

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 1 of 1

Month <i>Sept</i>				Year <i>2013</i>				Ship <i>FROST</i>				Cruise ID <i>2013-06</i>			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
05	A1-03	1815	BE	ROS	US	473	70 22.14	141 07.79	201		521-529	9	JE	✓	Cast 70
		1823	BO				70 22.09	141 07.74		190 ⁺⁸					
		1832	EN				70 22.04	141 07.84							
05	A1-03	19:37	BE	W2A		474	70 21.647	141 00.979	204						
		19:45	BO				70 21.758	141 02.562	203						
		20:05	EN				70 21.879	141 05.580	199						
05	A1-04	2056	BE	ROS	US	475	70 24.73	141 03.39	348		530-539	10	JE	✓	Cast 71
		2106	BO				70 24.59	141 03.78		334 ⁺⁸					Salt bottle comparison
		2120	EN				70 24.44	141 04.38							
05	A1-04	21:37	BE	Box		476	70 24.771	141 03.569	349						Good core
		2141	BO				70 24.765	141 03.784	349						
		2146	EN				70 24.737	141 03.975	347						
05	A1-04	22:01	BE	Box		477	70 24.728	141 03.510	348						Good core
		22:05	BO				70 24.669	141 03.661	345						
		22:10	EN				70 24.635	141 03.900	343						
05	A1-04	22:39	BE	W2A		478	70 24.566	141 01.215	349						Clean tow.
		22:51	BO				70 24.761	141 03.898	349						
		23:11	EN				70 24.885	141 06.922	346						

Cast Type:

BOT = Bottle cast, no CTD
 CTD = CTD without Rosette
 ROS = Rosette plus CTD
 SET = Fish Set

USW = Sea Water Loop
 MOR = Mooring
 NET = Plankton Net Haul
 DRF = Drifter

Bottle Firing Method:

US = Up / Stop
 UN = Up / No stop
 DN = Down / No stop

Time Code:

BE = Beginning Time of Cast
 BO = Bottom Time of Cast
 EN = End Time of Cast
 DE = Deployment Time
 MR = Messenger Release Time
 RE = Recover Mooring Time

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 16 April 2010

Notes:

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 2 of

Month				Year			Ship				Cruise ID				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
06	A1-05	00:08	BE	ROS	/	479	70 28.31	141 00.95	505		/	/	JE	✓	Cast 72
		00:19	BO				70 28.33	141 01.53		500 +13					
		00:26	EN				70 28.33	141 01.93							
06	A1-05	00:53	BE	W2A		480	70 28 219	141 00 943	498						
		01:13	BO				70 28 488	141 05 005	523						
		01:23	EN				70 28 565	141 06 255	531						Hung up trawl.
06	A1-06	13:06	BE	ROS	/	481	70 32.36	141 01 47	757		540-551	12	SE	✓	
		13:22	BO				70 32.49	141 02.05		747 +15					
		13:43	EN				70 32.62	141 02 92							
06	A1-06	14:00	BE	Box		482	70 32 252	141 01 415	745						Good core.
		14:10	BO				70 32 289	141 01 651	745						
		14:21	EN				70 32 354	141 02 021	745						
06	A1-06	14:31	BE	Box		483	70 32 268	141 01 616	749						Good core.
		14:41	BO				70 32 328	141 01 846	747						
		14:49	EN				70 32 376	141 02 175	745						
06	A1-06	15:25	BE	W2A		484	70 32 637	140 56 775	760						
		15:51	BO				70 32 655	141 02 121	763						
		15:59	EN				70 32 632	141 03 126	761						

Cast Type:

BOT = Bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD
SET = Fish Set

USW = Sea Water Loop

MOR = Mooring
NET = Plankton Net Haul
DRF = Drifter

Bottle Firing Method:

US = Up / Stop
UN = Up / No stop
DN = Down / No stop

Time Code:

BE = Beginning Time of Cast
BO = Bottom Time of Cast
EN = End Time of Cast
DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 16 April 2010

Notes:

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 3 of

Month				Year				Ship				Cruise ID				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Latitude	Information Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments	
06	A1-07	1730	BE	ROS	US	486	70 36.16	141 02.35	998		552-563	12	SE	✓	steep bathymetry	
		1751	BO			484.1	70 36.10	141 02 42		983 ⁺¹⁵					cast 74	
		1815	EN				70 36.28	141 02.88							Some mud in water @ start	
06	A1-06/07	19:05	BE	W2A		481	70 33.277	141 03 112	804						Non quantitative	
		19:30	BO			484.2	70 33.506	141 03 182	816						see trawl notes	
		20:28	EN				70 35.045	141 02 777							+ over	
06	A1-HC	2336	BE	ROS	/	482	70 28.30	141 01.15	492		/	/	Je	✓	cast 75	
		2349	BO			484.3	70 28.32	141 01.68		526 ⁺⁶					camera on	
		2359	EN				70 28.35	141 02.13							drifted deeper	
07	A1-HC	00:14	BE	MPS		483	70 28.272	141 00 875	500					MPS-71		
		00:24	BO			484.4	70 28.255	141 01 253	491						stopped @ 485	
		00:32	EN				70 28.276	141 01 615	519							
07	A1-HC	00:38	BE	BON		484	70 28.269	141 01 921	523						BON-91	
		00:42	BO			484.5	70 28.252	141 01 617	516							
		00:53	EN				70 28.304	141 00 503	508							
07	A1-HC	01:12	BE	mWT		485	70 28.094	141 00 549	528							
		01:24	BO				70 28.356	141 02 751								
		02:08	EN				70 29.034	141 06 767								

Cast Type:

BOT = Bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD
SET = Fish Set

USW = Sea Water Loop
MOR = Mooring
NET = Plankton Net Haul
DRF = Drifter

Bottle Firing Method:

US = Up / Stop
UN = Up / No stop
DN = Down / No stop

Notes:

Time Code:

BE = Beginning Time of Cast
BO = Bottom Time of Cast
EN = End Time of Cast
DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 16 April 2010

Event 481 - Had to tow down the butterfly net - very heavy tow hung up or slowed down constantly. Trawl sensors worked on/off so difficult to know when trawl was actually on the bottom or not.

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 4 of

Month <u>Sept</u>			Year <u>2013</u>				Ship <u>Frosti</u>				Cruise ID				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
07	A1-HC	1326	BE	CTD	-	486	70 25.04	141 04.95	356		/	/	JE	/	Cast 76 SBE-19+
		1335	BO				70 25.08	141 04.97		340					319
		1341	EN				70 25.09	141 05.13							
07	A1-HC	14:16	BE	mWT		488	70 25.061	141 01.971	358						
		14:30	BO			487	70 25.121	141 04.259	358						
		15:05	EN				70 25.311	141 08.623	356						
08/09	DWT-01	23:48	BE	W&A		489	70 32.985	138 19.466	1140						Trawl eye not #104
		00:24	BO			488	70 35.373	138 19.635					RBR on net.		working so no
		01:25	EN				70 38.060	138 19.127					508		data on when trawl started.
09/09	DWT-01	1324	BE	ROS	/	487	70 35.95	138 19.73	1215		/	/	JE	✓	Cast 76
		1348	BO			489	70 35.97	138 19.68		1197 +15					
		1406	EN				70 35.97	138 19.65							
09/09	DWT-01	14:16	BE	MPS		490	70 36.004	138 19.337	1217				MPS 72		net lowered to
		14:20	BO				70 35.999	138 19.345	1216						150 m.
		14:22	EN				70 36.011	138 19.241	1217						
09/09	DWT-01	14:35	BE	MPS		491	70 36.022	138 19.415	1217				MPS 73		net lowered to
		14:55	BO				70 35.983	138 19.445	1215						1200 m.
		15:14	EN				70 36.000	138 19.099	1216						

Cast Type:

BOT = Bottle cast, no CTD
 CTD = CTD without Rosette
 ROS = Rosette plus CTD
 SET = Fish Set

USW = Sea Water Loop

MOR = Mooring
 NET = Plankton Net Haul
 DRF = Drifter

Bottle Firing Method:

US = Up / Stop
 UN = Up / No stop
 DN = Down / No stop

Time Code:

BE = Beginning Time of Cast
 BO = Bottom Time of Cast
 EN = End Time of Cast
 DE = Deployment Time
 MR = Messenger Release Time
 RE = Recover Mooring Time

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 16 April 2010

Notes:

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 5 of

Month <u>Sept</u>		Year <u>2013</u>		Ship <u>F/V Fvosti</u>		Cruise ID									
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
09	DWT-01	15:22	BE	BOX		492	7035975	13818.960	1216						BON-92
		15:29	BO				7036038	13818.305	1228						
		15:46	EN				7036231	13816.738	1236						
09	DWT-01	16:08	BE	Box		493	7035959	13820.031	1213						Good core
		16:26	BO				7035987	13819.690	1217						
		16:43	EN				7035973	13819.545	1215						
09	DWT-01	16:52	BE	Box		494	7035909	13819.424	1211						Good core.
		17:07	BO				7035882	13819.078	1210						
		17:22	EN				7035921	13818.544	1220						
09	DWT-01	18:12	BE	W2A		495	7035568	13804.798	1225						RBR on net 509
		18:49	BO				7035974	13812.221	1252						W2A-105
		19:49	EN				7036466	13820.145	1240						
09	DWT-02	22:14	BE	W2A		496	7044737	13807.709	1536						RBR 510
		22:51	BO				7043942	13814.827							
		23:53	EN				7043322	13821.331	1521						
10	U-51	13:52	BE	UCTD		497	7049539	13619.436	747						
		13:55	BO				7049422	13619.071	739	626					
		14:04	EN				7049133	13618.195	740						

Cast Type:

BOT = Bottle cast, no CTD
 CTD = CTD without Rosette
 ROS = Rosette plus CTD
 SET = Fish Set

USW = Sea Water Loop
 MOR = Mooring
 NET = Plankton Net Haul
 DRF = Drifter
 — =

Bottle Firing Method:

US = Up / Stop
 UN = Up / No stop
 DN = Down / No stop

Notes:

Time Code:

BE = Beginning Time of Cast
 BO = Bottom Time of Cast
 EN = End Time of Cast
 DE = Deployment Time
 MR = Messenger Release Time
 RE = Recover Mooring Time

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 16 April 2010

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 6 of

Month <u>Sept</u>				Year <u>2013</u>			Ship <u>F/V Frosti</u>				Cruise ID				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
10	U-52	14:54	BE	UCTD		498	7044833	13604187	648						
		14:57	BO				7044693	13603782	637	633					
		15:06	EN				7044343	13602703	609						
10	U-53	15:12	BE	UCTD		499	7044183	13602291	594						
		15:15	BO				7044078	13601943	585	588					
		15:23	EN				7043792	13601075	557						
10	U-54	15:43	BE	UCTD		500	7043004	13558651	520						
		15:46	BO				7042901	13558319	518	526					
		15:53	EN				7042609	13557468	507	524					
10	U-55	16:06	BE	UCTD		501	7041501	13553961	396						
		16:08	BO				7041418	13553731	389	409					
		16:14	EN				7041139	13552926	378						
10	U-56	16:20	BE	UCTD		502	7040891	13552174	355						
		16:22	BO				7040808	13551942	347	360					
		16:27	EN				7040619	13551351	328						
10	U-57	16:41	BE	UCTD		503	7040298	13550656	306						
		16:43	BO				7040277	13550638	306	310					
		16:48	EN				7040231	13550569	305						

Cast Type:

BOT = Bottle cast, no CTD
 CTD = CTD without Rosette
 ROS = Rosette plus CTD
 SET = Fish Set

USW = Sea Water Loop

MOR = Mooring
 NET = Plankton Net Haul
 DRF = Drifter

— =

Bottle Firing Method:

US = Up / Stop
 UN = Up / No stop
 DN = Down / No stop

Notes:

Time Code:

BE = Beginning Time of Cast
 BO = Bottom Time of Cast
 EN = End Time of Cast
 DE = Deployment Time
 MR = Messenger Release Time
 RE = Recover Mooring Time

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 16 April 2010

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 7 of

Month <u>Sept</u>				Year <u>2013</u>			Ship <u>FN Frosti</u>				Cruise ID				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
10	U-58	17:12	BE	UCTD		504	70 39.438	135 48.112	264						
		17:13	BO				70 39.375	135 47.888	259	253					
		17:18	EN				70 39.180	135 47.213	243						
10	U-59	17:27	BE	UCTD		505	70 38.688	135 45.537	197						
		17:27	BO				70 38.600	135 45.438	195	205					
		17:31	EN				70 38.501	135 44.929	180						
10	U-60	17:35	BE	UCTD		506	70 38.294	135 44.240	158						Stopwatch issue.
		17:36	BO				70 38.256	135 44.105	151	127					
		17:38	EN				70 38.163	135 43.816	137						
10	U-61	17:42	BE	UCTD		507	70 37.987	135 43.236	118						
		17:43	BO				70 37.955	135 43.130	118	91					
		17:44	EN				70 37.900	135 42.955	120						
10	U-62	17:48	BE	UCTD		508	70 37.709	135 42.336	100						
		17:49	BO				70 37.684	135 42.258	99	88					
		17:50	EN				70 37.628	135 42.082	96						
10	U-63	18:00	BE	UCTD		509	70 37.149	135 40.511	85						
		18:01	BO				70 37.120	135 40.407	80	49					
		18:02	EN				70 37.066	135 40.234	79						

Cast Type:

BOT = Bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD
SET = Fish Set

USW = Sea Water Loop

MOR = Mooring
NET = Plankton Net Haul
DRF = Drifter

Bottle Firing Method:

US = Up / Stop
UN = Up / No stop
DN = Down / No stop

Notes:

Time Code:

BE = Beginning Time of Cast
BO = Bottom Time of Cast
EN = End Time of Cast
DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 16 April 2010

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 8 of

Month <u>Sept</u>			Year <u>2013</u>			Ship <u>R/V Frosti</u>			Cruise ID						
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
10	U-64	1804	BE	UCTD		510	7036988	13539782	73						
		1805	BO				7036898	13539.687	75	69					
		18:06	EN				7036849	13539533	72						
10	U-65	1839	BE	UCTD		511	7034067	13529844	63						
		1839	BO				7034018	13529699	63	56					
		18:41	EN				7033942	13529455	63						
11	U-66	0010	BE	UCTD		512	7058846	13448120	345						
		0012	BO				7058693	13447965	338	355					
		00:18	EN				7058020	13447429	302						
11	U-67	0021	BE	UCTD		513	7057735	13447168	290						
		0023	BO				7057586	13447031	280	211					
		0027	EN				7057167	13446578	264						
11	U-68	0032	BE	UCTD		514	7056726	13446087	249						
		0033	BO				7056586	13446932	246	179					
		0037	EN				7056277	13445605	235						
11	U-69	0041	BE	UCTD		515	7055855	13445176	195						
		00:42	BO				7055735	13445065	177	171					
		00:45	EN				7055442	13444772	150						

Cast Type:

BOT = Bottle cast, no CTD
 CTD = CTD without Rosette
 ROS = Rosette plus CTD
 SET = Fish Set

USW = Sea Water Loop

MOR = Mooring
 NET = Plankton Net Haul
 DRF = Drifter

____ = _____

Bottle Firing Method:

US = Up / Stop
 UN = Up / No stop
 DN = Down / No stop

Notes: _____

Time Code:

BE = Beginning Time of Cast
 BO = Bottom Time of Cast
 EN = End Time of Cast

DE = Deployment Time
 MR = Messenger Release Time
 RE = Recover Mooring Time

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 16 April 2010

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

[illegible]

Cast Type:

BOT = Bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD
SET = Fish Set

USW = Sea Water Loop
MOR = Mooring
NET = Plankton Net Haul
DRF = Drifter

Bottle Firing Method:

US = Up / Stop
UN = Up / No stop
DN = Down / No stop

Notes:

Time Code:

BE = Beginning Time of Cast DE = Deployment Time
BO = Bottom Time of Cast MR = Messenger Release Time
EN = End Time of Cast RE = Recover Mooring Time

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

Produced by the Water Properties Group, IOS

WaterPropti
Version: 16 Apr