14	2	23	44.706	-158	59.541	CTD cast # 1 (200m) Station 2 Looking for blooms	-158.992
6	10-Aug	222	20:44	3	23	44.985	-159	10.221	CTD cast # 1 (200m) Station 3	-159.17
7	10-Aug	222	20:50	3	23	44.979	-159	10.206	Net tow /A White	-159.17
8	10-Aug	222	21:25	3	23	44.972	-159	10.118	Net tow /Edwin	-159.169
9	10-Aug	222	23:11	4	23	43.982	-159	20.98	CTD cast #1 (200m) exploratory for blooms	-159.35
10	10-Aug	222	23:10	4	23	43.982	-159	20.98	Net tow /A White	-159.35
11	10-Aug	222	23:40	4	23	43.982	-159	20.98	Net tow /Edwin	-159.35
12	11-Aug	223	1:29	5	23	45.008	-159	11.41	Sediment trap deployment Array #2 /"Bloom" region	-159.19
13	11-Aug	223	3:10	5	23	44.295	-159	10.577	Cyanocage /Optics cast	-159.176
14	11-Aug	223	4:10	5	23	44.292	-159	10.573	CTD cast # 1 Bloom Station	-159.176
15	11-Aug	223	6:24	5	23	44.269	-159	10.546	CTD cast # 2 (200m) Samples at 45m for Long term mixing experiment	-159.176
16	11-Aug	223	7:44	5	23	44.225	-159	10.473	CTD cast # 3 (500M)	-159.175
17	11-Aug	223	9:19	5	23	44.204	-159	10.433	CTD cast #4 (1000m)	-159.174
18	11-Aug	223	13:54	5	23	46.331	-159	11.94	CTD cast #5 (200m) Primary Productivity cast	-159.199
19	11-Aug	223	15:06	5	23	46.334	-159	11.939	CTD cast #6 (700m)	-159.199
20	11-Aug	223	16:51	5	23	45.975	-159	11.914	CTD cast #7 (200m) Core cast A	-159.199
21	11-Aug	223	18:15	5	23	45.966	-159	11.908	Cyanocage /Optics cast	-159.198
22	11-Aug	223	19:27	5	23	46.072	-159	12.006	MIT Trace metals cast (220m, 160m, 80m, 60m)	-159.2
23	11-Aug	223	20:31	5	23	46.173	-159	12.206	CTD cast #8 (200M) Core cast B	-159.203
24	11-Aug	223	22:10	5	23	46.397	-159	13.646	Cyanocage /Optics cast	-159.227
25	11-Aug	223	23:00	5	23	46.325	-159	13.613	MIT ATE Trace metals cast (shallow waters)	-159.227
26	12-Aug	224	1:00	5	23	47.274	-159	13.866	Seaglider #114 deployment	-159.231
27	12-Aug	224	0:47	5	23	47.274	-159	13.854	Net tow /Edwin	-159.231
28	12-Aug	223	16:12	5	23	46.333	-159	11.939	Primary Prod Deployment (event # recorded as recovery)	-159.199
29	12-Aug	224	6:12	5	23	49.598	-159	13.842	CTD cast #9 (200m)	-159.231
30	12-Aug	224	7:33	5	23	49.595	-159	13.833	CTD cast #10 (500m)	-159.231
31	12-Aug	224	13:02	5	23	50.485	-159	14.412	CTD cast #11 (200m) Gas array	-159.24
32	12-Aug	224	16:00	5	23	50.472	-159	14.367	Gas Array Deployment #1	-159.239
33	12-Aug	224	17:15	5	23	51.129	-159	14.21	CTD cast #12 (200m / Kolber Cast)	-159.237
34	12-Aug	224	18:35	5	23	51.129	-159	14.211	CTD cast #13 (500m / Tracy's cast)	-159.237
35	12-Aug	224	20:17	5	23	51.429	-159	14.254	CTD cast #14 (200m / Lucas)	-159.238
36	12-Aug	224	21:50	5	23	51.586	-159	14.423	Cyanocage /Optics cast	-159.24
37	12-Aug	224	23:23	5	23	51.638	-159	14.542	CTD cast #15 (500m / Delong/Chisholm)	-159.242
38	13-Aug	225	0:47	5	23	52.526	-159	16.085	CTD cast #16 (200m / Repeta DOM)	-159.268
39	13-Aug	225	4:05	5	23	52.525	-159	16.086	CTD cast #17 (200m /Zehr DNA Sims)	-159.268
40	13-Aug	225	6:05	5	23	52.523	-159	16.086	CTD cast #18 (200m / Kolber)	-159.268
41	13-Aug	225	5:45	5	23	52.53	-159	16	Net tow /Ben Li	-159.267
42	13-Aug	225	14:07	5	23	56.734	-159	14.657	CTD cast #19 (700m) DeLong/Chisholm mixing exp #2	-159.244
NN	13-Aug	225	16:30	5	23	56.7	-159	15.6	Gas Array Recovery #1	-159.26

43	13-Aug	225	17:14	5	23	56.579	-159	16.103	CTD cast #20 (200m / Kolber)	-159.268
44	13-Aug	225	19:05	5	23	56.58	-159	16.107	CTD cast #21 (1000m) Tracy, Fong, Hank	-159.268
45	13-Aug	225	22:56	6	23	59.849	-159	0.643	CTD cast #1 (300 m) Transect Station #1	-159.011
46	14-Aug	226	1:11	7	23	59.97	-158	49.088	CTD cast #1 (300 m) Transect Station #2	-158.818
47	14-Aug	226	2:59	8	23	59.996	-158	38.688	CTD cast #1 (300 m) Transect Station #3	-158.645
48	14-Aug	226	5:06	9	24	0.03	-158	27.76	CTD cast #1 (300 m) Transect Station #4	-158.463
49	14-Aug	226	6:55	10	24	0.03	-158	16.187	CTD cast #1 (300 m) Transect Station #5	-158.27
50	14-Aug	226	9:08	11	24	0.016	-158	5.374	CTD cast #1 (300 m) Transect Station #6	-158.09
51	14-Aug	226	11:13	12	23	59.981	-157	54.212	CTD cast #1 (300 m) Transect Station #7	-157.904
52	14-Aug	226	13:21	13	24	0.022	-157	43.078	CTD cast #1 (300 m) Transect Station #8	-157.718
53	14-Aug	226	15:41	14	23	59.967	-157	31.998	CTD cast #1 (300 m) Transect Station #9	-157.533
54	14-Aug	226	17:51	15	23	59.909	-157	21.044	CTD cast #1 (300 m) Transect Station #10	-157.351
55	14-Aug	226	19:55	16	24	0.035	-157	10.1	CTD cast #1 (300 m) Transect Station #11	-157.168
56	14-Aug	226	21:26	17	23	59.979	-156	59.013	CTD cast #1 (300 m) Transect Station #12	-156.984
57	15-Aug	227	4:08	18	24	0.008	-156	0.017	CTD cast #1 (300 m) Transect Station #10	-156
58	15-Aug	227	4:35	18	23	59.977	-156	0.003	Cyanocage /Optics cast	-156
59	15-Aug	227	5:30	18	23	59.976	-156	0.004	MIT Trace metals cast (220m, 160m, 80m, 60m)	-156
60	15-Aug	227	6:30	18	23	59.976	-156	0.004	MIT ATE Trace metals cast (shallow waters)	-156
61	15-Aug	227	6:57	18	23	59.963	-156	0.013	CTD cast #2 (1000 m)	-156
62	15-Aug	227	22:36	19	23	11.06	-159	3.636	CTD cast #1 (1000 m) Return to the location of first sediment trap array	-159.061
63	16-Aug	228	0:00	19	23	11.094	-159	3.635	Cyanocage /Optics cast	-159.061
64	16-Aug	228	0:55	19	23	12.1	-159	3.637	MIT Trace metals cast (220m, 160m, 80m, 60m)	-159.061
65	16-Aug	228	1:27	19	23	12.1	-159	3.637	MIT ATE Trace metals cast (shallow waters)	-159.061
66	16-Aug	228	1:05	19	23	11.109	-159	3.636	Net tow /A White	-159.061
67	16-Aug	228	2:39	19	23	11.089	-159	3.638	CTD cast #2 (4000 m)	-159.061
68	16-Aug	228	6:45	19	23	11.117	-159	3.643	CTD cast #3 (300m) Kolber	-159.061
69	16-Aug	228	8:25	19	23	11.172	-159	3.643	CTD cast #4 (500m) Core Cast A	-159.061
70	16-Aug	228	12:38	19	23	12.886	-159	8.169	CTD cast #5 (200m) Primary Productivity cast	-159.136
71	16-Aug	228	14:02	19	23	12.88	-159	8.17	CTD cast #6 (700m) dElONG/Chisholm mixing experiment cast	-159.136
72	16-Aug	228	15:35	19	23	13.176	-159	8.167	Primary Prod Deployment #2	-159.136
73	16-Aug	228	16:16	19	23	12.8	-159	8.223	CTD cast #7 (200m) Size Fractionation / Zehr	-159.137
74	16-Aug	228	18:01	19	23	12.813	-159	8.221	CTD cast #8 (300m) Kolber cast	-159.137
75	16-Aug	228	19:15	19	23	12.811	-159	8.16	CTD cast #9 (500m) Tracy/Alli/Kory samples	-159.136
76	16-Aug	228	20:47	19	23	12.856	-159	8.696	CTD cast #10 (200m) Core cast B (chl a, Psi,PPO4,32P,DIC,HPLC,nuts)	-159.145
77	16-Aug	228	22:00	19	23	12.814	-159	8.636	Cyanocage /Optics cast	-159.144
78	16-Aug	228	23:05	19	23	12.819	-159	8.637	Net tow /A White	-159.144
79	17-Aug	229	0:05	19	23	13.106	-159	10.623	CTD cast #11 (500m) Core cast C (Psi,PvsE,ATP, Alli, FCM, Li)	-159.177
80	17-Aug	229	4:50	19	23	13.055	-159	17.141	Recovery of Primary Productivity array (Deployment 2)	-159.286
81	17-Aug	229	6:37	19	23	13.014	-159	10.671	CTD cast #12 (300m / Kolber Cast)	-159.178
82	17-Aug	229	8:15	19	23	13.05	-159	10.615	CTD cast #13 (500m / Long term mixing experiment #2)	-159.177
83	17-Aug	229	12:37	19	23	12.808	-159	10.651	CTD cast #14 (200 m) Gas Array	-159.178
84	17-Aug	229	16:08	19	23	10.811	-159	16.636	Gas Array Deployment #2	-159.277
85	17-Aug	229	17:01	19	23	10.308	-159	17.132	CTD cast #15 (300m / Kolber)	-159.286
86	17-Aug	229	18:53	19	23	10.125	-159	17.835	CTD cast #16 (1000m) Tracy, Donn, Alli samples	-159.297
87	17-Aug	229	22:28	19	23	10.125	-159	17.835	Cyanocage /Optics cast	-159.297
88	17-Aug	229	23:30	19	23	9.856	-159	19.923	CTD cast #17 (500m) Karen, MIT, Zehr, Li	-159.332
89	18-Aug	230	3:05	19	23	10.245	-159	23.901	CTD cast #18 (250m) MIT DeLong/Chisholmmixing exp, Li, OSU PPO4	-159.398
90	18-Aug	230	4:45	19	23	10.245	-159	23.901	Net tow /Edwin	-159.398
91	18-Aug	230	5:40	19	23	9.359	-159	25.533	CTD cast #19 (1000m) Kolber, Repeta, Kory	-159.426

92	18-Aug	230	16:00	19	23	6.503	-159	33.515	Gas Array Recovery #2	-159.559
93	18-Aug	230	17:12	19	23	6.5	-159	36.515	CTD cast #20 (300m) Kolber	-159.609
94	18-Aug	230	18:34	19	23	6.369	-159	37.179	CTD cast #21 (300m) MIT Delong/Chisholm, Karen	-159.62
95	18-Aug	230	19:15	19	23	6.367	-159	37.157	Cyanocage /Optics cast	-159.619
96	18-Aug	230	20:10	19	23	6.367	-159	37.157	CTD cast #22 (1000m) Tracy, Donn, Kory	-159.619
97	18-Aug	230	22:50	19	23	4.368	-159	39.063	Sediment trap array #1 recovery	-159.651
98	18-Aug	230	23:10	19	23	4.368	-159	39.063	Cyanocage /Optics cast	-159.651
99	19-Aug	231	7:30	20	24	25.63	-159	7.006	CTD cast #1 (1000 m) Return to the location of second sediment trap array	-159.117
100	19-Aug	231	8:40	20	24	25.627	-159	6.972	MIT Trace metals cast (220m, 160m, 80m, 60m)	-159.116