

CTD Log Sheet

cruise: 415-3	type: CTD	station: Test CTD 1	
leg: 3	cast # 415001	depth: 200	

Position Information

New O₂ probe is primary O₂
old O₂ is secondary

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	7-Aug-05	1829	31 36.54	153 38.92	CTD	Test cast
On Deck	"	1855	31 36.68	153 38.75		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		↑	208	1850		
2	23		↑				
3	22						
4	21						
5	20						
6	19						
7	18						
8	17						
9	16						
10	15						
11	14						
12	13						
13	12						
14	11						
15	10						
16	9						
17	8						
18	7						
19	6			202	1847		
20	5						
21	4						
22	3						
23	2			202			
24	1		200	202	1846		

CTD Log Sheet

cruise: 0415-3	type:	station: 2
leg: 3	cast #: 0415002	depth: 700

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	8/9/05	1109	30 10.742	67 57.115	CTD	Grid 2073
On Deck	8/9/05	1144	30 10.954	67 56.785		Eddy Center

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	2	1143	25.377	
2	23		0	2		25.376	
3	22		20	20	1142	25.210	
4	21		20	20		25.218	
5	20		40	40	1140	21.424	
6	19		40	40			
7	18		60	60	1139	19.542	
8	17		60	60			
9	16		70	70	1138	19.275	
10	15		70	70		19.275	
11	14		80	80	1137		
12	13		80	80		19.205	
13	12		90	90	1136	19.174	
14	11		100	100	1135	19.108	
15	10		100	100		19.112	
16	9		110	110	1134	19.070	
17	8		120	120	1134	1	
18	7		120	120			
19	6		140	141	1132	18.967	
20	5		140	140	1132		
21	4		200	200	1131	18.816	
22	3		300	300	1128	18.551	
23	2		500	500	1124	17.96	
24	1		700	700	1121	14.154	

CTD Log Sheet

cruise: 415-3	type: CTD	station: 3
leg: 3	cast #: OC 415003	depth: 700

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	9-Aug-05	1712	30 10.914	68 09.561	CTD	Grid 2072
On Deck	"	1753	30 11.588	68 09.217		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	3	1753	25.860	
2	23		0	3		25.918	
3	22		20	20	1752	25.309	
4	21		20	20		25.312	
5	20		40	40	1751	23.061	
6	19		40	40		23.070	
7	18		60	60	1750	19.574	
8	17		60	60		19.574	
9	16		70	70	1749	19.300	
10	15		70	70		19.297	
11	14		80	80	1747	19.221	
12	13		80	80		19.221	
13	12		90	90	1746	19.190	
14	11		100	100	1745	19.168	
15	10		100	100		19.166	
16	9		110	110	1744	19.145	
17	8		120	120	1744	19.091	
18	7		120	120	1744	19.093	
19	6		140	140	1742	19.035	
20	5		140	140	1742	19.033	
21	4		200	200	1740	18.825	
22	3		300	300	1737	18.457	
23	2		500	500	1733	17.977	
24	1		700	700	1728	13.820	

CTD Log Sheet

cruise: 415-3	type: CTD	station: 04
leg: 3	cast #: 0c415004	depth: 700

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	9-Aug-05	1952	30 00.239	68 09.407		Grid 2013
On Deck	"	2034	30 00.188	68 09.320		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	3	2034	25.732	
2	23		0	3		25.755	
3	22		20	20	2033	23.655	
4	21		20	20		23.94	
5	20		40	40	2031	21.068	
6	19		40	40		21.136	
7	18		60	60	2029	19.651	
8	17		60	60		19.650	
9	16		70	70	2029	19.425	
10	15		70	70		19.425	
11	14		80	80	2027	19.311	
12	13		80	80		19.311	.65
13	12		90	90	2026	19.245	.90 chl max
14	11		100	100	2025	19.203	
15	10		100	100		19.200	
16	9		110	110	2024	19.177	
17	8		120	120	2024	19.137	
18	7		120	120		19.135	
19	6		140	140	2022	19.056	
20	5		140	140	2022	19.055	
21	4		200	200	2019	18.833	
22	3		300	300	2017	18.483	
23	2		500	500	2012	17.973	
24	1		700	700	2008	14.416	

CTD Log Sheet

cruise: <i>OC415-3</i>	type: <i>CTD</i>	station: <i>05</i>
leg: <i>3</i>	cast #: <i>OC415005</i>	depth: <i>700</i>

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	<i>9-Aug-05</i>	<i>2155</i>	<i>30 00.024</i>	<i>68 21.912</i>	<i>CTD</i>	<i>Grid 2012</i>
On Deck	<i>h</i>	<i>2236</i>	<i>30 00.301</i>	<i>68 21.571</i>		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	2	2236	26.647	
2	23		0	2		26.646	
3	22		20	20	2235	25.567	
4	21		20	20		25.565	
5	20		40	40	2233	22.074	
6	19		40	40		22.102	
7	18		60	60	2232	20.203	
8	17		60	60		20.205	
9	16		70	70	2230	19.851	
10	15		70	70		19.820	
11	14		80	80	2229	19.590	.50
12	13		80	80		19.590	
13	12		90	90	2228	19.324	.60 <i>chd max</i>
14	11		100	100	2227	19.225	
15	10		100	100		19.221	
16	9		110	110	2226	19.174	.50
17	8		120	120	2225	19.134	
18	7		120	120		19.135	
19	6		140	140	2224	19.029	
20	5		140	140		19.029	
21	4		200	200	2222	18.815	
22	3		300	300	2219	18.515	
23	2		500	500	2215	17.766	
24	1		700	700	2210	14.729	

CTD Log Sheet

cruise: 00415-3	type:	station: 6
leg: 3	cast #: 00415006	depth:

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	10 AUG 05	0416	30 10.920	68 9.674		INCUBATION CAST
On Deck	10 AUG 05	0434	30 10.956	68 9.887		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		40	41	0432	22.313	
2	23			40	0432	22.330	
3	22			40	0432	22.307	
4	21			41	0432	22.233	
5	20			41	0431	22.258	
6	19			41	0431	22.174	
7	18			40	0431	22.241	
8	17			40	0431	22.222	
9	16			40	0431	22.261	
10	15			40	0430	22.255	
11	14			40	0430	22.141	
12	13		40	40	0430	22.211	
13	12		110	110	0428	19.208	
14	11			110	0428	19.209	
15	10			110	0427	19.209	
16	9			110	0427	19.210	
17	8			110	0427	19.211	
18	7			110	0427	19.211	
19	6			110	0427	19.211	
20	5			110	0427	19.211	
21	4			110	0426	19.212	
22	3			110	0426	19.213	
23	2			110	0426	19.214	
24	1		110	110	0426	19.212	

CTD Log Sheet

cruise: 0C415-3	type:	station: 7
leg: 3	cast #: 0C415007	depth:

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	10 AUG 05	0540	30 10.767	68 22.189		Cast # 2071
On Deck	10 AUG 05	0623	30 10.820	68 22.542		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	3	0623	26.563	
2	23		0	3	0623	26.563	
3	22		20	20	0622	26.492	
4	21		20	20	0622	26.485	
5	20		40	40	0621	22.866	
6	19		40	40	0621	22.850	
7	18		60	60	0620	21.004	
8	17		60	60	0620	21.008	
9	16		70	71	0619	20.514	
10	15		70	70	0619	20.490	
11	14		80	80	0619	20.203	
12	13		80	80	0619	20.202	
13	12		90	90	0618	19.946	
14	11		100	100	0617	19.722	
15	10		100	100	0617	19.728	
16	9		110	110	0615	19.507	
17	8		120	120	0614	19.351	
18	7		120	120	0614	19.344	
19	6		140	140	0613	19.190	
20	5		140	140	0613	19.192	
21	4		200	200	0611	18.931	
22	3		300	300	0608	18.597	
23	2		500	500	0604	17.676	
24	1		700	699	0559	14.420	

CTD Log Sheet

cruise: 00415-3	type:	station: 8
leg: 3	cast #: 00415003	depth:

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	10 AUG 05	0748	30 21.698	68 22.420		Lat 2130
On Deck	10 AUG 05	0831	30 22.080	68 22.726		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	3	0831	26.369	
2	23		0	3	0830	26.368	
3	22		20	20	0829	25.665	
4	21		20	20	0829	25.471	
5	20		40	40	0828	21.964	
6	19		40	40	0828	21.970	
7	18		60	61	0827	21.040	
8	17		60	60	0826	21.048	
9	16		70	70	0826	20.656	
10	15		70	70	0825	20.656	
11	14		80	80	0824	20.168	
12	13		80	80	0824	20.159	
13	12		90	90	0823	19.846	
14	11		100	100	0822	19.650	
15	10		100	100	0822	19.652	
16	9		110	110	0821	19.460	
17	8		120	120	0821	19.327	
18	7		120	120	0820	19.326	
19	6		140	140	0819	19.196	
20	5		140	140	0819	19.195	
21	4		200	200	0817	18.936	
22	3		300	300	0814	18.527	
23	2		500	500	0810	17.407	
24	1		700	700	0805	14.112	

CTD Log Sheet

cruise: 02415-3	type:	station: 9
leg: 3	cast #: 02415009	depth:

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	10 Aug 05	0947	30 21.583	68 9.736		WT 2131
On Deck	10 Aug 05	1030	30 21.756	68 9.744		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	2.5	1030	25.556	
2	23		0	3	1030	25.553	
3	22		20	20	1028	24.441	
4	21		20	20	1028	24.441	
5	20		40	40	1027	22.166	
6	19		40	40	1027	22.169	
7	18		60	60	1026	20.848	
8	17		60	60	1025	20.657	
9	16		70	70	1025	20.241	
10	15		70	70	1024	20.185	
11	14		80	80	1023	19.799	
12	13		80	80	1023	19.799	
13	12		90	90	1022	19.591	
14	11		100	100	1021	19.432	
15	10		100	100	1021	19.393	
16	9		110	110	1020	19.293	
17	8		120	120	1019	19.248	
18	7		120	120	1019	19.249	
19	6		140	140	1018	19.168	
20	5		140	140	1018	19.166	
21	4		200	200	1016	18.979	
22	3		300	300	1013	18.622	
23	2		500	500	1009	17.739	
24	1		700	700	1004	13.909	

CTD Log Sheet

cruise: <i>OC415-3</i>	type: <i>CTD</i>	station: <i>10</i>
leg: <i>3</i>	cast #: <i>OC415010</i>	depth: <i>700</i>

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	<i>10-Aug-05</i>	<i>1158</i>	<i>30 20.661</i>	<i>67 57.137</i>	<i>CTD</i>	<i>Grid 2132</i>
On Deck	<i>11</i>	<i>1233</i>	<i>30 21.926</i>	<i>67 56.910</i>		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	3	1233	25.644	
2	23		0	3		25.640	
3	22		20	20	1232	25.220	
4	21		20	20		25.218	
5	20		40	40	1230	21.575	
6	19		40	40		21.629	
7	18		60	60	1229	19.996	
8	17		60	60		20.000	
9	16		70	70	1228	19.547	
10	15		70	70		19.543	
11	14		80	80	1227	19.46	
12	13		80	80	1	19.459	
13	12		90	90	1225	19.421	
14	11		100	100	1225	19.334	<i>.66 CTD Max</i>
15	10		100	100		19.335	
16	9		110	110	1223	19.258	
17	8		120	120	1223	19.181	
18	7		120	120		19.181	
19	6		140	140	1222	19.098	
20	5		140	140		19.098	
21	4		200	200	1220	18.905	
22	3		300	300	1218	18.603	
23	2		500	500	1213	17.833	
24	1		700	700	1210	14.580	

CTD Log Sheet

cruise: 0C415-3	type: CTD	station: 11
leg: 3	cast #: 0C415011	depth: 700

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	10-Aug-05	1513	30 00.067	67 57.274	CTD	Grid 2014
On Deck		1558	30 00.199	67 57.48		SE of Center

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	3	1558	26.247	
2	23		0	3		26.239	
3	22		20	20	1557	25.745	
4	21		20	20		25.438	
5	20		40	40	1555	20.830	
6	19		40	40		20.826	
7	18		60	60	1554	19.782	
8	17		60	60		19.791	
9	16		70	70	1553	19.425	
10	15		70	70		19.437	
11	14		80	80	1552	19.274	
12	13		80	80		19.274	.98
13	12		90	90	1551	19.221	.68
14	11		100	100	1550	19.188	
15	10		100	100		19.189	
16	9		110	110	1549	19.163	
17	8		120	120	1548	19.140	
18	7		120	120		19.146	
19	6		140	140	1547	19.065	
20	5		140	140		19.065	
21	4		200	200	1545	18.907	
22	3		300	300	1542	18.607	
23	2		500	500	1538	17.888	
24	1		700	700	1533	14.788	

CTD Log Sheet

cruise: <i>OC 415-3</i>	type: <i>CTD</i>	station: <i>12</i>
leg: <i>3</i>	cast #: <i>OC 415 012</i>	depth: <i>700</i>

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	<i>10-Aug-05</i>	<i>1722</i>	<i>30 05.53</i>	<i>68 03.46</i>		<i>Grid S1</i>
On Deck	"	<i>1800</i>	<i>30 05.55</i>	<i>68 03.15</i>		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	2	<i>1800</i>	<i>26.246</i>	
2	23		0	2		<i>26.246</i>	
3	22		20	20	<i>1759</i>	<i>25.242</i>	
4	21		20	20		<i>25.238</i>	
5	20		40	40	<i>1758</i>	<i>23.334</i>	<i>.05</i>
6	19		40	40		<i>23.351</i>	
7	18		60	60	<i>1757</i>	<i>19.476</i>	<i>.32</i>
8	17		60	60		<i>19.489</i>	
9	16		70	70	<i>1756</i>	<i>19.280</i>	<i>.85</i>
10	15		70	70		<i>19.280</i>	
11	14		80	80	<i>1755</i>	<i>19.187</i>	<i>1.18</i>
12	13		80	80			
13	12		90	90	<i>1754</i>	<i>19.143</i>	<i>63</i>
14	11		100	100	<i>1753</i>	<i>19.084</i>	<i>16</i>
15	10		100	100	<i>1753</i>	<i>19.084</i>	<i>.53</i>
16	9		110	110	<i>1752</i>	<i>19.061</i>	<i>.41</i>
17	8		120	120	<i>1751</i>	<i>19.038</i>	<i>.47</i>
18	7		120	120		<i>19.038</i>	
19	6		140	140	<i>1750</i>	<i>18.989</i>	
20	5		140	140		<i>18.990</i>	
21	4		200	200	<i>1748</i>	<i>18.844</i>	
22	3		300	300	<i>1745</i>	<i>18.566</i>	
23	2		500	500	<i>1741</i>	<i>17.987</i>	
24	1		700	700	<i>1738</i>	<i>14.181</i>	

CTD Log Sheet

cruise: <u>OC415-3</u>	type: <u>CTD</u>	station: <u>13</u>
leg: <u>3</u>	cast #: <u>0415013</u>	depth: <u>700</u>

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	<u>10-Aug-05</u>	<u>1911</u>	<u>30.10.854</u>	<u>68 03.915</u>		<u>S #2</u>
On Deck	<u>u</u>	<u>1951</u>	<u>30 10.620</u>	<u>68 02.914</u>		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	2	1951	26.547	
2	23		0	3		26.544	
3	22		20	20	1950	24.721	
4	21		20	20		24.706	
5	20		40	40	1949	23.551	
6	19		40	40		23.554	
7	18		60	60	1947	20.351	
8	17		60	60		20.400	
9	16		70	70	1946	19.895	
10	15		70	70		19.893	
11	14		80	80	1945	19.416	.36
12	13		80	80		19.414	
13	12		90	90	1944	19.276	1.6
14	11		100	100	1943	19.208	
15	10		100	100		19.208	.80
16	9		110	110	1942	19.168	.53
17	8		120	120	1941	19.140	.415
18	7		120	120		19.138	
19	6		140	140	1940	19.063	
20	5		140	140		19.065	
21	4		200	200	1938	18.844	
22	3		300	300	1936	18.512	
23	2		500	500	1931	17.980	
24	1		700	700	1927	13.417	

CTD Log Sheet

cruise: <i>OC415-3</i>	type: <i>CTD</i>	station: <i>14</i>
leg: <i>3</i>	cast #: <i>OC 415014</i>	depth: <i>700</i>

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	<i>10-Aug-05</i>	<i>2056</i>	<i>30 16.274</i>	<i>68 03.504</i>		<i>S# 3</i>
On Deck		<i>2138</i>	<i>30 16.318</i>	<i>68 02.857</i>		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	3	2138	26.601	
2	23		0	2		26.590	
3	22		20	20		24.531	
4	21		20	20		24.461	
5	20		40	40		24.091	
6	19		40	40		24.099	
7	18		60	60		22.449	
8	17		60	60		22.364	
9	16		70	70	2134	20.504	
10	15		70	70		20.511	
11	14		80	80	2133	19.754	
12	13		80	80		19.770	
13	12		90	90	2131	19.495	.26
14	11		100	100 90 <i>90</i>	2130	19.34	?
15	10		100	100		19.339	.61
16	9		110	110	2128	19.	4.1
17	8		120	120	2127	19.194	.47
18	7		120	120		19.192	
19	6		140	140	2125	19.151	.25
20	5		140	140		19.153	
21	4		200	200	2123	18.982	
22	3		300	300	2121	18.606	
23	2		500	500	2116	17.934	
24	1		700	700	2112	12.930	

CTD Log Sheet

cruise: 00415-3	type:	station: 15	
leg: 3	cast #: 00415015	depth:	

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	10 AUG 05	2314	30 10.684	68 9.470		EDDY CENTER
On Deck	10 AUG 05	2341	30 10.574	68 9.115		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	1	1		NO BOTTLE
2	23			3	2341	26.346	SAMPLING
3	22						NONE
4	21						
5	20						
6	19						
7	18						
8	17						
9	16						
10	15						
11	14						
12	13						
13	12						
14	11						
15	10						
16	9						
17	8						
18	7						
19	6						
20	5						
21	4						
22	3						
23	2						
24	1		0	3	2338	26.341	

CTD Log Sheet

cruise: 00415-3	type:	station: 16
leg: 3	cast #: 00415016	depth:

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	11 AUG 05	0414	30 16.069	68 3.379		INCUBATION CASE
On Deck	11 AUG 05	0433	30 15.815	68 3.420		CS3

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks	
1	24		110	109	0430	19.278		
2	23			109	0430	19.277		
3	22			109	0430	19.276		
4	21			109	0430	19.277		
5	20			109	0430	19.276		
6	19			109	0429	19.276		
7	18			109	0429	19.275		
8	17			109	0429	19.275		
9	16			109	0429	19.275		
10	15			110	0429	19.276		
11	14			109	0428	19.275		
12	13			110	109	0428	19.274	
13	12		120	122	0427	19.202		
14	11			121	0427	19.201		
15	10			121	0426	19.200		
16	9			121	0425	19.200		
17	8			121	0425	19.200		
18	7			121	0425	19.201		
19	6			121	0425	19.201		
20	5			121	0425	19.201		
21	4			121	0425	19.201		
22	3			121	0425	19.202		
23	2			121	0424	19.201		
24	1			120	120	0424	19.202	

CTD Log Sheet

cruise: 0415-3	type:	station: 17
leg: 3	cast #: 0415017	depth:

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	11 AUG 05	0828	30 10.757	67 19.830		# 2076
On Deck	11 AUG 05	0920	30 10.254	67 20.566		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	3	0920	27.193	
2	23		0	3	0920	27.189	
3	22		20	20	0918	27.022	
4	21		20	20	0918	27.021	
5	20		40	40	0916	21.916	
6	19		40	40	0916	21.800	
7	18		60	61	0915	20.511	
8	17		60	60	0914	20.599	
9	16		70	70	0913	20.397	
10	15		70	70	0913	20.392	
11	14		80	80	0912	20.033	
12	13		80	80	0912	20.104	
13	12		90	90	0911	19.701	
14	11		100	100	0910	19.422	
15	10		100	100	0910	19.424	
16	9		110	110	0909	19.281	
17	8		120	120	0907	19.208	
18	7		120	120	0907	19.207	
19	6		140	140	0906	19.104	
20	5		140	140	0906	19.105	
21	4		200	201	0904	18.820	
22	3		300	300	0901	18.362	
23	2		500	501	0855	16.746	
24	1		700	700	0849	13.079	

CTD Log Sheet

cruise: 0415-3	type: CTD	station: 18
leg: 3	cast #: 0415018	depth: 700

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	11 AUG 05	1128	30 10.829	67 44.846		grid 2074
On Deck	11 AUG 05	1202	30 10.538	67 45.107		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	2	1202	26.775	
2	23		0	2		26.775	
3	22		20	20	1201	26.251	
4	21		20	20		26.271	
5	20		40	40	1159	21.732	
6	19		40	40		21.727	
7	18		60	60	1158	20.470	
8	17		60	60		20.488	
9	16		70	70	1158	20.042	
10	15		70	70		20.040	
11	14		80	80	1156	19.818	
12	13		80	80		19.830	
13	12		90	90	1155	19.643	.32
14	11		100	100	1155	19.501	.58
15	10		100	100		19.503	
16	9		110	110	1154	19.384	.75
17	8		120	120	1153	19.263	.60
18	7		120	120		19.262	
19	6		140	140	1152	19.132	
20	5		140	140		19.131	
21	4		200	200	1150	18.826	
22	3		300	300	1148	18.525	
23	2		500	500	1145	17.440	
24	1		700	700	1141 1144	13.842	

CTD Log Sheet

cruise: OC 415-3	type: CTD	station: 19
leg: 3	cast #: OC 415 019	depth: 700

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	11-Aug-05	1611	30 10.896	68 34.583	CTD	Grid 2070
On Deck		1651	30 11.586	68 34.412		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	2	1651	26.264	
2	23		0	2		26.897	
3	22		20	20	1650	26.585	
4	21		20	20		26.471	
5	20		40	40	1649	22.217	
6	19		40	40		22.343	
7	18		60	60	1648	20. - ~	
8	17		60	60			
9	16		70	70	1647		
10	15		70	70		20.122	
11	14		80	80	1646	19.847	
12	13		80	80		19.852	
13	12		90	90	1644	19.584	
14	11		100	100	1643	19.415	
15	10		100	100		19.424	
16	9		110	110	1642	19.259	
17	8		120	120	1642	19.196	
18	7		120	120		19.189	
19	6		140	140	1640	19.083	
20	5		140	140		19.084	
21	4		200	200	1638	18.911	
22	3		300	300	1636	18.625	
23	2		500	500	1631	17.818	
24	1		700	700	1627	14.679	

CTD Log Sheet

cruise: <u>OC415-3</u>	type: <u>CTD</u>	station: <u>20</u>
leg: <u>3</u>	cast #: <u>OC415020</u>	depth: <u>700</u>

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	<u>11-Aug-05</u>	<u>1918</u>	<u>30 4.912</u>	<u>68 59.592</u>		<u>Grid 2068</u>
On Deck		<u>2000</u>	<u>30 11.743</u>	<u>68 59.484</u>		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	3		27.894	
2	23		0	3		29.636	
3	22		20	20	<u>1959</u>	22.362	
4	21		20	20		22.352	
5	20		40	40	<u>1957</u>	22.769	
6	19		40	40		22.763	
7	18		60	60	<u>1956</u>	21.599	
8	17		60	60		21.600	
9	16		70	70	<u>1955</u>	20.986	
10	15		70	70		20.985	
11	14		80	80	<u>1954</u>	20.560	
12	13		80	80		20.555	
13	12		90	90	<u>1953</u>	20.151	
14	11		100	100	<u>1952</u>	19.955	<u>.36</u>
15	10		100	100		19.951	
16	9		110	110	<u>1951</u>	19.723	<u>.72</u>
17	8		120	120	<u>1949</u>	19.527	<u>.406</u>
18	7		120	120		19.523	
19	6		140	140	<u>1948</u>	19.177	<u>.28</u>
20	5		140	140		19.177	
21	4		200	200	<u>1945</u>	18.822	
22	3		300	300	<u>1943</u>	18.340	
23	2		500	500	<u>1939</u>	16.705	
24	1		700	700	<u>1934</u>	12.978	

CTD Log Sheet

cruise: 02415-3	type:	station: 21
leg: 3	cast #: 02415021	depth: 2000

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	13 AUG 05	1054	33 03.648	63 09.904	CTD	Grid 3040
On Deck	13 AUG 05	1210	33 02.618	63 08.762	no PAR Sensor	AS, 100kPa of EC

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	3	1210	27.539	2000dB 1127 3.692 34.948 259
2	23		0	3		27.540	
3	22		20	20	1209	27.216	
4	21		20	20		27.257	
5	20		40	40	1208	22.850	
6	19		40	40		22.895	
7	18		60	60	1206	21.280	
8	17		60	60		21.370	
9	16		70	70	1205	20.896	
10	15		70	70		20.902	
11	14		80	80	1203	20.574	
12	13		80	80		20.533	
13	12		90	90 100	no bottl.		no 90 stop
14	11		100	100			
15	10		100	100			
16	9		110	110	1200	19.615	.38
17	8		120	120	1159	19.881	.48
18	7		120	120		19.409	
19	6		140	140	1158	19.167	.25
20	5		140	140		19.162	
21	4		200	200	1156	18.713	
22	3		300	300	1154	18.396	
23	2		500	500	1151	16.967	fired 2 at 500m
24	1		700	700 500	1146	13.555	didnt push fire button.

CTD Log Sheet

cruise: <u>OC415-3</u>	type: <u>CTD</u>	station: <u>22</u>
leg: <u>3</u>	cast #: <u>OC415022</u>	depth: <u>2000</u>

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	<u>13-Aug-05</u>	<u>1458</u>	<u>33 03.638</u>	<u>63 34.903</u>	<u>CTD</u>	<u>Grid 3038</u>
On Deck		<u>1614</u>	<u>33 03.095</u>	<u>63 33.700</u>		<u>60 K&E 4 A5 center</u>

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
							<u>2000 1532</u>
1	24		0	3	1611		
2	23		0	3			
3	22		20	21	1609	27.217	
4	21		20	20		27.206	
5	20		40	40	1608	22.169	
6	19		40	40		22.175	
7	18		60	60	1607	20.554	
8	17		60	60		20.558	
9	16		70	70	1606	20.281	
10	15		70	70		20.275	
11	14		80	80	1605	19.913	
12	13		80	80		19.915	
13	12		90	90	1604	19.756	<u>-.35</u>
14	11		100	100	1603	19.500	<u>.57</u>
15	10		100	100		19.520	
16	9		110	110	1602	19.292	<u>-.44</u>
17	8		120	120	1601	19.154	<u>.4</u>
18	7		120	120		19.162	
19	6		140	141	1600	19.035	<u>.18</u>
20	5		140	140		19.036	
21	4		200	200	1558	18.795	
22	3		300	300	1556	18.410	
23	2		500	500	1553	17.297	
24	1		700	700	1550	14.632	

CTD Log Sheet

cruise: <u>0C415-3</u>	type: <u>CTD</u>	station: <u>23</u>
leg: <u>3</u>	cast #: <u>0C415023</u>	depth: <u>2000</u>

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	<u>13-Aug-05</u>	<u>1838</u>	<u>33 03.708</u>	<u>63 59.990</u>	<u>CTD</u>	<u>grid 3036</u>
On Deck	"	<u>2016</u>	<u>33 02.172</u>	<u>63 58.697</u>		<u>20KM EGYEC A5</u>

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	2000 1922 Remarks
1	24		0	3	<u>2016</u>	<u>27.745</u>	
2	23		0	3		<u>27.746</u>	
3	22		20	20	<u>2014</u>	<u>27.161</u>	
4	21		20	20		<u>27.162</u>	
5	20		40	40	<u>2013</u>	<u>22.103</u>	
6	19		40	40		<u>22.075</u>	
7	18		60	60	<u>2012</u>	<u>20.023</u>	
8	17		60	60		<u>20.006</u>	
9	16		70	70	<u>2010</u>	<u>19.664</u>	
10	15		70	70		<u>19.666</u>	
11	14		80	80	<u>2009</u>	<u>19.350</u>	
12	13		80	80		<u>19.356</u>	
13	12		90	90	<u>2008</u>	<u>19.199</u>	
14	11		100	100	<u>2007</u>	<u>19.127</u>	
15	10		100	100		<u>19.127</u>	
16	9		110	110	<u>2006</u>	<u>19.062</u>	
17	8		120	120	<u>2005</u>	<u>19.040</u>	
18	7		120	120		<u>19.041</u>	
19	6		140	140	<u>2004</u>	<u>19.003</u>	
20	5		140	140		<u>19.002</u>	
21	4		200	200	<u>2002</u>	<u>18.944</u>	
22	3		300	300	<u>1959</u>	<u>18.274</u>	
23	2		500	500	<u>1955</u>	<u>17.120</u>	
24	1		700	700	<u>1950</u>	<u>16.260</u>	

CTD Log Sheet

cruise: <i>0c15-3</i>	type: <i>CTD</i>	station: <i>24</i>
leg: <i>3</i>	cast #: <i>0c415024</i>	depth: <i>2000</i>

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	<i>13-Aug-05</i>	<i>2133</i>	<i>33 03.605</i>	<i>64 12.506</i>	<i>CTD</i>	<i>Grid 3035</i>
On Deck	<i>13 Aug 05</i>	<i>2259</i>	<i>33 2.996</i>	<i>64 12.602</i>		<i>Eddy Center</i>

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
						<i>2000 2214</i>	
1	24		0	3	2259	27.574	
2	23		0	3	2259	27.573	
3	22		20	20	2258	25.418	
4	21		20	20	2258	25.356	
5	20		40	40	2257	21.006	
6	19		40	40	2257	21.012	
7	18		60	60	2256	19.568	
8	17		60	60	2256	19.560	
9	16		70	70	2255	19.374	
10	15		70	70	2255	19.372	
11	14		80	80	2254	19.342	
12	13		80	80	2254	19.339	
13	12		90	90	2254	19.270	
14	11		100	100	2252	19.169	
15	10		100	100		19.167	
16	9		110	110	2252	19.094	
17	8		120	120	2251	19.044	
18	7		120	120		19.044	
19	6		140	140	2250	18.985	
20	5		140	140		18.985	
21	4		200	200	2249	18.837	
22	3		300	300	2245	17.975	
23	2		500	500	2241	16.663	
24	1		700	700	2237	16.492	

CTD Log Sheet

cruise: 0C415-3	type:	station: 25
leg: 3	cast #: 0C415025	depth:

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	14 AUG 05	0612	33 3.592	64 12.217		INCUBATION CAST
On Deck	14 AUG 05	0623	33 3.589	64 12.170		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		110	111	0621	19.046	
2	23			111	0621	19.046	
3	22			111	0621	19.046	
4	21			110	0620	19.046	
5	20			111	0620	19.046	
6	19			111	0620	19.046	
7	18			111	0620	19.046	
8	17			111	0620	19.046	
9	16			111	0620	19.044	
10	15			110	0619	19.043	
11	14			110	0619	19.045	
12	13			110	0619	19.045	
13	12			110	0619	19.045	
14	11			110	0619	19.046	
15	10			110	0619	19.045	
16	9			110	0619	19.046	
17	8			110	0618	19.046	
18	7			110	0618	19.047	
19	6			110	0618	19.046	
20	5			110	0618	19.047	
21	4			111	0618	19.044	
22	3			110	0618	19.046	
23	2			110	0618	19.046	
24	1		110	110	0618	19.047	

CTD Log Sheet

cruise: 02415-3	type:	station: 26
leg: 3	cast #: 02415026	depth: 2000 m

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	14 Aug 05	0512	33 3.814	64 25.008		
On Deck	14 Aug 05	0622	33 3.890	64 24.586		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	3	0621	27.474	
2	23		0	3	0621	27.472	
3	22		20	20	0620	26.508	
4	21		20	20	0620	26.433	
5	20		40	40	0619	20.668	
6	19		40	40	0619	20.602	
7	18		60	60	0619	19.736	
8	17		60	60	0618	19.794	
9	16		70	70	0618	19.340	
10	15		70	70	0618	19.346	
11	14		80	80	0617	19.135	
12	13		80	80	0617	19.134	
13	12		90	90	0616	19.066	
14	11		100	100	0616	19.033	
15	10		100	100	0616	19.034	
16	9		110	110	0615	19.005	
17	8		120	120	0614	18.985	
18	7		120	120	0614	18.985	
19	6		140	141	0613	18.960	
20	5		140	140	0613	18.962	
21	4		200	200	0612	18.696	
22	3		300	300	0610	17.974	
23	2		500	501	0607	16.737	
24	1		700	700	0604	16.504	

CTD Log Sheet

cruise: 0415-3	type:	station: 27
leg: 3	cast #: 0415027	depth: 2000 m

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	14 AUG 05	0839	33 3.688	64 49.836		Loc # 3032
On Deck	14 AUG 05	1015	33 4.397	64 50.300		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	3	1015	27.503	
2	23		0	3	1015	27.507	
3	22		20	20	1013	26.837	
4	21		20	20	1013	26.841	
5	20		40	40	1012	23.414	
6	19		40	40	1012	23.415	
7	18		60	61	1011	21.314	
8	17		60	61	1010	21.263	
9	16		70	70	1009	20.577	
10	15		70	70	1009	20.585	
11	14		80	79	1008	20.067	
12	13		80	80	1007	20.003	
13	12		90	90	1006	19.666	
14	11		100	100	1005	19.356	
15	10		100	100	1005	19.310	
16	9		110	110	1004	19.225	
17	8		120	120	1003	19.099	
18	7		120	120	1003	19.078	
19	6		140	140	1002	19.032	
20	5		140	140	1001	19.029	
21	4		200	200	1000	18.941	
22	3		300	300	0957	18.371	
23	2		500	500	0953	17.605	
24	1		700	700	0948	15.242	

CTD Log Sheet

cruise: <i>0C415-3</i>	type: <i>CTD</i>	station: <i>28</i>
leg: <i>3</i>	cast #: <i>0C415028</i>	depth: <i>2000</i>

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	<i>14-Aug-05</i>	<i>1223</i>	<i>33 03.551</i>	<i>65 14.900</i>	<i>CTD</i>	<i>Grid 3030</i>
On Deck		<i>1338</i>	<i>33 02.857</i>	<i>65 14.752</i>		<i>100 km W of AS center</i>

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	3	1338	27.646	
2	23		0	3		27.647	
3	22		20	20	1337	27.246	
4	21		20	20		27.249	
5	20		40	40	1336	22.306	
6	19		40	40		22.291	
7	18		60	60	1335	20.937	
8	17		60	60		20.944	
9	16		70	70	1334	20.311	
10	15		70	70		20.311	<i>.5</i>
11	14		80	80	1332	19.991	<i>.91</i>
12	13		80	80		19.990	
13	12		90	90	1332	19.855	
14	11		100	100	1331	19.534	
15	10		100	100		19.539	
16	9		110	110	1330	19.852	
17	8		120	120	1329	19.257	
18	7		120	120		19.271	
19	6		140	140	1328	19.069	
20	5		140	140		19.069	
21	4		200	200	1327	18.930	
22	3		300	300	1325	18.389	
23	2		500	500	1321	17.551	
24	1		700	700	1318	15.115	

CTD Log Sheet

cruise: <i>OC415-3</i>	type: <i>CTD</i>	station: <i>29 w. Weatherbird</i>
leg: <i>3</i>	cast #: <i>OC415029</i>	depth: <i>700</i>

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	<i>18-Aug-05</i>	<i>2004</i>	<i>30 11.118</i>	<i>68 34.112</i>	<i>CTD</i>	<i>PAR back on</i>
On Deck		<i>2040</i>	<i>30 11.393</i>	<i>68 35.714</i>		<i>no Surface PAR</i>

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	2	2040	26.440	
2	23		0	2		26.457	
3	22		20	20	2039	25.030	
4	21		20	20		25.050	
5	20		40	40	2038	23.522	
6	19		40	40		23.549	
7	18		60	60	2037	20.174	<i>= 20</i>
8	17		60	60		20.136	
9	16		70	70	2035	19.250	<i>1.4.1</i>
10	15		70	70		19.234	
11	14		80	80	2034	19.090	<i>.91</i>
12	13		80	80		19.086	
13	12		90	90	2033	19.061	<i>:71</i>
14	11		100	100	2032	19.020	
15	10		100	100		19.022	<i>.51</i>
16	9		110	110	2031	19.016	<i>.49</i>
17	8		120	120	2031	19.006	<i>.35</i>
18	7		120	120		19.005	
19	6		140	140	2030	18.978	<i>.193</i>
20	5		140	140		18.974	
21	4		200	200	2028	18.941	
22	3		300	300	2025	18.633	
23	2		500	500	2022	17.988	
24	1		700	700	2018	14.775	

9:00 2070

CTD Log Sheet

cruise: <u>OC 415-3</u>	type: <u>CTD</u>	station: <u>30</u>
leg: <u>3</u>	cast #: <u>OC 415030</u>	depth: <u>700</u>

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	<u>18-Aug-05</u>	<u>2232</u>	<u>30 05.437</u>	<u>68 40.042</u>	<u>CTD</u>	<u>grid. 2070C</u>
On Deck	<u>18 Aug 05</u>	<u>2306</u>	<u>30 5.680</u>	<u>68 39.998</u>		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	2	2306	25.610	
2	23		0	2	2305	25.810	
3	22		20	20	2305	24.160	
4	21		20	20	2304	24.157	
5	20		40	40	2304	21.971	
6	19		40	40	2303	21.871	
7	18		60	60	2303	20.280	
8	17		60	60	2303	20.276	
9	16		70	70	2302	19.459	
10	15		70	70	2302	19.433	
11	14		80	80	2301	19.328	
12	13		80	80	2301	19.329	
13	12		90	90	2301	19.261	
14	11		100	100	2300	19.213	
15	10		100	100	2300	19.219	
16	9		110	110	2259	19.164	
17	8		120	120	2259	19.118	
18	7		120	120	2259	19.121	
19	6		140	140	2258	19.038	
20	5		140	140	2258	19.039	
21	4		200	200	2256	18.852	
22	3		300	300	2254	18.441	
23	2		500	500	2251	17.950	
24	1		700	700	2246	15.096	

CTD Log Sheet

cruise: 0C415-3	type:	station: 31
leg: 3	cast #: 0C415031	depth: 200 m

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	19 AUG 05	0411	30 10.734	68 34.703		INCUBATION CAST
On Deck	19 AUG 05	0425	30 10.620	68 34.579		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks	
1	24		60	60	0427	19.579	SYRINGES	
2	23		}				WERE LEFT	
3	22			ON; T, S +				
4	21			O ₂ DATA				
5	20			ARE BAD				
6	19							
7	18							
8	17							
9	16							
10	15							
11	14							
12	13							
13	12							
14	11							
15	10							
16	9							
17	8							
18	7		60	60	0425	19.216	}	
19	6		90	91	0423	19.148		
20	5		90	91	0423	19.131		PROBABLY
21	4		90	91	0423	19.118		19.1 °C
22	3		90	91	0423	19.098		BASED ON CTD 29
23	2		90	91	0423	19.078		
24	1		90	90	0422	19.030		

CTD Log Sheet

cruise: 0C415-3	type:	station: 32
leg: 3	cast #: 0C415032	depth: To 1200 m

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	19 AUG 05	0539	30 21.571	68 34.572		Loc# 2129
On Deck	19 AUG 05	0632	30 21.035	68 34.096		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	3	0632	26.934	
2	23		0	2	0632	26.834	
3	22		20	20	0631	24.719	
4	21		20	20	0631	24.717	
5	20		40	41	0630	24.064	
6	19		40	40	0630	24.062	
7	18		60	60	0629	21.757	
8	17		60	60	0629	21.708	
9	16		70	70	0628	20.520	
10	15		70	70	0628	20.430	
11	14		80	80	0628	20.103	
12	13		80	80	0627	20.101	
13	12		90	90	0627	19.724	
14	11		100	100	0626	19.461	
15	10		100	100	0626	19.459	
16	9		110	110	0625	19.344	
17	8		120	120	0625	19.283	
18	7		120	120	0625	19.286	
19	6		140	141	0624	19.169	
20	5		140	140	0623	19.175	
21	4		200	200	0622	18.937	
22	3		300	300	0620	18.601	
23	2		500	501	0617	17.761	
24	1		700	699	0614	14.727	

CTD Log Sheet

cruise: 0C415-3	type:	station: 33
leg: 3	cast #: 0C415033	depth: To 1200 m

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	19 AUG 05	0826	29 59.913	68 34.650		Loc 2011
On Deck	19 AUG 05	0929	29 59.110	68 35.527		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	2	0929	25.570	
2	23		0	3	0929	25.371	
3	22		20	20	0928	23.591	
4	21		20	20	0928	23.396	
5	20		40	40	0927	21.150	
6	19		40	40	0926	21.042	
7	18		60	60	0925	19.741	
8	17		60	60	0925	19.735	
9	16		70	70	0925	19.441	
10	15		70	70	0924	19.438	
11	14		80	80	0923	19.323	
12	13		80	80	0923	19.323	
13	12		90	90	0922	19.207	
14	11		100	100	0922	19.161	
15	10		100	100	0921	19.162	
16	9		110	110	0921	19.127	
17	8		120	121	0920	19.077	
18	7		120	120	0919	19.081	
19	6		140	141	0918	18.992	
20	5		140	140	0918	18.994	
21	4		200	200	0917	18.787	
22	3		300	301	0914	18.540	
23	2		500	500	0908	18.117	
24	1		700	700	0904	14.804	

CTD Log Sheet

cruise: <i>OC 415-3</i>	type: <i>CTD</i>	station: <i>34</i>
leg: <i>3</i>	cast #: <i>OC 415034</i>	depth: <i>200</i>

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	<i>19-Aug-05</i>	<i>1153</i>	<i>30 10.93</i>	<i>068 35.12</i>		<i>Grid 2070</i>
On Deck	<i>"</i>	<i>1207</i>	<i>30 10.814</i>	<i>68 35.24</i>		<i>Puffer Cast</i>

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
							<i>200 1157</i>
<i>1</i>	<i>24</i>		<i>40</i>	<i>40</i>	<i>1207</i>	<i>23.950</i>	
<i>2</i>	<i>23</i>						
<i>3</i>	<i>22</i>						
<i>4</i>	<i>21</i>						
<i>5</i>	<i>20</i>		<i>↓</i>				
<i>6</i>	<i>19</i>		<i>40</i>	<i>40</i>		<i>23.946</i>	
<i>7</i>	<i>18</i>		<i>55</i>	<i>55</i>	<i>1204</i>	<i>22.287</i>	
<i>8</i>	<i>17</i>		<i>55</i>	<i>55</i>			
<i>9</i>	<i>16</i>		<i>55</i>	<i>55</i>		<i>22.358</i>	
<i>10</i>	<i>15</i>		<i>65</i>	<i>65</i>	<i>1203</i>	<i>20.307</i>	
<i>11</i>	<i>14</i>		<i>65</i>				
<i>12</i>	<i>13</i>		<i>65</i>	<i>65</i>		<i>20.251</i>	
<i>13</i>	<i>12</i>		<i>75</i>	<i>75</i>	<i>1202</i>	<i>19.247</i>	
<i>14</i>	<i>11</i>						
<i>15</i>	<i>10</i>						
<i>16</i>	<i>9</i>						
<i>17</i>	<i>8</i>						
<i>18</i>	<i>7</i>						
<i>19</i>	<i>6</i>						
<i>20</i>	<i>5</i>						
<i>21</i>	<i>4</i>						
<i>22</i>	<i>3</i>						
<i>23</i>	<i>2</i>		<i>75</i>				
<i>24</i>	<i>1</i>		<i>75</i>	<i>75</i>	<i>1200</i>	<i>19.244</i>	

CTD Log Sheet

cruise: OC415-3	type: CTD	station: 35
leg: 3	cast #: OC415035	depth: 1200

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	19-Aug-05	1804	29 49.146	68 33.624		grid 2152
On Deck		1908	29 49.014	68 33.665		40 Km S of EC

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	3	1908	25.299	1200@ 1830
2	23		0	3		25.298	
3	22		20	20	1907	23.951	
4	21		20	20		23.960	
5	20		40	40	1905	21.414	
6	19		40	40		21.398	
7	18		60	60	1904	19.960	
8	17		60	60		19.961	
9	16		70	70	1903	19.700	
10	15		70	70		19.691	
11	14		80	80	1903	19.549	.23
12	13		80	80		19.542	
13	12		90	90	1901	19.400	.75
14	11		100	100	1900	19.328	.88
15	10		100	100		19.328	
16	9		110	110	1859	19.209	.79
17	8		120	120	1858	19.191	.63
18	7		120	120		19.191	
19	6		140	140	1857	19.118	
20	5		140	140		19.118	
21	4		200	200	1855	18.901	
22	3		300	300 290	1850	18.595	
23	2		500	500	1844	17.821	
24	1		700	700	1839	13.916	

CTD Log Sheet

cruise: <u>0c415-3</u>	type: <u>CTD</u>	station: <u>36</u>
leg: <u>3</u>	cast #: <u>0C415036</u>	depth: <u>1200</u>

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	<u>19-Aug-05</u>	<u>2132</u>	<u>29 27.572</u>	<u>68 34.687</u>	<u>CTD</u>	<u>grid 1834</u>
On Deck		<u>2231</u>	<u>29 27.594</u>	<u>68 35.345</u>		<u>80 km S of EC</u>

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	2	2231	27.028	
2	23		0	3		27.030	
3	22		20	20	2229	25.944	
4	21		20	20		25.928	
5	20		40	40	2228	22.62	
6	19		40	40		22.576	
7	18		60	60	2227	20.637	
8	17		60	60		20.489	
9	16		70	70	2226	20.188	
10	15		70	70		20.166	
11	14		80	80	2225	19.903	
12	13		80	80		19.807	
13	12		90	90	2224	19.685	
14	11		100	100	2223	19.611	
15	10		100	100		19.503	
16	9		110	110	2222	19.390	<u>#72</u>
17	8		120	120	2221	19.264	
18	7		120	120		19.262	
19	6		140	140	2220	19.109	
20	5		140	140		19.109	
21	4		200	200	2218	18.872	
22	3		300	300	2215	18.476	
23	2		500	500	2211	17.157	
24	1		700	700	2207	13.805	

CTD Log Sheet

cruise: 0415-3	type:	station: 37
leg: 3	cast #: 0415037	depth: To 1200 m

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	20 Aug 05	0441	30 32.445	68 34.564		Loc 2198
On Deck	20 Aug 05	0539	30 31.668	68 33.794		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	3	0539	27.454	
2	23		0	3	0538	27.416	
3	22		20	20	0537	25.223	
4	21		20	20	0537	25.222	
5	20		40	41	0536	24.777	
6	19		40	40	0536	24.834	
7	18		60	60	0535	20.300	
8	17		60	60	0535	20.300	
9	16		70	70.5	0534	19.919	
10	15		70	70	0534	17.892	
11	14		80	80	0533	19.700	
12	13		80	80	0533	19.712	
13	12		90	90	0532	19.551	
14	11		100	100	0531	19.413	
15	10		100	100	0531	19.405	
16	9		110	110	0530	19.324	
17	8		120	120	0530	19.239	
18	7		120	120	0530	19.237	
19	6		140	141	0528	19.155	
20	5		140	140	0528	19.161	
21	4		200	200	0527	18.961	
22	3		300	300	0525	18.620	
23	2		500	500	0520	17.850	
24	1		700	700	0517	14.284	

CTD Log Sheet

cruise: 0C415-3	type:	station: 38
leg: 3	cast #: 0C415038	depth: To 1200 m

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	20 AUG 05	0757	30 54.074	68 34.597		LWC 2306
On Deck	20 AUG 05	0858	30 54.274	68 34.691		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	3	0858	28.132	
2	23		0	3	0858	28.128	
3	22		20	20	0857	27.421	
4	21		20	20	0856	27.338	
5	20		40	40	0855	22.450	
6	19		40	40	0855	22.409	
7	18		60	60	0854	21.197	
8	17		60	60	0854	21.039	
9	16		70	70	0853	20.489	
10	15		70	70	0853	20.329	
11	14		80	80	0852	20.210	
12	13		80	80	0851	20.184	
13	12		90	90	0851	19.945	
14	11		100	100	0850	19.770	
15	10		100	100	0850	19.763	
16	9		110	110	0849	19.502	
17	8		120	120	0848	19.363	
18	7		120	120	0848	19.350	
19	6		140	140	0847	19.164	
20	5		140	140	0847	19.155	
21	4		200	200	0845	18.799	
22	3		300	300	0842	18.366	
23	2		500	500	0838	17.204	
24	1		700	700	0834	13.760	

CTD Log Sheet

cruise: 02415-3	type: CTD	station: 39
leg: 3	cast #: 02415039	depth: 1200

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	20-Aug-05	1559	30 53.903	67 44.707		Loc 2310
On Deck	"	1651	30 53.184	67 44.420		115 Km NE of EC

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	3	1651	28.541	
2	23		0	3		28.521	
3	22		20	20	1650	27.549	
4	21		20	20		27.552	
5	20		40	40	1650	23.314	
6	19		40	40		23.313	
7	18		60	60	1648	21.155	
8	17		60	60		21.172	
9	16		70	70	1647	20.644	
10	15		70	70		20.546	
11	14		80	80	1646	20.311	
12	13		80	80		20.300	
13	12		90	90	1645	19.990	
14	11		100	100	1644	19.681	
15	10		100	100		19.682	.26
16	9		110	110	1643	19.532	.64
17	8		120	120	1643	19.365	
18	7		120	120		19.362	
19	6		140	140	1642	19.170	
20	5		140	140		19.190	
21	4		200	200	1640	18.736	
22	3		300	300	1637	18.172	
23	2		500	500	1634	16.434	
24	1		700	700	1631	12.931	

1200 @ 1622

CTD Log Sheet

cruise: 00415-3	type: CTD	station: 40	
leg: 3	cast #: 00415040	depth: 1200	

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	20-Aug-05	1955	30 32.465	68 09.620	CTD	Grid 2190
On Deck		2049	30 32.809	68 09.235		58 km NE of EC

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	2	2049	28.403	1200 @ 2021
2	23		0	3		28.381	
3	22		20	20	2048	26.522	
4	21		20	20		26.527	
5	20		40	40	2047	24.247	
6	19		40	40		24.251	
7	18		60	60	2046	21.510	
8	17		60	60		21.513	
9	16		70	70	2045	20.734	
10	15		70	70		20.727	
11	14		80	80	2044	20.139	
12	13		80	80		20.144	
13	12		90	90	2043	19.784	
14	11		100	100	2042	19.530	
15	10		100	100		19.531	-.38
16	9		110	110	2042	19.329	-.53
17	8		120	120	2041	19.255	
18	7		120	120		19.255	
19	6		140	140	2040	19.130	
20	5		140	140		19.128	
21	4		200	200	2037	18.840	
22	3		300	300	2035	18.509	
23	2		500	500	2032	17.287	
24	1		700	700	2029	13.807	

CTD Log Sheet

cruise: <i>02415-3</i>	type: <i>CTD</i>	station: <i>41</i>
leg: <i>3</i>	cast #: <i>02415041</i>	depth: <i>1200</i>

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	<i>20-Aug-05</i>	<i>2234</i>	<i>30 21.594</i>	<i>68 21.973</i>		<i>grid 2130</i>
On Deck	<i>20 AUG 05</i>	<i>2324</i>	<i>30 21.517</i>	<i>68 21.518</i>		<i>28 Km NE of EC</i>

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	1200 @ Remarks
1	24		0	2	2324	28.045	
2	23		0	2	2324	28.046	
3	22		20	20	2323	26.744	
4	21		20	20	2322	26.713	
5	20		40	40	2322	22.651	
6	19		40	40	2321	22.801	
7	18		60	60	2321	20.329	
8	17		60	60.5	2320	20.313	
9	16		70	70	2320	19.939	
10	15		70	70	2320	19.928	
11	14		80	80	2319	19.736	
12	13		80	80	2319	19.730	
13	12		90	90	2318	19.515	
14	11		100	100	2318	19.391	
15	10		100	100	2318	19.385	
16	9		110	110	2317	19.284	
17	8		120	121	2316	19.226	
18	7		120	120	2316	19.225	
19	6		140	140	2315	19.148	
20	5		140	140	2315	19.150	
21	4		200	200	2314	18.967	
22	3		300	300	2311	18.620	
23	2		500	500	2308	17.802	
24	1		700	700	2304	14.256	

CTD Log Sheet

cruise: 02415-3	type:	station: 42
leg: 3	cast #: 02415042	depth: To 1200 m

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	21 AUG 05	0432	30 6.995	68 29.319		SED TRAP "B"
On Deck	21 AUG 05	0524	30 6.348	68 28.661		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	2	0524	26.508	
2	23		0	2	0524	26.258	
3	22		20	20	0523	24.465	
4	21		20	20	0523	24.470	
5	20		40	40	0522	21.356	
6	19		40	40	0522	21.240	
7	18		60	60	0521	20.313	
8	17		60	60	0521	20.314	
9	16		70	70	0521	19.716	
10	15		70	70	0520	19.721	
11	14		80	80	0520	19.504	
12	13		80	80	0520	19.481	
13	12		90	90	0519	19.341	
14	11		100	100	0518	19.250	
15	10		100	100	0517	19.249	
16	9		110	110	0516	19.194	
17	8		120	120	0516	19.173	
18	7		120	120	0516	19.173	
19	6		140	140	0515	19.109	
20	5		140	140	0515	19.109	
21	4		200	200	0514	18.934	
22	3		300	300	0512	18.632	
23	2		500	501	0508	17.930	
24	1		700	700	0505	14.839	

CTD Log Sheet

cruise: 415-3	type:	station: 43
leg: 3	cast #: 0C415043	depth: to 1200 m

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	21 Aug 05	0712	29 59.961	68 47.053		Loc 2010
On Deck	21 Aug 05	0812	29 59.670	68 47.406		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	3	0812	27.092	
2	23		0	3	0812	27.091	
3	22		20	20	0811	24.053	
4	21		20	20	0810	24.053	
5	20		40	40	0810	21.542	
6	19		40	40	0809	21.542	
7	18		60	60	0808	19.756	
8	17		60	60	0808	19.751	
9	16		70	70	0808	19.511	
10	15		70	70	0807	19.510	
11	14		80	80	0807	19.376	
12	13		80	80	0807	19.373	
13	12		90	90	0806	19.246	
14	11		100	100	0805	19.186	
15	10		100	100	0805	19.184	
16	9		110	110	0804	19.136	
17	8		120	120	0803	19.103	
18	7		120	120	0803	19.101	
19	6		140	140	0802	19.015	
20	5		140	140	0802	19.020	
21	4		200	200	0800	18.747	
22	3		300	300	0757	18.369	
23	2		500	500	0753	17.972	
24	1		700	700	0748	14.260	

CTD Log Sheet

cruise: 0415-3	type:	station: 44
leg: 3	cast #: 0415044	depth: To 1200 m

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	21 AUG 05	0944	29 49.199	68 59.613		Loc 1950
On Deck	21 AUG 05	1046	29 49.354	68 59.852		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	2	1046	26.076	
2	23		0	2	1045	25.796	
3	22		20	20	1044	24.007	
4	21		20	20	1044	24.000	
5	20		40	40	1043	22.642	
6	19		40	40	1043	22.526	
7	18		60	60	1041	20.435	
8	17		60	60	1041	20.371	
9	16		70	70	1040	19.671	
10	15		70	70	1040	19.591	
11	14		80	80	1039	19.461	
12	13		80	80	1039	19.447	
13	12		90	90	1038	19.345	
14	11		100	100	1037	19.276	
15	10		100	100	1037	19.262	
16	9		110	110	1037	19.222	
17	8		120	120	1036	19.182	
18	7		120	120	1036	19.183	
19	6		140	140	1034	19.123	
20	5		140	140	1034	19.110	
21	4		200	200	1033	18.922	
22	3		300	300	1030	18.589	
23	2		500	500	1026	17.640	
24	1		700	700	1022	13.646	

CTD Log Sheet

cruise: <i>OC 415-3</i>	type: <i>CTD</i>	station: <i>45</i>
leg: <i>3</i>	cast #: <i>OC 415045</i>	depth: <i>1200</i>

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	<i>21-11-05</i>	<i>1659</i>	<i>29 27.506</i>	<i>69 24.485</i>		<i>9.12 1830</i>
On Deck	<i>"</i>	<i>1745</i>	<i>29 26.956</i>	<i>69 24.726</i>		<i>118 E.H.S.W. SEC</i>

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
							<i>1200 @ 1718</i>
1	24		<i>0</i>	<i>3</i>	<i>1745</i>	<i>28.764</i>	
2	23		<i>0</i>	<i>2</i>		<i>28.770</i>	
3	22		<i>20</i>	<i>20</i>	<i>1744</i>	<i>26.322</i>	
4	21		<i>20</i>	<i>20</i>		<i>26.320</i>	
5	20		<i>40</i>	<i>40</i>	<i>1743</i>	<i>22.685</i>	
6	19		<i>40</i>	<i>40</i>		<i>22.700</i>	
7	18		<i>60</i>	<i>60</i>	<i>1742</i>	<i>20.822</i>	
8	17		<i>60</i>	<i>60</i>		<i>20.868</i>	
9	16		<i>70</i>	<i>70</i>	<i>1742</i>	<i>20.431</i>	
10	15		<i>70</i>	<i>70</i>		<i>20.430</i>	
11	14		<i>80</i>	<i>80</i>	<i>1741</i>	<i>20.080</i>	
12	13		<i>80</i>	<i>80</i>		<i>20.075</i>	
13	12		<i>90</i>	<i>90</i>	<i>1740</i>	<i>19.749</i>	<i>.18</i>
14	11		<i>100</i>	<i>100</i>	<i>1739</i>	<i>19.487</i>	<i>.30</i>
15	10		<i>100</i>	<i>100</i>		<i>19.496</i>	
16	9		<i>110</i>	<i>110</i>	<i>1738</i>	<i>19.390</i>	<i>.65</i>
17	8		<i>120</i>	<i>120</i>	<i>1737</i>	<i>19.255</i>	<i>.50</i>
18	7		<i>120</i>	<i>120</i>		<i>19.255</i>	
19	6		<i>140</i>	<i>140</i>	<i>1736</i>	<i>19.152</i>	<i>.26</i>
20	5		<i>140</i>	<i>140</i>		<i>19.149</i>	
21	4		<i>200</i>	<i>200</i>	<i>1735</i>	<i>18.850</i>	
22	3		<i>300</i>	<i>300</i>	<i>1733</i>	<i>18.483</i>	
23	2		<i>500</i>	<i>500</i>	<i>1730</i>	<i>16.993</i>	
24	1		<i>700</i>	<i>700</i>	<i>1726</i>	<i>13.026</i>	

CTD Log Sheet

cruise: <i>0C415-3</i>	type: <i>CTD</i>	station: <i>46</i>
leg: <i>3</i>	cast #: <i>0C415046</i>	depth: <i>1200</i>

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	<i>21-Aug-05</i>	<i>2201</i>	<i>30 10.854</i>	<i>69 24.546</i>		<i>grid 2066</i>
On Deck	<i>21 Aug 05</i>	<i>2258</i>	<i>30 11.143</i>	<i>69 24.570</i>		<i>80 km W of EC</i>

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
							<i>1200 @ 22 27</i>
1	24		0	2	2258	28.320	
2	23		0	2	2258	28.317	
3	22		20	20	2257	25.850	
4	21		20	20	2257	25.853	
5	20		40	40	2256	24.684	
6	19		40	40	2256	24.674	
7	18		60	60	2255	21.661	
8	17		60	60	2255	21.192	
9	16		70	70	2254	20.695	
10	15		70	70	2254	20.668	
11	14		80	80	2253	20.203	
12	13		80	80	2253	20.206	
13	12		90	90	2253	19.781	
14	11		100	100	2252	19.557	
15	10		100	100	2252	19.558	
16	9		110	110	2252	19.351	
17	8		120	120	2251	19.238	
18	7		120	120		19.238	
19	6		140	140	2249	19.119	
20	5		140	140		19.122	
21	4		200	200	2247	18.842	
22	3		300	300	2245	18.501	
23	2		500	500	2241	16.937	
24	1		700	700	2237	13.589	

CTD Log Sheet

cruise: 0415-3	type:	station: 47
leg: 3	cast #: 0415047	depth: 72 1200 m

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	22 AUG 05	0110	30 10.854	68 59.450		202 2068
On Deck	22 AUG 05	0158	30 11.372	68 58.495		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	3	0158	28.317	
2	23		0	3	0157	28.310	
3	22		20	20	0156	25.011	
4	21		20	20	0156	24.987	
5	20		40	40.5	0156	23.177	
6	19		40	40	0155	23.316	
7	18		60	60	0154	20.124	
8	17		60	60	0154	20.148	
9	16		70	70	0154	19.710	
10	15		70	70	0153	19.718	
11	14		80	80	0153	19.555	
12	13		80	80	0153	19.554	
13	12		90	90	0152	19.375	
14	11		100	100	0152	19.264	
15	10		100	100	0151	19.262	
16	9		110	110	0151	19.207	
17	8		120	120	0150	19.187	
18	7		120	120	0150	19.187	
19	6		140	141	0149	19.130	
20	5		140	140	0149	19.131	
21	4		200	200	0148	18.917	
22	3		300	300	0146	18.555	
23	2		500	500	0142	17.607	
24	1		700	700	0139	14.128	

CTD Log Sheet

cruise: 0415-3	type:	station: 48.
leg: 3	cast #: 0415048	depth: To 1200m

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	22 AUG 05	0259	30 10.810	68 47.033		Lat 2069
On Deck	22 AUG 05	0357	30 10.445	68 45.642		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	3	0357	27.699	
2	23		0	3	0357	27.685	
3	22		20	20	0356	24.291	
4	21		20	20	0356	24.288	
5	20		40	40	0355	22.596	
6	19		40	40	0355	22.657	
7	18		60	60	0354	19.833	
8	17		60	60	0354	19.827	
9	16		70	70	0354	19.515	
10	15		70	70	0353	19.460	
11	14		80	80	0352	19.326	
12	13		80	80	0352	19.313	
13	12		90	90	0351	19.228	
14	11		100	100	0351	17.195	
15	10		100	100	0351	17.196	
16	9		110	110	0350	19.151	
17	8		120	120	0350	19.121	
18	7		120	120	0350	19.118	
19	6		140	140	0349	19.048	
20	5		140	140	0346	19.036	
21	4		200	200	0344	18.903	
22	3		300	300	0341	18.633	
23	2		500	500	0338	17.884	
24	1		700	700	0332	14.795	

CTD Log Sheet

cruise: 0415-3	type:	station: 49
leg: 3	cast #: 0415049	depth: To 200m

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	22 AUG 05	0506	30 10.716	68 40.882		NO WATER SAMPLES
On Deck	22 AUG 05	0519	30 10.604	68 40.721		2069A

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		200	201	0515	18.941	CTD TO
2	23						200m
3	22						
4	21						
5	20						
6	19						
7	18						
8	17						
9	16						
10	15						
11	14						
12	13						
13	12						
14	11						
15	10						
16	9						
17	8						
18	7						
19	6						
20	5						
21	4						
22	3						
23	2						
24	1		200	200	0513	18.946	

CTD Log Sheet

cruise: 00415-3	type:	station: 50	
leg: 3	cast #: 00415050	depth: 70 200m	

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	22 AUG 05	0554	30 10.753	68 34.742		IN SUBSTATION C57
On Deck	22 AUG 05	0614	30 10.380	68 34.417		# 2070

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		80	80	0611	19.982	
2	23		80	80	0611	19.985	
3	22		80	80	0611	19.985	
4	21		80	80	0611	19.987	
5	20		80	80	0611	19.988	
6	19		80	80	0611	19.990	
7	18		80	80.5	0610	19.991	
8	17		80	80	0610	19.997	
9	16		80	80	0610	19.999	
10	15		80	80	0610	19.998	
11	14		80	80	0610	19.997	
12	13		80	80	0610	19.998	
13	12		105	107	0609	19.338	
14	11		105	107	0608	19.338	
15	10		105	107	0608	19.338	
16	9		105	107	0608	19.335	
17	8		105	107	0608	19.337	
18	7		105	106	0608	19.340	
19	6		105	106	0607	19.339	
20	5		105	106	0607	19.338	
21	4		105	106	0607	19.337	
22	3		105	105	0607	19.338	
23	2		105	105	0607	19.341	
24	1		105	105	0607	19.342	

CTD Log Sheet

cruise: 0415-3	type:	station: 51
leg: 3	cast #: 0415051	depth: To 1200 m

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	22 AUG 05	0658	30 10.736	68 34.981		Loc ^B 2070
On Deck	22 AUG 05	0800	30 9.925	68 34.898		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	3	0800	20.290	
2	23		0	3	0759	25.580	
3	22		20	20	0758	24.255	
4	21		20	20	0758	24.277	
5	20		40	40	0757	23.400	
6	19		40	40	0757	23.241	
7	18		60	60	0756	21.628	
8	17		60	60	0755	21.624	
9	16		70	70	0755	19.953	
10	15		70	70	0754	19.938	
11	14		80	80	0754	19.636	
12	13		80	80	0754	19.602	
13	12		90	90	0753	19.354	
14	11		100	100	0752	19.269	
15	10		100	100	0752	19.269	
16	9		110	110	0751	19.240	
17	8		120	120	0750	19.193	
18	7		120	120	0750	19.193	
19	6		140	140	0749	19.148	
20	5		140	140	0749	19.147	
21	4		200	200	0747	18.993	
22	3		300	300	0745	18.645	
23	2		500	500	0740	17.852	
24	1		700	700	0736	15.001	

CTD Log Sheet

cruise: 00415-3	type:	station: 52
leg: 3	cast #: 00415052	depth: To 1200 m

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	22 AUG 05	0920	30 10.686	68 22.150		#2571
On Deck	22 AUG 05	1019	30 9.896	68 22.380		20 Km E of EC

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	2	1019	27.698	
2	23		0	2	1019	27.697	
3	22		20	20	1018	25.580	
4	21		20	20	1018	25.584	
5	20		40	40	1016	24.642	
6	19		40	40	1016	23.754	
7	18		60	60	1015	20.579	
8	17		60	60	1015	20.495	
9	16		70	70	1014	20.036	
10	15		70	70	1014	19.999	
11	14		80	80	1013	19.811	
12	13		80	80	1013	19.751	
13	12		90	90	1012	19.550	
14	11		100	100	1011	19.531	
15	10		100	100	1011	19.489	
16	9		110	110	1010	19.353	
17	8		120	120	1010	19.271	
18	7		120	120	1010	19.254	
19	6		140	140	1009	19.143	
20	5		140	140	1008	19.141	
21	4		200	200	1007	18.915	
22	3		300	300	1004	18.617	
23	2		500	500	1000	17.794	
24	1		700	700	0956	14.231	

CTD Log Sheet

cruise: <i>OC 415-3</i>	type: <i>CTD</i>	station: <i>53</i>
leg: <i>3</i>	cast #: <i>OC 415053</i>	depth: <i>1200</i>

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	<i>22-Aug-05</i>	<i>1140</i>	<i>30 10.57</i>	<i>68 09.71</i>		<i>Loc 2072</i>
On Deck	<i>6</i>	<i>1224</i>	<i>30 10.099</i>	<i>68 09.863</i>		<i>40 Km E of EC</i>

Niskin Information

23 data errors, 2 spikes

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
							<i>1200 @ 1158</i>
1	24		0	2	1224	28.516	
2	23		0	2		28.498	
3	22		20	20	1223	25.797	
4	21		20	20		26.807	
5	20		40	40	1222	23.902	
6	19		40	40		23.840	
7	18		60	60	1221	20.845	
8	17		60	60		20.707	
9	16		70	70	1221	20.341	
10	15		70	70		20.276	
11	14		80	80	1220	19.940	<i>.29</i>
12	13		80	80		19.877	
13	12		90	90	1219	19.724	<i>.34</i>
14	11		100	100	1218	19.518	<i>.61</i>
15	10		100	100		19.520	<i>.59</i>
16	9		110	110	1217	19.367	
17	8		120	120	1216	19.288	<i>.44</i>
18	7		120	120		19.289	
19	6		140	140	1215	19.149	
20	5		140	140		19.150	
21	4		200	200	1214	18.869	
22	3		300	300	1212	18.477	
23	2		500	500	1208	17.228	
24	1		700	700	1205	13.716	

CTD Log Sheet

cruise: 00415-3	type: CTD	station: 54 54	
leg: 3	cast #: 00415054	depth: 1200	

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	22-Aug-05	1452	30 10.700	67 44.682		part 2074
On Deck	11	1543	30 10.356	67 45.074		80 Km Ed/EE

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	3	1544	28.830	1200 @ 1513
2	23		0	3		28.817	
3	22		20	20	1542	27.648	
4	21		20	20		27.614	
5	20		40	39	1541	23.672	
6	19		40	40		23.	
7	18		60	60	1540	21.476	
8	17		60	60		21.523	
9	16		70	70	1539	20.932	
10	15		70	70		20.905	
11	14		80	80	1538	20.594	
12	13		80	80		20.584	
13	12		90	90	1537	20.164	.21
14	11		100	100	1536	19.750	.32
15	10		100	100		19.766	
16	9		110	110	1534	19.575	.95.
17	8		120	120	1533	19.387	
18	7		120	120		19.390	
19	6		140	140	1532	19.074	
20	5		140	140		19.083	
21	4		200	200	1531	18.666	
22	3		300	300	1528	18.231	
23	2		500	500	1524	16.403	
24	1		700	700	1521	12.413	

CTD Log Sheet

cruise: 05415-3	type: CTD	station: 55	
leg: 3	cast #: 05415055	depth: To 200 m	

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	23 AUG 05	1120	29 56.574	68 57.222		by Prod Army
On Deck	23 AUG 05	1135	29 56.515	68 57.186		

Niskin Information

After VPR recovery

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	2	1135	29.742	
2	23		12	12	1134	29.328	
3	22		40	40	1133	21.339	
4	21		↑				
5	20						
6	19						
7	18						
8	17						
9	16						
10	15						
11	14						
12	13						
13	12						
14	11						
15	10						
16	9						
17	8						
18	7		40		1131		
19	6		65		1128	19.256	
20	5		45				
21	4						
22	3						
23	2						
24	1		65		1128	19.273	

CTD Log Sheet

cruise: <i>OC415-3</i>	type: <i>CTD</i>	station: <i>56</i>
leg: <i>3</i>	cast #: <i>OC415056</i>	depth: <i>1200</i>

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	<i>23-Aug-05</i>	<i>1617</i>	<i>29 58.542</i>	<i>68 58.688</i>	<i>CTD</i>	<i>by Prod. Array</i>
On Deck		<i>1707</i>	<i>29 59.026</i>	<i>68 58.422</i>		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
							<i>1200 @ 1638</i>
1	24		0	2	<i>1707</i>	<i>28.106</i>	
2	23		0	2		<i>28.058</i>	
3	22		20	20	<i>1706</i>	<i>26.533</i>	
4	21		20	20		<i>26.650</i>	
5	20		40	40	<i>1704</i>	<i>24.442</i>	
6	19		40	40		<i>24.401</i>	
7	18		60	60	<i>1703</i>	<i>20.336</i>	
8	17		60	60		<i>20.361</i>	
9	16		70	70	<i>1702</i>	<i>19.992</i>	
10	15		70	70		<i>20.013</i>	
11	14		80	80	<i>1701</i>	<i>19.512</i>	<i>-30</i>
12	13		80	80		<i>19.512</i>	
13	12		90	90	<i>1659</i>	<i>19.256</i>	<i>1.76</i>
14	11		100	100	<i>1659</i>	<i>19.210</i>	<i>1.62</i>
15	10		100	100		<i>19.211</i>	
16	9		110	110	<i>1657</i>	<i>19.111</i>	<i>.97</i>
17	8		120	120	<i>1657</i>	<i>19.085</i>	
18	7		120	120		<i>19.085</i>	
19	6		140	140	<i>1655</i>	<i>19.029</i>	
20	5		140	140		<i>19.029</i>	
21	4		200	200	<i>1653</i>	<i>18.913</i>	
22	3		300	300	<i>1651</i>	<i>18.571</i>	
23	2		500	500	<i>1648</i>	<i>17.984</i>	
24	1		700	700	<i>1645</i>	<i>13.470</i>	

CTD Log Sheet

cruise: 0c415-3	type:	station: 57
leg: 3	cast #: 0c415057	depth: To 1200 m

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	23 AUG 05	2326	29 16.734	67 57.140		A 1778
On Deck	24 AUG 05	0012	29 16.782	67 56.844		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	3	0012	28.704	
2	23		0	3	0012	28.706	
3	22		20	20	0011	27.570	
4	21		20	20	0011	27.547	
5	20		40	40	0011	23.328	
6	19		40	40	0010	23.339	
7	18		60	60	0010	21.710	
8	17		60	60	0009	21.699	
9	16		70	70	0009	21.029	
10	15		70	70	0009	21.027	
11	14		80	80	0008	20.356	
12	13		80	80	0008	20.281	
13	12		90	90	0007	19.977	
14	11		100	100	0007	19.665	
15	10		100	100	0007	19.650	
16	9		110	110	0006	19.507	
17	8		120	120	0005	19.335	
18	7		120	120	0005	19.335	
19	6		140	140	0004	19.164	
20	5		140	140	0004	19.165	
21	4		200	200	0003	18.812	
22	3		300	300	0001	18.457	
23	2		500	500	2357	16.776	
24	1		700	700	2354	12.851	

CTD Log Sheet

cruise: 0C415-3	type:	station: 58
leg: 3	cast #: 0C415058	depth: To 1200 m

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	24 AUG 05	0632	29 38.369	68 22.251		LOT # 1894
On Deck	24 AUG 05	0729	29 38.172	68 22.032		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	3	0729	28.443	
2	23		0	3	0729	28.442	
3	22		20	20	0728	26.070	
4	21		20	20	0728	26.060	
5	20		40	40	0727	23.568	
6	19		40	40	0725	23.533	
7	18		60	60	0725	21.591	
8	17		60	60	0725	21.551	
9	16		70	70	0724	20.675	
10	15		70	70	0724	20.664	
11	14		80	80	0723	20.299	
12	13		80	80	0723	20.299	
13	12		90	90	0722	19.925	
14	11		100	100	0721	19.685	
15	10		100	100	0721	19.685	
16	9		110	110	0720	19.453	
17	8		120	120	0720	19.333	
18	7		120	120	0719	19.329	
19	6		140	140	0719	19.171	
20	5		140	140	0718	19.170	
21	4		200	200	0717	18.891	
22	3		300	300	0714	18.584	
23	2		500	500	0710	17.419	
24	1		700	700	0706	13.696	

CTD Log Sheet

cruise: 0C415-3	type:	station: 59
leg: 3	cast #: 0C415059	depth: To 1200 m

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	24 AUG 05	0910	29 49.173	68 34.580		LC 1952
On Deck	24 AUG 05	1009	29 48.863	68 34.321		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	3	1009	27.240	
2	23		0	3	1009	27.245	
3	22		20	20	1008	25.065	
4	21		20	20	1007	25.069	
5	20		40	40	1007	24.429	
6	19		40	40	1006	24.413	
7	18		60	60	1005	21.431	
8	17		60	60	1005	21.398	
9	16		70	70	1005	20.201	
10	15		70	70	1004	20.199	
11	14		80	80	1003	19.924	
12	13		80	80	1003	19.924	
13	12		90	90	1003	19.594	
14	11		100	100	1002	19.451	
15	10		100	100	1002	19.424	
16	9		110	110	1001	19.331	
17	8		120	120	1000	19.208	
18	7		120	120	1000	19.266	
19	6		140	140	0959	19.174	
20	5		140	140	0959	19.177	
21	4		200	200	0957	18.957	
22	3		300	300	0955	18.588	
23	2		500	500	0951	17.788	
24	1		700	700	0947	14.592	

CTD Log Sheet

cruise: <i>OC 415-3</i>	type: <i>CTD</i>	station: <i>60</i>	
leg: <i>3</i>	cast #: <i>OC 415 d60</i>	depth: <i>1200</i>	

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	<i>24-Aug-05</i>	<i>1150</i>	<i>29 59.948</i>	<i>68 46.912</i>		<i>Loc 2010</i>
On Deck		<i>1237</i>	<i>29 59.864</i>	<i>68 47.129</i>		<i>ZC</i>

Niskin Information

14 moderators

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	2	<i>1237</i>	<i>27.071</i>	<i>1200 @ 1208</i>
2	23		0	2		<i>27.084</i>	
3	22		20	20	<i>1236</i>	<i>25.319</i>	
4	21		20	20		<i>25.341</i>	
5	20		40	40	<i>1235</i>	<i>24.507</i>	
6	19		40	40		<i>24.594</i>	
7	18		60	60	<i>1234</i>	<i>20.771</i>	
8	17		60	60		<i>20.776</i>	
9	16		70	70	<i>1233</i>	<i>20.208</i>	<i>only 1 bottle @ 7.</i>
10	15		80	80	<i>1232</i>	<i>19.769</i>	
11	14		80	80		<i>19.781</i>	
12	13		90	90	<i>1231</i>	<i>19.532</i>	<i>.39</i>
13	12		100	100	<i>1231</i>	<i>19.331</i>	
14	11		100	100		<i>19.328</i>	<i>.57</i>
15	10		110	110	<i>1229</i>	<i>19.199</i>	
16	9		120	120	<i>1228</i>	<i>19.160</i>	
17	8		120	120		<i>19.160</i>	
18	7		140	140	<i>1227</i>	<i>19.055</i>	
19	6		140	140		<i>19.055</i>	
20	5		200	200	<i>1225</i>	<i>18.848</i>	
21	4		300	300	<i>1223</i>	<i>18.577</i>	
22	3		500	500	<i>1220</i>	<i>17.974</i>	
23	2		700	700	<i>1216</i>	<i>14.363</i>	
24	1		850	850	<i>1213</i>	<i>10.593</i>	<i>O₂ min</i>

CTD Log Sheet

cruise: <i>0C415-3</i>	type: <i>CTD</i>	station: <i>61</i>
leg: <i>3</i>	cast #: <i>0C415061</i>	depth: <i>1200</i>

Position Information

Rebooted CTD computer after CTD to

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	<i>24-Aug-05</i>	<i>1639</i>	<i>30 01.366</i>	<i>68 52.373</i>		<i>deep O₂ Anomaly</i>
On Deck		<i>1729</i>	<i>30 01.760</i>	<i>68 51.829</i>		<i>by Sed Trap A</i>

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		<i>500</i>	<i>502</i>	<i>1721</i>	<i>17.982</i>	
2	23		<i>500</i>	<i>500</i>			
3	22		<i>500</i>	<i>500</i>		<i>17.986</i>	
4	21		<i>600</i>	<i>600</i>	<i>1718</i>	<i>16.950</i>	
5	20		<i>600</i>	<i>600</i>			
6	19		<i>600</i>	<i>600</i>		<i>16.972</i>	
7	18		<i>700</i>	<i>700</i>	<i>1716</i>	<i>12.731</i>	
8	17		<i>700</i>	<i>700</i>			
9	16		<i>700</i>	<i>700</i>		<i>12.875</i>	
10	15		<i>800</i>	<i>800</i>	<i>1713</i>	<i>11.507</i>	
11	14		<i>800</i>	<i>800</i>			
12	13		<i>800</i>	<i>800</i>		<i>11.516</i>	
13	12		<i>900</i>	<i>900</i>	<i>1711</i>	<i>10.366</i>	<i>O₂ min</i>
14	11		<i>900</i>	<i>900</i>			
15	10		<i>900</i>	<i>900</i>		<i>10.345</i>	
16	9		<i>1000</i>	<i>1000</i>	<i>1709</i>	<i>9.375</i>	
17	8		<i>1000</i>	<i>1000</i>			
18	7		<i>1000</i>	<i>1000</i>		<i>9.376</i>	
19	6		<i>1100</i>	<i>1100</i>	<i>1707</i>	<i>7.633</i>	
20	5		<i>1100</i>	<i>1100</i>			
21	4		<i>1100</i>	<i>1100</i>			
22	3		<i>1200</i>	<i>1200</i>	<i>1704</i>	<i>6.331</i>	
23	2		<i>1200</i>	<i>1200</i>		<i>6.331</i>	
24	1		<i>1200</i>	<i>1200</i>		<i>6.331</i>	

CTD Log Sheet

cruise: <i>OC 915-3</i>	type: <i>CTD</i>	station: <i>62</i>
leg: <i>3</i>	cast #: <i>OC 15062</i>	depth: <i>1200</i>

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	<i>24-Aug-05</i>	<i>1808</i>	<i>30 01.854</i>	<i>68 51.636</i>		<i>near EC</i>
On Deck		<i>1901</i>	<i>30 01.428</i>	<i>68 50.882</i>		<i>67 Sed Trap A</i>

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	2	<i>1901</i>	<i>27.393</i>	
2	23		0	2		<i>27.525</i>	
3	22		20	20	<i>1900</i>	<i>25.231</i>	
4	21		20	20		<i>25.183</i>	
5	20		40	40	<i>1859</i>	<i>23.593</i>	
6	19		40	40		<i>23.593</i>	
7	18		60	60	<i>1857</i>	<i>20.301</i>	
8	17		60	60		<i>20.302</i>	
9	16		70	70	<i>1856</i>	<i>20.133</i>	
10	15		70	70		<i>20.135</i>	
11	14		80	81	<i>1855</i>	<i>19.920</i>	
12	13		80	80		<i>19.951</i>	
13	12		90	90	<i>1854</i>	<i>19.605</i>	<i>.33</i>
14	11		100	100	<i>1853</i>	<i>19.369</i>	<i>.53</i>
15	10		100	100		<i>19.360</i>	
16	9		110	110	<i>1852</i>	<i>19.255</i>	<i>.51</i>
17	8		120	120	<i>1851</i>	<i>19.206</i>	<i>.68.</i>
18	7		120	120		<i>19.207</i>	
19	6		140	140	<i>1850</i>	<i>19.098</i>	<i>.55</i>
20	5		140	140		<i>19.100</i>	
21	4		200	200	<i>1847</i>	<i>18.901</i>	
22	3		300	300	<i>1845</i>	<i>18.519</i>	
23	2		500	500	<i>1842</i>	<i>17.994</i>	
24	1		700	700	<i>1838</i>	<i>13.242</i>	

1200 @ 1830

2nd Cast

CTD Log Sheet

cruise: <i>OC415-3</i>	type: <i>CTD</i>	station: <i>63</i>
leg: <i>3</i>	cast #: <i>OC415063</i>	depth: <i>1200</i>

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	<i>24 Aug 05</i>	<i>2252</i>	<i>30 32.529</i>	<i>69 24.523</i>		<i>Grid 2184</i>
On Deck	<i>24 Aug 05</i>	<i>2339</i>	<i>30 33.198</i>	<i>69 24.636</i>		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	3	2339	28.670	
2	23		0	3	2339	28.667	
3	22		20	20	2338	28.353	
4	21		20	20	2337	28.341	
5	20		40	40	2337	23.570	
6	19		40	40	2336	23.566	
7	18		60	60	2336	21.541	
8	17		60	60	2335	21.505	
9	16		70	70	2335	21.095	
10	15		70	70	2335	21.090	
11	14		80	80	2334	20.575	
12	13		80	80	2334	20.575	
13	12		90	90	2333	20.272	
14	11		100	100	2333	20.108	
15	10		100	100	2332	20.106	
16	9		110	110	2332	19.844	
17	8		120	120	2331	19.583	
18	7		120	120	2331	19.591	
19	6		140	140	2330	19.377	
20	5		140	140	2330	19.387	
21	4		200	200	2329	18.844	
22	3		300	300	2326	18.389	
23	2		500	500	2323	16.786	
24	1		700	700	2320	13.161	

CTD Log Sheet

cruise: 00415-3	type:	station: 64
leg: 3	cast #: 00415064	depth:

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	25 AUG 05	0036	30 32.467	69 24.379		INCUBATION CAST
On Deck	25 AUG 05	0044	30 32.466	69 24.264		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		56	56			
2	23			56	0042	22.304	
3	22						
4	21						
5	20						
6	19						
7	18						
8	17						
9	16						
10	15						
11	14						
12	13						
13	12						
14	11						
15	10						
16	9						
17	8						
18	7						
19	6						
20	5						
21	4						
22	3						
23	2						
24	1		56	56	0039	22.305	

CTD Log Sheet

cruise: 0c415-3	type:	station: 65
leg: 3	cast #: 0c415065	depth:

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	25 AUG 05	0512	30 21.627	69 12.005		Loc # 2126
On Deck	25 AUG 05	0604	30 21.610	69 11.082		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	4	0604	27.785	
2	23		0	4	0604	27.787	
3	22		20	20	0603	26.124	
4	21		20	20	0603	26.094	
5	20		40	40	0602	24.129	
6	19		40	40	0602	24.189	
7	18		60	60	0601	21.162	
8	17		60	60	0601	21.113	
9	16		70	70	0600	20.750	
10	15		70	70	0600	20.703	
11	14		80	80	0559	20.206	
12	13		80	80	0559	20.206	
13	12		90	89	0558	19.925	
14	11		100	100	0558	19.767	
15	10		100	100	0557	19.765	
16	9		110	110	0557	19.531	
17	8		120	120	0556	19.421	
18	7		120	120	0556	19.414	
19	6		140	140	0555	19.252	
20	5		140	140	0553	19.264	
21	4		200	200	0552	18.939	
22	3		300	300	0550	18.546	
23	2		500	500	0547	17.501	
24	1		700	700	0544	14.170	

CTD Log Sheet

cruise: 02415-1	type:	station: 66
leg: 3	cast #: 02415066	depth:

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	25 AUG 05	0734	30 10.737	69 59.454		CR 2068
On Deck	25 AUG 05	0834	30 10.758	68 59.193		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	3	0834	27.685	
2	23		0	3	0834	27.683	
3	22		20	20	0833	25.610	
4	21		20	20	0832	25.571	
5	20		40	40	0831	22.091	
6	19		40	40	0831	22.050	
7	18		60	60	0830	19.936	
8	17		60	60	0830	19.855	
9	16		70	70	0829	19.768	
10	15		70	70	0829	19.773	
11	14		80	80	0828	19.536	
12	13		80	80	0828	19.526	
13	12		90	90	0827	19.358	
14	11		100	100	0826	19.290	
15	10		100	100	0826	19.251	
16	9		110	110	0825	19.184	
17	8		120	120	0825	19.127	
18	7		120	120	0824	19.118	
19	6		140	140	0824	19.055	
20	5		140	140	0823	19.051	
21	4		200	200	0822	18.911	
22	3		300	300	0818	18.595	
23	2		500	500	0814	17.908	
24	1		700	700	0810	14.383	

CTD Log Sheet

cruise: 0c415-3	type:	station: 67
leg: 3	cast #: 0c415057	depth:

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	25 AUG 05	1018	29 56.204	68 49.525		6y Sed Trep A
On Deck	25 AUG 05	1112	29 55.902	68 50.231		O ₂ anomaly Sta

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0	0	1112	27.116	
2	23		0	100	1110	19.278	
3	22		20	200	1108	18.823	
4	21		20	200	1108	18.824	
5	20		40	300	1106	18.517	
6	19		40	300		18.521	
7	18		60	400	1104	18.338	
8	17		60	400		18.338	
9	16		70	500	1102	17.982	
10	15		70	500		17.980	
11	14		80	600	1100	16.990	
12	13		80	600		16.902	
13	12		90	700	1057	14.632	
14	11		100	700		14.634	
15	10		100	800	800 1055	11.525	
16	9		110	800	800 1055		
17	8		120	850 900	1054	10.861	
18	7		120	850 900	1054	10.850	
19	6		140	900 1000	1052	10.105	
20	5		140	900 1000	900	10.105	
21	4		200	1000 1100	1050	8.890	
22	3		200	1000 1100	1050	8.895	
23	2		500	1200	1046	6.070	
24	1		200	1200	1045	6.079	

CTD Log Sheet

cruise: <u>OC415-3</u>	type: <u>CTD</u>	station: <u>68</u>
leg: <u>3</u>	cast #: <u>OC415068</u>	depth: <u>1200 50 1256</u>

Position Information

CTD Status	Date (z)	Time (z)	Latitude	Longitude	System	Remarks
In Water	<u>25-Aug-05</u>	<u>1312</u>	<u>30 10.656</u>	<u>68 34.514</u>	<u>CTD</u>	<u>grid 2070</u>
On Deck	<u>11</u>	<u>1354</u>	<u>30 10.171</u>	<u>68 34.285</u>		

Niskin Information

Niskin #on CTD	Niskin Serial #CTD	Unique Bottle ID	Desired Depth (m)	Actual Depth (m)	Time Fired (z)	Temp At Bottle Fire	Remarks
1	24		0			27.931	
2	23		0	3		29.730	
3	22		20	20	1353	25.140	
4	21		20	20		25.130	
5	20		40	40	1352	23.791	
6	19		40	40		23.790	
7	18		60	60	1351	20.799	
8	17		60	60		20.794	
9	16		70	70	1351	20.136	
10	15		70	70		20.136	
11	14		80	80	1350	19.873	
12	13		80	80		19.813	
13	12		90	90	1349	19.577	.29
14	11		100	100	1348	19.448	.60
15	10		100	100		19.419	
16	9		110	110	1348	19.303	
17	8		120	120	1347	19.260	
18	7		120	120		19.257	
19	6		140	140	1347	19.133	
20	5		140	140		19.135	
21	4		200	200	1345	18.904	
22	3		300	300	1343	18.539	
23	2		500	500	1340	17.710	
24	1		700	700	1337	14.272	

1200 @ 1329