Water Properties Group — Rosette Log

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

Cruise ID: 2013-06 Station: dar-01 Event #: _____ Ship: Frosti UTC Date (dd|mmm|yyyy): ___ | _____ | _____

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL • L^{-1}	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	Ba	DIC	Cons.			Comments
1	36			40					✓			✓	✓	✓			
2				30					✓			✓	✓	✓			
3				20					✓✓			✓	✓	✓			
4				20										✓			
5				20										✓			
6	4			10					✓			✓✓	✓	✓			
7				5										✓			
8				5					✓			✓	✓	✓			
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Positional Information

Start — Lat: ° N; Lon: ° W

▼

Bottom — Lat: ° N; Lon: ° W

▼

End — Lat: ° N; Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL • L^{-1}

Std Value: _____ mL • L^{-1}

*Date Run: ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

.sav file checked OK. .tls checked ok. CAST #1

Water Properties Group — Rosette Log

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

Cruise ID: 2013-06 Station: epy-01 Event #: 1 Ship: Frosti UTC Date (dd|mmm|yyyy): 02 | 08 | 2013

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	AIC	Ba	Carbon			Comments
1	1			40	✓	40.2			✓			✓	✓	✓			AIC sampling interrupted. Recalled 10m.
2	2			30	✓	30.2			✓			✓	✓	✓			
3	3			20	✓	20.0			✓			✓	✓	✓			chl a max
4	4			20	✓	20.0			✓	Anton		✓	✓	✓			18-24m.
5	5			20	✓	20.1				Anton				✓			
6	6			10	✓	10.0			✓	✓		✓	✓	✓			
7	7			5	✓	4.5			Andrea					✓			
8	8			5	✓	4.5			✓			✓	✓	✓			
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): MD AM AN

Bottom Depth: 42 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1842	
Bottom	1844	
End	1852	

Positional Information

Start — Lat: 70 ° 13.435 N; Lon: 124 ° 29.992 W

Bottom — Lat: 70 ° 13.445 N; Lon: 124 ° 30.034 W

End — Lat: 70 ° 13.373 N; Lon: 124 ° 29.729 W

Oxygen Info For This Cast

Blank Value: ____ mL·L⁻¹

Std Value: ____ mL·L⁻¹

*Date Run: ___ | ___ | ____

Analyst: ____

* Oxygen blanks and standards should be run daily, if possible

Version: 28 Feb 2008

Transmissometer to be cleaned before each cast, do not use Ammonia products

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

cast 12   .sal file checked
y/s checked

Water Properties Group   Rosette Log   Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-06   **Station:** CPY-02   **Event #:** 13   **Ship:** Frosti   **UTC Date (dd|mmm|yyyy):** 03 | 08 | 2013

Niskin #	Sample #	Oxygen Titrations Flask Serial #	Oxygen Titrations Value mL • L^{-1}	Rosette Operation Target Pressure	Confirmed √	Confirmed Pressure	Samples Taken Oxy	Nut	Sal	Chl a	NH_4	Ba	DIC	Carbon			Comments
1	9			70	✓	73.1			✓			✓	✓	×			
2	10		33.1 psu	60	✓	60.8			✓			✓	✓	✓			
3	11			50	✓	50.3			✓			✓	✓	✓			
4	12			40	✓	40.2			✓			✓	✓	✓			
5	13			30	✓	29.9			✓					✓			
6	14			20	✓	20.0			✓			✓	✓	✓			Chl. max 19 m.
7	15			20	✓	20.0								✓			
8	16			20	✓	20.0								✓			
9	17			10	✓	9.8			✓			✓	✓	✓			top seal leak (leaky?)
10	18			15	✓	5.2								✓			
11	19			5	✓	5.2			✓			✓	✓	✓			
12	20			5													
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): MD AN

Bottom Depth: 76 m

Transmisso Cleaned: (Y) / N

Time	*UTC*	*Local*
Start	1513	
Bottom	1517	
End	1530	

Positional Information

Start	Lat:	70 ° 15.572	N
	Lon:	124 ° 30.457	W
Bottom	Lat:	70 ° 15.556	N
	Lon:	124 ° 30.349	W
End	Lat:	70 ° 15.461	N
	Lon:	124 ° 29.960	W

Oxygen Info For This Cast

Blank Value: ______ mL • L^{-1}

Std Value: ______ mL • L^{-1}

*Date Run: ___ | ___ | ___

Analyst: ______

** Oxygen blanks and standards should be run daily, if possible*

Version: 28 Feb 2008   **Transmissometer to be cleaned before each cast, do not use Ammonia products**

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

.sav file updated ok
+ls updated. cast 3

Water Properties Group — Rosette Log

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

Cruise ID: 2013-06 Station: CPY-03-1 Event #: 20 Ship: Frosti UTC Date (dd|mmm|yyyy): 03 | 08 | 2013

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	Ba	DIC	Carboy		Comments
1	20			200		200.3			✓			✓		✓		chl's max=40
2	21			33.1		122.1			✓			✓		✓		33.1 = 127 m
3	22			12.5		122.2			✓			✓				
4	23			100		100.2			✓			✓		✓		
5								not taken								
6	25			70												
7	26															
8								125 and 33.1 taken at same depth.								
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

21
Ba
CPY_03_1
3
2013-06
Bot 2

Watchkeeper(s): MD AN

Bottom Depth: 226 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	2057	
Bottom	2103	
End	2115	

Positional Information

Start	Lat:	70 ° 26.895 N
	Lon:	124 ° 31.775 W
Bottom	Lat:	70 ° 26.780 N
	Lon:	124 ° 31.837 W
End	Lat:	70 ° 26.681 N
	Lon:	124 ° 31.722 W

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

*Date Run: ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

cast 4 .sav file checked OK.

Water Properties Group — Rosette Log

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

Cruise ID: 2013-06 Station: CH-03-2 Event #: 21 Ship: Frosti UTC Date (dd|mmm|yyyy): 03 | 08 | 2013

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL • L^{-1}	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	Ba	DIC	Carbon			Comments
1	24			80		79.9			✓			✓		✓			
2	25			70		69.8			✓			✓		✓			
3	26			60		59.3			✓			✓		✓			
4	27			50		49.3			✓			✓		✓			
5	28			40		39.4			✓			✓		✓			3
6	29			40		39.6			✓			✓		✓			3 chla max
7	30			40		39.6								✓			
8	31			30		30.7								✓			
9	32			20		20.9			✓			✓		✓			
10	33			10		10.7			✓			✓		✓			
11	34			5		5.4								✓			
12	35			5		5.4			✓✓			✓		✓			Upon soft
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): MD AN

Bottom Depth: 226 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	2138	
Bottom	2140	
End	2148	

Positional Information

Start — Lat: 70 ° 26.837 N; Lon: 124 ° 30.677 W

Bottom — Lat: 70 ° N; Lon: ° W

End — Lat: 70 ° 26.738 N; Lon: 70 ° 30.792 W

Oxygen Info For This Cast

Blank Value: _____ mL • L^{-1}

Std Value: _____ mL • L^{-1}

*Date Run: ___ | ___ | ____

Analyst: _____

* Oxygen blanks and standards should be run daily, if possible

Transmissometer to be cleaned before each cast, do not use Ammonia products

cast 5

.sav ✓ file checked OK
xls file checked OK

Water Properties Group — Rosette Log

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

Cruise ID: 2013-06 Station: BPT-01 Event #: 29 Ship: Frosti UTC Date (dd|mmm|yyyy): 04 | 08 | 2013

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL • L^{-1}	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	Ba	DIC	Car			Comments
1	36			20		21.1			✓			✓	✓	✓			
2	37			20		20.8								✓			
3	38			20		20.8								✓			
4	39			10		10.6			✓			✓	✓	✓			
5	40			5		5.2								✓			
6	41			5		5.2			✓			✓	✓	✓			
7																	
8																	
9																	
10																	
11																	
12																	
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15																	
16																	
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18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): MD AN

Bottom Depth: 25 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1606	
Bottom	1607	
End	1612	

Positional Information

Start — Lat: 69 ° 42.116 N; Lon: 123 ° 50.975 W

Bottom — Lat: 69 ° 420.120 N; Lon: 123 ° 51.011 W

End — Lat: 69 ° 42.152 N; Lon: 123 ° 51.082 W

Oxygen Info For This Cast

Blank Value: _____ mL • L^{-1}

Std Value: _____ mL • L^{-1}

*Date Run: ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

cast 6

. sal's checked.

Water Properties Group — Rosette Log

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

Cruise ID: 2013-06 Station: dar - 01 Event #: 37 Ship: Frosti UTC Date (dd|mmm|yyyy): 04 | 08 | 2013

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL • L^{-1}	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	Ba	Alc	Car			Comments
1	42			40					✓			✓	✓	✓		*	not taken.
1	43			30		28.6			✓			✓	✓	✓	Air vent loose		28 bottle closed
2	44			30		28.6			✓			✓	✓	✓			
3	45			30		28.6			✓			✓	✓	✓	Air vent loose		
4	46			20		20.2			✓			✓	✓	✓			
5	47			10		10.2			✓			✓	✓	✓			
6	48			5		4.6			✓			✓	✓	✓	Air venting		
7	49	Bottle		5		4.6			✓			✓	✓	✓		*	Did not trip.
9																	
10																	
11																	
12																	
13																	
14						Bottle											
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): MD AN

Bottom Depth: 32 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1953	
Bottom	1957	
End	2002	

Positional Information

Start	Lat:	69 ° 42.170	N
	Lon:	° 49.152	W
Bottom	Lat:	° 162	N
	Lon:	° 159	W
End	Lat:	° 133	N
	Lon:	° 47.207	W

Oxygen Info For This Cast

Blank Value: _____ mL • L^{-1}

Std Value: _____ mL • L^{-1}

*Date Run: ___ | ___ | ____

Analyst: _____

*Oxygen blanks and standards should be run daily, if possible

Transmissometer to be cleaned before each cast, do not use Ammonia products

cast 8 .sar file checked. xls file checked.

Water Properties Group — Rosette Log

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

Cruise ID: 2013-06 Station: GPT_02 Event #: 47 Ship: Frosti UTC Date (dd|mmm|yyyy): 05 | 08 | 2013

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL • L^{-1}	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	Ba	DIC	CAR			Comments
1	49			75		72.4			✓			✓	✓	✓			
2	50			60		60.3			✓			✓	✓	✓			
3	51			50		50.6			✓			✓		✓			
4	52			40		40.3			✓			✓	✓	✓			
5	53			30		30.2			✓			✓		✓			chla max 27m.
6	54			30		30.2								✓			
7	55			30		30.2								✓			
8	56			20		20.0			✓			✓		✓			
9	57			10		9.8			✓			✓		✓			
10	58			5		4.7								✓			
11	59			5		4.7			✓			✓		✓			
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): MD AN

Bottom Depth: 76 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1545	
Bottom	1548	
End	1601	

Positional Information

Start	Lat:	69 ° 42.032	N
	Lon:	123 ° 46.043	W
Bottom	Lat:	69 ° 42.027	N
	Lon:	123 ° 46.088	W
End	Lat:	69 ° 41.991	N
	Lon:	123 ° 46.152	W

Oxygen Info For This Cast

Blank Value: _____ mL • L^{-1}

Std Value: _____ mL • L^{-1}

*Date Run: ___ | ___ | ____

Analyst: _____

* Oxygen blanks and standards should be run daily, if possible

Transmissometer to be cleaned before each cast, do not use Ammonia products

cast 9 scv checked nts checked.

Water Properties Group — Rosette Log

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

Cruise ID: 2013-06 Station: Bpt_03_1 Event #: 57 Ship: Frosti UTC Date (dd|mmm|yyyy): 06 | 08 | 2013

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL • L^{-1}	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	Sal	Ba	DIC	Cor	Comments
1	60			125		123.2						✓	✓			chl. max 30.
2	61			100		100.0						✓	✓		✓	
3	62		33.1	″								-			✓	Not found.
4				80												
5				60												
6				50												
7				40												
8				30												
9				25												
10				20												
11				15												
12				10												
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): MD AN

Bottom Depth: 75 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0109	
Bottom	0113	
End	0117	

Positional Information

Start	Lat:	69 ° 41.929 N
	Lon:	123 ° 26.267 W
Bottom	Lat:	69 ° 41.924 N
	Lon:	123 ° 26.309 W
End	Lat:	69 ° 41.920 N
	Lon:	123 ° 26.349 W

Oxygen Info For This Cast

Blank Value: _____ mL • L^{-1}

Std Value: _____ mL • L^{-1}

*Date Run: ___ | ___ | ____

Analyst: _____

* Oxygen blanks and standards should be run daily, if possible

cast 10 .sav file checked. ✓'s checked.

Water Properties Group — Rosette Log

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

Cruise ID: _____ Station: bpf-03-2 Event #: 58 Ship: Frosti UTC Date (dd|mmm|yyyy): 06 | 08 | 2013

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL • L^{-1}	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	Bac	Dic	Car			Comments
1	63			80		80.3			✓			✓		✓			
2	64			70		70.0			✓			✓		✓			
3	65			60		60.1			✓			✓		✓			
4	66			50		50.1			✓			✓		✓			
5	67			40		40.1			✓			✓		✓			
6	68			30		30.0			✓			✓		✓			
7	69			30		30.0											
8	70			30		30.0			✓								
9	71			20		20.2			✓			✓		✓			
10	72			10		10.1			✓			✓✓		✓			
11	73			5		5.1			✓								
12	74			5		5.1			✓			✓		✓			
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): MD AN

Bottom Depth: 127 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0130	
Bottom	0132	
End	0149	

Positional Information

Start — Lat: 69 ° 41.704 N; Lon: 123 ° 26.495 W

Bottom — Lat: ° 41.897 N; Lon: ° 26.488 W

End — Lat: ° 41.894 N; Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL • L^{-1}

Std Value: _____ mL • L^{-1}

*Date Run: ___ | ___ | ___

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

Version: 28 Feb 2008

Transmissometer to be cleaned before each cast, do not use Ammonia products

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

cast 11 2 sgw filt chl chl chl

Water Properties Group — Rosette Log

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

Cruise ID: 2013-06 Station: BPT_011 Event #: 62 Ship: Frost UTC Date (dd|mmm|yyyy): 06 | 08 | 2013

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL • L^{-1}	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	Ba	Alc	Car			Comments
1	75			75		71.5			✓			✓	✓	✓			
2	76			60		60.0			✓			✓		✓			
3	77			50		49.7			✓			//		✓			
4	78			40		40.5			✓			✓		✓			
5	79			30		30.3			✓			✓		✓			
6	80			20		30.3											
7	81			30		30.3											
8	82			20		20.0			✓			✓		✓			
9	83			10		9.9			✓			✓		✓			
10	84			5		4.7											
11	85			5		4.7			✓			✓		✓			
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): MD AN

Bottom Depth: 75 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1616	
Bottom	1619	
End	1629	

Positional Information

Start	Lat:	69 ° 41.833	N
	Lon:	123 ° 14.407	W
Bottom	Lat:	69 ° 41.886	N
	Lon:	123 ° 14.387	W
End	Lat:	69 ° 41.894	N
	Lon:	123 ° 14.407	W

Oxygen Info For This Cast

Blank Value: _____ mL • L^{-1}

Std Value: _____ mL • L^{-1}

*Date Run: ___ | ___ | ____

Analyst: _____

* Oxygen blanks and standards should be run daily, if possible

Transmissometer to be cleaned before each cast, do not use Ammonia products

Cast 12 , sal o/s checked checked.

Water Properties Group — Rosette Log

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

Cruise ID: 2013-06 Station: BPT_05 Event #: 69 Ship: Frosti UTC Date (dd|mmm|yyyy): 06 | 08 | 2013

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL • L^{-1}	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	Ba	DIC	Car			Comments
1	86			40		39.1			✓			✓		✓			2.3 MAB
2	87			30		30.0			✓			✓		✓			
3	88			20		19.7								✓			
4	89			20		19.7								✓			
5	90			20		19.7			✓			✓		✓			
6	91			10		10.1			✓✓			✓		✓			
7	92			5		5.1								✓			
8	93			5		4.7			✓			✓✓					
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Washing down before start, moved off but will be some met still at surface

Watchkeeper(s): MB AM

Bottom Depth: 42 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start 2100	2100	
Bottom	2104	
End	2110	

Positional Information

Start	Lat:	69 ° 41.951	N
	Lon:	123 ° 11.725	W
Bottom	Lat:	69 ° 41.946	N
	Lon:	123 ° 11.931	W
End	Lat:	69 ° 41.947	N
	Lon:	123 ° 11.676	W

Oxygen Info For This Cast

Blank Value: _____ mL • L^{-1}

Std Value: _____ mL • L^{-1}

*Date Run: ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

Transmissometer to be cleaned before each cast, do not use Ammonia products

cast #13. checked .sav file. Ds checked

Water Properties Group — Rosette Log

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

Cruise ID: 2013-06 Station: dfaf-02 Event #: 77 Ship: Frostfi UTC Date (dd|mmm|yyyy): 07 | 08 | 2013

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL • L^{-1}	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	Bs	Orc	Carbon			Comments
1	94			75		75.6			✓			✓	✓	✓			
2	95			60		60.2			✓			✓	✓	✓			
3	96			50		50.6			✓			✓		✓			
4	97			40		39.9			✓			✓		✓			
5	98			30		29.8			✓			✓		✓			
6	99			20		20.4								✓			chla max=20
7	100			20		20.4								✓			
8	101			20		20.4			✓			✓		✓			
9	102			10		9.9			✓			✓	✓	✓			
10	103			5		5.1			.					✓			
11	104			5		4.9			✓			✓	✓	✓			
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): MD AN

Bottom Depth: 84 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1314	
Bottom	1318	
End	1325	

Positional Information

Start — Lat: 69 ° 50.423 N; Lon: 123 ° 43.665 W

Bottom — Lat: 69 ° 50.417 N; Lon: 123 ° 43.743 W

End — Lat: 69 ° 50.410 N; Lon: 123 ° 44.157 W

Oxygen Info For This Cast

Blank Value: _____ mL • L^{-1}

Std Value: _____ mL • L^{-1}

*Date Run: ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

Transmissometer to be cleaned before each cast, do not use Ammonia products

cast #14 — checked .sav file - updated testfile.

Water Properties Group — Rosette Log

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

Cruise ID: 2013-06 Station: dar_03_1 Event #: 86 Ship: _____ UTC Date (dd|mmm|yyyy): 07 | 08 | 2013

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL • L^{-1}	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	Ba	Alk	Carb			Comments
1	105			200		190.1			✓			✓		✓			after more 20
2	106		1655m	33.1		169.9			✓			✓		✓			33-117
3	107			125		125.4			✓			✓					
4	108			100		99.8			✓			✓		✓			
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): MD AN

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1720	
Bottom	1925	
End	1933	

Positional Information

Start	Lat:	70 ° 07.497	N
	Lon:	123 ° 29.555	W
Bottom	Lat:	70 ° 07.487	N
	Lon:	123 ° 29.450	W
End	Lat:	70 ° 07.451	N
	Lon:	123 ° 29.283	W

Oxygen Info For This Cast

Blank Value: _____ mL • L^{-1}

Std Value: _____ mL • L^{-1}

*Date Run: ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

Cast #15 checked in .csv file. Xs checked.

Water Properties Group — Rosette Log

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

Cruise ID: 2013-06 Station: dar_03-2 Event #: 87 Ship: Frosti UTC Date (dd|mmm|yyyy): 07 | 08 | 2013

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL • L^{-1}	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	ba	DIC	Car			Comments
1	109			80		80.6			✓			✓		✓			
2	110			70		67.6			✓			✓		✓			
3	111			60		60.0			✓			✓		✓			
4	112			50		50.2			✓			✓		✓			
5	113			40		39.6			✓			✓		✓			
6	114			30		30			✓			✓		✓			
7	115			30		30			✓			✓		✓			
8	116			30		30								✓			
9	117			20		20.0								✓			
10	118			10		9.9			✓			✓		✓			
11	119			5		4.7						✓		✓			
12	120			5		4.7			✓			✓		✓			
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

mistake not logged. File taken anyway!

Watchkeeper(s): MD AN

Bottom Depth: 20 | m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1952	
Bottom	54	
End	2005	

Positional Information

Start	Lat:	70 ° 07.585 N
	Lon:	123 ° 29.503 W
Bottom	Lat:	70 ° 07.597 N
	Lon:	123 ° 29.439 W
End	Lat:	70 ° 07.557 N
	Lon:	123 ° 29.192 W

Oxygen Info For This Cast

Blank Value: _____ mL • L^{-1}

Std Value: _____ mL • L^{-1}

*Date Run: ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

Cast #16 checked .sav file. XLS ok.

Water Properties Group — Rosette Log

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

Cruise ID: 2013-06 Station: dar_04 Event #: 75 Ship: Frosti UTC Date (dd|mmm|yyyy): 08 | 08 | 2013

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL • L^{-1}	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	Ba	AIC	Car			Comments
1	121			Bottom		336.6			✓			✓		✓			chla not 30
2	122			200		200.7			✓			✓					
3	123			33.1		122.1			✓			✓		✓			~122m.
4	124			125		122.3			✓			✓					
5	125			100		100			✓			✓		✓			
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): MD AV

Bottom Depth: 342 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1309	
Bottom	1313	
End	1324	

Positional Information

Start	Lat: 70 ° 18.208	N
	Lon: 123 ° 22.330	W
Bottom	Lat: 70 ° 18.145	N
	Lon: 123 ° 22.284	W
End	Lat: 70 ° 17.991	N
	Lon: 123 ° 22.267	W

Oxygen Info For This Cast

Blank Value: _____ mL • L^{-1}

Std Value: _____ mL • L^{-1}

*Date Run: ___ | ___ | ___

Analyst: _____

* Oxygen blanks and standards should be run daily, if possible

cast #17 checked .sav file. updated YES

Water Properties Group — Rosette Log

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

Cruise ID: 2013-06 Station: dar_04-2 Event #: 96 Ship: Frosti UTC Date (dd|mmm|yyyy): 08 | 08 | 2013

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL • L^{-1}	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	Ba	DIC	Cs6o7			Comments
1	126			80		81.1			✓			✓		✓			
2	127			70		70.1			✓			✓		✓			
3	128			60		60.2			✓			✓		✓			
4	129			50		50.4			✓			✓		✓			
5	130			40		40.3			✓			✓		✓			
6	131			30		30.3			✓			✓		✓			
7	132			30		30.3								✓			
8	133			30		30.3								✓			
9	134			20		20.4			✓					✓			
10	135			10		10.2			✓			✓		✓			
11	136			5		4.6								–			
12	137			5		4.4			✓			✓		✓			
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): MD AN

Bottom Depth: 342 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1352	
Bottom	1353	
End	1406	

Positional Information

Start — Lat: 70 ° 18.373 N; Lon: 123 ° 22.141 W

Bottom — Lat: 70 ° 18.328 N; Lon: 123 ° 22.145 W

End — Lat: 70 ° 18.182 N; Lon: 123 ° 22.084 W

Oxygen Info For This Cast

Blank Value: _____ mL • L^{-1}

Std Value: _____ mL • L^{-1}

*Date Run: ___ | ___ | ____

Analyst: _____

* Oxygen blanks and standards should be run daily, if possible

Version: 28 Feb 2008

Transmissometer to be cleaned before each cast, do not use Ammonia products

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

cast 18 checked seal file. +hs checked.

Water Properties Group — Rosette Log

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

Cruise ID: _____ Station: DAR_05-1 Event #: 107 Ship: Frosti UTC Date (dd|mmm|yyyy): 08 | 08 | 2013

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL • L^{-1}	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	6a	Dic	Cor			Comments
1	138			500		488.1			✓			✓		✓			Chamber = 40
2	139			300		308.3			✓			✓✓					33.1 = 126 m
3	140			200		201.5			✓			✓					6.0 MAB.
4	141			33.1(3)		126.6			✓			✓		✓			} closed at
5	142			125		126.6			✓✓			✓					same depth.
6	143			100		100.9			✓			✓		✓			
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): MD AW

Bottom Depth: 495 m

Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	2141	
Bottom	2153	
End	2209	

Positional Information

Start — Lat: 70 ° 34.765 N; Lon: 123 ° 14.734 W

Bottom — Lat: 70 ° 34.786 N; Lon: 123 ° 14.412 W

End — Lat: 70 ° 34.780 N; Lon: 123 ° 14.028 W

Oxygen Info For This Cast

Blank Value: _____ mL • L^{-1}

Std Value: _____ mL • L^{-1}

*Date Run: ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

Cast 19 SSV checked Xs updated

Water Properties Group — Rosette Log

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

Cruise ID: _____ Station: DAR-05-2 Event #: 108 Ship: Frosti UTC Date (dd|mmm|yyyy): 08 | 08 | 2013

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL • L^{-1}	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	Ba	Alc	CaP			Comments
1	144			80		80.8			✓			✓		✓			
2	145			70		70.5			✓			✓		✓			
3	146			60		60.5			✓			✓		✓			
4	147			50		50.1			✓			✓		✓			
5	148			40		39.6			✓			✓		✓			chla max = 39m
6	149			40		39.8								✓			
7	150			40		40.0								✓			
8	151			30		30.7			✓			✓		✓			
9	152			20		20.2			✓			✓		✓			
10	153			10		10.6			✓			✓		✓			
11	154			5		4.7								✓			
12	155			5		4.9			✓			✓		✓			
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): MD AN

Bottom Depth: 510 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	2234	
Bottom	2235	
End	2246	

Positional Information

Start	Lat: 70 ° 35.007	N
	Lon: 123 ° 14.544	W
Bottom	Lat: 70 ° 35.028	N
	Lon: 123 ° 14.631	W
End	Lat: 70 ° 35.075	N
	Lon: 123 ° 14.063	W

Oxygen Info For This Cast

Blank Value: _____ mL • L^{-1}

Std Value: _____ mL • L^{-1}

*Date Run: ___ | ___ | ____

Analyst: _____

* Oxygen blanks and standards should be run daily, if possible

cast #20 adjusted sour file was OK

Water Properties Group — Rosette Log

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

Cruise ID: 2013 Station: dgr_06_1 Event #: 118 Ship: Frosti UTC Date (dd|mmm|yyyy): 09 | 08 | 2013

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL • L^{-1}	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	Bac	DIC	Carr			Comments
1	156			350		358.7			✓			✓		✓			chla. mes=40
2	157			200		201.4			✓			✓					33.1 = 118m.
3	158			125		125.9			✓			✓					5m MAB.
4	159		33.1=	118		118.4			✓			✓		✓			
5	160			100		100.2			✓			✓		✓			
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): MD AN

Bottom Depth: 363 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1728	
Bottom	1737	
End		

Positional Information

Start — Lat: ° N; Lon: ° W

Bottom — Lat: ° N; Lon: ° W

End — Lat: ° N; Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL • L^{-1}

Std Value: _____ mL • L^{-1}

*Date Run: ___ | ___ | _____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

cast #21
adjusted salinity.

Water Properties Group — Rosette Log

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

Cruise ID: 2013-06 Station: dar-06-2 Event #: 119 Ship: Frosti UTC Date (dd|mmm|yyyy): 07 | 08 | 2013

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL • L^{-1}	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	Ba	DIC	Carb			Comments
1	161			80		80.3			✓			✓		✓			
2	162			70		69.6			✓			✓		✓			
3	163			60		60.0			✓			✓		✓			
4	164			50		49.9			✓			✓		✓			
5	165			40		40.1			✓			✓		✓			
6	166			40		39.9			✓					✓			
7	167			40		40.1								✓			
8	168			30		30.3			✓			✓		✓			
9	169			20		20.0			✓			✓		✓			
10	170			10		9.9			✓			✓		✓			
11	171			5		4.9								✓			
12	172			5		4.9			✓			✓		✓			
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): MD AN

Bottom Depth: 363 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1610	
Bottom	1813	
End		

Positional Information

Start — Lat: 70 ° N; Lon: 123 ° W

Bottom — Lat: 70 ° N; Lon: 123 ° W

End — Lat: 70 ° N; Lon: 123 ° W

Oxygen Info For This Cast

Blank Value: _____ mL • L^{-1}

Std Value: _____ mL • L^{-1}

*Date Run: ___ | ___ | ____

Analyst: _____

* Oxygen blanks and standards should be run daily, if possible

Transmissometer to be cleaned before each cast, do not use Ammonia products

Rosette Log for IOS Cruise ID 2013-06 **Ship:** *F/V Frosti*

adjusted sal file
xls ok

Cast # 22 UTC Date (ddmmmyyyy) 08 | 08 | 2013 Ice Coverage 0/10 Water Depth(from surface) 207 m

Station dar_07_1 UTC Time 1309 In Air pressure (before/after) / Sound Speed

CTD File 2013-06-0022 Lat (N) 71 02.914 Lon (W) 122 59.402 CTD Operator MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Carboy	Comments
173	200	200	1	200.5				✓	✓							1				✓	Chla max = 40m 6.8 MAB
174	S=33.1	129.7	2	129.7				✓	✓							2				✓	33.1 m. = 129m
175	125	129.7	3	129.5				✓	✓							3					
176	100	100	4	100.0				✓	✓							4				✓	
			5													5					
			6													6					
			7													7					
			8													8					
			9													9					
			10													10					
			11													11					
			12													12					
			13													13					
			14													14					
			15													15					
			16													16					
			17													17					
			18													18					
			19													19					
			20													20					
			21													21					
			22													22					

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2013-06 Ship: F/V Frosti

sav file checked yes ok.

Cast # 23 UTC Date (ddmmmyyyy) 10 | 08 | 2013 Ice Coverage 0/10 Water Depth(from surface) 207 m

Station dar_07-1 UTC Time 1346 In Air pressure (before/after) ____/____ Sound Speed ____

CTD File 2013-06-00 23 Lat (N) 71 02.912 Lon (W) 122 59.132 CTD Operator ____

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	CDOM		Comments
177	80	80.6	1					✓	✓							1				✓		
178	70	70.7	2					✓	✓							2				✓		
179	60	60.0	3					✓✓	✓							3				✓		
180	50	50.1	4					✓	✓							4				✓		
181	40	39.9	5					✓	✓							5				✓		chla max = 40m
182	40	40.1	6													6				✓		
183	40	40.1	7													7				✓		
184	30	30.5	8					✓	✓							8				✓		
185	20	20.2	9					✓	✓							9				✓		
186	10	10.2	10					✓	✓							10				✓		
187	5	4.9	11													11				✓		
188	5	4.7	12					✓	✓							12				✓		
			13													13						
			14													14						
			15													15						
			16													16						
			17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2013-06 Ship: F/V Frosti

66
Ba
bpt_03_2
10
2013-06
Bot 4

Cast # 24 UTC Date (ddmmmyyyy) 10 | 06 | 2013 Ice Coverage /10 Water Depth(from surface) m

Station JAR-08 UTC Time In Air pressure (before/after) / Sound Speed

CTD File 2013-06-0024 Lat (N) Lon (W) CTD Operator

Samp #	Target Property	Depth(m)	Niskin #	Bottle integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch a/Fot	Chl a&u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Conboy		Comments
189	75	75.6	1		✓			✓	✓							1				✓		5.1 MAB
190	60	60.2	2		✓			✓	✓							2				✓		
191	50	49.9	3		✓			✓	✓							3				✓		
M2	40	37.2	4		✓			✓	✓							4				✓		chla mcx = 5 fm 2° 12m.
193	40	37.2	5					✓	✓							5				✓		
194	40	37.2	6													6				✓		
195	20	30.3	7		✓			✓	✓							7				✓		Add bottle 7
196	20	20.5	8		✓			✓	✓							8				✓		
A7	10	10.1	9		✓			✓	✓							9				✓		
148	5	4.9	10		✓				✓							10				✓		
199	5	4.9	11					✓	✓							11				✓		
			12													12						
			13													13						
			14													14						
			15													15						
			16													16						
			17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

event 160

checked sal ✓ 8+46

Rosette Log for IOS Cruise ID 2013-06 Ship: F/V Frosti

Cast # 25 UTC Date (ddmmmyyyy) 13 | 06 | 2013 Ice Coverage /10 Water Depth(from surface) 46 m

Station VLV_01 UTC Time _____ In Air pressure (before/after) ____/____ Sound Speed _____

CTD File 2013-06-00 25 Lat (N) _____ Lon (W) _____ CTD Operator _____

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	ChaTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	CTDBoy		Comments
200	40	40.3	1		✓			✓	✓							1				✓		
201	30	29.8	2		✓			✓	✓							2				✓		
202	30	29.8	3	no bottle	(1)			–	✓							3				✓		chla max ~30m.
203	30	29.8	4													4				✓		
204	20	20.4	5		✓			✓	✓							5				✓		
205	10	10.2	6		✓			✓	✓							6				✓		
206	5	5.3	7													7				✓		
207	5	5.3	8		✓			✓	✓							8				✓		
			9													9						
			10													10						
			11													11						
			12													12						
			13													13						
			14													14						
			15													15						
			16													16						
			17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

event 170 updated raw file

Rosette Log for IOS Cruise ID 2013-06 Ship: F/V Frosti

Cast # 26 UTC Date (ddmmmyyyy) 13 | 08 | 2013 Ice Coverage /10 Water Depth(from surface) 82 m

Station ULU-02 UTC Time _____ In Air pressure (before/after) ____/____ Sound Speed _____

CTD File 2013-06-00 26 Lat (N) _____ Lon (W) _____ CTD Operator _____

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Chl&Tot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	LC-MS/MS		Comments
208	75	74.6	1	drizzle	✓			✓	✓							1				✓		air vent screw
209	60	61.2	2	drizzle				✓	✓							2				✓		dropped DIC at 60m, 40m air vent screw. air vent screw.
210	40	50.8	3	drizzle	✓			✓	✓							3				✓		
211	40	40.6	4					✓	✓							4				✓		
212	30	30.8	5		✓			✓	✓							5				✓		
213	30	30.8	6													6				✓		
214	30	30.7	7					✓	✓							7				✓		chla mat 30m. bread / rock 28-50m
215	20	19.5	8	drizzle	✓			✓	✓							8				✓		air vent screw ▽ chla mat below thermocline.
216	10	10.2	9		✓			✓	✓							9				✓		
217	5	5.3	10													10				✓		
218	5	5.8	11		✓			✓	✓							11				✓		
			12													12				✓		
			13													13						
			14													14						
			15													15						
			16													16						
			17													17						✓more DIC ebb Bottle 7-5 Add Eq 17 #5
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

checked sal file.

Rosette Log for IOS Cruise ID 2013-06 Ship: F/V Frosti

Cast # 27 UTC Date (ddmmmyyyy) 14 06 2013 Ice Coverage /10 Water Depth(from surface) ~200 m

Station VCU-3-1 UTC Time _____ In Air pressure (before/after) ____/____ Sound Speed _____

CTD File 2013-06-0027 Lat (N) _____ Lon (W) _____ CTD Operator _____

Samp # dups	Target Property	Depth(m)	Niskin #	Bottle integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	ChlaTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	CDOM		Comments
211	300	1114	1					✓	✓							1						
210	33.15	152.7	2					✓	✓							2				✓		33.1 PSU = 152m 4.0 m 15
213	125	125.2	3					✓	✓							3						
214	100	100.7	4					✓	✓							4				✓		
			5													5						
			6													6						
			7													7						
			8													8						
			9													9						
			10													10						
			11													11						
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			19													19						
			20													20						
			21													21						
			22													22						

2181 2182 2183 2184

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

2013-06

checked sav file

Rosette Log for IOS Cruise ID ~~2012-44~~ Ship: *F/V Frosti*

Cast # 28 UTC Date (ddmmmyyyy) 14 08 2013 Ice Coverage /10 Water Depth(from surface) 175/209 m

Station VCV-03-2 UTC Time _____ In Air pressure (before/after) ____/____ Sound Speed _____

CTD File 201244-28 Lat (N) _____ Lon (W) _____ CTD Operator _____

Samp # (dups)	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	CARBOY		Comments
215	80	77.7	1					✓	✓							1				✓		
216	70	70.7	2					✓	✓							2				✓		
217	60	60.0	3					✓	✓							3				✓		
218	50	50.9	4					✓	✓							4				✓		
219	40	41.0	5					✓	✓							5				✓		chla max = 35 m
220	~~40~~ 40	40.6	6					✓	✓							6				✓		
221	~~30~~ 40	40.8	7					+								7						
222	30	30.2	8					✓	✓							8						
223	20	20.2	9					✓✓	✓							9				✓		
224	10	10.6	10					✓	✓							10				✓		
225	5	5.3	11													11						
226	5	5.6	12					✓	✓✓							12				✓		
			13													13						
			14													14						
			15													15						
			16													16						
			17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						

218.5 218.6 218.7 218.8

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column

Comments:

Rosette Log for IOS Cruise ID 2013-06 Ship: *F/V Frosti*

checked sw file.

Cast # 29 UTC Date (ddmmmyyyy) 14 | 08 | 2013 Ice Coverage /10 Water Depth(from surface) m

Station ULU-04-1 UTC Time In Air pressure (before/after) / Sound Speed

CTD File 2013-044-00 Lat (N) Lon (W) CTD Operator

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	ChaTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Carboy	Comments
227	350	345.1	1					✓	✓							1				✓	Not taken Z=350
228	300	297.8	2					✓	✓							2					
229	200	200.2	3					✓	✓							3					
230	33.15	148.2	4					✓	✓							4				✓	148 m 33.1
231	125	125.6	5					✓	✓							5					
232	100	100.2	6					✓	✓							6				✓	
			7													7					
			8													8					
			9													9					
			10													10					
			11													11					
			12													12					
			13													13					
			14													14					
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			18													18					
			19													19					
			20													20					
			21													21					
			22													22					

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

event 196 check sov 5/6

Rosette Log for IOS Cruise ID 2013-06 Ship: F/V Frosti

Cast # 30 UTC Date (ddmmmyyyy) 14 | 08 | 2013 Ice Coverage /10 Water Depth(from surface) m

Station VCV-4-2 UTC Time 1956 In Air pressure (before/after) / Sound Speed

CTD File 2013-044-00 30 Lat (N) Lon (W) CTD Operator

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	CT-Box		Comments
233	80	80.3	1					✓	✓							1				✓		
234	70	69.7	2					✓	✓							2				✓		
235	60	59.7	3					✓	✓							3				✓		
236	50	49.8	4					✓	✓							4				✓		
237	40	40.3	5					✓	✓							5				✓		
238	30	31.2	6													6				✓		
239	30	30.2	7													7				✓		chla 3D max =30 m
240	30	30.8	8					✓	✓							8				✓		
241	20	20.0	9					✓	✓							9				✓		
242	10	10.2	10					✓	✓							10				✓		
243	5	4.9	11													11				✓		
244	5	4.9	12					✓	✓							12				✓		
			13													13						
			14													14						
			15													15						
			16													16						
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			20													20						
			21													21						
			22													22						

Bottle Integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Cast 31

Rosette Log for IOS Cruise ID 2013-06 Ship: F/V Frosti

Cast # 31 UTC Date (ddmmmyyyy) 15 | 08 | 2013 Ice Coverage ___/10 Water Depth(from surface)_____m

Station ULV_05_1 UTC Time _____ In Air pressure (before/after) ____/____ Sound Speed_____

CTD File 2013-044-00 Lat (N) _____ Lon (W) _____ CTD Operator_____

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	ChaTot	Chia5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	CARBOY		Comments
245	450	442.1	1					✓	✓							1				✓		
246	300	301.1	2					✓	✓							2						
247	200	200.7	3					✓	✓							3						
248	127.1	127.6	4					✓	✓							4				✓		
249	110	110.7	5					✓	✓							5						Bx 110 m. = 33.1 PSU
250	100	100.5	6					✓	✓							6				✓		
			7													7						
			8													8						
			9													9						
			10													10						
			11													11						
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			19													19						
			20													20						
			21													21						
			22													22						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Check bottles for salt!

Cast 32

other updated sal file.

Rosette Log for IOS Cruise ID 2013-06 Ship: F/V Frosti

Cast # 32 UTC Date (ddmmmyyyy) ___/08___/2013 Ice Coverage ___/10 Water Depth(from surface)________m

Station ULU-5-2 UTC Time ________ In Air pressure (before/after) ___/___ Sound Speed ________

CTD File 2013-044-00 Lat (N) ________ Lon (W) ________ CTD Operator ________

Samp #	Target Property	Depth(m)	Niskin #	Bottle integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	ChlaTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	Fe/Acid	DNA/RNA	DOC/DON	Fe-GOx		Comments
251	80	80.4	1					✓	✓							1				/		
252	70	70.0	2					✓	✓							2				/		
253	60	59.7	3					✓	✓							3				/		
254	50	49.7	4					✓	✓							4				/		
255	40	40.[illegible]	5					✓	✓							5				/		chla max 30-45m. 40m
256	40	40.7	6						✓							6				/		
257	40	40.4	7													7				/		
258	30	30.6	8					✓	✓							8				/		
259	20	20.5	9					✓	✓							9				/		
260	10	10.4	10					✓✓	✓							10				/		
261	5	5.1	11													11				/		
262	5	5.1	12					✓	✓							12				/		
			13													13						
			14													14						
			15													15						
			16													16						
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			18													18						
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			21													21						
			22													22						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

cast 33. Z13 checked sal file.

Rosette Log for IOS Cruise ID 2013-06 Ship: F/V Frosti

Cast # 33 UTC Date (ddmmmyyyy) 15 | 08 | 2013 Ice Coverage 10 Water Depth (from surface) 352 m A measured.

Station VCU-06-1 UTC Time _____ In Air pressure (before/after) _____ Sound Speed _____

CTD File 2013-06-0033 Lat (N) _____ Lon (W) _____ CTD Operator _____

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Chl aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	carboy	Comments
263	350	347.4	1					✓	✓							1				✓	5.7 MAB.
264	300	301.0	2					✓	✓							2					
267	200	200.2	3					✓	✓							3					
266	125	119.9	4					✓	✓							4				✓	S=33.1 120 m.
267	33.1	117.9	5					✓	✓							5					
268	100	100.2	6					✓	✓							6				✓	
			7													7					
			8													8					
			9													9					
			10													10					
			11													11					
			12													12					
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			21													21					
			22													22					

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

cast 34 event 214

Rosette Log for IOS Cruise ID 2013-06 Ship: F/V Frosti

checked sur file.

Cast # 34 UTC Date (ddmmmyyyy) 15 | 08 | 2013 Ice Coverage /10 Water Depth(from surface) 350 m sounder

Station VCU-06-I UTC Time 2140 In Air pressure (before/after) / Sound Speed

CTD File 2013-06-0034 Lat (N) Lon (W) CTD Operator

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	C13	Ba	SAL	Ch aTot	Chl&u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Carboy		Comments
269	80	80.3	1					✓	✓							1				✓		
270	70	70.0	2					✓	✓							2				✓		
271	60	60.2	3					✓	✓							3				✓		
272	50	50.2	4					✓	✓							4				✓		
273	40	39.5	5					✓	✓							5				✓		chl a max = 42m
274	40	39.8	6					✓	✓							6				✓		
275	40	40.1	7						✓							7				✓		
276	30	30.0	8						✓							8				✓		
277	20	20.0	9						✓							9				✓		
278	10	9.9	10						✓							10				✓		
279	5	5.1	11						✓							11				✓		check sur file for 6+/- 11!
280	5	5.1	12						✓							12				✓		
			13													13						
			14													14						
			15													15						
			16													16						
			17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

cast 35

Rosette Log for IOS Cruise ID 2013-06 Ship: *F/V Frosti*

Cast # 35 UTC Date (ddmmmyyyy) 16 | 08 | 2013 Ice Coverage /10 Water Depth(from surface) 79-82 m

Station VLW-07 UTC Time _____ In Air pressure (before/after) ____/____ Sound Speed _____

CTD File 2013-06-00 35 Lat (N) _____ Lon (W) _____ CTD Operator _____

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Carboy		Comments
281	75	74.1	1		✓			✓	✓							1				✓		
282	60	60.4	2		✓			✓	✓							2				✓		
283	50	50.1	3		✓			✓	✓							3				✓		chl max 48m. 2nd peak @ 20m.
284	40	40.1	4						✓							4				✓		
285	30	30.1	5													5				✓		
286	40	40.1	6		✓			✓	✓							6				✓		
287	30	30.2	7		✓			✓	✓							7				✓		
288	20	19.9	8		✓			✓	✓							8				✓		
289	10	9.9	9		✓			✓	✓							9				✓		
290	5	4.9	10													10				✓		
291	5	4.9	11		✓			✓	✓							11				✓		
			12													12						
			13													13						
			14													14						
			15													15						
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			18													18						
			19													19						
			20													20						
			21													21						
			22													22						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column

Comments:

cast 36.

Rosette Log for IOS Cruise ID 2013-06 Ship: F/V Frosti

Cast # 36 UTC Date (dd/mm/yyyy) 16 / 08 / 2013 Ice Coverage 0 /10 Water Depth(from surface) 215 m

Station ULU_08_1 UTC Time 2017 In Air pressure (before/after) / Sound Speed

CTD File 2013-06-00 36 Lat (N) Lon (W) CTD Operator

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Carboy		Comments
292	200	≈10.6	1					✓	✓							1				✓		
293	33.1	129.3	2					✓	✓							2				✓		
294	125		3					✓	✓							3						≈ 33.1 = 129m
295	100	77.8	4					✓	✓							4				✓		
	80		5													5						
	70		6													6						
	60		7													7						
	50		8													8						
	40		9													9						
	45		10													10						
	40		11													11						
	30		12													12						
	20		13													13						
	10		14													14						
	5		15													15						
			16													16						
			17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

cast 37

sav file updated & echoed

Rosette Log for IOS Cruise ID 2013-06

Ship: *F/V Frosti*

Cast # 37 UTC Date (ddmmmyyyy) 16 | 08 | 2013 Ice Coverage /10 Water Depth (from surface) m

Station ULV_08_2 UTC Time In Air pressure (before/after) / Sound Speed

CTD File 2013-06-0037 Lat (N) Lon (W) CTD Operator

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	ChaTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Carboy		Comments
296	80	80.3	1					✓	✓							1				✓		
297	70	70.3	2					✓	✓							2				✓		
298	60	60.2	3					✓	✓							3				✓		
299	50	50.2	4					✓	✓							4				✓		chla max ≈ 50
300	50	50.2	5					✓	✓							5				✓		
301	50	50.2	6					✓	✓							6				✓		
302	40	40.1	7					✓	✓							7				✓		
303	30	30.0	8					✓	✓							8				✓		fsa
304	20	20.4	9					✓	✓							9				✓		
305	10	9.7	10					✓	✓							10				✓		
306	5	5.1	11													11				✓		
307	5	5.1	12					✓	✓							12				✓		
			13													13						
			14													14						
			15													15						
			16													16						
			17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

cast #38

Rosette Log for IOS Cruise ID 2013-06 Ship: F/V Frosti

Cast # 38 UTC Date (ddmmmyyyy) 29 08 2013 Ice Coverage /10 Water Depth(from surface) 48.5 m

Station CBH_01 UTC Time 13:10 In Air pressure (before/after) / Sound Speed

CTD File 2013-06-0038 Lat (N) Lon (W) CTD Operator

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Carboy		Comments
308	40		1	39.8	✓			✓	✓							1				✓		
309	30		2	30.0				✓	✓							2				✓		
310	20		3	20.4				✓	✓							3				✓		
311	10		4	9.9												4				✓		
312	10		5	9.9												5				✓		
313	10		6	9.9				✓	✓							6				✓		chla max = 12m
314	5		7	5.1												7				✓		~~chla~~
315	5		8	5.1	✓			✓	✓							8				✓		
			9													9						
			10													10						
			11													11						
			12													12						
			13													13						
			14													14						
			15													15						
			16													16						
			17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Cast #39.

Rosette Log for IOS Cruise ID 2013-06 Ship: F/V Frosti

Cast # 39 UTC Date (ddmmmyyyy) 20 / 08 / 2013 Ice Coverage /10 Water Depth(from surface) m

Station CBH_02 UTC Time In Air pressure (before/after) / Sound Speed

CTD File 2013-06-0039 Lat (N) Lon (W) CTD Operator

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	ChaTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Carboy		Comments
316	75	72.7	1					✓	✓							1				✓		
317	60	60.2	2					✓	✓							2				✓		
318	50	50.1	3					✓	✓							3				✓		
319	40	39.9	4					✓	✓							4				✓		
320	30	30.0	5					✓	-							5				✓		1 miss
321	20	20.0	6													6				✓		
322	20	20.0	7													7				✓		
323	20	20.0	8					✓	-							8				✓		chla max at 15m low xmiss 15 & 60+m
324	10	10.2	9					✓	✓							9				✓		
325	5	4.7	10													10				✓		
326	5	4.7	11					✓	-							11				✓		
			12													12				✓		
			13													13						
			14													14						
			15													15						
			16													16						
			17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

40

Rosette Log for IOS Cruise ID 2013-06 Ship: F/V Frosti

Cast # 40 UTC Date (ddmmmyyyy) 20 | 08 | 2013 Ice Coverage /10 Water Depth(from surface)_____ m

Station CBH_03_1 UTC Time 20:17 In Air pressure (before/after) _____/_____ Sound Speed_____

CTD File 2013-06-00 40 Lat (N) _____ Lon (W) _____ CTD Operator_____

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Chl&Tot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Carboy		Comments
327	200	200.2	1					✓	✓							1				✓		4.7 mAB
328	33.1	121.5	2					✓	✓							2				✓		33.1=121 m
329	125	121.6	3					✓	✓							3						
330	100	100.0	4					✓	✓							4				✓		
			5													5						
			6													6						
			7													7						
			8													8						
			9													9						
			10													10						
			11													11						
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			19													19						
			20													20						
			21													21						
			22													22						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2013-06 Ship: F/V Frosti

Cast # 41 UTC Date (ddmmmyyyy) 20 | 08 | 2013 Ice Coverage /10 Water Depth(from surface) m

Station CBH_03_2 UTC Time In Air pressure (before/after) / Sound Speed

CTD File 2013-06-30 41 Lat (N) Lon (W) CTD Operator

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Carboy		Comments
331	80	80.3	1					✓	✓							1				✓		
332	70	70.3	2					✓	✓							2				✓		
333	60	60.4	3					✓	✓							3				✓		
334	50	49.9	4					✓	✓							4				✓		
335	40	39.9	5					✓	✓							5				✓		
336	30	30.2	6					✓	✓							6				✓		chla max = 30m
337	30	30.2	7													7				✓		
338	30	30.2	8													8				✓		
339	20	20.2	9					✓	✓							9				✓		
340	10	9.9	10					✓	✓							10				✓		
341	5	4.9	11													11				✓		
342	5	4.9	12					✓	✓							12				✓		
			13													13						
			14													14						
			15													15						
			16													16						
			17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

sav file updated.

Rosette Log for IOS Cruise ID 2013-06 Ship: F/V Frosti

Cast # 42 UTC Date (ddmmmyyyy) 21 | 08 | 2013 Ice Coverage /10 Water Depth(from surface) 285 m

Station CBH_04-1 UTC Time Air pressure (before/after) / Sound Speed

CTD File 2013-06-00 42 Lat (N) Lon (W) CTD Operator

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Carboy		Comments
343	275	280.6	1					✓	✓							1				✓		
344	200	200.0	2					✓	✓							2						
345	33.1	129	3						✓							3				✓		
346	125	129	4					✓	✓							4						129 ≥ 33.1
347	100	100.0	5					✓	✓							5				✓		
			6													6						
			7													7						
			8													8						
			9													9						
			10													10						
			11													11						
			12													12						
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			15													15						
			16													16						
			17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2013-06 Ship: *E/V Frosti*

sar file ok.

Cast # 43 UTC Date (ddmmmyyyy) 21 | 08 | 2013 Ice Coverage /10 Water Depth(from surface) m

Station CBH-04-2 UTC Time In Air pressure (before/after) / Sound Speed

CTD File 2013-06-00 43 Lat (N) Lon (W) CTD Operator

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	ChaTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Carboy		Comments
348	80	80.1	1					✓	✓							1				✓		
349	70	70.0	2					✓	✓							2				✓		
350	60	60.0	3					✓	✓							3				✓		
351	50	49.9	4					✓	✓							4				✓		
352	40	40.1	5					✓✓	✓							5				✓		
353	30	30.2	6					✓	✓							6				✓		chla max 20-40 = 20m
354	20	20.2	7													7				✓		
355	20	20.2	8													8				✓		
356	20	20.2	9					✓	✓							9				✓		
357	10	10.1	10					✓	✓							10				✓		tripped in 2013-06-00439.hex
358	5		11													11				✓		
359	5		12					✓	✓							12				✓		
			13													13						
			14													14						
			15													15						
			16													16						
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			18													18						
			19													19						
			20													20						
			21													21						
			22													22						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

as fired, checked .ros file.

Rosette Log for IOS Cruise ID 2013-06 Ship: *F/V Frosti*

Cast # 44 UTC Date (ddmmmyyyy) 21 / 06 / 2013 Ice Coverage /10 Water Depth(from surface) m

Station CBH_05_1 UTC Time In Air pressure (before/after) / Sound Speed

CTD File 2013-06-00 44 Lat (N) Lon (W) CTD Operator

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Carboy		Comments
360	350	344.6	1		✓			✓	✓							1				✓		4.0 MAB
361	300	301.1	2		✓			✓	✓							2						
362	200	200.7	3		✓			✓	✓							3						
363	33.1	120.9	4		✓			✓	✓							4				✓		121m. ≡ 331
364	125	120.8	5					✓	✓							5						
365	100	160.2	6		✓			✓	✓							6				✓		
			7													7						
			8													8						
			9													9						
			10													10						
			11													11						
			12													12						
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			18													18						
			19													19						
			20													20						
			21													21						
			22													22						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2013-06 Ship: F/V Frosti

As taken checked sar file.

Cast # 45 UTC Date (ddmmmyyyy) ___/09/2013 Ice Coverage 10 Water Depth(from surface) ___ m

Station CBH_05_1 UTC Time ___ In Air pressure (before/after) ___/___ Sound Speed ___

CTD File 2013-06-00 45 Lat (N) ___ Lon (W) ___ CTD Operator ___

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	ChaTot	Chlide	POC/PON	Taxo	Bact	DAPI	Niskin #	Fat/Acid	DNA/RNA	DOC/DN	Carboy		Comments
366	80	80.3	1		✓			✓	✓							1				✓		
367	70	70.0	2		✓			✓	✓							2				✓		
368	60	60.0	3		✓			✓	✓							3				✓		
369	50	50.1	4		✓			✓	✓							4				✓		start max 50m
370	50	50.1	5													5				✓		
371	50	50.1	6													6				✓		
372	40	40.6	7		✓			✓	✓							7				✓		
373	30	30.3	8		✓			✓	✓							8				✓		
374	20	20.2	9		✓			✓	✓							9				✓		
375	10	10.2	10		✓			✓	✓							10				✓		
376	5	4.9	11													11				✓		
377	5	4.9	12		✓			✓	✓							12				✓		
			13													13						
			14													14						
			15													15						
			16													16						
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			18													18						
			19													19						
			20													20						
			21													21						
			22													22						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

move 5 to 8.

46

Rosette Log for IOS Cruise ID 2013-06 Ship: F/V Frosti

Cast # 46 UTC Date (ddmmmyyyy) 22 / 08 / 2013 Ice Coverage /10 Water Depth(from surface) 275 m

Station CBH_06_1 UTC Time _____ In Air pressure (before/after) ____/____ Sound Speed _____

CTD File 2013-06-00 46 Lat (N) _____ Lon (W) _____ CTD Operator _____

Samp #	Target Property	Depth(m)	Niskin #	Bottle integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch a Tot	Chla5u	POC/PON	Taxo	Bsiot	DNPI	Niskin #	FdAcid	DNA/RNA	DOC/DN	Carboy	Comments
378	275	268.7	1					✓	✓							1				✓	
379	200	200.2	2					✓	✓							2					
380	33.1	152.7	3					✓	✓							3				✓	152m = 33.1
381	125	125.6	4					✓	✓							4					
382	100	100.2	5					✓	✓							5				✓	
			6													6					
			7													7					
			8													8					
			9													9					
			10													10					
			11													11					
			12													12					
			13													13					
			14													14					
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			17													17					
			18													18					
			19													19					
			20													20					
			21													21					
			22													22					

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2013-06 Ship: F/V Frosti

Cast # 47 UTC Date (ddmmmyyyy) ___/__/08/2013 Ice Coverage __/10 Water Depth(from surface)_____m

Station CBL06-2 UTC Time _____ In Air pressure (before/after) ____/____ Sound Speed_____

CTD File 2013-08-00 47 Lat (N) _____ Lon (W) _____ CTD Operator_____

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Chl&Tot	Chla&u	POC/PON	Taxo	Bact	DAPI	Niskin #	Fe/Mn/Al	DNA/RNA	DOC/DN	Carboy		Comments
383	80	80.4	1					✓	✓							1				✓		
384	70	70.3	2					✓	✓							2				✓		
385	60	60.5	3					✓	✓							3				✓		
386	50	50.4	4					✓	✓							4				✓		chl a max 40-50m — 40
387	40	40.3	5					✓	✓							5				✓		
388	40	40.5	6													6				✓		
389	40	40.3	7													7				✓		
390	30	30.7	8					✓	✓							8				✓		
391	20	19.7	9					✓	✓							9				✓		
392	10	10.6	10					✓	✓							10				✓		
393	5	5.1	11													11				✓		
394	4	5.3	12					–	✓							12				✓		
			13													13						
			14													14						
			15													15						
			16													16						
			17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2013-06 Ship: F/V Frosti

Cast # 48 UTC Date (ddmmmyyyy) 22 | 08 | 2013 Ice Coverage 10 Water Depth(from surface) _____ m

Station CBH_07_1 UTC Time _____ In Air pressure (before/after) ____/____ Sound Speed _____

CTD File 2013-06-00 48 Lat (N) _____ Lon (W) _____ CTD Operator _____

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Chl aTot	Chl aSu	POC/PON	Tdis	Bact	DAPI	Niskin #	Fat/Acid	AHL-HHL DNA/RNA	DOC/DN	Carboy		Comments
395	200	197.3	1					✓	✓							1				✓		3.5 - 5.0 MAB.
396	33.1]	126.1	2					✓	✓							2				✓		
397	125]	125.9	3					✓	✓							3						33.1 = 125m
398	100	100.5	4					✓	✓							4				✓		
			5													5						
			6													6						
			7													7						
			8													8						
			9													9						
			10													10						
			11													11						
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			21													21						
			22													22						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

sav. file updated

Rosette Log for IOS Cruise ID 2013-06 Ship: F/V Frosti

Cast # 49 UTC Date (ddmmmyyyy) 22 | 06 | 2013 Ice Coverage /10 Water Depth(from surface) 202 m

Station CBH_07_2 UTC Time Air pressure(before/after) / Sound Speed

CTD File 2013-06-00 49 Lat (N) Lon (W) CTD Operator

Samp #	Target Property	Depth(m)	Niskin	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	ChlaTot	ChlaSa	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Carboy		Comments
399	80	80.3	1					/	/							1				/		
400	70	70.0	2					/	/							2				/		
401	60	60.2	3					/	/							3				/		
402	50	50.1	4					/	/							4				/		chla mat = 50m.
403	50	49.9	5					/	/							5				/		} SALTS taken due to weird
404	50	50.1	6					/	/							6				/		T inversion near Chla max.
405	40	40.5	7					/	/							7				/		
406	30	30.2	8					/	/							8				/		
407	20	20.2	9					/	/							9				/		
408	10	10.2	10					/	/							10				/		
409	5	5.4	11													11				/		
410	5	5.4	12					/	/							12				/		
			13													13						
			14													14						
			15													15						
			16													16						
			17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2013-06 Ship: *F/V Frosti*

Cast # 50 UTC Date (ddmmmyyyy) 25 | 08 | 2013 Ice Coverage /10 Water Depth(from surface) 22 m

Station EBC 07 UTC Time _____ In Air pressure (before/after) ____/____ Sound Speed _____

CTD File 2013-06-00 50 Lat (N) _____ Lon (W) _____ CTD Operator _____

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	ChaTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Carboy		Comments
401	70	21.2	1		✓			✓	✓							1				✓		1 MAB.
402	60	9.9	2					✓	✓							2				✓		
403	40	9.9	3					✓	✓							3				✓		chla max = 10m.
404	40	9.9	4					✓	✓							4				✓		
405	25	4.7	5					✓	✓							5				✓		
406	5	4.7	6		✓			✓	✓							6				✓		
407	30		7					✓	✓							7				✓		
408	20		8					✓	✓							8				✓		
409	10		9						✓							9				✓		
420	5		10													10				✓		
421	2		11					✓	✓							11				✓		
			12													12						
			13													13						
			14													14						
			15													15						
			16													16						
			17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2013-06 Ship: *F/V Frosti*

Cast # 51 UTC Date (ddmmmyyyy) 25 | 06 | 2013 Ice Coverage /10 Water Depth(from surface) m

Station ESC-02 UTC Time In Air pressure (before/after) / Sound Speed

CTD File 2013-06-00 51 Lat (N) Lon (W) CTD Operator

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Chl aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Carboy		Comments
417	20	19.9	1					✓	✓							1				✓		chla max 13-20 m ~ 20m.
418	20	19.9	2					✓	✓							2				✓		
419	20	19.9	3						✓							3				✓		
420	10	9.9	4					✓	✓							4				✓		
421	5	5.1	5					✓	✓							5				✓		
422	5	5.1	6						✓							6				✓		
			7													7						
			8													8						
			9													9						
			10													10						
			11													11						
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Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID: 2013-08 Ship: F/V Frosti

Cast # 52 UTC Date (ddmmmyyyy) 26 08 2013 Ice Coverage 10 Water Depth(from surface) _____ m

Station ESC-03 UTC Time _____ In air pressure (before/after) ____/____ Sound Speed _____

CTD File 2013-08-00 52 Lat (N) _____ Lon (W) _____ CTD Operator _____

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	CHLTOT	CHLFLU	POC/PON	Toxic	Bact	DAPI	Niskin #	Particul.	DNA/RNA	DOC/DN	Carboy		Comments
423	20	20.0	1					✓	✓							1				✓		3.2MAB
424	10	10.1	2						✓							2				✓		
425	10	10.2	3						✓							3				✓		
426	10	10.1	4					✓	✓							4				✓		chla max = 10
427	5	4.7	5						✓							5				✓		
428	5	4.7	6					✓	✓							6				✓		
			7													7						
			8													8						
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Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2013-06 Ship: F/V Frosti

Cast # 153 UTC Date (ddmmmyyyy) 26 08 2013 Ice Coverage 10 Water Depth(from surface) ____ m

Station ESC-04 UTC Time ____ In Air pressure (before/after) ____/____ Sound Speed ____

CTD File 2013-06-00 8453 Lat (N) ____ Lon (W) ____ CTD Operator ____

Samp #	Target Property	Depth(m)	Niskin #	Bottle integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch a Tot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	Fat/Acid	DNA/RNA	DOC/DN	Carboy		Comments
429	20	20.0	1					✓	✓							1				/		316 MAB
430	20	20.2	2						✓							2				/		chla max = 20
431	20	20.0	3						✓							3				/		
432	10	10.2	4					✓	✓							4				/		
433	5	4.9	5						✓							5				/		
434	3	4.9	6					✓	✓							6				/		
			7													7						
			8													8						
			9													9						
			10													10						
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Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column

Comments:

Rosette Log for IOS Cruise ID 2013-06 Ship: *F/V Frosti*

Cast # 55 **UTC Date** (ddmmmyyyy) 29 | 08 | 2013 **Ice Coverag** 0 **Water Depth(from surface)** 48 m

Station GRY-01 **UTC Time** 1317 **In Air pressure (before/a**

CTD File ~~2013-044-00~~ 2013-06-0055 **Lat (N)** 69 52 511 **Lon (W)** 137 14.52 **CTD Operator** JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	~~DIC~~/ALK	NUT	O18	Ba	SAL	~~Chl~~/POC/PON	Taxo	Bact	DAPI	Niskin #		Comments
441		Bo 40	1	✓✓		✓	✓	✓	✓					1		
442		30	2	✓✓		|	|	|	|					2		
443		20	3	✓✓		|	|	|	|					3		
444		10	4	✓✗		|	|	|	|					4		air valve open
445		5	5	✓✗		✓	✓	✓	✓					5		air valve open
			6											6		
			7											7		
			8											8		
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			10											10		
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Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2013-06 Ship: *F/V Frosti*

Cast # 57 **UTC Date** (ddmmmyyyy) 29/08/2013 **Ice Cover** 0/10 **Water Depth(from surface)** 204 m

Station GRY-03 **UTC Time** 1852 **In Air pressure (before/a**

CTD File 2013-06-0057 **Lat (N)** 70 07.85 **Lon (W)** 138 01.90 **CTD Operator** JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL						Niskin #		Comments
446		Bo 194	✓1	✓✓		✓	✓	✓	✓						1		
447		150	✓2	✓✓		|	|	|	|						2		
448		125	✓3	✓✓		|	|	|	|						3		
449		100	✓4	✓✓		|	|	|	|						4		
450		75	✓5	✓✓		|	|	|	|						5		
451		50	✓6	✓✓		|	|	|	|						6		air valve open
452		30	✓7	✓✓		|	|	|	|						7		
453		20	✓8	✓✓		|	|	|	|						8		
454		10	✓9	✓✓		|	|	|	|						9		
455		5	✓10	✓✓		✓	✓	✓	✓						10		
			11												11		
			12												12		
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			22												22		

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2013-06 Ship: *F/V Frosti*

Cast # 59 **UTC Date** (ddmmmyyyy) 30 / 08 / 2013 **Ice Cover** 0 **Water Depth(from surface)** 502 m

Station GRY-05 **UTC Time** 1308 **In Air pressure (before/a**

CTD File 2013-06-059 **Lat (N)** 70 18.13 **Lon (W)** 138 32.72 **CTD Operator** JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL						Niskin #		Comments
456		Bo 487	1	✓ ✗		✓	✓	✓							1		air valve left open
457		400 ✓	2	✓ ✓					✓						2		
458		300 ✓	3	✓ ✓											3		
459		200 ✓	4	✓ ✓											4		
460		150 ✓	5	✓ ✓											5		
461		100 ✓	6	✓ ✓											6		
462		50 ✓	7	✓ ✓											7		
463		30 ✓	8	✓ ✓											8		
464		20 ✓	9	✓ ✓											9		
465		10 ✓	10	✓ ✓											10		
466		5 ✓	11	✓ ✓		✓	✓	✓							11		
			12												12		
			13												13		
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			22												22		

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2013-06 Ship: *F/V Frosti*

Cast # 61 **UTC Date** (ddmmmyyyy) 30/08/2013 **Ice Cover** 0 **Water Depth(from surface)** 1034 m

Station GR7-07 **UTC Time** 2359 **In Air pressure (before/a**

CTD File 2013-06-061 **Lat (N)** 70 31 46 **Lon (W)** 139 14.09 **CTD Operator** Je

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL					Niskin #		Comments
467		Bo 1023	✓1	✓✓		✓	✓	✓	✓					1		
468		500	✓2	✓✓					✓✓					2		
469		400	✓3	✓✓					✓					3		
470		250	✓4	✓✓										4		
471		160	✓5	✓✓										5		
472		100	✓6	✓✓										6		
473		75	✓7	✓✓										7		
474		50	✓8	✓✓										8		
475		30	✓9	✓✓										9		
476		20	✓10	✓✓										10		
477		10	✓11	✓✓										11		
478		10	✓12	✓✓		✓	✓	✓	✓					12		fired at 10m instead of 5
			13											13		
			14											14		
			15											15		
			16											16		
			17											17		
			18											18		
			19											19		
			20											20		
			21											21		
			22											22		

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2013-06 Ship: *F/V Frosti*

Cast # 62 **UTC Date** (ddmmmyyyy) 02/09/2013 **Ice Cover** 0 **Water Depth(from surface)** 41 m

Station TBS-01 **UTC Time** 1317 **In Air pressure (before/a**

CTD File 2013-06-0062 **Lat (N)** 69 55.79 **Lon (W)** 140 22.64 **CTD Operator** JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL						Niskin #		Comments
479		80 3715 ✓	✓1			✓	✓	✓	✓						1		
480		30 ✓	2			|	|	|	|						2		
481		20 ✓	3			|	|	|	|						3		
482		10 ✓	4			|	|	|	|						4		
483		5 ✓	5			✓	✓	✓	✓						5		
			6												6		
			7												7		
			8												8		
			9												9		
			10												10		
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			22												22		

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2013-06 Ship: *F/V Frosti*

Cast # 63 **UTC Date** (ddmmmyyyy) 02/07/2013 **Ice Cover** 0 **Water Depth(from surface)** 73 m

Station TBS-02 **UTC Time** 1643 **In Air pressure (before/a**

CTD File 2013-06-0063 **Lat (N)** 70 15.13 **Lon (W)** 140 22.60 **CTD Operator** JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL						Niskin #		Comments
484		Bo 64	✓ 1	✓✓		✓	✓	✓	✓						1		
485		50	✓ 2	✓✓					✓✓						2		
486		40	✓ 3	✓✓					✓						3		
487		30	✓ 4	✓✓				✓							4		
488		20	✓ 5	✓✓											5		
489		10	✓ 6	✓✓											6		
490		5	✓ 7	✓✓		✓	✓	✓	✓						7		
			8												8		
			9												9		
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Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2013-06 Ship: *F/V Frosti*

Cast # 64 **UTC Date** (ddmmmyyyy) 02/09/2013 **Ice Cover** 0 **Water Depth(from surface)** 203 m

Station TBS-03 **UTC Time** 1956 **In Air pressure (before/a**

CTD File 2013-06-064 **Lat (N)** 70 16 86 **Lon (W)** 146 22.55 **CTD Operator** JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL						Niskin #		Comments
491		Bo 195+7	✓ 1	✓✓		✓	✓	✓	✓						1		
492		150	✓ 2	✓✓		|	|	|	|						2		
493		100	✓ 3	✓✓		|	|	|	|						3		
494		75	✓ 4	✓✓		|	|	|	|						4		
495		40	✓ 5	✓✓		|	|	|	|						5		
496		30	✓ 6	✓✓		|	|	|	|						6		
497		20	✓ 7	✓✓		|	|	|	|						7		
498		10	✓ 8	✓✓		|	|	|	✓						8		
499		5	✓ 9	✓✓		✓	✓	✓	✓✓						9		
			10												10		
			11												11		
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Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2013-06 Ship: *F/V Frosti*

Cast # 65 **UTC Date** (ddmmmyyyy) 02/09/2013 **Ice Cover** 0 **Water Depth(from surface)** 351 m

Station TBS-04 **UTC Time** 2200 **In Air pressure (before/a**

CTD File 2013-06-0064 **Lat (N)** 70 20.85 **Lon (W)** 140 23.03 **CTD Operator** JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL						Niskin #		Comments
500		Bo 340	✓1	✓✓		✓	✓	✓	✓						1		
501		200	✓2	✓✓		|	|	|	✓✓					2		
502		150	✓3	✓✓		|	|	|	✓					3		
503		100	✓4	✓✓		|	|	|	|					4		
504		75	✓5	✓✓		|	|	|	|					5		
505		40	✓6	✓✓		|	|	✓✓	|					6		
506		30	✓7	✓✓		|	|	✓	|					7		
507		20	✓8	✓✓		|	|	|	|					8		
508		10	✓9	✓✓		✓	✓	|	|						9		
509		5	✓10	✓✓		✓	✓	✓	✓						10		
			11												11		
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			22												22		

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2013-06 Ship: *F/V Frosti*

Cast # 68 **UTC Date** (ddmmmyyyy) 05 / 09 / 2013 **Ice Cover** 0 **Water Depth(from surface)** 47 m

Station A1-01 **UTC Time** 1306 **In Air pressure (before/a**

CTD File 2013-06-0068 **Lat (N)** 70 02.27 **Lon (W)** 141 04.59 **CTD Operator** JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL						Niskin #		Comments
510		Bot+10	✓1	✓✓		✓	✓	✓	✓						1		
511		30	✓2	✓✓		|	|	|	|						2		
512		20	✓3	✓✓		|	|	|	|						3		
513		10	✓4	✓✓		|	|	|	|						4		
514		5	✓5	✓✓		✓	✓	✓	✓						5		
			6												6		
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Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2013-06 Ship: *F/V Frosti*

Cast # 69 **UTC Date** (ddmmmyyyy) 05 / 09 / 2013 **Ice Cover** 0 **Water Depth(from surface)** 80 m

Station A1-02 **UTC Time** 1614 **In Air pressure (before/a**

CTD File 2013-06-0069 **Lat (N)** 70 20.24 **Lon (W)** 141 07.04 **CTD Operator** JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL						Niskin #		Comments
515		Bot 75+10	✓1			✓	✓	✓	✓						1		
516		40	✓2			|	|	✓✓	✓✓						2		
517		30	✓3			|	|	✓	✓						3		
518		20	✓4			|	|	|	|						4		
519		10	✓5			|	|	|	|						5		
520		5	✓6			✓	✓	✓	✓							6		
			7													7		
			8													8		
			9													9		
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Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2013-06 Ship: *F/V Frosti*

Cast # 70 **UTC Date** (ddmmmyyyy) 05/09/2013 **Ice Cover** 0 **Water Depth(from surface)** 201 m

Station A1-03 **UTC Time** 1815 **In Air pressure (before/a**

CTD File 2013-06-0070 **Lat (N)** 70 22 14 **Lon (W)** 141 07 79 **CTD Operator** JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL						Niskin #		Comments
521		B 191	✓1	✓✓		✓	✓	✓	✓						1		
522		150	✓2	✓✓		|	|		|					2		
523		100	✓3	✓✓		|	|	|	|					3		
524		75	✓4	✓✓		|	|	|	|					4		
525		40	✓5	✓✓		|	|	|	|					5		
526		30	✓6	✓✓		|	|	|	|					6		
527		20	✓7	✓✓		|	|	|	|					7		
528		10	✓8	✓✓		|	|	|	|					8		
529		5	✓9	✓✓		↓	↓	↓	↓						9		
			10												10		
			11												11		
			12												12		
			13												13		
			14												14		
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			19												19		
			20												20		
			21												21		
			22												22		

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2013-06 Ship: *F/V Frosti*

Cast # 71 **UTC Date** (ddmmmyyyy) 05/09/2013 **Ice Cover** 0 **Water Depth(from surface)** 242 m

Station A1-04 **UTC Time** 2056 **In Air pressure (before/a**

CTD File 2013-06-0 071 **Lat (N)** 70 24.73 **Lon (W)** 141 03 39 **CTD Operator** JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL						Niskin #		Comments
530		Bo 334	✓ 1	✓		✓	✓	✓	✓						1		Sal dups are 1 glass, 1 plastic
531		200	✓ 2	✓✓		|	|	|	✓✓✓					2		2 glass, 2 plastic sal
532		150	✓ 3	✓✓		|	|	|	✓					3		
533		100	✓ 4	✓✓		|	|	|	✓✓					4		
534		75	✓ 5	✓✓		|	|	|	✓					5		
535		40	✓ 6	✓✓		|	|	|	✓✓					6		
536		30	✓ 7	✓✓		|	|	✓	✓					7		
537		20	✓ 8	✓✓		|	|	✓✓	✓✓					8		
538		10	✓ 9	✓✓		|	|	✓	✓					9		
539		5	✓ 10	✓✓		✓	✓	✓	✓						10		
			11												11		
			12												12		
			13												13		
			14												14		
			15												15		
			16												16		
			17												17		
			18												18		
			19												19		
			20												20		
			21												21		
			22												22		

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2013-06 Ship: *F/V Frosti*

Cast # 73 **UTC Date** (ddmmmyyyy) 06 / 09 / 2013 **Ice Cover** 0 **Water Depth(from surface)** 755 m

Station AI-06 **UTC Time** 1306 **In Air pressure (before/a**

CTD File 2013-06-073 **Lat (N)** 70 32.36 **Lon (W)** 141 01 47 **CTD Operator** JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL						Niskin #		Comments
540		3o 747	✓1	✓✓		✓			✓						1		
541		500	✓2						✓✓						2		
542		350	✓3				✓	✓	✓						3		
543		200	✓4												4		
544		140	✓5												5		
545		100	✓6												6		
546		75	✓7												7		
547		40	✓8												8		
548		30	✓9												9		
549		20	✓10												10		
550		10	✓11												11		
551		5	✓12	✓✓		✓	✓	✓	✓						12		
			13												13		
			14												14		
			15												15		
			16												16		
			17												17		
			18												18		
			19												19		
			20												20		
			21												21		
			22												22		

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2013-06 Ship: *F/V Frosti*

Cast # 74 **UTC Date** (ddmmmyyyy) 06 / 09 / 2013 **Ice Cover** 0 **Water Depth(from surface)** 998 m

Station A1-07 **UTC Time** 1730 **In Air pressure (before/a**

CTD File 2013-06-0074 **Lat (N)** 70 36.16 **Lon (W)** 141 02.35 **CTD Operator** JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL						Niskin #		Comments
552		1300 983	✓1			✓			✓						1		
553		500	✓2												2		
554		350	✓3				✓	✓							3		
555		200	✓4												4		
556		140	✓5						✓						5		
557		100	✓6						✓✓						6		
558		75	✓7						✓						7		
559		40	✓8												8		
560		30	✓9												9		
561		20	✓10												10		
562		10	✓11												11		
563		5	✓12			✓	✓	✓	✓						12		
			13												13		
			14												14		
			15												15		
			16												16		
			17												17		
			18												18		
			19												19		
			20												20		
			21												21		
			22												22		

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments: