

Rosette Log for IOS Cruise ID 2008-30

Cast # 005 UTC Date (ddmmmyyyy) 23 07 2008

Ice Coverage 0 /10

Water Depth(below hull) 2067 m

Station MK5 UTC Time 11:11

In Air pressure (before/after) 1026

Sound Speed 1450

CTD File 200830-05 Lat (N) 71 0.079

Lon (W) 140 0.004

CTD Operator EF/MK

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DOC (WHOI)	DOC (WHOI)	DOC (K. Brown or IOS)	C-13 (K. Brown)	CDOM	DOC	CARBO	Chl-a	BAC	ALK	NUT	SAL	O18	Ba	NH4	I-129	Cs-137	Comments
98	Bottom		1	✓			✓	101	4.5											✓	✓			✓			
99		2000	2	✓			✓	102	4.5										✓	✓	✓	✓					
100		1500	3	✓			✓	103, 104, 105	4.4									✓									
101		1000	4	✓	✓	9024		106	4.0					✓	✓	✓											
102		800	5	✓				107						✓	✓	✓											
103		600	6	✓				108	3.6					✓	✓	✓				✓	✓			✓			
104		500	7	✓	✓	410		109	3.4					✓	✓	✓								12			
105		450	8	✓	✓	7433		110	3.4					✓	✓	✓								✓			
106	Tmax	398	9	✓	✓	7332, 9047		111	3.3					✓	✓	✓											
107	34.75	334	10	✓	✓	7637		112	3.3												✓						
108	34.7	307	11	✓	✓	8980		113	3.5											✓							
109	34.6	275	12	✓	✓	7552		114	3.7																		
110	34.4	235	13	✓	✓	9837		115	3.9					✓	✓	✓											
111	34	195	14	✓				116	4.7					✓	✓	✓			✓			✓	✓				
112	33.7	180	15	✓			✓	117, 118, 119	4.7											✓							
113	33.4	169	16	✓				120	4.7											✓							
114	33.8	156	17	✓	✓	1906, 9114		121	4.5					✓	✓	✓		✓									
115	32.9	146	18	✓				122	4.7					✓	✓	✓			✓			✓	✓				
116	32.6	126	19	✓			✓	123, 124, 125	4.6									✓									
117	32.3	103	20	✓				126	4.5					✓	✓	✓			✓			✓	✓				
118	chl max	48	21	✓				127	3.5					✓	✓	✓		✓									
119		30	22	✓				401	3.5					✓	✓	✓				✓							
120		20	23	✓				418						✓	✓	✓											
121		5	24	✓	✓	7352	✓	25	1.4					✓	✓	✓		✓	✓	✓	✓	✓	✓	✓			

Bottle integrity: First test lower petcock then test top valve. Check means pass, 'x' means failed.

Comments:

12 NH4 at 500m

3-trip

Rosette Log for IOS Cruise ID 2008-30

Cast # 004

UTC Date (ddmmmyyyy) 23/07/2008

Ice Coverage 0/10

Water Depth(below hull) 2446 m

Station MK6

UTC Time 06:06

In Air pressure (before/after) -0.94/-1.0

Sound Speed 1450

CTD File 200830-04

Lat (N) 71 35.153

Lon (W) 140 0.538

CTD Operator EE/MK

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC (WHOI)	DOC (WHOI)	DIC (K. Brown or IOS)	C-13 (K. Brown)	CDOM	DOC	CARBO	Chl-a	BAC	ALK	NUT	SAL	O18	Ba	NH4	I-129	Cs-137	Comments
74	Bottom		1	✓		30	✓	308,409,412	4.5											✓	✓						
75		2000	2	✓	✓		✓											✓				✓	✓				*not tripped
76		1500	3	✓	✓	7433		309	4.2									✓				✓	✓				
77		1000	4	✓	✓	1224, 9069		322	3.9					✓	✓	✓											
78		800	5	✓	✓			313	3.7					✓	✓	✓				✓							
79		600	6	✓	✓			326	3.4																		
80		500	7	✓	✓	7332		410	3.2					✓	✓	✓											
81		450	8	✓	✓	7629		324	3.1																		
82	Tmax	406	9	✓	✓	9054, 41D		404	2.9					✓	✓	✓											
83	34.75	341	10	✓	✓	9066		323	3.1																		
84	34.7	317	11	✓	✓	7166		10	3.2											✓		✓	✓				
85	34.6	287	12	✓	✓	7222	✓	416,304,318	3.3																		
86	34.4	249	13	✓	✓	7676		314	3.6					✓	✓	✓					✓						
87	34	214	14	✓	✓			301	5					✓	✓	✓											
88	33.7	198	15	✓	✓			307	5.2																		
89	33.4	187	16	✓	✓			415	5.3																		
90	33.1	175	17	✓	✓	7504		419	4.4					✓	✓	✓		✓		✓							
91	32.9	163	18	✓	✓			15	4.6					✓	✓	✓											
92	32.6	142	19	✓	✓			427	4.6																		
93	32.3	119	20	✓	✓			423	4.3					✓	✓	✓	✓					✓	✓				
94	Tmin	69	21	✓	✓		✓	312,408,403	3.0								✓	✓	✓	✓							
95	Chl max	29	22	✓	✓			414	3.1					✓	✓	✓	✓	✓									
96		20	23	✓	✓			128	2.8					✓	✓	✓	✓	✓									
97		5	24	✓	✓	9041	✓	319	1.4					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				

Bottle integrity: First test lower petcock then test top valve. Check means pass, 'x' means failed.

Comments:

Rosette Log for IOS Cruise ID 2008-30

Cast # 3 UTC Date (ddmmmyyyy) 22 | 07 | 2008 Ice Coverage 0/10 Water Depth(below hull) 1092 m
 Station CAROS UTC Time 10:59 In Air pressure (before/after) -1.10 / -1.16 Sound Speed 1441
 CTD File 200830-003 Lat (N) 71 49.652 Lon (W) 131 45.581 CTD Operator CF/SZ

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC (WHOI)	DOC (WHOI)	DIC (K. Brown or IOS)	C-13 (K. Brown)	CDOM	DOC	CARBO	Chl-a	BAC	ALK	NUT	SAL	O18	Ba	NH4	149	C3437	Comments
49	Bottom		1	✓	✓	7332	✓	414,405,9	4.3					✓	✓				✓	✓	✓	✓	✓				
50		1000	2	✓	✓		✓							✓	✓				✓	✓	✓	✓	✓				mix Did not close
51		800	3	✓	✓	7629	✓	423,8	4.0					✓	✓			✓	✓	✓	✓	✓					
52		700	4	✓	✓		✓	15, 428	4.1										✓	✓	✓	✓	✓				
53		600	5	✓	✓	9054	✓	30, 14	3.8					✓	✓				✓	✓	✓	✓	✓				
54		500	6	✓	✓	410	✓	301, 11	3.7					✓	✓				✓	✓	✓	✓	✓	24			
55		450	7	✓	✓		✓	307, 320	3.9					✓	✓				✓	✓	✓	✓	✓	✓			
56	Tmax	409	8	✓	✓	9066, 7433	✓	318, 425	3.6					✓	✓				✓	✓	✓	✓	✓				
57		400	9	✓	✓		✓	323, 321	3.6					✓	✓				✓	✓	✓	✓	✓				
58	34.75	319	10	✓	✓		✓	324, 325	3.7										✓	✓	✓	✓	✓				
59	34.7	297	11	✓	✓	1224	✓	326, 327	3.8									✓	✓	✓	✓	✓	✓				
60	34.6	265	12	✓	✓		✓	322, 328	4.0									✓	✓	✓	✓	✓	✓				
61	34.4	228	13	✓	✓	6906	✓	309, 17	4.3					✓	✓				✓	✓	✓	✓	✓				
62	34	187	14	✓	✓	7166	✓	412, 409, 310	4.8					✓	✓				✓	✓	✓	✓	✓				mix
63	33.5	158	15	✓	✓		✓	410, 421	4.8										✓	✓	✓	✓	✓				
64	33.1	139	16	✓	✓	7637	✓	213, 420	4.9					✓	✓				✓	✓	✓	✓	✓				
65	32.9	129	17	✓	✓		✓	219, 316	4.9					✓	✓				✓	✓	✓	✓	✓				
66	32.6	113	18	✓	✓		✓	212, 311	4.7					✓	✓				✓	✓	✓	✓	✓				
67	32.3	94	19	✓	✓	8980	✓	419, 401	4.7					✓	✓				✓	✓	✓	✓	✓				
68	Ch MAX	72	20	✓	✓	7552	✓	308, 424	4.5					✓	✓				✓	✓	✓	✓	✓				
69	TMAX	50	21	✓	✓		✓	403, 302	3.9					✓	✓				✓	✓	✓	✓	✓				
70	TMIN	35	22	✓	✓	9024 7222	✓	407, 304, 406, 314	3.4					✓	✓				✓	✓	✓	✓	✓				mix
71	20	20	23	✓	✓	7676	✓	314, 402, 315	3.2					✓	✓				✓	✓	✓	✓	✓				mix
72	5	5	24	✓	✓	7504	✓	416, 306	1.1					✓	✓				✓	✓	✓	✓	✓				

Bottle integrity: First test lower petcock then test top valve. Check means pass, 'x' means failed.

Comments:

4 bottles for calibration study:

[stop rosette, 30 sec, up 1m, down 2m, up 1m, 30 sec]

Then trip bottle

High, please run duplicates on stored samples

only 1 label for bot 6 NH4

4

Rosette Log for IOS Cruise ID 2008-30

Cast #002

Station AG5

CTD File 200830-002

UTC Date (ddmmmyyyy) 21.07.2008

UTC Time 05:55

Lat (N) 70 33.116

In Air Out

Air pressure -1.07

Ice Coverage 0/10

Water Depth(below hull) 637 m

Sound Speed 1441

CTD Operator EF

Samp #	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC, DOC (WHOI)	DIC (K. Brown)	CDOM	DOC	Carbohydrate	Chl-a	Bacteria	ALK	NUT	SAL	O18	Ba	NH4	I-129	Cs-137	Comments	
25	bottom	1	✓	VV	V	VVV	310, 410, 421	3.6, 3.5, 3.5			(V)	V					V	VVV	V	W					
26	600	2	✓				"				(V)	V					VV				W				- bottle not triggered
27	500	3	✓	VV	VV		420	3.6							V										
28	450	4	✓	VV			319	3.6													(10)				
29	400	5	✓	VV	V		316	3.6			(V)	V													
30	350	6	✓	VV			312	3.6			(V)	V													
31	341.7 272	7	✓	VV	V		318	3.6																	
32	34.6 202	8	✓	VV			419	3.5																	
33	34.4 152	9	✓	VV	V		407	3.7			(V)	V					VV	VV	W	VV					
34	34 105	10	✓	VV	V		308	4.4			(V)	V													
35	33.7 84	11	✓	VV			424	4.4																	
36	33.4 69	12	✓	VV			403	4.7							V										
37	33.1 59	13	✓	VV	V		302	4.6			(V)	V													
38	32.9 50	14	✓	VV	VV		427	4.7			(V)	V													
39	32.6 43	15	✓	VV	V		314	4.8			(V)	V		V	V		V		V	V					
40	32.3 37	16	✓	VV	V		402	4.7																	
41	chla 37	17	✓	VV		VVV	315, 416, 306	4.8, 4.8, 2.8			(V)	V		VVV	VV	VV	V	V	V	V	W				← some samples removed because depths so close
42	20	18	✓																						
43	20	19	✓																						
44	20	20	✓	VV	VV	V	412	1.2			(V)	V		VV		V	V	V	V	V	VV				
45	5	21	✓	VV	V	V	17	4.0			(V)	V		V	V	V	VV	V	W	VV	VV				
46	5	22	✓																						
47	5	23	✓																						
48	5	24	✓																						

Rosette Log for IOS Cruise ID 2008-30

Cast # 1

Station Test

CTD File 200830-001

UTC Date (ddmmmyyy) 20 | 07 | 2008

UTC Time _____

Lat (N) _____

Lon (W) _____

In Air pressure -1.1

Ice Coverage 0 / 10

Water Depth(below hull) 375 m

Sound Speed 1441 m/s

CTD Operator All

Samp #	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC-DOC (WHOI)	DIC (K. Brown)	CDOM	DOC	Carbohydrate	Chl-a	Bacteria	ALK	NUT	SAL	O18	Ba	NH4	I-129	Cs-137	Comments
1	75	1	✓	✓	VV 8780 7552	✓					✓	✓		✓	✓	✓	✓	✓	✓	✓				
2	"	2	✓	✓	VV 9024	✓																		
3	"	3	✓	✓	VV 9044 7839	✓																		
4	"	4	✓	✓	VV 7676 7504	✓																		
5	50	5	✓			✓					✓	✓		✓	✓	✓	✓	✓	✓	✓	VVV			
6	"	6	✓	✓		✓															VVV			
7	"	7	✓	✓		✓															VVV			
8	"	8	✓	✓		✓		22, 20, 18, 30.5, 30.3 .12				✓	✓	✓	✓	✓	✓	✓	✓	✓				
9	25	9	✓	✓		✓								✓	✓	✓	✓	✓	✓	✓				
10	"	10	✓	✓		✓																		
11	"	11	✓	✓		✓																		
12	"	12	✓	✓		✓																		
13	15	13	✓	✓		✓					✓	✓		✓	✓	✓	✓	✓	✓	✓				
14	"	14	✓	✓		✓																		
15	"	15	✓			✓																		
16	"	16	✓	✓		✓																		
17	5	17	✓	✓		✓					✓	✓		✓	✓	✓	✓	✓	✓	✓				
18	"	18	✓	✓		✓																		
19	"	19	✓	✓		✓																		
20	"	20	✓	✓		✓		25, 418, 19, 411, 417 13.23																
21	"	21	✓			✓		426, 401, 422, 6.5, 4, 3, 2																
22	"	22	✓	✓		✓																		
23	"	23	✓			✓																		
24	"	24	✓	✓		✓											✓	✓						

leaky bottom
leaky bottom.