

Water Properties Group

Rosette Log

For Diana Varela and Connie Lovejoy: Phyto/Micro

Use ID: 2007-19 Station: AG5 Event #: 1 Cast #: 1 CTD File: 200720_001 UTC Date (dd mmm yyyy): 28 Jul 2007

in	Sample #	Oxygen Flask #	Oxygen mL/L	Rosette Operation		Diana Varela										Connie Lovejoy										Bot Quality	
				Target Pressure	Confirmed Pressure	Pro NC	Pro NH ₄	Pro U	PON POC	Bio Si	Chl a	PID L	PID F	Nut NH ₄	Nut Urea	Nut NPS	DIC	Fish E	DNA	Chl a	RNA	HP LC	Bac	Nut	Bio mas		
I	1			85	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓											
I	2			85	✓												✓										
K	3			76	✓														2	2	2		1	1	1		
K	4			70	✓																						
I	5			49	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓											
I	6			49	✓												✓										
K	7			40	✓														2	2	2		1	1	1		
K	8			40	✓																						
K	9			35	✓														2	2	2	2	2	1	1	1	
K	10			35	✓																						
I	11			23	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓										
I	12			23	✓												✓										
I	13			12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓											
I	14			12	✓												✓										
I	15			8	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓											
I	16			8	✓												✓										
K	17			5	✓														2	2	2	2	2	1	1	1	
K	18			5	✓																						
I	19			2	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓											
L	20			2	✓												✓										

Ship: LSSL
Entered By: JE
Checked By:

Start Scan: 19000
Bottom Depth: 631+9 m
ISUS Cleaned: (Y/N)
Trans Cleaned: (Y/N)
Camera On: Y/N
In-Air Pressure:
Ice Coverage: 0/10

Time	Local	UTC
Start		1416
Bottom		1434
End		1458

Start Position
Lat: 70 ° 32.83
Lon: 122 ° 54.14

Bottom Position
Lat: 70 ° 32.83
Lon: 122 ° 53.85

End Position
Lat: 70 ° 32.86
Lon: 122 ° 53.61

Comments: secondary conductivity sensor dropping out, reading ~8 instead of ~26

CTD only
#8, #19, #64,
#106

Water Properties Group

Rosette Log

For Diana Varela and Connie Lovejoy: Phyto/Micro

Cruise ID: 2007-20 Station: AGLS Event #: Cast #: 2 CTD File: 200720-002 UTC Date (dd mmm yyyy): 28 Jul 2007

Niskin #	Sample #	Oxygen Flask #	Oxygen mL/L	Rosette Operation		Diana Varela												Connie Lovejoy								Bot Quality
				Target Depth	Confirmed ✓ Pressure	Pro 1	Pro 2	Pro 3	PON POC	Bio Si	Chl a	Phy IDL	Phy IDF	Nut NH4	Nut Urea	Nut NPS	DIC	Fish E	DNA	Chl a	RNA	HP LC	Bac	Nut	Bio mas	
1	21			Bot-5	618																					
2	22			600															✓✓	✓✓			✓	✓	✓	
3	23			600																						
4	24																									
5	25																									
6	26																									
7	27																									
8	28																									
9	29																									
10	30			200															✓✓	✓✓			✓	✓	✓	
11	31			200																						
12	32																									
13	33																									
14	34																									
15	35																									
16	36																									
17	37																									
18	38																									
19	39																									
20	40																									
21	41																									
22	42																									
23	43																									
24																										

Ship: LSSL
Entered By: SE
Checked By:

Start Scan: 7900
Bottom Depth: 613.99 m
ISUS Cleaned: Y / N
Trans Cleaned: Y / N
Camera On: Y / N
In-Air Pressure:
Ice Coverage: / 10

Time	Local	UTC
Start		1547
Bottom		1611
End		1630

Start Position
Lat: 70 ° 32.97
Lon: 122 ° 53.28

Bottom Position
Lat: °
Lon: °

End Position
Lat: 70 ° 32.97
Lon: 122 ° 53.14

Comments:

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2007-19²⁰ Station: AG5 Event #: / Cast #: 2 CTD File: 200720_002 UTC Date (dd mmm yyyy): 28 Jul 2007

Niskin #	Sample #	Oxygen Flask #	Oxygen mL/L	Rosette Operation		Samples Taken																Comments			
				Target Pressure	Confirmed Pressure	Oxy 1	DIC	Ph age	Chl a	DOC	CD OM	Bac	Alk	NH ₄	Nut Yellow	Sal Yellow	Ba	O18	RMA DM	CB					
1	21	3198		Bot 5	✓ 618	✓									✓	vv								x✓	spigot drips w/air valve
2	22	—		600	✓											✓			✓						} stop wait 30s
3	23	—		600	✓											✓			✓						
4	24	3048/3038	3038	500	✓		vvv			✓	✓			vvv	vv	✓	✓	✓						vv	
5	25	3034		450	✓		✓								✓	✓								vv	
6	26	2086		420	✓ 3135	✓									✓	✓								vv	
7	27	2088		400	✓		✓			✓	✓				✓	✓								✓✓	
8	28	2025		350	✓		✓			✓	✓				✓	✓								x✓	spigot drips w/air
9	29	3104		236	✓ 316	✓									✓✓	✓								vv	
10	30	—		200	✓														✓						} stop wait 30s
11	31	—		200	✓														✓						
12	32	3116		34.4	✓ 190	✓				✓	✓	✓	✓	2	✓	2	✓	✓						vv	
13	33	3190		34	✓ 160					✓	✓	✓	✓	2	✓✓									x✓	spigot drip with air
14	34	2060		33.7	✓ 143									2										x✓	fast spigot drip "
15	35	3187		33.4	✓ 120									2										✓✓	
16	36	3201		33.1	✓ 97					✓	✓			2										✓✓	
17	37	3109		32.9	✓ 81					✓	✓			2										x✓	spigot drip w/vent cl
18	38	3108		32.6	✓ 51									2										✓✓	
19	39	3059		50	✓					✓	✓			2										✓✓	
20	40	2051/3009		32.3	✓ 39	2								2										✓✓	
21	41	3118	chl max	30	✓					✓	✓			x										✓✓	
22	42	3092		20	✓					✓	✓			2	2									✓✓	
23	43	2007		5	✓	✓				✓	✓	✓	✓	2	✓	2	✓	✓		✓				✓✓	
24																									

Ship: LSSL
Entered By: JE
Checked By:

Start Scan: 7900
Bottom Depth: 613 +9 m
ISUS Cleaned: Y/N
Trans Cleaned: Y/N
Camera On: Y/N
In-Air Pressure: 6.4
Ice Coverage: 0/10

Time	Local	UTC
Start		1547
Bottom		1611
End		1630

Start Position
Lat: 70 ° 32.77
Lon: 122 ° 53.28

Bottom Position
Lat: 70 ° 32.77
Lon: 122 ° 53.14

End Position
Lat: 70 ° 32.77
Lon: 122 ° 53.14

Comments: tmax = 400, 450, 500, add 350 DNA: 200, 200, Sal Bot
no tmax

oxygen box 1 salts yellow nuts yellow

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2007-20 Station: BI 1 Event #: / Cast #: 3 CTD File: 200720-003 UTC Date (dd mmm yyyy): 29 07 2007

Niskin #	Sample #	Oxygen Flask #	Oxygen mL/L	Rosette Operation		1 Samples Taken																	Comments
				Target Depth	Confirmed Pressure	Oxy	DOC	Ph age	Chl a	DOC	CD OM	Bac	Alk	NH4	Nut	Sal	Ba	O18	POC	RON	Si	C13	
1	44	3007		Bot-5	✓ 189 +5	✓				✓	✓	✓	✓	✓	✓	✓	✓					✓	slow spigot drip w/ air
2	45	3200/3057/3135		33.4	✓ 142	✓									✓	✓						✓	
3	46	3067		33.1	✓ 126	✓									✓							✓	
4	47	2032		32.9	✓ 113																	✓	
5	48	3043		32.6	✓ 91											✓						✓	
6	49	3137		32.3	✓ 71											✓						✓	
7	50	2049		50	✓				✓													✓	
8	51	2015		Chl Max	✓ 43	✓			✓						✓							✓	
9	52	2089/1	3058	20	✓				✓						✓							✓	oxy dup taken after
10	53	2084		5	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓	POC/CDOM
11																							
12																							
13																							
14																							
15																							
16																							
17																							
18																							
19																							
20																							
21																							
22																							
23																							
24																							

Ship: LSSL
Entered By: JC
Checked By:

Start Scan: 9000
Bottom Depth: 189 +9 m
ISUS Cleaned: Y/N
Trans Cleaned: Y/N
Camera On: Y/N
In-Air Pressure: 0.4/0.4
Ice Coverage: 2/10

Time	Local	UTC
Start		1057
Bottom		1110
End		1116

Start Position
Lat: 73 ° 51.47
Lon: 127 ° 20.70

Bottom Position
Lat: 73 ° 51.40
Lon: 127 ° 20.31

End Position
Lat: 73 ° 51.37
Lon: 127 ° 20.10

Comments:

- ① 12 = Kuen 11 = Ten
- ② 12 = Jan 11 = Gough

4^{am} 200 - NH₄
 7^{am} 500 - NH₄ x 2
 11^{am} 1000 - 5 + 105 14 @ 450 time x ~ 400
 130 1500 -
 4^{pm} 2000 -
 7^{pm} 1500 - skip?
 11^{pm} 3000 - NH₄

} collect ^A time extra into
 extra why early

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2007-20 Station: BI 3 Event #: / Cast #: 4 CTD File: 266720-004 UTC Date (dd mmm yyyy): 29 07 2007

Niskin #	Sample #	Oxygen Flask #	Oxygen mL/L	Rosette Operation		3 Samples Taken															Comments
				Target Depth Pressure	Confirmed Depth Pressure	Oxy	DIC	Ph age	Chl a?	DOC	CD OM	Bac	Alk	NH4	Nut	Sal	Ba	O18			
1	54	3004		Bottom	✓ 1011.15	✓									✓	✓					✓
2	55	3051		750	✓	✓				✓	✓		✓	✓	✓	✓	✓	✓			✓
3	56	3171	3243178	500	✓	✓				✓	✓				✓						✓
4	57	3097		4mAY	✓ 380	✓				✓	✓			14	✓						✓
5	58	3177		34.7	✓ 285	✓															✓
6	59	3090		34.4	✓ 217	✓				✓	✓	✓	✓	✓			✓	✓			✓
7	60	3119		34.0	✓ 182	✓				✓	✓	✓	✓	✓			✓	✓			✓
8	61	3069		33.7	✓ 167							✓	✓	✓			✓	✓			✓
9	62	3139		33.4	✓ 153					✓	✓	✓	✓	✓			✓	✓			✓
10	63	2073		33.1	✓ 137					✓	✓	✓	✓	✓			✓	✓			✓
11	64	2063		32.9	✓ 124					✓	✓										✓
12	65	3204		32.6	✓ 103							✓	✓	✓			✓	✓			✓
13	66	3107	3202	32.3	✓ 87	✓				✓	✓	✓	✓	✓	✓		✓	✓			✓
14	67	2064		Chl May	✓ 82				✓			✓	✓		✓		✓	✓			✓
15	68	3084		50	✓				✓	✓	✓	✓	✓		✓		✓	✓			✓
16	69	3121		20	✓					✓	✓	✓	✓			✓	✓	✓			✓
17	70	3181		5	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
18																					
19																					
20																					
21																					
22																					
23																					
24																					

Ship: LSSL
Entered By: JESZ
Checked By:

Start Scan: 9400
Bottom Depth: 1067.19 m
ISUS Cleaned: Y/N
Trans Cleaned: Y/N
Camera On: Y/N
In-Air Pressure: 0.5 / 0.4
Ice Coverage: 3 / 10

Time	Local	UTC
Start		1649
Bottom		1718
End		1741

Start Position
Lat: 73 ° 48.71
Lon: 129 ° 35.45

Bottom Position
Lat: 73 ° 48.55
Lon: 129 ° 35.52

End Position
Lat: 73 ° 48.44
Lon: 129 ° 35.71

Comments: display of several variables; secT, secT-p.T, p.H.C, sec. stuck, first noticed at 420m. Switch to high gear @ 793m. ↓
switch to low gear @ 575m ↑

discharge all of A-frame at 50-1 m on up cast
SALINITY - GREEN
OXY BOX # 3
NUTS - ORANGE CASE
5 July 2007
<http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/>
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Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2007-19 Station: BI 4 1500 Event #: Cast #: 5 CTD File: 200720_005.dat UTC Date (dd mmm yyyy): 29 07 2007

Niskin #	Sample #	Oxygen Flask #	Oxygen mL/L	Rosette Operation		Samples Taken																	Comments	
				Target Pressure	Confirmed Pressure	Oxy	DIC	Ph age	Chl a	DOC	CD OM	Bac	Alk	NH ₄	Nut	Sal	Ba	O18						
1	71	3182		Bottom	✓ 1500	✓									✓	✓								1007mV alt=10
2	72	3169/3164	2069	1250	✓	3									2	2								✓✓
3	73	3151		1000	✓	✓				✓	✓						✓	✓						✓✓
4	74	3174		750	✓					✓	✓													✓✓
5	75	3196		500	✓					✓	✓													✓✓
6	76	3206		450	✓																			✓✓
7	77	3012		Emax	✓ 390					✓	✓			✓✓										✓✓
8	78	3161		34.75	✓ 311																			✓✓
9	79	3096		34.7	✓ 291																			✓✓
10	80	3028	2014	34.6	✓ 259	2									2	2								✓✓
11	81	3047		34.4	✓ 220					✓	✓	✓	✓	✓✓			✓	✓						✓✓
12	82	3052		34	✓ 1817					✓	✓													✓✓
13	83	3193		33.7	✓ 169																			✓✓
14	84	3063		33.4	✓ 155																			✓✓
15	85	3033		33.1	✓ 140					✓	✓													✓✓
16	86	3191		32.9	✓ 128	✓				✓	✓													✓✓
17	87	3166	2087	32.6	✓ 108	2																		✓✓
18	88	2059		32.3	✓ 89	✓				✓	✓				2	2								✓✓
19	89	3003		chl/Max	✓ 60	✓				✓	✓	✓			2									✓✓
20	90	3157		20	✓	✓				✓	✓	✓			✓									✓✓
21	91	3188		5	✓	✓				✓	✓	✓	✓	✓✓	✓	✓	✓	✓	✓	✓				✓✓
22																								
23																								
24																								

Ship: LSSL
Entered By:
Checked By:

Start Scan:
Bottom Depth: 1516 m
ISUS Cleaned: NA Y/N
Trans Cleaned: Y/N
Camera On: NA Y/N
In-Air Pressure: 0.3 / 0.2
Ice Coverage: 1 / 10

Time	Local	UTC
Start	14=00	20=00
Bottom	14=44	20=41
End	15=10	21=10

Start Position
Lat: 73 ° 46.537'N
Lon: 129 ° 57.923'W

Bottom Position
Lat: 73 ° 46.598'
Lon: 129 ° 56.585'

End Position
Lat: 73 ° 46.727'
Lon: 129 ° 55.955'

Comments: secondary T shows 7.5326°C constant

SAL = BLUE

NUTS = GREEN

OXY = BOX 4

2000 m

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

[illegible]

<i>End Position</i>	
Lat:	13 ° 47.514
Lon:	130 ° 22.319

5 July 2007

Water Properties Group

Rosette Log

For Diana Varela and Connie Lovejoy: Phyto/Micro

Cruise ID: 2007-20 Station: B12 Event #: / Cast #: 17 CTD File: 7 UTC Date (dd mmm yyyy): 30 7 2007

Niskin #	Sample #	Oxygen Flask #	Oxygen mL/L	Rosette Operation		Diana Varela Jen Jackson													Connie Lovejoy								Bot Quality
				Target Depth	Confirmed ✓ Pressure	Pro 1	Pro 2	Pro 3	PON POC	Bio Si	Chl a	Phy IDL	Phy IDF	Nut NH4	Nut Urea	Nut NPS	DIC	Fish E	DNA	Chl a	RNA	HP LC	Bac	Nut	Bio mas		
1	105			490	✓																						
2	106			460	✓													2	2			1	1	1			
3	107			400	✓																						
4	108			300	✓																						
5	109			34.7	✓																						
6	110			200	✓													2	2			1	1	1			
7	111			32.1	✓																						
8	112			32.9	✓																						
9	113			32.9	✓																						
10	114			32.6	✓																						
11	115			32.3	✓																						
12	116			75	✓													2	2	2		1	1	1			
13	117			75	✓																						
14	118		chl-max	50	✓																						
15	119			50	✓													2	2	2	2	2	1	1	✓		
16	120			50	✓																						
17	121			30	✓													2	2	2		1	1	1			
18	122			30	✓																						
19	123			20	✓																						
20	124			5	✓													2	2	2	2	2	1	1	1		
21	125			5	✓																						
22	126			5	✓																						
23																											
24																											

Ship: LSSL
Entered By:
Checked By:

Start Scan:
Bottom Depth: 491 m
ISUS Cleaned: (X) Y/N
Trans Cleaned: (X) Y/N
Camera On: NA Y/N
In-Air Pressure: 0.3
Ice Coverage: / 10

Time	Local	UTC
Start		<u>2:51</u>
Bottom		<u>3:11</u>
End		<u>3:49</u>

Start Position
Lat: 73 ° 51.065
Lon: 129 ° 10.447

Bottom Position
Lat: 73 ° 50.882
Lon: 129 ° 10.118

End Position
Lat: 73 ° 50.539
Lon: 129 ° 9.773

Comments: POC/TSS 5m, 20m, chl max S=32.3, S=32.6, S=32.9 x 2 S=33.1 300m, bottom

Karen 460, 200, 75(2), 50(2), 30(2), 5(2)

Water Properties Group

Rosette Log

Shared samples w/ TSS/POC and Genetics (DNA/RNA)
~~we have~~ Geochem has 2 bottles out of their Rosette
Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2007-20 Station: Event #: Cast #: 7 CTD File: UTC Date (dd mmm yyyy):

Niskin #	Sample #	Oxygen Flask #	Oxygen mL/L	Rosette Operation		Samples Taken																Comments
				Target Depth	Confirmed ☒ Pressure	Oxy	DIC	Ph ☒ age	Chl ☒ a	DOC	CD OM	Bac	Alk	NH4	Nut	Sal	Ba	O18	POC	PON	Si	
1	1																					
2																						
3	107				400	☒				☒	☒	☒			☒	☒						
4	1																					
5	109			34.7		☒						☒			☒	☒						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						
17																						
18																						
19																						
20	1																					
21																						
22																						
23																						
24																						

Ship: LSSL
Entered By:
Checked By:

Start Scan:
Bottom Depth: m
ISUS Cleaned: Y / N
Trans Cleaned: Y / N
Camera On: Y / N
In-Air Pressure:
Ice Coverage: / 10

Time	Local	UTC
Start		
Bottom		
End		

Start Position
Lat: °
Lon: °

Bottom Position
Lat: °
Lon: °

End Position
Lat: °
Lon: °

Comments: 1 Sheet Filled out just to show geo chem bottles listed on the DNA/RNA log sheet.

Cruise ID: 2007-20 Station: BI2 Event #: — Cast #: 9 CTD File: 9 UTC Date (dd mmm yyyy): 29 JUL 2007

Niskin #	Sample #	Oxygen Flask #	Oxygen mL/L	Rosette Operation			Diana Varela												Connie Lovejoy								Bot Quality
				Target Depth	Confirmed ✓	Pressure	Pro 1	Pro 2	Pro 3	PON POC	Bio Si	Chl a	Phy IDL	Phy IDF	Nut NH4	Nut Urea	Nut NPS	DIC	Fish E	DNA	Chl a	RNA	HP LC	Bac	Nut	Bio mas	
1	127																										
2	128																										
3	129																										
4	130																										
5	131																										
6	132			132			✓	✓	✓	✓	✓	✓✓	✓	✓	✓✓	✓✓	✓✓										
7	133			132													✓										
8	134																										
9	135																										
10	136			85			✓	✓	✓	✓	✓	✓✓	✓	✓	✓✓	✓✓	✓✓										
11	137			85													✓										
12	138																										
13	139																										
14	140			33			✓	✓	✓	✓	✓	✓✓			✓✓	✓✓	✓✓										
15	141			33													✓										
16	142																										
17	143			16			✓	✓	✓	✓	✓	✓✓			✓✓	✓✓	✓✓										
18	144			16													✓										
19	145			8			✓	✓	✓	✓	✓	✓✓	✓	✓	✓✓	✓✓	✓✓										
20	146			8													✓										
21	147																										
22	148			2			✓	✓	✓	✓	✓	✓✓			✓✓	✓✓	✓✓										
23	149			2													✓										
24																											

Ship: LSSL

Entered By:

Checked By:

Start Scan:

Bottom Depth: 511.19 m

ISUS Cleaned: Y / N

Trans Cleaned: Y / N

Camera On: Y / N

In-Air Pressure:

Ice Coverage: / 10

Time	Local	UTC
Start		0714
Bottom		0730
End		0746

Start Position

Lat: 73 ° 49.43

Lon: 129 ° 11.80

Bottom Position

Lat: °

Lon: °

End Position

Lat: °

Lon: °

Comments:

Cruise ID: 2007-19²⁰ Station: BI 2 Event #: Cast #: 9 CTD File: 9 UTC Date (dd mmm yyyy): 30 7 2007

Niskin #	Sample #	Oxygen Flask #	Oxygen mL/L	Rosette Operation			Samples Taken																Comments		
				Target Pressure	Confirmed Depth Pressure		Oxy 2	DIC	Ph age	Chl a	DOC	CD OM	Bac	Alk	NH ₄	Nut Blue	Sal Red	Ba	O18	C13					
1	127	3007		34.4	✓	223	✓				✓	✓	✓	✓	✓	✓	✓	✓						x ✓	slow spigot leak w/ vent
2	128	3200		34.12	✓	187	✓				✓	✓	✓	✓	✓	✓	✓	✓						✓	
3	129	3067/3089/3057		33.7	✓	170	✓				✓	✓	✓	✓	✓	✓	✓	✓						✓	
4	130	2032		33.4	✓	153	✓				✓	✓	✓	✓	✓	✓	✓	✓						✓	
5	131	3043		33.1	✓	137	✓				✓	✓	✓	✓	✓	✓	✓	✓						✓	
6	132				✓	132																		✓	
7	133				✓	132																		✓	
8	134	2015		32.9	✓	125	✓				✓	✓	✓	✓		✓	✓	✓	✓					✓	
9	135	2089		32.6	✓	102	✓				✓	✓	✓	✓		✓	✓	✓	✓					✓	
10	136				✓	85																		✓	
11	137				✓	85																		✓	
12	138	2099/2027		32.3	✓	85	✓				✓	✓	✓	✓		✓	✓	✓	✓					✓	
13	139	3126			✓	50	✓				✓	✓	✓	✓		✓	✓	✓	✓					✓	
14	140				✓	33																		✓	
15	141				✓	33																			
16	142	2068			✓	20	✓				✓	✓	✓	✓		✓	✓	✓	✓					✓	
17	143				✓	16																			air vent loose
18	144				✓	16																		✓	
19	145				✓	8																		✓	
20	146				✓	8																		✓	
21	147	3094			✓	5	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓					✓	
22	148				✓	2																		✓	
23	149				✓	2																			
24																									

Ship: LSSL
Entered By: JC/MJ
Checked By:

Start Scan: 12200
Bottom Depth: 511+9 m
ISUS Cleaned: Y/N
Trans Cleaned: Y/N
Camera On: Y/N
In-Air Pressure: 0.3/0.3
Ice Coverage: 7/10

Time	Local	UTC
Start	0119	0714
Bottom	0130	0730
End	0146	0746

Start Position
Lat: 73 ° 49.43
Lon: 129 ° 11.80

Bottom Position
Lat: 73 ° 49.42
Lon: 129 ° 11.92

End Position
Lat: 73 ° 49.40
Lon: 129 ° 12.24

Comments: Geochem + Productivity
With 150s 11 geochem: 5, 20, 50, 32.3, 32.6, 32.9, 33.1, 33.7, 34.4, (33.7, 400) 12 Productivity

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2007-²⁰~~19~~ Station: BI-6 Event #: / Cast #: 10 CTD File: 200720-010 UTC Date (dd mmm yyyy): 30 JUL 2007

Niskin #	Sample #	Oxygen Flask #	Oxygen mL/L	Rosette Operation			Samples Taken																	Comments	
				Target Pressure	Confirmed ✓	Pressure	Oxy 1	DIC	Ph age	Chl a	DOC	CD OM	Bac	Alk	NH ₄	Nut Green	Sal Red	Ba	O18	C13					
1	150	3009		23.5	✓	2495 ¹⁷	✓									✓	✓							X✓	slight drip R. spigot
2	151	3209		22.00	✓		✓									✓								✓✓	for sediment traps
3	152	2017		20.00	✓		✓																	✓✓	for sediment traps
4	153	3048/3058/3194		15.00	✓		✓✓✓										✓							✓✓	
5	154	3034		10.00	✓		✓				✓	✓		✓	✓			✓	✓					✓✓	
6	155	2086		8.00	✓					✓	✓													✓✓	
7	156	2088		6.00	✓																			✓✓	
8	157	2025		5.00	✓					✓	✓													✓✓	
9	158	3104		4.50	✓																			✓✓	
10	159	2092		Tmax	✓	405				✓	✓	✓	✓	✓	✓✓✓✓			✓	✓					✓✓	
11	160	2074		34.75	✓	324																		✓✓	
12	161	3116		34.7	✓	300				✓	✓	✓	✓					✓	✓					✓✓	
13	162	✓		34.6	✓	266	✓				✓	✓					✓	✓	✓					X	spigot leaks with air
14	163	2060		34.4	✓	229				✓	✓													✓✓	
15	164	3817		34	✓	195				✓	✓	✓	✓	✓✓				✓	✓					✓✓	
16	165	3201		33.7	✓	178					✓	✓	✓	✓	✓			✓	✓					✓✓	
17	166	3109		33.4	✓	167	✓			✓	✓	✓	✓	✓✓				✓	✓					✓✓	
18	167	3018		33.1	✓	147								✓✓										✓✓	
19	168	3055/3061		32.9	✓	135	✓			✓	✓	✓	✓					✓	✓					✓✓	
20	169	2051		32.6	✓	114								✓✓										✓✓	
21	170	3118		32.3	✓	93					✓✓			✓	✓	✓✓			✓	✓				✓✓	
22	171	3092		Chl Max	✓	66				✓✓	✓	✓	✓	✓	✓✓				✓	✓				✓✓	
23	172	2007		20	✓						✓✓	✓	✓	✓	✓	✓✓	✓	✓	✓	✓				✓✓	
24	173			5	✓						✓✓	✓	✓	✓	✓	✓✓	✓	✓	✓	✓				✓	did not trip

Ship:	LSSL
Entered By:	JE
Checked By:	

Start Scan:	7000
Bottom Depth:	2496 ⁺⁹ m
ISUS Cleaned:	Y/ N <i>not can</i>
Trans Cleaned:	Y /N
Camera On:	Y/ N
In-Air Pressure:	0.4/0.3
Ice Coverage:	5/10

<i>Time</i>	<i>Local</i>	<i>UTC</i>
Start		1159
Bottom		1254
End	0741	1341

Start Position
Lat: 73 ° 45.45
Lon: 130 ° 56.32

Bottom Position	
Lat:	73 ° 45.16
Lon:	130 ° 55.13

End Position
Lat: 73 ° 44.82
Lon: 130 ° 54.17

Comments: Xmissivity layers btwn 500 & 650m

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2007-20 Station: BI-7 Event #: 11 Cast #: 11 CTD File: 200720_011 UTC Date (dd mmm yyyy): 31 07 2007

Niskin #	Sample #	Oxygen Flask #	Oxygen mL/L	Rosette Operation		Samples Taken																	Comments
				Target Depth	Confirmed Pressure	Oxy	DIC	Ph age	Chl a	DOC	CD OM	Bac	Alk	NH4	Nut	Sal	Ba	O18	POC	PON	Si	C13	
1	174	3001	3202	2000	✓	2905	✓								✓	✓							✓
2	175	3051		2500	✓	2500	✓								✓	✓							✓
3	176	3171		2000	✓										✓	✓							✓
4	177	3097		1500	✓										✓	✓							✓
5	178	3177		1000	✓					✓	✓	✓	✓		✓	✓	✓	✓					✓
6	179	3040		800	✓		✓			✓	✓				✓	✓							✓
7	180	3119/3135		600	✓		✓			✓	✓				✓	✓							✓
8	181	3069		500	✓		✓			✓	✓				✓	✓							✓
9	182	3130		450	✓										✓	✓							✓
10	183	2073		400	✓	390m				✓	✓				✓	✓							✓
11	184	2063		34.75	✓	326m									✓	✓							✓
12	185	3204		34.7	✓	316m									✓	✓							✓
13	186	3107		34.6	✓	283m									✓	✓							✓
14	187	2064		34.4	✓	245m				✓	✓	✓	✓		✓	✓	✓	✓					✓
15	188	3064		34.0	✓	207m				✓	✓	✓	✓		✓	✓	✓	✓					✓
16	189	3121		33.7	✓	190m						✓	✓		✓	✓	✓	✓					✓
17	190	3181		33.4	✓	177m						✓	✓		✓	✓	✓	✓					✓
18	191	3123		33.1	✓	165m				✓	✓	✓	✓		✓	✓	✓	✓					✓
19	192	3108		32.9	✓	152m				✓	✓	✓	✓		✓	✓	✓	✓					✓
20	193	3019	3178	32.6	✓	132m						✓	✓		✓	✓	✓	✓					✓
21	194	3024		32.3	✓	110m				✓	✓	✓	✓		✓	✓	✓	✓					✓
22	195	3207	ox ~ 50	66m	✓				✓	✓	✓	✓	✓		✓	✓	✓	✓					✓
23	196			20	✓				✓	✓	✓	✓	✓		✓	✓	✓	✓					✓
24	197			5	✓				✓	✓	✓	✓	✓		✓	✓	✓	✓					Did not fire

Ship: LSSL
Entered By:
Checked By:

Start Scan: 2995+10m
Bottom Depth: 3000+9 m
ISUS Cleaned: Y/N
Trans Cleaned: Y/N
Camera On: Y/N
In-Air Pressure: 0.2/0.4
Ice Coverage: 1/10

Time	Local	UTC
Start		0:27
Bottom		01:32
End		03:03

Start Position
Lat: 73 ° 40.876
Lon: 134 ° 48.834

Bottom Position
Lat: 73 ° 40.445
Lon: 134 ° 47.240

End Position
Lat: 73 ° 39.612
Lon: 134 ° 46.056

Comments: WHOI releaser test at 2500 m 10 min sal = green
oxygen Box #3

4547

Rosette Log for IOS Cruise ID 2007-20

Cast # 12
 Station CB23a
 CTD File 200720-012

UTC Date (dmy) 31 07 2007 UTC Time 0838
 Lat (N) 72 53.81
 Lon (W) 136 00.52

Cast Type: Geochemistry

In Air pressure 0.5/0.4
 Ice Coverage 3/10
 Start Scan 8900

Water Depth 2732 (Knudsen, w/o +9 for ship hull)
 Sound Speed 1464 (setting in Knudsen)
 Watch JE/MD/HD/RN

Samp #	Target Property	Actual Depth(m)	Niskin #	Bottle Integrity	Oxygen	Oxy Flask #	Oxy Dup Flask #	Oxy Trip Flask #	DIC	C-13	DOC	CDOM	Total Chl-a 0.7um	Chl-a 0.3um	Bacteria	FW-Alkalinity	Salinity	Nutrients	NH4	Barium	O-18	POC	TSS	I-129	CS-137	PU/AM	Comments
198	Bot-10	2742	✓ 1	X✓	✓	3009											✓	✓									
199	2500	2500	✓ 2	✓✓		3209											✓	✓									
200	2000	2000	✓ 3	✓✓	W	2017	3058	3061							✓					✓	✓						
201	1500	1482	✓ 4	✓✓		3048													vvvv								
202	1000	1000	✓ 5	✓✓		3034					✓	✓															
203	800	800	✓ 6	LL		2086					✓	✓															
204	600	600	✓ 7	LL		2088																					
205	500	500	✓ 8	LL		2025					✓	✓															
206	450	450	✓ 9	LL		3104												✓									
207	tmax	405	✓ 10	LL		2092					✓	✓															slow Ring leak Bottom
208	34.75	326	✓ 11	LL		2074									✓					✓	✓						
209	34.7	314	✓ 12	LL		3116																					
210	34.6	284	✓ 13	LL		3190									✓					✓	✓						
211	34.4	247	✓ 14								✓	✓			✓				✓	✓	✓						
212	34.0	210	✓ 15	LL		3107					✓	✓			✓				✓	✓	✓						spigot drip (no sample O2)
213	33.7	195	✓ 16	LL		3201													✓	✓							
214	33.4	185	✓ 17	LL		3109									✓				✓	✓	✓						
215	33.1	170	✓ 18	LL		3018					✓	✓			✓				✓	✓	✓						
216	32.9	156	✓ 19	LL		3055					✓	✓							✓	✓							
217	32.6	131	✓ 20	LL		2051									✓				✓	✓	✓						
218	32.3	110	✓ 21	LL	✓	3118	3082				✓	✓	✓	✓	✓		✓		✓	✓	✓						
219	Chlmax	70	✓ 22	LL		3092					✓	✓	✓	✓	✓	✓			✓	✓	✓						
220		20	✓ 23	LL		2007					✓	✓			✓	✓		✓	✓	✓	✓						
221		5	✓ 24	LL	✓	3186				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						

Comments: intrusions on temperature nose ~400m

change winch gear @ 740m ↓ 848 ↑

Rosette Log for IOS Cruise ID 2007-20

Cast Type: Productivity, RNA/DNA, POC/TSS

Cast # 13
Station CB-29
CTD File 200720-13

UTC Date (dmy) 31 July 2007 UTC Time 21=10
Lat (N) 71° 59.499' N
Lon (W) 140° 02.386' W

In-Air Pressure 0.5 Water Depth 2676m+9m Knudsen, w/o +9 for ship hull)
Ice Coverage 4/10 Sound Speed _____ (setting in Knudsen)
Start Scan _____ Watch _____

Samp #	Target Property	Actual Depth(m)	Niskin #	Bottle Integrity	Productivity (Ian Wrohan/Diana Varela)												RNA/DNA (Karen Scarcella/C. Lovejoy)								J. Jackson		Comments
					Pro NC	Pro NH ₄	Pro U	PON POC	Bio Si	Chl a	PID _L	PID _F	Nut NH ₄	Nut Urea	Nut NPS	DIC	Fish E	DNA	Chl a	RNA	HP LC	Bac	Nut	Bio mas	POC	TSS	
	159	✓	1		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓												
	159	✓	2													✓											
	110	✓	3		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓												
	110	✓	4													✓											
	64	✓	5		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓												
	64	✓	6													✓											
	24	✓	7		✓	✓	✓	✓	✓	✓			✓	✓	✓												
	24	✓	8													✓											
	12	✓	9		✓	✓	✓	✓	✓	✓			✓	✓	✓												
	12	✓	10													✓											
	2	✓	11		✓	✓	✓	✓	✓	✓			✓	✓	✓												
	2	✓	12													✓											
			13																								
			14																								
			15																								
			16																								
			17																								
			18																								
			19																								
			20																								
			21																								
			22																								
			23																								
			24																								

Comments: 300m #2-T33. Nut cell - at 300m down to 300m for Nut sensor

Rosette Log for IOS Cruise ID 2007-20

Cast # 14
Station CB 29
CTD File 200720-029

UTC Date (dmy) 31 July 2007
Lat (N) 51° 59.405' N
Lon (W) 140° 2.875' W

UTC Time 22:13

Cast Type: **Geochemistry**

In Air pressure 25/0.4
Ice Coverage 3/10
Start Scan _____

Water Depth 2681 (Knudsen, w/o +9 for ship hull)
Sound Speed 1464 (setting in Knudsen)
Watch day watch team

Samp #	Target Property	Actual Depth(m)	Niskin #	Bottle Integrity	Oxygen	Oxy Flask #	Oxy Dup Flask #	Oxy Trip Flask #	DIC	C-13	DOC	CDOM	Total Chl-a 0.7um	Chl-a 0.3um	Bacteria	FW-Alkalinity	Salinity	Nutrients	NH4	Barium	O-18	POC	TSS	I-129	CS-137	PUM	Comments
234	Bottom	2695	✓ 1	✓✓	✓✓	3007	3189	2027									✓✓	✓									3.5 alt ✓✓
235	2500	2500	✓ 2	✓✓	✓	3200											✓	✓✓									2 STAGES
236	2000	2000	✓ 3	✓✓	✓	3067												✓									WATER
237	1500	1500	✓ 4	✓✓	✓	2032																					
238	1000	1000	✓ 5	✓✓	✓✓	3043	3100				✓	✓				✓		✓		✓	✓						< Extra 1L For Nut Reference
239	750	745	✓ 6	✓✓	✓	3137					✓	✓						✓✓									(2 x 500 ml)
240	500	500	✓ 7	✓✓		2049					✓	✓						✓									
241	450	450	✓ 8	✓✓		2015											✓✓										
242	tmax	403	✓ 9	✓✓		2089					✓	✓															
243	34.75	342	✓ 10	✓✓		2084					✓																
244	34.7	318	✓ 11	✓✓		3203																					
245	34.6	285	✓ 12	✓✓		2099																					
246	34.4	252	✓ 13	✓✓		3126					✓	✓			✓	✓				✓	✓						
247	34	216	✓ 14	✓✓		3075					✓	✓															14 STILL LEAKS
248	33.7	199	✓ 15	✓✓		2085																					
249	33.4	187	✓ 16	✓✓		2068												✓									
250	33.1	168	✓ 17	✓✓	✓	2061					✓	✓						✓✓									
251	32.9	147	✓ 18	✓✓	✓✓	3183	3142				✓	✓						✓									
252	32.6	121	✓ 19	✓✓	✓	2044											✓										
253	32.3	100	✓ 20	✓✓		2033											✓✓										
254	chlMax	65	✓ 21	✓✓		3094					✓	✓	✓	✓			✓										
255	35	35	✓ 22	✓✓		2056					✓	✓	✓	✓													
256	20	20	✓ 23	✓✓		2091					✓	✓	✓	✓													
257	5	5	✓ 24	✓✓	✓	3098				✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓						

Comments:

OXY - Box # 2
SAL - WHITE
NUTS - ORANGE

Rosette Log for IOS Cruise ID 2007-20

Cast Type: Productivity, RNA/DNA, POC/TSS

Cast # 15 UTC Date (dmy) 01 08 2007 UTC Time 0851
Station CB28B Lat (N) 70 57.94
CTD File 200720-015 Lon (W) 140 01.92

In-Air Pressure 0.5/0.5 Water Depth 2030¹⁹ (Knudsen, w/o +9 for ship hull)
Ice Coverage 5/10 Sound Speed 1464 (setting in Knudsen)
Start Scan 11200 Watch JE/MD/HD/JN

Samp #	Target Property	Actual Depth(m)	Niskin #	Bottle Integrity	Productivity (Ian Wrohan/Diana Varela)													RNA/DNA (Karen Scarcella/C. Lovejoy)							J.Jackson		Comments	
					Pro NC	Pro NH ₄	Pro U	PON POC	Bio Si	Chl a	PID _L	PID _F	Nut NH ₄	Nut Urea	Nut NPS	DIC	Fish E	DNA	Chl a	RNA	HP LC	Bac	Nut	Bio mas	POC	TSS		
K 258	443	439	1	✓✓														2	2			1	1	1				
K 259	443	439	2	✓✓																								
260	310	✓	3	✓✓																					✓✓	✓✓✓		
261	310	✓	4	✓✓																					✓✓	✓✓✓		
262	200	✓	5	✓✓																					✓✓	✓✓✓	missed trip @ 26m	
K 263	200	✓	6	✓✓														2	2			1	1	1				
K 264	200	✓	7	✓✓																								
265	200	✓	8	✓✓																					✓✓	✓✓✓		
266	166	✓	9	✓✓																					✓✓	✓✓✓		
267	120	✓	10	✓○																					✓✓	✓✓✓	lower oring leak.	
K 268	90	✓	11	✓✓														2	2	2		1	1	1				
K 269	90	✓	12	✓✓																								
270	90	✓	13	✓✓																					✓✓	✓✓✓		
K 271	75	✓	14	✓✓														2	2	2		1	1	1				
K 272	75	✓	15	✓✓																								
273	75	✓	16	✓✓																					✓✓	✓✓✓		
K 274	50	✓	17	✓✓														2	2	2	2		1	1	1			
K 275	50	✓	18	✓✓																								
276	50	✓	19	✓✓																					✓✓	✓✓✓		
277	20	✓	20	✓✓																					✓✓	✓✓✓		
K 278	5	✓	21	✓✓														2	2	2	2		1	1	1			
K 279	5	✓	22	✓✓																								
280	5	✓	23	✓✓																					✓✓	✓✓✓		
1 SUS/PAR			24																									

Comments: 2x POC 3x TSS

cell...
You when done sampling

Rosette Log for IOS Cruise ID 2007-20

Cast # 16 UTC Date (dmy) 01 08 2007 UTC Time 1107
 Station CB28b Lat (N) 70 57.87
 CTD File 200720-016 Lon (W) 140 05.32

Cast Type: **Geochemistry**

In Air pressure 0.5/0.4
 Ice Coverage 4/10
 Start Scan 10400

Water Depth 2043⁺⁹
 Sound Speed 1464
 Watch SE/MD/RN

(Knudsen, w/o +9 for ship hull)
 (setting in Knudsen)



Samp #	Target Property	Actual Depth(m)	Niskin #	Bottle Integrity	Oxygen Box	Oxy Flask #	Oxy Dup Flask #	Oxy Trip Flask #	DIC	C-13	DOC	CDOM	Total Chl-a 0.7um	Chl-a 0.3um	Bacteria	FW-Alkalinity	Salinity Green	Nutrients White	NH4	Barium	O-18	POC	TSS	I-129	CS-137	PU/AM	Comments
281	130-5	2039 ⁺⁶	1	X✓	✓	3182											✓	✓									SL spigot with air vent shut
282	1500	1500 ✓	2	✓✓		3160												✓									
283		1200 ✓	3	✓✓	✓	3151	2014	3164																			Fl water for nutrient reference
284		1000 ✓	4	✓✓		3174					✓	✓			✓	✓				✓	✓						
285		800 ✓	5	✓✓		3196					✓	✓							✓✓✓								
286		700 ✓	6	✓✓		3206																					
287		600 ✓	7	✓✓		3012																					
288		500 ✓	8	✓✓		3161					✓	✓															
289		450 ✓	9	✓✓		3096																					
290	Tmax	440 ✓	10	✓✓		3020					✓	✓															
291	34.75	356 ✓	11	✓✓		3047																					
292	34.7	325 ✓	12	✓✓		3052												✓									
293	34.6	294 ✓	13	X✓		—																					last spigot leaks with air-vent shut
294	34.4	259 ✓	14	✓✓	✓	3063	2087				✓	✓			✓	✓			✓✓	✓	✓						
295	34	232 ✓	15	✓✓		3033					✓	✓			✓	✓			✓✓	✓	✓						
296	33.7	217 ✓	16	✓✓		3191										✓			✓✓								
297	33.4	202 ✓	17	X✓		—										✓			✓✓								valve not closed
298	33.1	168 ✓	18	✓✓		2059					✓	✓				✓			✓✓								
299	32.9	125 ✓	19	✓✓		3003					✓	✓				✓		✓									
300	32.6	91 ✓	20	✓✓		3157										✓			✓✓								
301	32.3	76	✓ 21	✓✓		3180					✓	✓				✓			✓✓								
302	chlMax	46	✓ 22	✓✓		3180					✓	✓				✓			✓✓								
303	20		✓ 23	✓✓	✓	3113	3038				✓	✓				✓	✓		✓✓								
304	5		✓ 24	✓✓	✓	3006				✓	✓	✓			✓	✓	✓	✓	✓✓	✓	✓						

Comments: Surprisingly different O₂ & xmissivity traces from Cast 15 at same station 2 hours earlier. Intrusions? Change winch gears 616 ↓
 Xmissometer shows bottom layer
 Seisave acq. stopped a bit early, before rosette came out of water.

Rosette Log for IOS Cruise ID 2007-20

Cast # 17
Station MK4
CTD File 200720-17

UTC Date (dmy) 01 08 2007
Lat (N) 70 48.82
Lon (W) 140 03.02

UTC Time 1525

Cast Type: **Geochemistry**
In Air pressure 0.6/0.4
Ice Coverage 1/10
Start Scan 9000

Water Depth 1527 (Knudsen, w/o +9 for ship hull)
Sound Speed 1464 (setting in Knudsen)
Watch 32/HD/HD/RN

Samp #	Target Property	Actual Depth(m)	Niskin #	Bottle Integrity	Oxygen <i>All labelled</i>	Oxy Flask #	Oxy Dup Flask #	Oxy Trip Flask #	DIC	C-13	DOC	CDOM	Total Chl-a 0.7um	Chl-a 0.3um	Bacteria	FW-Alkalinity	Salinity <i>Yellow/Blue</i>	Nutrients	NH4	Barium	O-18	POC	TSS	I-129	CS-137	PU/AM	Comments
305	B0-5	1487.7	✓ 1	LL													✓	✓						✓			
306		1000	✓ 2	LL	VV	3194	2069	3057			VV	VV					✓							✓			
307		800	✓ 3	LL							VV	VV			✓	✓		✓		✓	✓			✓			
308		700	✓ 4	LL																							
309		600	✓ 5	LL																				✓			
310		500	✓ 6	LL							VV	VV												✓			
311		450	✓ 7	LL															17					✓			
312	Tmax	402	✓ 8	LL							VV	VV												✓			
313		360	✓ 9	VV													✓							✓			
314	34.75	320	✓ 10	VV							VV	VV						✓									} off planned depth
315	34.7	291	✓ 11	VV																				✓			
316	34.7	283	✓ 12	VV	VV	3058	3082																				"extra"
317	34.6	263	✓ 13	VV							VV	VV			✓	✓			VV	✓	✓			✓			} off planned
318	34.4	225	✓ 14	LL							VV	VV			✓	✓			VV	✓	✓			✓			} depths
319	34.1	195	✓ 15	VV							VV	VV			✓	✓			VV	✓	✓			✓			
320	33.4	160	✓ 16	VV							VV	VV			✓	✓			VV	✓	✓						
321	33.1	140	✓ 17	VV							VV	VV							VV								
322	32.9	120	✓ 18	VV											✓	✓			VV	✓	✓						
323	32.6	93	✓ 19	VV							VV	VV			✓	✓			VV	✓	✓			✓			
324	32.3	78	✓ 20	VV											✓	✓			VV	✓	✓						
325	50		✓ 21	VV									✓		✓	✓			VV	✓	✓			✓			
326	Chl max	40	✓ 22	VV							VV	✓	✓		✓	✓			VV	✓	✓						
327	20		✓ 23	VV	VV	3199	3198				VV	VV	✓		✓	✓	✓	✓	VV	✓	✓						
328	5		✓ 24	VV						✓	VV	VV	✓		✓	✓	✓	✓	VV	✓	✓			✓			C13 sampled after DOC/CDOM

Comments: rosette passed by speeding jellyfish at 1460m ↑

switch gears 414 ↓ 400 ↑

Rosette Log for IOS Cruise ID 2007-20

Cast # 18 UTC Date (dmy) 1 Aug 2007 UTC Time 18:45
Station MK-3 Lat (N) 70° 34.541
CTD File 200720-018.dct Lon (W) 140° 0.648

Cast Type: **Geochemistry**

In Air pressure 0.4104 Water Depth 820 (Knudsen, w/o +9 for ship hull)
Ice Coverage 0/10 Sound Speed _____ (setting in Knudsen)
Start Scan _____ Watch _____

Pu / Am Cast

Samp #	Target Property	Actual Depth(m)	Niskin #	Bottle Integrity	Oxygen	Oxy Flask #	Oxy Dup Flask #	Oxy Trip Flask #	DIC	C-13	DOC	CDOM	Total Chl-a 0.7um	Chl-a 0.3um	Bacteria	FW-Alkalinity	Salinity	Nutrients	NH4	Barium	O-18	POC	TSS	I-129	CS-137	PU/AM	Comments
329	Bottom	800	815	✓ 1													✓									✓	
330	"	815	✓ 2														✓									✓	
331	"	815	✓ 3														✓									✓	
332	"	815	✓ 4														✓									✓	
333	"	815	✓ 5														✓									✓	
334	"	815	✓ 6														✓									✓	
335	"	815	✓ 7														✓									✓	
336	"	815	✓ 8														✓									✓	
337	600	600	✓ 9														✓									✓	
338	"	600	✓ 10														✓									✓	
339	"	600	✓ 11														✓									✓	
340	"	600	✓ 12														✓									✓	
341	"	600	✓ 13														✓									✓	
342	"	600	✓ 14														✓									✓	
343	"	600	✓ 15														✓									✓	
344	"	600	✓ 16														✓									✓	
345	400	400	✓ 17														✓									✓	
346	"	400	✓ 18														✓									✓	
347	"	400	✓ 19														✓									✓	
348	"	400	✓ 20														✓									✓	
349	"	400	✓ 21														✓									✓	
350	"	400	✓ 22														✓									✓	
351	"	400	✓ 23														✓									✓	
352	"	400	✓ 24														✓									✓	

Comments:

salt green box

Cast 20 → share cast w/ Grochann
Rosette Log for IOS Cruise ID 2007-20

Cast Type: Productivity, RNA/DNA, POC/TSS

Cast #
Station
CTD File

~~2020~~

200720-

UTC Date (dmy)
Lat (N)
Lon (W)

1 Aug 2007
70°34.927 N
140°2.902 W

UTC Time

21:10

In-Air Pressure
Ice Coverage
Start Scan

0.5
0 /10

Water Depth
Sound Speed
Watch

815+9m (Knudsen, w/o +9 for ship hull)
 (setting in Knudsen)

Samp #	Target Property	Actual Depth(m)	Niskin #	Bottle Integrity	Productivity (Ian Wrohan/Diana Varela)												RNA/DNA (Karen Scarcella/C. Lovejoy)								J.Jackson		Comments	
					Pro NC	Pro NH ₄	Pro U	PON POC	Bio Si	Chl a	PID _L	PID _F	Nut NH ₄	Nut Urea	Nut NPS	DIC	Fish E	DNA	Chl a	RNA	HP LC	Bac	Nut	Bio mas	POC	TSS		
	500		1																									
	400		2																									
	300	345	3																									
	34.75	265	4																									
	34.7	224	5																									
	34.6	187	6																									
	34.4	153	7																									
	34	110	8																									
	33.7	92	9																									
	33.1		10																									
	32.16	78	11																									
	32.3	68	12																									
	350	50	13																									
	chl-max	13	14																									
	chl-max	13	15																									
	chl-max	13	16														2	2			1	1	1					
	chl-5m	13	17																									
	1		18																						✓	✓		
	1		19																						✓	✓	✓	
	1		20														2	2			1	1	1					
	1		21																									
874	1		22													✓												
	1		23		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓													
			24																									

Comments:

Rosette Log for IOS Cruise ID 2007-20

Cast # MK-3 UTC Date (dmy) 1 Aug 2007 UTC Time 21:10
Station 20 Lat (N) 70° 34.927 N
CTD File 200720-20 Lon (W) 140° 2.902 W

Cast Type: **Geochemistry**

In Air pressure 0.5 Water Depth 815+9m (Knudsen, w/o +9 for ship hull)
Ice Coverage 0/10 Sound Speed _____ (setting in Knudsen)
Start Scan _____ Watch _____

see second sheet

Samp #	Target Property	Actual Depth(m)	Niskin #	Bottle Integrity	Oxygen	Oxy Flask #	Oxy Dup Flask #	Oxy Trip Flask #	DOC	C-13	DOC	CDOM	Total Chl-a 0.7um	Chl-a 0.3um	Bacteria	FW-Alkalinity	Salinity	Nutrients	NH4	Barium	O-18	POC	TSS	I-129	CS-137	PU/AM	Comments
353	500		✓ 1	✓✓	✓	3009					✓✓	✓✓					✓	✓	✓✓					✓			
354	400		✓ 2	✓✓		3209												✓✓						✓			
355	EMAX	345	✓ 3	✓✓		2017					✓✓	✓✓			✓									✓			
356	34.75	265	✓ 4	✓✓		3048									✓	✓								✓			
357	34.7	224	✓ 5	✓✓		3034									✓	✓			✓✓	✓	✓						
358	34.6	187	✓ 6	✓✓		2086									✓				✓✓	✓	✓						
359	34.4	153	✓ 7	✓✓		2088					✓✓	✓✓			✓	✓			✓✓	✓	✓						
360	34	110	✓ 8	✓✓		2025					✓✓	✓✓			✓	✓			✓✓	✓	✓						
361	33.7	92	✓ 9	✓✓		3104									✓	✓			✓✓	✓	✓						
362	33.1	80	✓ 10	✓✓		2092					✓✓	✓✓			✓	✓			✓✓	✓	✓						
363	32.6	75	✓ 11	✓✓		2074									✓	✓			✓✓	✓	✓						
364	32.3	65	✓ 12	✓✓		3116									✓	✓		✓✓	✓✓	✓	✓						
365	50	50	✓ 13	✓✓	✓	3190					✓✓	✓✓			✓	✓		✓	✓✓	✓	✓			✓			
366	CM	13	✓ 14	✓✓	✓	2060					✓✓	✓✓				✓	✓	✓	✓✓	✓	✓						
367	CM	13	✓ (15)	✓✓	✓	3187																					
368	CM	13	✓ (16)	✓✓	✓																						
369	5		✓ 17	✓✓	✓	3178					✓✓	✓✓			✓	✓	✓	✓	✓✓	✓	✓						
370	1		18	✓✓	✓	3018				✓	✓✓	✓✓			✓	✓	✓	✓	✓	✓	✓						
371	1		(19)	✓✓																							
372	1		(20)	✓✓																							
373	1		(21)	✓✓																							
374	1		22	✓✓																							
375	1		23	✓✓																							
376			24																								

Comments: Nutrient Green
Oxygen = Box 1
SAL = ~~GREEN~~ YELLOW

TI green

Rosette Log for IOS Cruise ID 2007-20

3rd Cast at MK-3

Cast Type: Geochemistry

Cast # 21
Station MK-3
CTD File 200720- 21

UTC Date (dmy) 1 Aug 2007
Lat (N) 70°34'35.2"N
Lon (W) 140°00.023'W

UTC Time 23:15

In Air pressure 0.5/0.4
Ice Coverage 0/10
Start Scan _____

Water Depth 766+9m (Knudsen, w/o +9 for ship hull)
Sound Speed _____ (setting in Knudsen)
Watch _____

Samp #	Target Property	Actual Depth(m)	Niskin #	Bottle Integrity	Oxygen	Oxy Flask #	Oxy Dup Flask #	Oxy Trip Flask #	DOC	CDOM	Total Chl-a 0.7um	Chl-a 0.3um	Bacteria	FW Alkalinity	Salinity	Nutrients	NH4	Boron	0.18	POC	TSS	I-129	CS-137	PUJAM	Comments
377	bottom	760	✓ 1	✓✓	✓	2047				✓	✓				✓	✓					✓				
	700	700	✓ 2	✓✓	✓✓	3016	3109	3202		✓	✓				✓	✓									
	600	600	✓ 3	✓✓	✓	3135									✓	✓					✓				
	400	400	✓ 4													✓								✓	
	300	300	✓ 5																		✓				
	200	198	✓ 6																		✓			✓	
	200		✓ 7																					✓	
	200		✓ 8	✓✓																				✓	
	200		✓ 9	✓✓																				✓	
	200		✓ 10	✓✓																				✓	
	200		✓ 11	✓✓																				✓	
	200		✓ 12	✓✓																				✓	
	200		✓ 13	✓✓																				✓	
	200	✓	✓ 14																		✓				
	100	100	✓ 15																		✓				
	5	5	16	✓✓																				✓	
	5		17	✓✓																				✓	
	5		18	✓✓																				✓	
	5		19	✓✓																				✓	
	5		20	✓✓																				✓	
	5		21	✓✓																				✓	
	5		22	✓✓																				✓	
	5		23	✓✓											✓									✓	
			24																						

Comments: OXY- Box 3

Corrected Sample #s

Geo + POC/TSS

Rosette Log for IOS Cruise ID 2007-20

Cast # 22
Station MK-2
CTD File 200720-22

UTC Date (dmy) 2 Aug 2007
Lat (N) 70°24.103
Lon (W) 139°58.314

UTC Time 1:29

Cast Type: **Geochemistry**

In Air pressure _____
Ice Coverage /10
Start Scan _____

Water Depth 502+9m (Knudsen, w/o +9 for ship hull)
Sound Speed _____ (setting in Knudsen)
Watch _____

400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422

Samp # <i>Wrong</i>	Target Property	Actual Depth(m)	Niskin #	Bottle Integrity	Oxygen	Oxy Flask #	Oxy Dup Flask #	Oxy Trip Flask #	BIC	C-13	DOC	CDOM	Total Chl-a 0.7um	Chl-a 0.3um	Bacteria	FW-Alkalinity	Salinity	Nutrients	NH4	Barium	O-18	POC	TSS	I-129	CS-137	PU/AM	Comments
377	bottom	502	✓ 1	✓✓	✓												✓	✓✓	✓	✓	✓						
378		502	✓ 2	✓✓	✓												✓	✓✓	✓	✓	✓	✓✓	✓✓				
379	tmax	366	✓ 3	✓✓	✓✓	3151	2014	2087			✓✓	✓✓					✓✓	✓✓									
380	34.75	301	✓ 4	✓✓	✓	3174									✓	✓	✓	✓									
381	34.4	250	✓ 5																			✓✓	✓✓				
382	34.4	197	✓ 6	✓✓	✓	3206					✓✓	✓✓			✓	✓	✓	✓	✓✓	✓	✓						
383	34.4	197	✓ 7																			✓✓	✓✓				
384	34.0	160	✓ 8	✓✓	✓	3161					✓✓	✓✓			✓	✓	✓	✓	✓✓	✓	✓						
385	33.7	153	✓ 9	✓✓	✓	3096									✓	✓	✓	✓	✓✓	✓	✓						
386	33.1	116	✓ 10																			✓✓	✓✓				
387	33.1	116	✓ 11																			✓✓	✓✓				
388	33.1	116	✓ 12	✓✓	✓	3052					✓✓	✓✓			✓	✓	✓	✓	✓✓	✓	✓						
389	32.9	100	✓ 13																			✓✓	✓✓				
390	32.6	76	✓ 14																			✓✓	✓✓				
391	32.6	76	✓ 15	✓✓	✓	3033					✓✓	✓✓			✓	✓	✓	✓	✓✓	✓	✓						
392	32.3	62	✓ 16																			✓✓	✓✓				
393	32.3	62	✓ 17	✓✓	✓✓	31610	3142				✓✓	✓✓			✓	✓	✓	✓	✓✓	✓	✓						
394		20	✓ 18																			✓✓	✓✓				
395		20	✓ 19	✓✓	✓	3003					✓✓	✓✓			✓	✓	✓✓	✓✓	✓✓	✓	✓						
396	Ch-a	Ch-a	✓ 20																			✓✓	✓✓				
397	Ch-a	10	✓ 21	✓✓	✓	3188					✓✓	✓✓			✓	✓	✓	✓	✓✓	✓	✓						
398		5	✓ 22																			✓✓	✓✓				
399		5	23	✓✓	✓✓	3113	3038			✓	✓✓	✓✓			✓	✓	✓	✓	✓✓	✓	✓						
			24																								
																										TSUS	

Comments:

Geochem: 5, 20, chlmax, 32.3, 32.6, 33.1, 33.7, 34, 34.4, 34.75, tmax, Bottom
12 25