

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

DATE:

From: **03 Aug 2018**

to: **29 Aug 2018**

VESSEL:

F/V FROSTI

PROJECT(S):

CBS MEA

Fisheries and Oceans Canada

Captain: Dan Mose/ (leg 2) First Officer: Jay Anderson/ (leg 2)
Second Officer: John Roach (leg 1) Third Officer: Dan Mose (leg 1)
Fishing Master: _____

Mission Participants / Agencies: DFO (Freshwater Institute + IOS); Université Laval
Sachs Harbour HRC; Paulatuk HRC.

Scientific Personnel:

Name	Chief Scientist:	Watch	Cabin	Name	Watch	Cab
<u>Valérie Cyprihot (Benthos)</u>						
<u>Ashley Ehrman (Box Core)</u>						
<u>Krystal Woodward (Fish)</u>						
<u>Amanda Timmerman (Zooplankton)</u>						
<u>Jane Eert (Oceanography)</u>						
<u>Rachel Hussbert (Primary Productivity)</u>						
<u>Kyle Walkii (Sachs Harbour HRC)</u>						

Second leg of Mission:

Name	Chief Scientist:	Watch	Cabin	Name	Watch	Cab
<u>Valérie Cyprihot (Benthos)</u>	<u>Ashley Ehrman</u>					
<u>Krystal Woodward (Fish)</u>						
<u>Christie Morrison (Box Core)</u>						
<u>Alexis Burt (Zooplankton)</u>						
<u>Glenn Cooper (Oceanography)</u>						
<u>Rachel Hussbert (Primary Productivity)</u>						
<u>Joe Ilisiak (Paulatuk HRC)</u>						

Data logging computer:

Data acquisition program: _____

CTD deck unit make: _____ model: _____ serial number: _____

Primary CTD

Make: _____ model: _____ serial number: _____

Primary temperature serial number: _____

Primary conductivity serial number: _____

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model _____ Cable gain: _____ s/n: _____ P, S or NO pump?

Oxygen sensor: _____ Model: _____ s/n: _____ P, S or NO pump?

PAR sensor: _____ Model: _____ s/n: _____

Other sensors: _____ s/n: _____ P, S or NO pump?

Other sensors: _____ s/n: _____ P, S or NO pump?

Other sensors: _____ s/n: _____ P, S or NO pump?

Other sensors: _____ s/n: _____ P, S or NO pump?

Secondary CTD

Make: _____ model: _____ serial number: _____

Primary temperature serial number: _____

Primary conductivity serial number: _____

DAILY SCIENCE LOG

Month <i>AUGUST</i>				Year <i>2018</i>				Ship <i>FROST</i>				Cruise ID
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N)	Longitude (W)	Bottom Depth	Max Depth	Logger's initials	Comments	
						DD MM.MM...	DDD MM.MM...					
<i>3</i>	<i>KUG-01</i>	<i>ROS</i>	<i>1</i>	<i>BE</i>	<i>1516</i>	<i>70 00.82</i>	<i>133 50.51</i>	<i>24</i>		<i>JE</i>	<i>Samples 1-3</i>	
					<i>1519</i>							
					<i>1522</i>	<i>70 00.84</i>	<i>133 50.81</i>					
<i>3</i>	<i>KUG-01</i>	<i>BON</i>	<i>2</i>	<i>BE</i>	<i>1533</i>	<i>70 00.82</i>	<i>133 51.29</i>	<i>24</i>	<i>10</i>	<i>ARM</i>		
				<i>EN</i>	<i>1550</i>	<i>70 00.56</i>	<i>133 50.19</i>	<i>24</i>				
<i>3</i>	<i>KUG-01</i>	<i>BOX</i>	<i>3</i>	<i>BE</i>	<i>1603</i>	<i>70 00.94</i>	<i>133 50.35</i>	<i>24</i>		<i>ARM</i>	<i>A lot of swinging around hit rail Redo</i>	
				<i>BO</i>	<i>1604</i>	<i>70 00.95</i>	<i>133 50.36</i>	<i>25</i>	<i>25</i>			
				<i>EN</i>	<i>1605</i>	<i>70 00.96</i>	<i>133 50.37</i>	<i>25</i>				
<i>3</i>	<i>KUG-01</i>	<i>BOX</i>	<i>4</i>	<i>BE</i>	<i>1618</i>	<i>70 01.07</i>	<i>133 51.00</i>	<i>24</i>		<i>ARM</i>		
				<i>BO</i>	<i>1618</i>	<i>70 01.07</i>	<i>133 51.02</i>	<i>24</i>	<i>24</i>		<i>Swinging, hit rail Discarded</i>	
				<i>EN</i>	<i>1619</i>	<i>70 01.07</i>	<i>133 51.04</i>	<i>24</i>				
<i>3</i>	<i>KUG-01</i>	<i>BOX</i>	<i>5</i>	<i>BE</i>	<i>1636</i>	<i>70 00.80</i>	<i>133 50.70</i>	<i>24</i>		<i>ARM</i>		
				<i>BO</i>	<i>1636</i>	<i>70 00.80</i>	<i>133 50.72</i>	<i>24</i>	<i>24</i>		<i>Good!</i>	
				<i>EN</i>	<i>1637</i>	<i>70 00.81</i>	<i>133 50.74</i>	<i>23</i>				
<i>3</i>	<i>KUG-01</i>	<i>BOX</i>	<i>6</i>	<i>BE</i>	<i>1659</i>	<i>70 00.06</i>	<i>133 51.67</i>	<i>24</i>		<i>ARM</i>	<i>Water only Redo</i>	
				<i>BO</i>	<i>1700</i>	<i>70 01.06</i>	<i>133 51.69</i>	<i>24</i>	<i>24</i>			
				<i>EN</i>	<i>1700</i>	<i>70 01.07</i>	<i>133 51.72</i>	<i>24</i>				
<i>3</i>	<i>KUG-01</i>	<i>BOX</i>	<i>7</i>	<i>BE</i>	<i>1704</i>	<i>70 01.11</i>	<i>133 51.86</i>	<i>24</i>		<i>ARM</i>	<i>Good! Missed in Tap-log</i>	
				<i>BO</i>	<i>1705</i>	<i>70 01.11</i>	<i>133 51.88</i>	<i>24</i>	<i>24</i>			

Event Type:

- BOT = Bottle cast, no CTD
- CTD = CTD without Rosette
- ROS = Rosette plus CTD
- WTA = Western Trawl

BBT = Benthic Beam Trawl

BON = Bongo (note Hor/Obl/Ver)

MPS = Multi-net

MWT = Midwater trawl

BOX = Box Core

Time Code:

- BE = Beginning Time
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Notes:

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

DAILY SCIENCE LOG

Month				Year				Ship				Cruise ID
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials	Comments	
				EN	1705	70 01.11	133 51.91	24				
13	KUG-01	BBT	8									
3	KUG-01b	ROS	9	BE	1907	70 15.38	134 04.80	45		JE	CTD only for fishing - C	
				BO	1910	70 15.41	134 04.94		39 ⁺⁵		st scan 4620	
				EN	1912	70 15.42	134 04.94					
3	KUG-01b	BBT	10	BE	1927	70 15.70	134 07.11	44		ARM	Depth sensor not working	
				BO	1932	70 15.64	134 06.59				est. bottom time from 1	
				EN	1942	70 15.51	134 05.69					
3	KUG-01b	BBT	11	BE	1954	70 15.32	134 04.58	43		ARM	Depth sensor not working	
				BO	2001	70 15.21	134 03.93				est. bottom time from	
				EN	2011	70 15.05	134 03.10					
3	KUG-01b	WZA	12	BE	2033	70 14.63	134 01.34	42		ARM	- Measurement sensors	
				BO	2038	70 14.84	134 02.31				- Codend partially spilled on	
				EN	2058	70 15.39	134 04.60				- "Qualitative" tow	
3	KUG-01b	ROS	13	BE	2232	70 15	134 04.75	44		JE	2 depths to get extra water for C	
				BO	2236	70 15.35	134 04.84		40 ⁺⁵		Sample 4-6	
				EN	2240	70 15.38	134 04.90					

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3	KUGO16	WZA	14	BE	2304	70 14.68	134 01.28	43		ARM	Tow to replace WZA-12
				BO	2308	70 14.89	134 02.11	44	44		Grabbed bottom at 23:
				EN	2328	70 15.46	134 04.72	44			
4	KUGO1C	ROS	15	BE	1337	70 38.96	134 28.67			JE	Samples 7-16
				BO	1336	70 38.97	134 28.75	63	58+5		exl
				EN	1343	70 39.00	134 28.86				
4	KUGO1C	MPS	16	BE	1405	70 39.09	134 29.19	61			
				BO	1405	70 39.09	134 29.21	61	50	ARM	50-25; 25-10, 10-0m
				EN	1407	70 39.10	134 29.24	61		A	
4	KUGO1C	BON	17	BE	1426	70 38.89	134 29.06	61	50	ARM	*update tap-pad entry w
				EN	1446	70 38.35	134 28.05	62			
4	KUGO1C	BOX	18	BE	1505	70 38.78	134 28.24	62			
				BO	1506	70 38.78	134 28.25	62	62	ARM	
				EN	1506	70 38.78	134 28.26	62			
4	KUGO1C	Box	19	BE	1510	70 38.79	134 28.36	62		ARM	
				BO	1510	70 38.79	134 28.38	61	61		
				EN	1511	70 38.79	134 28.41	62			
4	KUGO1C	Box	20	BE	1519	70 38.81	134 28.61	61		ARM	
				BO	1520	70 38.81	134 28.64	61			

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4	KUGOIC	BOX	20	EN	1522	70 38.81	134 28.68	61				
4	KUGOIC	BBT	21	BE	1559	70 38.64	134 25.29	61		KW	Krystal entered log info	
				BO	1605	70 38.71	134 26.11	61		KW		
				EN	1615	70 38.79	134 27.08	61		KW		
4	KUGOIC	WZA	22	BE	1619	70 38.71	134 25.48	61			See notes in trawl log.	
				BO	1622	70 38.75	134 26.19	62	62	ARM	Target layer at 50m	
				EN	1642	70 38.91	134 29.14	61			→ Lots of C. glacialis	
4	KUGOIC	MWT	23	BE	1804	70 38.60	134 25.77	61		ARM	- Target depth = 50m	
				BO	1808	70 38.78	134 26.47	61	50		- Hit bottom on deployment	
				EN	1823	70 39.32	134 29.00	61				
				UP	1826	70 39.35	134 29.15	60				
5	ICE-01	ROS	24	BE	0032	70 50.05	133 12.17	65		JE	Samples 17-26	
				BO	0036	70 50.07	133 12.20		60+6			
				EN	0044	70 50.11	133 12.27					
5	ICE01	MPS	25	BE	0053	70 50.14	133 12.37	66		ARM		
				BO	0055	70 50.16	133 12.39	66	55			
				EN	0056	70 50.16	133 12.44	66				
5	ICE01	BON	26	BE	0110	70 50.13	133 12.41	66		ARM		
				EN	0129	70 50.00	133 10.52	65				

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133C

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5	ICE-01	ROS	27	BE	1314	70 50.04	133 12.63	66		JE	CTD only		
				BO	1319	70 50.06	133 12.76		60 ¹⁵				
				EN	1321	70 50.06	133 12.79						
5	ICE01	BOX	28	BE	1332	70 50.08	133 13.09	65		ARM			
				BO	1333	70 50.08	133 13.11	65	65				
				EN	1334	70 50.08	133 13.14	66					
5	ICE01	BOX	29	BE	1342	70 50.09	133 13.37	66		ARM	Not enough mud.		
				BO	1342	70 50.09	133 13.39	66	66				
				EN	1343	70 50.09	133 13.41	66					
5	ICE01	BOX	30	BE	1345	70 50.09	133 13.48	66	66	ARM	Not enough mud		
				BO	1346	70 50.09	133 13.49	66	66				
				EN	1347	70 50.09	133 13.52	66					
5	ICE01	BOX	31	BE	1349	70 50.09	133 13.58	66		ARM	Good!		
				BO	1350	70 50.09	133 13.60	66	66				
				EN	1351	70 50.09	133 13.63	65					
5	ICE01	BBT	32	BE	1359	70 50.05	133 13.68	65		KW			
				BO	1405	70 50.03	133 13.07	65					
				EN	1418	70 50.02	133 11.81	66					
					1418	70 50.02	133 11.81						

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5	ICE01	BON	33	BE	1422	70 50.00	133 11.41	66	55	ARM	2x tow-yo's	
				EN	1432	70 49.98	133 10.32	67				
5	ICE01	WZA	34	BE	1449	70 49.90	133 08.00	65		ARM	Mud-bomb	
				BO	1452	70 49.91	133 08.69	65			Discarded	
				EN	1508	70 50.00	133 11.17	66	66			
5	ICE01	WZA	35	BE	1549	70 50.26	133 14.93	66		ARM	Replacement tow for WZA	
				BO	1552	70 50.21	133 14.30	66	66		Lots of starfish!	
				EN	1611	70 50.09	133 11.37	66				
5	DAL-01	ROS	36	BE	2233	70 32.23	130 50.09	24			Samples 27- pressu	
				BO	2237	70 32.23	130 50.16		21 ⁺		long wait at 5m on upcast - conversa	
				EN	2244	70 32.26	130 50.30					
5	DAL-01	BON	37	BE	2250	70 32.29	130 50.25	25		ARM		
				EN	2308	70 32.73	130 51.45	25	19			
5	DAL-01	BOX	38	BE	2339	70 32.34	130 50.64	25			Mud-bomb	
				BO	2339	70 32.34	130 50.65	25	25	ARM		
				EN	2340	70 32.34	130 50.66	25				
5	DAL-01	BOX	39	BE	2348	70 32.38	130 50.84	25				
				BO	2348	70 32.38	130 50.84	26	26	ARM		
				EN	2349	70 32.39	130 50.85	25				

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5	DAL-01	BBT	40	BE	00:01	70 32.44	130 49.48	25		KW		
				BO	00:06	70 32.34	130 49.95	25		KW		
				EN	00:16	70 32.52	130 50.50	24		KW		
6	DAL-01	WZA	41	BE	00:34	70 31.83	130 51.77	24				
				BO	00:42	70 31.93	130 51.34	25	25	ARM	lots of cumaceans!	
				EN	01:02	70 32.53	130 48.82	25				
6	DAL-01b	ROS	42	BE	1320	71 00.81	131 04.38	56		JE	Samples 33-41	
				BO	1324	71 00.79	131 04.44	r	51+5			
				EN	1331	71 00.76	131 04.52					
6	DAL-01B	MPS	43	BE	1338	71 00.71	131 04.57	56	46	ARM		
				EN	1343	71 00.67	131 04.60	56				
6	DAL-01B	BON	44	BE	1356	71 00.71	131 04.44	56	45	ARM		
				EN	1414	71 01.30	131 03.69	56				
6	DAL-01B	BOX	45	BE	1426	71 00.69	131 04.65	56		ARM		
				BO	1426	71 00.69	131 04.66	56	56			
				EN	1427	71 00.68	131 04.67	56				
6	DAL-01B	BOX	46	BE	1434	71 00.61	131 04.78	56			Stuck hard in bottom	
				BO	1434	71 00.61	131 04.79	56	56	ARM		
				EN	1436	71 00.60	131 04.80	56				

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6	DAL-01B	BBT	47	BE	1449	71	00.04	131	06.26	55		KW		
				BO	1455	71	00.16	131	05.86	55				
				EN	1505	71	00.39	131	05.15	55				
6	DAL-01B	WZA	48	BE	1526	71	00.80	131	04:58	58				
				BO	1528	71	00.63	131	04:90	56	58	ARM		
				EN	1548	70	59.85	131	06.99	56		JE		
6	TUCK-01	ROS	49	BE	1655	70	58.41	130	49.86	47		JE	CTD only, for Tucker Trawl	
				BO	1659	70	58.38	130	49.90		42 ⁺			
				EN	1700	70	58.38	130	49.93					
6	TUCK-01	TKR	50	BE	1817	70	58.	130	48.	46			Missed it. Approximated to	
				BO	18:22	70	58.16	130	48.04	46	35+	ARM	- Middle net hung up on net	
				EN	1848	70	58.20	130	52.42	47			- Surface net didn't c	
6	TUCK-01	TKR	51	BE	2005	70	58.11	130	49:54	47			- Deployment to replace T	
				BO	2009	70	58.03	130	50.16	47	35+		- Nets did not trigger	
				EN	2035	70	58.11	130	54.20	49			- Did not go deep enough	
6	ICE-03	ROS	52	BE	2235	70	59.28	130	12.80	43		JE	samples 42-49	
				BO	2239	70	59.27	130	12.79		38 ⁺			
				EN	2245	70	59.27	130	12.73					

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6	ICE03	MPS	53	BE	22:55	70 59.25	130 12.57	44	30	ARM				
				EN	22:59	70 59.25	130 12.51							
6	ICE03	BON	54	BE	23:10	70 59.25	130 12.17	43	30	ARM				
				EN	23:24	70 59.23	130 10.64	42						
6	ICE03	*VHN	55	BE	23:32	70 59.21	130 10.35	44	30	ARM				
				EN	23:35	70 59.20	130 10.27	43						
6	ICE03	BOX	56	BE	23:51	70 59.28	130 12.92							
				BO	23:51	70 59.26	130 12.93	43	43	ARM	Vertical haul using 0.5m catch copepods for respiration from top log			
				EN	23:52	70 59.26	130 12.92	43						
6	ICE03	BOX	57	BE	23:58	70 59.23	130 12.91	43						
				BO	23:59	70 59.22	130 12.92	43	43	ARM				
				EN	23:59	70 59.22	130 12.93	43						
7	ICE03	BBT	58	BE	00:12	70 59.18	130 11.52	43		KW				
				BO	00:17	70 59.19	130 12.10	43						
				EN	00:17	70 59.19	130 13.13	43						
7	ICE03	W2A	59	BE	00:45	70 59.19	130 15.04	43						
				BO	00:48	70 59.17	130 14.31	43	43	ARM				
				EN	01:08	70 58.98	130 11.46	43						

Event Type:
BBT = Benthic Beam Trawl
BOT = Bottle cast, no CTD
CTD = CTD without B
BON = Bongo (note Hor/Obl/Ver)
Time Code:
BE = Beam Trawl
BO = Bottle
EN = End of Trawl

Event Type:

BOT = Bottle cast, no CTD
 CTD = CTD without Rosette
 ROS = Rosette plus CTD
 W2A = Western Trawl

BBT = Benthic Beam Trawl
 BON = Bongo (note Hor/Obl/Ver)
 MPS = Multi-net
 MWT = Midwater trawl
 BOX = Box Core

Time Code:

BE = Beginning Time
 BO = Arrive on Bottom Time
 UP = Start up Time
 EN = End Time

Notes:

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

* VHN = Vertical haul net

DAILY SCIENCE LOG

Page

Month		August		Year		2018		Ship		FROST1		Cruise ID		2018	
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials	Comments				
08	WIS-012	ROS	60	BE	1856	70 10.32	124 50.13	48		JE	Samples 49-56				
				BO	1901	70 10.30	124 50.21		42 ¹⁵						
				EN	1906	70 10.27	124 50.28								
08	WIS-02	MPS	61	BE	1913	70 10.22	124 50.37	47	35	ARM					
				EN	1917	70 10.19	124 50.42	47							
08	WIS-02	VHN	62	BE	1925	70 10.36	124 50.14	47		ARM	No copepods, dumped				
				EN	1928	70 10.29	124 50.18	47							
08	WIS-02	BOX	63	BE	1934	70 10.29	124 50.26	47							
				BO	1934	70 10.28	124 50.26	47	47	ARM					
				EN	1935	70 10.28	124 50.27	47							
08	WIS-02	BOX	64	BE	1941	70 10.26	124 50.38	47							
				BO	1942	70 10.25	124 50.38	47	47	ARM					
				EN	1943	70 10.25	124 50.39	47							
08	WIS-01	ROS	65	BE	2218	70 06.11	124 03.69	59		JE	long wait at start for ice to clear				
				BO	2222	70 06.06	124 03.78		53 ¹⁵		drifting shallower				
				EN	2228	70 06.01	124 03.99								
08	WIS-01	MPS	66	BE	2234	70 05.96	125 04.26	50	40	ARM					
				EN	2238	70 05.93	125 04.46	51							

Event Type:

- BOT = Bottle cast, no CTD
- CTD = CTD without Rosette
- ROS = Rosette plus CTD
- W2A = Western Trawl

BBT = Benthic Beam Trawl

BON = Bongo (note Hor/Obl/Ver)

MPS = Multi-net

MWT = Midwater trawl

BOX = Box Core

Time Code:

- BE = Beginning Time
- BO = Arrive on Bottom Tim
- UP = Start up Time
- EN = End Time

Notes:

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

Month				Year				Ship				Cruise ID
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials	Comments	
8	WIS-01	BON	67	BE	2250	70 05.94	125 04.82	54	45	ARM		
				EN	2308	70 06.16	125 03.22	57				
8	WIS-01	BOX	68	BE	2319	70 06.15	125 03.58	58				
				BO	2320	70 06.15	125 03.61	58	58	ARM	Full of water.	
				EN	2321	70 06.14	125 03.65	59				
8	WIS-01	BOX	69	BE	2323	70 06.13	125 03.75	59				
				BO	2323	70 06.12	125 03.78	59	59	ARM		
				EN	2324	70 06.12	125 03.81	59				
8	WIS-01	BOX	70	BE	2330	70 06.07	125 04.13	56				
				BO	2331	70 06.07	125 04.17	56	56	ARM		
				EN	2332	70 06.06	125 04.23	56	4			
8	WIS-01	BBT	71	BE	2341	70 05.97	125 05.54	42	42	KW		
				BO	2349	70 06.02	125 04.79	56				
				EN	2359	70 06.08	125 03.83	57				
9	WIS-01	WZA	72	BE	00:19	70 05.94	125 05.05			ARM	Hauled back after	
				BO	00:23	70 06.09	125 04.17	58				
				EN	00:30	70 06.11	125 03.29					
19	WIS-01	WZA	73	BE	01:12	70 06.30	125 00.01	54		KW	Hauled back after 7mins, mul	
				BO	01:14	70 06.26	125 01.41	54			Hauled back after 14mins	

Event Type:

BOT = Bottle cast, no CTD
 CTD = CTD without Rosette
 ROS = Rosette plus CTD
 WZA = Western Trawl

BBT = Benthic Beam Trawl

BON = Bongo (note Hor/Obl/Ver)
 MPS = Multi-net
 MWT = Midwater trawl
 BOX = Box Core

Time Code:

BE = Beginning Time
 BO = Arrive on Bottom Tim
 UP = Start up Time
 EN = End Time

Notes:

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

DAILY SCIENCE LOG

Page

Month				Year				Ship			Cruise ID
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials	Comments
9	WIS-01	WIS-01 W2A	73	EN	01:28	70 06.11	125 03.53	59		KW	samples 66-74
9	FKN-06	ROS	74	BE	1322	70 00.08	125 24.24	51		JE	
				BO	1326	70 00.07	125 24.30		46 ⁺⁵		
				EN	1333	70 00.04	125 24.37				
9	FKN-06	MPS	75	BE	1341	70 00.01	125 24.44	51		ARM	
				EN	1345	69 59.99	125 24.48	51			
9	FKN-06	BON	76	BE	1355	69 59.86	125 24.52	49		ARM	
				EN	1421	70 00.50	125 22.85	53			
9	FKN-06	BOX	77	BE	1440	70 00.02	125 24.52	52			
				BO	1441	70 00.01	125 24.53	52		ARM	
				EN	1442	70 00.00	125 24.54	52			
9	FKN-06	BOX	78	BE	1448	69 59.95	125 24.59	51			
				BO	1449	69 59.94	125 24.60	51		ARM	
				EN	1449	69 59.94	125 24.61	51			
9	FKN-06	BBT	79	BE	1502	70 00.70	125 22.84	57		KW	
				BO	1509	70 00.48	125 23.66	52			
				EN	1519	70 00.24	125 24.02	50			
9	FKN-06	W2A	80	BE	1537	69 59.76	125 25.14	51		KW	

Event Type:

BOT = Bottle cast, no CTD
 CTD = CTD without Rosette
 ROS = Rosette plus CTD
 W2A = Western Trawl

BBT = Benthic Beam Trawl
 BON = Bongo (note Hor/Obl/Ver)
 MPS = Multi-net
 MWT = Midwater trawl
 BOX = Box Core

Time Code:

BE = Beginning Time
 BO = Arrive on Bottom Time
 UP = Start up Time
 EN = End Time

Notes:

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

DAILY SCIENCE LOG

Page

Month				Year				Ship			Cruise ID
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials	Comments
9	FRK-06	W2A	80	BO	1539	69 59.88	125 25.04	51			
				EN	1559	70 00.62	125 22.74	55			
9	FRK-06	ROS	81	BE	1845	70 05.14	125 25.52	83		JE	Samples 75-85
				BO	1850	70 05.13	125 25.58		79 ⁺⁵		1st try, drifting shallow, restart after
				EN	1900	70 05.07	125 25.45				
9	FRK-06	MPS	82	BE	1906	70 05.03	125 25.33	78	67	ARM	67-50, 50-25, 25-10, 10
				EN	1913	70 04.99	125 23.00	76			
9	FRK-06	BON	83	BE	1926	70 04.93	125 24.31	54	60	ARM	
				EN	1943	70 04.84	125 25.92	88			
9	FRK-06	BOX	84	BE	1955	70 05.10	125 24.82	74			
				BO	1955	70 05.10	125 24.81	73	73	ARM	
				EN	1957	70 05.09	125 24.80	73			
9	FRK-06	BOX	85	BE	2003	70 05.06	125 24.73	72			
				BO	2004	70 05.05	125 24.71	71	73	ARM	
				EN	2005	70 05.05	125 24.70	71			
9	FRK-06	BBT	86	BE	2016	70 04.82	125 24.95	74			
				BO	2024	70 04.55	125 25.39	81	81	ARM	
				EN	2034	70 04.62	125 25.79	80			

Event Type:

BOT = Bottle cast, no CTD
 CTD = CTD without Rosette
 ROS = Rosette plus CTD
 W2A = Western Trawl

BBT = Benthic Beam Trawl

BON = Bongo (note Hor/Obl/Ver)

MPS = Multi-net

MWT = Midwater trawl

BOX = Box Core

Time Code:

BE = Beginning Time

BO = Arrive on Bottom Tim

UP = Start up Time

EN = End Time

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

Notes:

DAILY SCIENCE LOG

Page

Month				Year				Ship				Cruise ID
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials	Comments	
9	FRK-06	W2A	87	BE	2056	70 03.98	125 26.41	80				
				BO	2059	70 04.20	125 25.98	77	83	ARM	Towing amongst ice	
				EN	2119	70 05.09	125 25.26	77				
10	DUS-01	ROS	88	BE	1818	69 37.89	120 44.99	50		JE	PAR sensors on wheelhouse cl	
				BO	1822	69 37.83	120 44.88		47 ⁺⁵		ETO4 before cast cast 8	
				EN	1824	69 37.82	120 44.83				ChlMax @	
10	DUS-02	ROS	89	BE	1902	69 38.20	120 42.93	102			Samples 86-97	
				BO	1908	69 38.18	120 42.82		98 ⁺⁴			
				EN	1917	69 38.06	120 42.73					
10	DUS-02	MPS	90	BE	1929	69 38.20	120 42.98	102		ARM		
				BO	1932	69 38.16	120 42.98	101	90			
				EN	1936	69 38.11	120 42.97	99				
10	DUS-02	VHN	91	BE	1947	69 37.97	120 42.93	92		ARM		
				BO	1950	69 37.93	120 42.89	90	80			
				EN	1954	69 37.88	120 42.83	89				
10	DUS-02	BON	92	BE	1958	69 37.88	120 42.53	94		ARM		
				EN	2021	69 38.56	120 43.35	96				

Event Type:

BOT = Bottle cast, no CTD
 CTD = CTD without Rosette
 ROS = Rosette plus CTD
 W2A = Western Trawl

BBT = Benthic Beam Trawl

BON = Bongo (note Hor/Obl/Ver)
 MPS = Multi-net
 MWT = Midwater trawl
 BOX = Box Core

Time Code:

BE = Beginning Time
 BO = Arrive on Bottom Tim
 UP = Start up Time
 EN = End Time

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

Notes:

DAILY SCIENCE LOG

Month				Year				Ship				Cruise ID
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials	Comments	
10	DUS 02	BOX	93	BE	2032	69 38.30	120 43.28	99				
				BO	2033	69 38.29	120 43.28	98	98	ARW		
				EN	2034	69 38.28	120 43.27	97				
10	DUS 02	BOX	94	BE	2041	69 38.18	120 43.13	97				
				BO	2042	69 38.17	120 43.11	98	98			
				EN	2043	69 38.16	120 43.08	98				
10	DUS 02	BBT	95	BE	20:54	69 37.828	120 41.93	100	102	AE	Ashley's first log	
				BO	21:02	69 38.01	120 42.49	102				
				EN	21:12	69 38.22	120 43.10	100				
10	DUS-02	W2A	96	BE	21:33	69 37.71	120 41.97	105.				
				BO	21:38	69 37.99	120 42.48	101	103	AE/ARM		
				EN	21:58	69 38.83	120 43.69	100				
10	DUS-03	ROS	97	BE	2304	69 39.28	120 34.36	217		JE	Cast 1 Samples 98-102	
				BO	2312	69 39.17	120 34.24		205 ⁺⁴			
				EN	2320	69 39.07	120 34.07					
10	DUS-03	ROS	98	BE	2344	69 39.08	120 33.90	218		JE	Cast 2 Samples 103-113	
				BO	2349	69 39.04	120 33.79		80			
				EN	2359	69 38.93	120 33.56					

Event Type:

BOT = Bottle cast, no CTD

CTD = CTD without Rosette

ROS = Rosette plus CTD

W2A = Western Trawl

BBT = Benthic Beam Trawl

BON = Bongo (note Hor/Obl/Ver)

MPS = Multi-net

MWT = Midwater trawl

BOX = Box Core

Time Code:

BE = Beginning Time

BO = Arrive on Bottom Tim

UP = Start up Time

EN = End Time

Notes:

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

DAILY SCIENCE LOG

Month				Year				Ship				Cruise ID
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials	Comments	
11	DUS-03	MPS	99	BE	00:50	69 39.18	120 34.16	220				
				BO	00:17	69 39.17	120 34.09	219	210	ARM		
				EN	00:24	69 39.12	120 33.98	218				
11	DUS-03	BON	100	BE	00:40	69 39.17	120 33.90			ARM		
				EN	01:01	69 39.72	120 34.57	227				
11	DUS-03	BOX	101	BE	01:12	69 39.29	120 34.78	221				
				BO	01:14	69 39.27	120 34.27	221	221	ARM		
				EN	01:17	69 39.25	120 34.18	222				
11	DUS-03	BOX	102	BE	01:22	69 39.19	120 33.96	221				
				BO	01:25	69 39.17	120 33.85	221	221	ARM		
				EN	01:27	69 39.14	120 33.75	220				
11	DUS-03	BBT	103	BE	01:39	69 38.33	120 32.41	215				
				BO	01:50	69 38.50	120 33.15	216	218	VC		
				EN	02:00	69 39.06	120 33.50	218				
11	DUS-03	W2A	104	BE	02:22	69 39.61	120 35.30	216		ARM		
				BO	02:30	69 39.10	120 33.98	216	216			
				EN	02:50	69 38.38	120 31.91	206				

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

Event Type:
 BOT = Bottle cast, no CTD
 CTD = CTD without Rosette
 ROS = Rosette plus CTD
 W2A = Western Trawl
 BBT = Benthic Beam Trawl
 BON = Bongo (note Hor/Obl/Ver)
 MPS = Multi-net
 MWT = Midwater trawl
 BOX = Box Core

Time Code:
 BE = Beginning Time
 BO = Arrive on Bottom Time
 UP = Start up Time
 EN = End Time

Notes:

124 +
11
238

- 11 Aug 2018 :
- Wind WNW 20kt + , cloudy, rainy
 - Cancelled 2nd ROS deployment due to wind/waves
 - Cancelled box core due to wind/waves
 - 4-5' waves

DAILY SCIENCE LOG

Month				Year				Ship				Cruise ID
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials	Comments	
11	DUS-04	ROS	105	BE	1416	69 43.63	119 57.26	352		JE	samples 114-118	
				BO	1426	69 43.49	119 56.79		342 ⁺¹⁰			
				EN	1438	69 43.35	119 56.24					
11	DUS-04	BAPS	106	BE	1453	69 43.55	119 57.56	351				
				BO	1503	69 43.43	119 57.09	351	339	ARM		
				EN	1513	69 43.29	119 56.23	351				
11	DUS-04	BON	107	BE	1536	69 43.29	119 56.41			VC/ARM	samples 119-132 ^{ROS} cancelled	
				EN	1610	69 42.45	119 57.66	344	200			
11	DUS-04	BBT	108	BE	1625	69 42.41	119 55.53	352			Coord from top log.	
				BO	1643	69 43.43	119 56.62	352	353	ARM		
				EN	1653	69 43.67	119 57.35	354	354			
11	DUS-04	WTA	109	BE	1727	69 44.27	119 59.52	352		ARM		
				BO	1739	69 43.78	119 58.02	347				
				EN	1759	69 43.17	119 55.85	348				
11	DUS-05	MPS	110	BE	1957	69 47.26	119 24.34	309				
				BO	2005	69 47.19	119 24.03	410	401	ARM		
				EN	2017	69 47.06	119 23.51	409				
11	DUS-05	CTD	111	BE	2029	69 47.09	119 24.63	416		JE	RBR, soak at 20 m for 3	
				BO	2047	69 46.88	119 23.87		430 wine at			

Event Type:

BOT = Bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD
WTA = Western Trawl

BBT = Benthic Beam Trawl

BON = Bongo (note Hor/Obl/Ver)

MPS = Multi-net

MWT = Midwater trawl

BOX = Box Core

Time Code:

BE = Beginning Time

BO = Arrive on Bottom Time

UP = Start up Time

EN = End Time

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

Notes:

12 Aug 2018 :- Wind WNW 15 knots, built to 20-25 knots by mid-morning

- Cancelled box-core at DUS-07

- Cloudy, rainy

- Cancelled ROS, BOX, and BBT at DUS-08

- placed RBR on MPS

DAILY SCIENCE LOG

Month				Year				Ship				Cruise ID
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials	Comments	
11	DUS-05	CTD	111	EN	20 57	69 46.75	119 23.40					
11	DUS-05	BON	112	BE	21:03	69 46.78	119 23.31	415	200	AdA.		
				EN	21:30	69 47.18	119 25.40	424				
11	DUS-05	BBT	113	BE	21:42	69 46.51	119 23.03	417		KW		
				BO	22:11	69 47.45	119 25.47	414				
				EN	22:21	69 47.69	119 26.15	419				
11	DUS-05	WZA	114	BE	2252	69 48.04	119 28.00	432				
				BO	2300	69 47.45	119 25.48	415		ARM		
				EN	2326	69 46.78	119 23.47	416				
12	DUS-07	ROS	115	BE	1313	69 54.37	118 19.77	501		JE	Samples 119-123	
				BO	1327	69 54.22	118 19.14		491+10			
				EN	1339	69 54.12	118 18.64					
12	DUS-07	MPS	116	BE	1353	69 54.20	118 20.07					
				BO	1403	69 54.09	118 19.68	490		ARM		
				EN	1419	69 53.96	118 19.03					
12	DUS-07	ROS	117	BE	1432	69 54.27	118 20.27	499		JE	samples 124-135	
				BO	1438	69 54.20	118 20.08		100			
				EN	1449	69 54.10	118 19.65					

Event Type:

BOT = Bottle cast, no CTD

CTD = CTD without Rosette

ROS = Rosette plus CTD

WZA = Western Trawl

BBT = Benthic Beam Trawl

BON = Bongo (note Hor/Obl/Ver)

MPS = Multi-net

MWT = Midwater trawl

BOX = Box Core

Time Code:

BE = Beginning Time

BO = Arrive on Bottom Tim

UP = Start up Time

EN = End Time

Notes:

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

13 Aug: - SSE 5-10 Knots
- Sunny
- Swells ~ 0.5m

This page is for any

DAILY SCIENCE LOG

Page

Month				Year				Ship				Cruise ID
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials	Comments	
12	DUS-07	BON	118	BE	1504	69 54.16	118 20.80	520	200	ARM		
		EN		EN	1521	69 53.76	118 20.19	508				
12	DUS-07	BBT	119	BE	1534	69 53.18	118 19.11	505		A.S.		
				BO	1601	69 54.38	118 20.25	498				
				EN	1611	69 54.64	118 20.54	497				
12	DUS-07	W2A	120	BE	1647	69 55.65	118 22.05	498			D20180812-T172419-1r	
				BO	1703	69 54.62	118 20.40	498				
				EN	1723	69 53.73	118 19.43	500.5				
12	DUS-08	MPS CTD	121	BE	1918	69 56.36	118 00.92	349			RBR ctd attached to M	
				BO	1933	69 56.38	118 00.07	349	333	ARM		
				EN	1943	69 56.34	117 59.53	349				
12	DUS-08	BON	122	BE	1959	69 56.52	117 59.86	348	337	ARM		
				EN	2020	69 56.28	118 01.43	337				
12	DUS-08	W2A	123	BE	20:47	69 57.74	118 02.25	340				
				BO	20:57	69 57.02	118 01.41	346	349	KL		
				EN	21:17	69 56.08	118 00.38	348				
13	DUS-09	ROS	124	BE	1313	69 58.33	117 43.95	202		JE	samples 136-139	
				BO	1322	69 58.50	117 43.86		192 ⁺⁶			
				EN	1328	69 58.62	117 43.80					

Event Type:

BOT = Bottle cast, no CTD
 CTD = CTD without Rosette
 ROS = Rosette plus CTD
 W2A = Western Trawl

BBT = Benthic Beam Trawl

BON = Bongo (note Hor/Obl/Ver)

MPS = Multi-net

MWT = Midwater trawl

BOX = Box Core

Time Code:

BE = Beginning Time

BO = Arrive on Bottom Tim

UP = Start up Time

EN = End Time

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

Notes:

14 Aug 2018: Wind NW 15 knots
1 m swells

DAILY SCIENCE LOG

Month				Year				Ship				Cruise ID
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials	Comments	
13	DUS-09	MPS	125	BE	1344	69 58.17	117 44.05	209				
				BO	1346	69 58.28	117 44.02	209	196	ARM		
				EN	1351	69 58.35	117 44.06	208				
13	DUS-09	ROS	126	BE	1402	69 58.18	117 43.96	206		SE	Samples 140-151	
				BO	1407	69 58.29	117 43.94		80			
				EN	1417	69 58.48	117 43.96					
13	DUS-09	BON	127	BE	1424	69 58.58	117 44.09	201		ARM		
				EN	1448	69 57.80	117 43.87	203				
13	DUS-09	BOX	128	BE	1459	69 57.89	117 43.85	203		ARM		
				BO	1501	69 57.93	117 43.88	203				
				EN	1503	69 57.97	117 43.90	203				
13	DUS-09	BOX	129	BE	1510	69 58.11	117 43.90	205		ARM		
				BO	1512	69 58.14	117 43.89	206				
				EN	1515	69 58.19	117 43.90	206				
13	DUS-09	BBT	130	BE	1528	69 59.20	117 44.68	205		KW		
				BO	1541	69 58.75	117 44.31	203				
				EN	1551	69 58.44	117 44.09	204				
13	DUS-09	W2A	131	BE	1617	69 57.41	117 43.36	201		ARM		
				BO	1623	69 57.96	117 43.79	200	200			

Event Type:

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ROS = Rosette plus CTD

W2A = Western Trawl

BBT = Benthic Beam Trawl

BON = Bongo (note Hor/Obl/Ver)

MPS = Multi-net

MWT = Midwater trawl

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Notes: _____

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

DAILY SCIENCE LOG

Page

Month				Year				Ship				Cruise ID
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials	Comments	
13	DUS-09	W2A	131	EN	1643	69 59.02	117 44.28	201				
13	DUS-09B	ROS	132	BE	1804	69 59.64	117 39.38	158			samples 152-	
		W2A		BO	1809	69 59.59	117 41.34	175				
				EN	1822	69 59.57	117 43.17	180				
13	DUS-10	ROS	133	BE	1919	69 59.70	117 30.97	95		JE	Samples 152- 163	
				BO	1925	69 59.80	117 30.91	90+5	90+5			
				EN	1935	69 59.94	117 30.81					
13	DUS-10	MPS	134	BE	1944	69 59.66	117 31.18	111	100			
				BO	1947	69 59.70	117 31.22	110				
				EN	1950	69 59.74	117 31.22					
13	DUS-10	BON	135	BE	1959	69 59.84	117 31.42		100			
				EN	2013	69 59.45	117 30.92					
13	DUS-10	VAN	136	BE								
				BO								
				EN								
13	DUS-10	VAN	136	BE	2021	69 59.60	117 30.89	98				
				BO	2025	69 59.64	117 30.84	98	85			
				EN	2027	69 59.68	117 30.80					

Event Type:

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

Notes:

DAILY SCIENCE LOG

Month				Year			Ship				Cruise ID	
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N)	Longitude (W)	Bottom Depth	Max Depth	Logger's initials	Comments	
						DD MM.MM...	DDD MM.MM...					
13	DUS-10	BOX	137	BE	2035	69 59.79	117 30.68	90				
				BO	2036	69 59.81	117 30.67	91	91	ARM		
				EN	2037	69 59.82	117 30.65	91				
13	DUS-10	BOX	138	BE	2043	69 59.91	117 30.54	89				
				BO	2045	69 59.92	117 30.52	90	90	ARM		
				EN	2046	69 59.94	117 30.51	89				
13	DUS-10	BBT	139	BE	2056	70 00.41	117 31.31	86		KDW		
				BO	2112	69 59.64	117 30.99	104				
				EN	2122	69 59.7	117 30.80	103				
13	DUS-10	W2A	140	BE	2147	70 00.24	117 31.48	100				
				BO	2150	69 59.98	117 31.25	102		ARM		
				EN	2210	69 59.06	117 30.57	106	106			
13	DUS-11	ROS	141	BE	2240	70 00.11	117 27.32	40		JE	Grs only.	
				BO	2243	70 00.10	117 27.32		36 ⁺⁵			
				EN	2244	70 00.10	117 27.29					
14	MTI-04	ROS	142	BE	1309	71 17.78	117 20.75	173		JE	Samples 164-167 12:30	
				BO	1316	71 17.69	117 20.70	173	168 ⁺⁵			
				EN	1323	71 17.61	117 20.59	179				

Event Type:

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Notes:

69

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

15 Aug 2018 - winds NW 15-20 knots in morning. 20-25 knots in after

DAILY SCIENCE LOG

Month				Year				Ship				Cruise ID
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials	Comments	
14	MTI-04	MPS	143	BE	1337	71 18.01	117 20.60	171				
				BO	1342	71 17.96	117 20.57	173		ARM		
				EN	1350	71 17.86	117 20.42	175				
14	MTI-04	ROS	144	BE	1400	71 17.72	117 20.28	179		JE	samples 168-178	
				BO	1406	71 17.66	117 20.24	181	80			
				EN	1416	71 17.54	117 20.14	191				
14	MTI-04	MPS	145	BE	1428	71 18.09	117 20.64	168			Flow metre not working	
				BO	1432	71 18.06	117 20.65	169	159	ARM	Short circuit. Top 2 nets	
				EN	1440	71 17.96	117 20.49	173				
14	MTI-04	BON	146	BE	1455	71 17.83	117 20.29	175	155	ARM		
				EN	1517	71 17.63	117 22.34	154				
14	MTI-04	BOX	147	BE	1535	71 17.95	117 20.47	174				
				BO	1537	71 17.93	117 20.47	174	174	ARM		
				EN	1539	71 17.92	117 20.46	174				
14	MTI-04	BOX	148	BE	1545	71 17.83	117 20.41					
				BO	1547	71 17.82	117 20.39	177	177	AE		
				EN	1549	71 17.79	117 20.36					
14	MTI-04	BBT	149	BE	1604	71 17.37	117 22.29	175				
				BO	1613	71 17.66	117 21.28	172	175	ARM		

Event Type:

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Notes:

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

DAILY SCIENCE LOG

Month				Year			Ship				Cruise ID	
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials	Comments	
14	MTI-04	BBT	149	EN	1624	71 17.88	117 20.41	172				
14	MTI-04	W2A	150	BE	1648	71 18.43	117 16.86	172		ARM		
		Bo		BO	1654	71 18.21	117 18.19	175	175			
		EN		EN	1714	71 17.78	117 21.07	172				
14	MTI-03	ROS	151	BE	1905	71 22.21	117 28.81	147		JE	Samples 179-181	
				BO	1912	71 22.16	117 28.78		141 ⁺⁵		SPAR factor changed from 10	
				EN	1916	71 22.14	117 28.74	147				
14	MTI-03	MPS	152	BE	1923	71 22.09	117 28.71	150		ARM	Flow meter cutting out	
				BO	1927	71 22.08	117 28.69	157	137		on ascent.	
				EN	1932	71 22.06	117 28.62	153				
14	MTI-03	ROS	153	BE	1941	71 22.03	117 28.54	153		JE	samples 182-192	
				BO	1946	71 22.01	117 28.51	152	80			
				EN	1955	71 21.97	117 28.40	149				
14	MTI-03	BON	154	BE	2005	71 22.01	117 28.56	152		ARM		
				EN	2018	71 22.07	117 29.92	153				
				EN								
14	MTI-03	BOX	155	BE	2035	71 22.23	117 28.68	145				
				BO	2037	71 22.24	117 28.66	145	145	ARM		
				EN	2039	71 22.24	117 28.63	144				

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DAILY SCIENCE LOG

Month				Year				Ship				Cruise ID
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials	Comments	
14	MTI-03	Box	156	BE	2044	71 22.25	117 28.52	137				
				BO	2046	71 22.24	117 28.49	135	135	ARM		
				EN	2048	71 22.24	117 28.45	133				
14	MTI-03	Box	157	BE	2049	71 22.24	117 28.41	133				
				BO	2051	71 22.24	117 28.39	132	132	ARM		
				EN	2052	71 22.23	117 28.34	132				
14	MTI-03	BBT	158	BE	2103	71 22.11	117 27.46	141		KW		
				BO	2113	71 22.09	117 28.87	149				
				EN	2123	71 22.06	117 29.87	153				
14	MTI-03	W2A	159	BE	2146	71 22.11	117 28.46	148		KW		
				BO	2150	71 22.06	117 29.65	151				
				EN	2210	71 21.84	117 32.57	150				
15	MTI-07	ROS	160	BE	1309	71 24.62	116 08.32	145		JE	sample 193	
				BO	1316	71 24.66	116 08.11		136 ⁺⁶			
				EN	1320	71 24.68	116 08.00	142				
15	MTI-07	MPS	161	BE	1329	71 24.71	116 07.76	138				
				BO	1333	71 24.74	116 07.61	139	127		End of tow flow ~ 00	
				EN	1337	71 24.75	116 07.51	137				

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DAILY SCIENCE LOG

Month				Year		Ship					Cruise ID
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N)	Longitude (W)	Bottom Depth	Max Depth	Logger's initials	Comments
						DD MM.MM...	DDD MM.MM...				
15	MTI-07	ROS	162	BE	1353	71 24.53	116 08.27	136		JE	samples 194-205
				Bo	1358	71 24.54	116 08.11	136	100		
				EN	1409	71 24.58	116 07.75	135			
15	MTI-07	BON	163	BE	1417	71 24.60	116 07.77	136	130	ARM	
				EN	1430	71 24.37	116 09.00	119			
15	MTI-07	BOX	164	BE	1442	17 24.48	116 08.52	137			
				Bo	1443	17 24.48	116 08.48	137	137	ARM	
				EN	1445	17 24.48	116 08.41	136			
15	MTI-07	BOX	165	BE	1452	71 24.50	116 08.16	135			
				Bo	1454	71 24.51	116 08.11	134	134	ARM	
				EN	1455	71 24.51	116 08.05	134			
15	MTI-07	BBT	166	BE	1513	71 24.51	116 09.51	142		KWJ	
				Bo	1524	71 24.58	116 07.98	139			
				EN	1534	71 24.80	116 07.25	134			
15	MTI-07	W2A	167	BE	1551	71 24.95	116 06.96	131		KWJ	
				Bo	1557	71 24.60	116 07.67	135			
				EN	1647	71 24.50	116 10.56	139			

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

Notes: _____

DAILY SCIENCE LOG

Month <i>August</i>				Year				Ship				Cruise ID
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N)	Longitude (W)	Bottom Depth	Max Depth	Logger's initials	Comments	
						DD MM.MM...	DDD MM.MM...					
15	MTI-08	ROS	168	BE	1835	71 29.77	116 00.83	170		JE	Samples 206-208	
				BO	1843	71 29.79	116 00.37		157 ⁺		Went back down from 113→150m	
				EN	1850	71 29.83	115 59.90	172			to get missed Niskin	
15	MTI-08	ROS	169	BE	1913	71 29.69	116 01.21	165		JE	Samples 209 - 220	
				BO	1918	71 29.73	116 00.97	166	80			
				EN	1927	71 29.80	116 00.46	169				
15	MTI-08	BON	170	BE	1934	71 29.85	116 00.26	172	155	ARM		
				EN	1952	71 29.56	116 01.89	157				
15	MTI-08	BOX	171	BE	2007	71 29.61	116 01.49	162				
				BO	2009	71 29.63	116 01.40	163	163	ARM		
				EN	2013	71 29.66	116 01.22	164				
15	MTI-08	BOX	172	BE	2018	71 29.72	116 00.86	167				
				BO	2021	71 29.75	116 00.74	168	168	ARM		
				EN	2023	71 29.78	116 00.58	169				
15	MTI-08	BBT	173	BE	2045	71 29.43	116 04.18	165		KDW		
				BO	2107	71 29.61	116 00.50	160				
				EN	2117	71 29.76	115 59.37	154				
15	MTI-08	W2A	174	BE	2141	71 30.24	115 56.65	160		KDW		
				BO	2146	71 30.06	115 57.80	159				

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Notes:

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

16 Aug 2018: - Wind SSW 20 early in morning, quickly picking up to
 - Waves 1.5 - 2.0 m
 - Conducted ROS, MPS, BON, WLA at MTI-06
 - Conducted full station at MTI-05, albeit outside of the usual order

DAILY SCIENCE LOG

Month				Year				Ship			Cruise ID
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials	Comments
15	MTI-08	W2A	174	EN	2200	71 29.58	116 00.40	136		KDW	
15	MTI-08	MPS	175	BE							Deployed last to allow time broken flow-meter. - Did not deploy. Noted: samples 221-232 wind picking up during cast.
				BO						ARM	
				EN							
16	MTI-06	ROS	176	BE	1307	71 24.33	116 32.13	200		JE	
				BO	1315	71 24.48	116 31.69		187 ⁺¹⁶		
				EN	1328	71 24.69	116 31.12	188			
16	MTI-06	BON	177	BE	1356	71 23.91	116 32.65	208			
				EN	1416	71 24.26	116 30.71	206			
16	MTI-06	W2A	178	BE	1441	71 24.22	116 31.46	202		KDW	
				BO	1448	71 23.92	116 32.67	205			
				EN	1508	71 23.57	116 35.58	206			
16	MTI-06	MPS	179	BE	1537	71 23.94	116 32.07	209			
				BO	1542	71 23.97	116 31.80	207	197	ARM	
				EN	1548	71 23.99	116 31.53	209			
16	MTI-05	W2A	180	BE	2014	71 14.74	117 12.35	283			
				BO	2023	71 14.40	117 14.16	282	282	ARM	RBR in "birdcage" on ne
				EN	2043	71 14.02	117 16.61	283			

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Notes:

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

DAILY SCIENCE LOG

Month				Year				Ship			Cruise ID
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials	Comments
16	MTI-05	BON	181	BE	21:12	71 14.38	117 14.49	283		ARM	
				EN	21:35	71 14.10	117 16.76	283	200		
16	MTI-05	ROS	182	BE	21:45	71 14.14	117 16.82	282		JE	samples 233-236
				BO	21:55	71 14.20	117 16.04		268 ⁺¹⁰		RBRCTD on rosette frame
				EN	22:04	71 14.24	117 15.35	282		ARM	
16	MTI-05	MPS	183	BE	22:17	71 14.02	117 16.39	285			
				BO	22:23	71 14.06	117 15.93	285	273	ARM	
				EN	22:31	71 14.11	117 15.31	284			
16	MTI-05	ROS	184	BE	22:45	71 14.06	117 16.39	283		JE	samples 237-247
				BO	22:49	71 14.11	117 16.02	284	80		
				EN	22:58	71 14.14	117 15.36	283			
16	MTI-05	BOX	185	BE	23:15	71 13.99	117 16.65	284			
				BO	23:18	71 14.00	117 16.41	284	284		
				EN	23:21	71 14.01	117 16.19	285			
16	MTI-05	BOX	186	BE	23:28	71 14.03	117 15.57	285			
				BO	23:32	71 14.05	117 15.30	288	288		
				EN	23:35	71 14.05	117 15.07	286			
16	MTI-05	BBT	187	BE	23:49	71 14.82	117 12.17	280		KDW	
17				BO	00:03	71 14.48	117 13.72	281			

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 - W2A = Western Trawl
- BBT = Benthic Beam Trawl

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- Time Code:

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Notes: _____

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

17 Aug 2018 - Wind NW 30 Knots
- rain, sleet, snow, sun

18 Aug 2018 - Wind W 30-35 Knots
- snow and rain in the morning
- Attempted full station at BIN-01
- cancelled MPS, BON, BOX, BBT

DAILY SCIENCE LOG												Cruise ID
Month				Year				Ship				Comments
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials		
17	MTI-05	BBT	188	EN	0013	71 14.32	117 14.60	282		KDW		
17	BIN-HC-01	ROS	189	BE	1955	71 24.52	117 26.89	64		JE		CTD only
				BO	2000	71 24.50	117 26.61		63+6			
				EN	2001	71 24.50	117 26.55	74				
17	BIN-HC-01	TKR	190	BE	2036	71 23.04	117 27.14	92				- Net two closed accidentally
				BO	2040	71 23.25	117 26.87	87	70	ARM		triggering net 1 (brought shallow). Net 2 coded broke
				EN	2111	71 24.67	117 25.69	81				samples 248-2589
18	BIN-01	ROS	191	BE	1436	71 24.52	117 26.69	70		JE		
				BO	1440	71 24.45	117 26.53		66+5			
				EN	1450	71 24.33	117 26.02					
18	BIN-01	WZA	192	BE	1550	71 23.86	117 26.31	64				Grabbed bottom at 16:00,
				BO	1553	71 24.11	117 26.42	64	64	ARM		Big clay bomb - discards
				EN	16:00	71 24.43	117 26.51	75				
19	MTI-02	ROS	193	BE	1330	71 15.23	118 12.27	223		JE		samples 260-264
				BO	1337	71 15.22	118 12.09	221	211+10			
				EN	1346	71 15.22	118 11.85	223				
19	MTI-02	MPS	194	BE	1353	71 15.22	118 11.69	223				
				BO	1358	71 15.22	118 11.58	224	213	ARM		Flow meter still cutting
				EN	1402	71 15.23	118 11.48	223				intermittently.

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

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BON = Bongo (note Hor/Obl/Ver)
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Notes: _____

19 Aug 2018: - Wind NW 15 early in am, building to NW 20 by 9am.
- Dropped to 10-15 knots by 10am
- Adjusted order of operation at MTI-02 to wind conditions

DAILY SCIENCE LOG

Month				Year				Ship			Cruise ID
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials	Comments
19	MTI-02	ROS	195	BE	1413	71 15.29	118 11.21	223		JE	Samples 265 - 276
				BO	1418	71 15.29	118 11.10	222	80		
				EN	1429	71 15.32	118 10.86	222			
19	MTI-02	BON	196	BE	1438	71 15.36	118 10.51	221			
				EN	1459	71 14.99	118 12.38	223		ARM	
19	MTI-02	W2A	197	BE	1528	71 15.18	118 15.93	221		KDW	
				BO	1536	71 15.17	118 13.85	205			
				EN	1550	71 15.13	118 10.74	222			
19	MTI-02	BOX	198	BE	1626	71 15.19	118 11.97	223			
				BO	1628	71 15.19	118 11.91	223	223	ARM	
				EN	1631	71 15.19	118 11.94	223			
19	MTI-02	BOX	199	BE	1637	71 15.17	118 11.62	223			
				BO	1640	71 15.17	118 11.54	223	223	ARM	No mud. Redo.
				EN	1642	71 15.18	118 11.44	222			
19	MTI-02	BOX	200	BE	1645	71 15.18	118 11.37	223			
				BO	1647	71 15.17	118 11.32	223	223	ARM	
				EN	1649	71 15.17	118 11.24	222			
19	MTI-02	BOX	201	BE	1652	71 15.17	118 11.16	222			
				BO	1654	71 15.17	118 11.09	223	223	ARM	

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

Event Type:

BOT = Bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD
W2A = Western Trawl

BBT = Benthic Beam Trawl
BON = Bongo (note Hor/Obl/Ver)
MPS = Multi-net
MWT = Midwater trawl
BOX = Box Core

Time Code:

BE = Beginning Time
BO = Arrive on Bottom Time
UP = Start up Time
EN = End Time

Notes:

DAILY SCIENCE LOG

Month <u>AUGUST</u>				Year <u>2018</u>				Ship <u>FR05T1</u>			Cruise ID <u>2018</u>	
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials	Comments	
19	MTI-02	BOX	201	EN	1657	71 15.17	118 12.02	222				
19	MTI-02	BBT	202	BE	1710	71 15.07	118 08.81	221				
		Bo		Bo	1722	71 15.05	118 10.42	222	222	ARW		
		EN		EN	1732	71 15.09	118 11.34	222				
19	MTI-01	ROS	203	BE	2110	71 04.16	119 20.65	166		JE	Samples 277-279	
				Bo	2116	71 04.09	119 20.40	165	155 ¹¹⁰			
				EN	2122	71 04.05	119 20.25	168				
19	MTI-01	MPS	204	BE	2135	71 04.23	119 21.11	167				
				Bo	2140	71 04.16	119 20.92	167	155	ARM		
				EN	2144	71 04.13	119 20.78	167		-		
19	MTI-01	ROS	205	BE	2154	71 04.03	119 20.50	166		JE	Samples 280-290	
				Bo	2159	71 03.99	119 20.41	167	80			
				EN	2207	71 03.93	119 20.25	167				
19	MTI-01	BON	206	BE	2218	71 03.80	119 20.09	168		ARM		
				EN	22:35	71 04.05	119 21.27	160		VC		
19	MTI-01	W2A	207	BE	2259	71 03.78	119 20.65	162		KDW		
				Bo	2306	71 04.04	119 21.39	166				
				EN	2322	71 04.58	119 19.57	163				
20	MTI-01	W2A	208	BE	0005	71 04.86	119 18.96	164		KDW		

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

Event Type:

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BON = Bongo (note Hor/Obl/Ver)
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Time Code:

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Notes:

20 Aug 2018 - Wind: NW 15-20 knots
- snow and rain on and off

	Ice cover (1-10)	
KUG-01	0	
KUG-01B	0	
KUG-01C	1-3	Ice edge
ICE-01	1-3	Ice edge
DAL-01	0	
DAL-01B	1-3	Ice edge
TUCK-01	1-3	Ice edge
ICE-03	1-3	Ice edge
WIS-02	4	
WIS-01	1-3	
FRK-06	1-3	Ice edge
FRK-06	1-3	Ice edge
DUS-01	1-3	
DUS-02	1-3	

70° 36' 212

DAILY SCIENCE LOG

Page

Month <i>August</i>				Year <i>2018</i>		Ship <i>FIRST</i>				Cruise ID	
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials	Comments
20	MTI-01	W2A	208	BE	0010	71 04.08	119 19.91	164		LOW	
				EN	0030	71 03.8	119 22.16	164			
20	MTI-HC-01	ROS	209	BE	1555	71 22.04	117 28.50	152		JE	CTD only
				BO	1601	71 22.02	117 28 33.4		146 ⁺⁵		
				EN	1604	71 22 00	117 28.25	149			
20	MTI-HC-01	TKR	210	BE	1633	71 22.21	117 26.90	110	90		net 1) 30-50m 2) 50-75m
				EN	1712	71 21.77	117 33.18	136			
20	MTI-HC-02	ROS	211	BE	2057	71 19.29	116 44.32	313		JE	CTD only
				BO	2106	71 19.24	116 44.26		306 ⁺⁵		
				EN	2110	71 19.21	116 44.20	313			
20	MTI-HC-02	TKR	212	BE	2137	71 19.63	116 41.82	315	300	AE	net 1) target=300 300-250 2) target=300 250-5m
				EN	2300	71 17.70	116 53.93	304			
20	MTI-HC-02	MWT	213	BE	00:03	71 17.79	116 53.15	303			
				BO	00:17	71 18.26	116 50.62	312	295	ARM	Full depth profile from RB
				UP	00:27	71 18.46	116 49.27	312			
				EN	00:35	71 18.43	116 48.89	307			
22	ULU-08	BON	214	BE	14:00	70 36.07	117 50.37	214	190	AE	Hit bottom. Full of gravel. Gravel
				EN	14:21	70 36.51	117 52.13	226			
22	ULU-08	MPS	215	BE	15:05	70 36.11	117 51.43	207	180	AE	

Event Type:

BOT = Bottle cast, no CTD
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ROS = Rosette plus CTD
W2A = Western Trawl

Event Type:

BBT = Benthic Beam Trawl
BON = Bongo (note Hor/Obl/Ver)
MPS = Multi-net
MWT = Midwater trawl
BOX = Box Core

Time Code:

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Notes:

Transmissometer to be cleaned before each cast, do not use Am...

Aug 22, 2018 - first day of leg 2!

- wind SE 10-15 knots

- very rocky bottom

- CTD deck box malfunctioned at beginning of sampling ULU-08; no rosette.

DAILY SCIENCE LOG

Page

Month				Year				Ship				Cruise ID
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials	Comments	
22	ULU-08	MPS	215	BO	15:11	70 36.04	117 51.47	203	183	AE		
				EN	15:18	70 35.96	117 51.55	203				
22	ULU-08	BON	216	BE	15:46	70 36.23	117 51.64	207	175	AE	Good tow!	
				EN	16:00	70 36.69	117 52.27	221				
22	ULU-08	BOX	217	BE	16:15	70 36.23	117 51.20	205	205	AE		
				BO	16:17	70 36.23	117 51.19	205	205			
				EN	16:19	70 36.22	117 51.19	206				
22	ULU-08	BOX	218	BE	16:27	70 36.16	117 51.27	210		AE	Hit a rock. Didn't seal. Re-depl	
				BO	16:30	70 36.14	117 51.27	213	213			
				EN	16:32	70 36.13	117 51.27	215				
22	ULU-08	BOX	219	BE	16:43	70 36.03	117 51.32	201		AE	Water pouring out bottom. Re-	
				BO	16:45	70 36.02	117 51.31	201	201			
				EN	16:47	70 36.01	117 51.31	200				
22	ULU-08	BOX	220	BE	16:49	70 36.00	117 51.30	200		AE	" "	
				BO	16:51	70 35.99	117 51.30	200	200			
				EN	16:53	70 35.98	117 51.30	200				
22	ULU-08	BOX	221	BE	17:01	70 36.33	117 51.17	207		AE	No sample. Full of water agri	
				BO	17:03	70 36.34	117 51.16	207	207			
				EN	17:05	70 36.34	117 51.16	207				

Event Type:

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Time Code:

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Notes:

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

DAILY SCIENCE LOG

Page

Month August				Year 2018				Ship Frosti				Cruise ID	
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials	Comments		
22	ULU-08	BBT	222	BE	1721	70 35.73	117 51.34	199		KDW			
				BO	1731	70 36.22	117 51.54	206					
				EN	1741	70 36.55	117 51.53	213					
22	ULU-08	CTD	223	BE	1818	70 35.97	117 50.73	207					
				BO	1822	70 35.97	117 50.73		197	LC	RBR Conarto and cast = SBird		
				EN	1825	70 35.96	117 50.71				operable		
22	ULU-08	W2A	224	BE	1931	70 36.08	117 51.70	210		KDW	pulled early due to		
				BO	1940	70 36.69	117 51.46	211					
				EN	1956	70 37.54	117 51.31	292					
23	CPB-11	CTD	225	BE	1313	71° 14.78	123° 27.94	157			RBR Conarto cast down 5		
				BO	13:21	71° 14.86	123° 28.14		158.		then back to surface then		
				EN	1328	71° 14.78	123 28.23				Drifting		
23	CPB-11	BON	226	BE	13:31	71 15.19	123 29.38	188		AE	* Need to add to toplog.		
23	CPB-11	BON	226	EN	13:51	71 14.62	123 28.43	194					
23	CPB-11	BOX	227	BE	14:07	71 14.79	123 28.10	170		AE			
				BO	14:09	71 14.80	123 28.16	172	172.				
				EN	14:11	71 14.82	123 28.21	175.					
23	CPB-11	BOX	228	BE	14:17	71 14.87	123 28.37	183	183	AE			
				BO	14:19	71 14.89	123 28.42	184	184				

Event Type:

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MWT = Midwater trawl
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Transmissometer to be cleaned before each cast, do not use Ammonia

Notes:

23 Aug 2018

- calm water; overcast.
- wind E 5 knots @ CPB-11

DAILY SCIENCE LOG

Page

Month <i>AUGUST</i>				Year <i>2018</i>				Ship <i>FROSTI</i>			Cruise ID <i>CBS M1</i>	
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials	Comments	
23	CPB-11	BOX	228	EN	14:21	71 14.91	123 28.49	183			Big rock captured; bad surface	
23	CPB-11	Box	229	BE	14:32	71 14.74	123 28.07	162				
				BO	14:34	71 14.75	123 28.03	156.	156			
				EN	14:36	71 14.76	123 28.01	153				
23	CPB-11	BBT	230	BE	14:49	71 15.20	123 29 70	191		KDW		
				BO	14:58	71 15.59	123 30.24	196				
				EN	15:08	71 15 91	123 30 70	221				
23	CPB-11	W2A	231	BE	15:33	71 16.29	123 30.89	227		AE		
				BO	15:41	71 15.72	123 30.30	195				
				EN	16:03	71 14.80	123 29.04	198				
24	CPB-10	CTD	232	BE	13:47	71° 10.43	123° 53.12	221		GL	Using Tucker trawl CTD	
				BO	13:57	71° 10.46	123° 53.09		211		removed.	
				EN	14:02	71° 10.47	123° 53.08					
24	CPB-10	MPS	233	BE	14:37	71 16.53	123 53.06	242		AE	Accidentally entered as 232	
				BO	14:43	71 16.56	123 53.06	240	230		↳ change event # and	
				EN	14:50	71 10.59	123 53.08	240				
25	CPB-10	BOX	234	BE	15:52	71 10.63	123 53.18	238		AE	Missed bottom on toplog	
				BO	15:54	71 10.64	123 53.20	228	228		Box didn't seal. Redeploy	
				EN	15:57	71 10.66	123 53.23	224				

Event Type:

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MPS = Multi-net

MWT = Midwater trawl

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Time Code:

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UP = Start up Time

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

Notes:

24 Aug 2018

- wind E 20 kn. @ CPB-10 ; ~~20~~ 20-25 kn ESE @ AMG-03
- sunny.
- created new event type NSK = Niskin deployed without rosette.
 - ↳ took a surface sample using a Niskin attached to a pole → @ CPB-10
- Cut bongo short and only took one good box core to allow enough time to transfer to 26 nm south of Nelson Head (South Banks Island) to rendezvous with the Sir Wilfred Laurier to get new CTD deck unit.
- Only had time for WZA at AMG-03 → of interest relative to beluga diving observed near head.
 - ↳ sampled among ice. Had been ice-covered the day before.

DAILY SCIENCE LOG

Page

Month <i>AUGUST</i>				Year <i>2018</i>			Ship <i>FROST</i>			Cruise ID <i>CBS MB</i>	
Day (U)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials	Comments
24	CPB-10	BOX	235	BE	1559	71 10.69	123 53.25	223		AE	Box didn't seal. Redeploy
				BO	16 01	71 10.71	123 53.28	223	223		
				EN	16 03	71 10.73	123 53.31				
24	CPB-10	Box	236	BE	16 06	71 10.77	123 53.35	222		AE	Good core.
				BO	16 07	71 10.79	123 53.39	222	222		
				EN	16 10	71 10.81	123 53.43	221			
24	CPB-10	BON	237	BE	16 17	71 10.84	123 52.90	236	85	AE	Short bongo (~11 min).
				EN	16 28	71 10.77	123 51.78	259			
24	CPB-10	NSK	238	BE	15 52	71 10.63	123 53.18	238	Ø	AE	Did not log Niskin surface sample. location as Box-234. Sample
24	CPB-10	W2A	239	BE	15:44	71 11 00	123 51 56	285		KDW	
				BO	1557	71 10.64	123 53.85	221			
				EN	16 17	71 10.18	123 56.74	268			
24/25	AMG-038	W201	240	BE	00:34	70 34.38	122 54.52	643		KDW	
				BO	00:58	70 32.55	122 54.62	642			
				EN	01:18	70 31.92	122 55.43	581			
25	TEST	ROS	241	BE	20:23	70 07.10	123 19.75	246	10	AE	Test of rosette with new de
				EN	20:28	70 07.09	123 19.71	247			No samples kept. SYN

Event Type:

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MWT = Midwater trawl
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Time Code:

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EN = End Time

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

Notes:

NSK = Niskin

AUGUST 26, 2018

- Calm, overcast ; wind 5 kn ENE
- CPB-01, 20m - too shallow for BBT + WZA + MPS.
- CPB-02, 126m
 - ↳ deployed MPS + BON first while waiting for water filtrations to finish from CPB-01
 - ↳ wind ENE 5 kn.

DAILY SCIENCE LOG

Page

Month <i>AUGUST</i>				Year <i>2018</i>				Ship <i>FROSTI</i>			Cruise ID <i>CBS H</i>	
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials	Comments	
<i>26</i>	<i>CPB-01</i>	<i>ROS</i>	<i>242</i>	<i>BE</i>	<i>13:16</i>	<i>70.32.05</i>	<i>127 43.08</i>	<i>22</i>		<i>AE</i>	<i>Sample #: 292-296</i>	
				<i>BO</i>	<i>13:21</i>	<i>70.31.93</i>	<i>127 42.85</i>		<i>17</i>		<i>need to add coordinates</i>	
				<i>EN</i>	<i>13:24</i>	<i>70 31.89</i>	<i>127 42.77</i>				<i>on top log.</i>	
<i>26</i>	<i>CPB-01</i>	<i>BON</i>	<i>243</i>	<i>BE</i>	<i>13:36</i>	<i>70 31.77</i>	<i>127 42.49</i>	<i>22</i>	<i>4</i>	<i>AE</i>	<i>Difficult to get the Bongo</i>	
				<i>EN</i>	<i>13:47</i>	<i>70 32.05</i>	<i>127 43.21</i>	<i>21</i>				
<i>26</i>	<i>CPB-01</i>	<i>BOX</i>	<i>244</i>	<i>BE</i>	<i>13:58</i>	<i>70 32.07</i>	<i>127 43.33</i>	<i>21</i>		<i>AE</i>		
				<i>BO</i>	<i>13:58</i>	<i>70 32.05</i>	<i>127 43.31</i>	<i>21</i>	<i>21</i>			
				<i>EN</i>	<i>13:58</i>	<i>"</i>	<i>"</i>	<i>21</i>				
<i>26</i>	<i>CPB-01</i>	<i>BOX</i>	<i>245</i>	<i>BE</i>	<i>14:05</i>	<i>70 31.87</i>	<i>127 43.06</i>	<i>21</i>		<i>AE</i>	<i>Water pouring out Bottom. R</i>	
				<i>BO</i>	<i>14:05</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>21</i>			
				<i>EN</i>	<i>14:06</i>	<i>"</i>	<i>"</i>	<i>"</i>				
<i>26</i>	<i>CPB-01</i>	<i>BOX</i>	<i>246</i>	<i>BE</i>	<i>14:08</i>	<i>70 31.82</i>	<i>127 42.99</i>	<i>22</i>		<i>AE</i>		
				<i>BO</i>	<i>14:08</i>	<i>70 31.82</i>	<i>127 42.77</i>	<i>22</i>	<i>22</i>			
				<i>EN</i>	<i>14:08</i>	<i>70 31.81</i>	<i>127 42.96</i>	<i>22</i>				
<i>26</i>	<i>CPB-02</i>	<i>MPS</i>	<i>247</i>	<i>BE</i>	<i>14:58</i>	<i>70 34.06</i>	<i>127 33.03</i>	<i>126</i>		<i>AE</i>		
				<i>BO</i>	<i>15:02</i>	<i>70 34.09</i>	<i>127 33.10</i>	<i>126</i>	<i>126</i>			
				<i>EN</i>	<i>15:07</i>	<i>70 34.13</i>	<i>127 33.19</i>	<i>126</i>				
<i>26</i>	<i>CPB-02</i>	<i>BON</i>	<i>248</i>	<i>BE</i>	<i>15:19</i>	<i>70 34.09</i>	<i>127 33.32</i>	<i>123</i>		<i>AE</i>		
				<i>EN</i>	<i>15:32</i>	<i>70 33.72</i>	<i>127 32.66</i>	<i>121</i>				

Event Type:

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W2A = Western Trawl

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

Notes:

DAILY SCIENCE LOG

Page

Month August				Year 2018				Ship FROST			Cruise ID CBS MCA	
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N)	Longitude (W)	Bottom Depth	Max Depth	Logger's initials	Comments	
						DD MM.MM...	DDD MM.MM...					
26	CPB-02	ROS	249	BE	16:14	70 34.05	127 33.45	119		GC	Sample #: 297-298	
				BO	16:17	70 34.07	127 33.52		114			
				EN	16:22	70 34.10	127 33.62					
26	CPB-02	ROS	250	BE	16:50	70 34.05	127 33.50	119		GC	Samples : 299-309.	
				BO	16:58	70 34.05	127 33.41		80			
				EN	17:05	70 34.66	127 33.46					
26	CPB-02	BOX	251	BE	17:21	70 33.90	127 33.00	121		AE		
				BO	17:23	70 33.90	127 33.02	121	121			
				EN	17:24	70 33.91	127 33.04	121				
26	CPB-02	BOX	252	BE	17:30	70 33.96	127 33.03	125		AE		
				BO	17:31	70 33.97	127 33.01	126	126			
				EN	17:33	70 33.98	127 32.98	126				
26	CPB-02	BBT	253	BE	17:45	70 33.62	127 32.55	120		KDW		
				BO	17:54	70 33.94	127 33.29	120				
				EN	18:04	70 34.21	127 33.89	119				
26	CPB-02	W2A	254	BE	18:25	70 35.09	127 35.83	116		AE	Screen cap D20180826-T180305	
				BO	18:31	70 34.72	127 35.14	116	116			
				EN	18:51	70 33.85	127 33.12	119				

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CPB-03 Niskins.

- Ros sampled water from bottom, 200m, + salinity = 33.1
- 2 Niskins (using a pole) took surface water, which was also Chl. max.
- tides were challenging @ CPB-03 - 2.5 knots speed-over-ground.

DAILY SCIENCE LOG

Month <i>August</i>				Year <i>2018</i>				Ship <i>Fraser</i>				Cruise ID <i>2018</i>		Page
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...		Longitude (W) DDD MM.MM...		Bottom Depth	Max Depth	Logger's initials	Comments	
26	CPB-03	ROS	255	BE	2032	70° 35.96	127° 22.67	237					Sample 310. - 313	
				BO	2039	70° 36.07	127° 22.93			228			Lost annus with CTD @ 750	
				EN	2050	70° 34.09	127° 23.02						revert. Have sure error message	
26	CPB-03	NSK	256	BE	21:23	70 36.63	127 22.86	239		Ø		AE	Niskin on a pole @ surface	
26	CPB-03	NSK	257	BE	21:26	70 36.77	127 23.14	239		Ø		AE	Niskin on a pole @ surface	
26	CPB-03	BON	258	BE	2130	70 36.78	127 23.09	239				AE	Niskin on a pole @ surface	
				EN	21:53	70 37.43	127 21.37	243						
26	CPB-03	VHN	259	BE	22:23	70 36.36	127 22.76	239	23			AE	Angle > 40° on wire due to	
				BO	22:26	70 36.46	127 22.89	239	239				Recorded bottom w/ min late, but	
				EN	22:27	70 36.48	127 22.93	239					to try to get the net more	
26	CPB-03	VHN	260	BE	22:31	70 36.68	127 22.82	240	130.8			AE	Angle 35° on wire due to	
				BO	22:38	70 36.89	127 23.15	239						
				EN	22:45	70 37.06	127 23.38	238						
26	CPB-03	BOX	261	BE	23:06	70 35.98	127 23.01	238				AE		
				BO	23:08	70 36.02	127 23.13	238	238					
				EN	23:11	70 36.09	127 23.26	237						
26	CPB-03	BOX	262	BE	23:19	70 36.28	127 23.47	238						
				BO	23:21	70 36.35	127 23.55	238	238			AE	Mostly water. Discarded.	
				EN	23:24	70 36.45	127 23.71	237						

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with 0.0.0.0.0.0. reading on display. Needs to be added to tap Log file

DAILY SCIENCE LOG

Page

Month <i>August</i>				Year <i>2018</i>		Ship <i>FROSTI</i>				Cruise ID <i>CBS M</i>	
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N)	Longitude (W)	Bottom Depth	Max Depth	Logger's initials	Comments
						DD MM.MM...	DDD MM.MM...				
<i>26</i>	<i>CPB-03</i>	<i>ROS</i>	<i>263</i>	<i>BE</i>	<i>23:47</i>	<i>70 36.18</i>	<i>127 22.50</i>	<i>238</i>		<i>gc</i>	<i>Sample # 314-322. Last comm.</i>
				<i>BO</i>	<i>23:50</i>	<i>70 36.58</i>	<i>127 22.41</i>		<i>219</i>		<i>Alarm went off, blew fuse</i>
				<i>EN</i>	<i>00:13</i>	<i>70 37.01</i>	<i>127 24.32</i>				
<i>27</i>	<i>CPB-03</i>	<i>BBT</i>	<i>264</i>	<i>BE</i>	<i>00:31</i>	<i>70 37.81</i>	<i>127 25.03</i>	<i>236</i>		<i>AE.</i>	
				<i>BO</i>	<i>00:42</i>	<i>70 37.34</i>	<i>127 24.47</i>	<i>236</i>			
				<i>EN</i>	<i>00:52</i>	<i>70 37.04</i>	<i>127 24.06</i>	<i>237</i>			
<i>27</i>	<i>CPB-03</i>	<i>W2A</i>	<i>265</i>	<i>BE</i>	<i>01:14</i>	<i>70 36.72</i>	<i>127 23.61</i>	<i>238</i>		<i>AE.</i>	
				<i>BO</i>	<i>01:22</i>	<i>70 36.30</i>	<i>127 23.13</i>	<i>238</i>			
				<i>EN</i>	<i>01:42</i>	<i>70 35.41</i>	<i>127 22.01</i>	<i>239</i>			
<i>28</i>	<i>CPB-04</i>	<i>MPS</i>	<i>266</i>	<i>BE</i>	<i>13:12</i>	<i>70 37.59</i>	<i>127 11.72</i>	<i>261</i>		<i>AE.</i>	<i>Targets: 1) 253-200, 2) 200-150, 3)</i>
				<i>BO</i>	<i>13:20</i>	<i>70 37.78</i>	<i>127 11.94</i>	<i>260</i>	<i>250</i>		<i>4) 100-50 5) 50-0</i>
				<i>EN</i>	<i>13:28</i>	<i>70 37.96</i>	<i>127 12.15</i>	<i>260</i>			
<i>28</i>	<i>CPB-04</i>	<i>ROS</i>	<i>267</i>	<i>BE</i>	<i>13:52</i>	<i>70 37.42</i>	<i>127 12.06</i>	<i>260</i>			<i>Sample # 323-334</i>
				<i>BO</i>	<i>14:10</i>	<i>70 37.54</i>	<i>127 12.17</i>		<i>248</i>		
				<i>EN</i>	<i>14:15</i>	<i>70 38.17</i>	<i>127 12.39</i>				
<i>28</i>	<i>CPB-04</i>	<i>BON</i>	<i>268</i>	<i>BE</i>	<i>14:27</i>	<i>70 38.58</i>	<i>127 13.46</i>	<i>253</i>	<i>150</i>	<i>!</i>	
				<i>EN</i>	<i>14:48</i>	<i>70 38.74</i>	<i>127 16.29</i>	<i>246</i>			
				<i>EN</i>							

Event Type:

BOT = Bottle cast, no CTD
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W2A = Western Trawl

Time Code:

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

Notes:

28 Aug 2018

- Wind @ CPB-04 ~ 8-10 kn. NW; overcast
- tides 1.7 knots. SOG 1.7 knots
- ice was moving east towards station at a fast rate while sampling CPB-04.
 - ↳ moved ~ 9 nm overnight

DAILY SCIENCE LOG

Month <i>August</i>		Year <i>2018</i>				Ship <i>FROST</i>				Cruise ID <i>CBS ME</i>	
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials	Comments
27	CPB-04	Box	269	BE	15 22	70 37.92	127 12.39	259		AE	
				BO	15 25	70 38.00	127 12.41	258	258		
				EN	15 28	70 38.07	127 12.47	258			
27	CPB-04	Box	270	BE	15 34	70 38.22	127 12.63	258		AE.	
				BO	15 36	70 38.29	127 12.70	257	257		
				EN	15 39	70 38.36	127 12.74	256			* EN not in taplog.
27	CPB-04	ROS	271	BE	16:01	70 37.29	127 11.23	263		GC	Sample # 335-337.
				BO	16:04	70 37.35	127 11.26		30		
				EN	16:05	70 37.40	127 11.32				
27	CPB-04	BBT	272	BE	16:19	70 37.90	127 12.08	260			
				BO	16 32	70 37.44	127 11.72	263			
				EN	16:42	70 37.13	127 11.47	263			
27	CPB-04	W2A	273	BE	17 05	70 36.77	127 11.38	266		AE.	
				BO	17 15	70 37.55	127 11.80	262	262		
				EN	17 35	70 38.60	127 12.44	257			Hit taplog button ~ 30s too late.
27	CPB-ACD1	CTD	274	BE	20.28	70° 36.51	127 16.38	253		GC	
				BO	20.37	70° 37.50	127 16.56		240		
				EN	20:42	70° 37.25	127 17.17				

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DAILY SCIENCE LOG

Page

Month				Year				Ship				Cruise ID	
Aug				2018				Frost				2018-98	
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials	Comments		
27	CPB-HCO1	TKR	275	BE	21:11	70 37.07	127 14.7	256	240	AE.	Screen cap D20180827-T212		
				BO	21:26	70 36.77	127 16.15	253	253		Nets didn't open - Redeploy		
				EN	21:58	70 36.25	127 19.15	247					
27	CPB-HCO1	TKR	276	BE	22:26	70 36.36	127 18.57	249		AE.	Tide was working too strong against		
				BO	/	/	/	/			Net retrieved + redeployed at		
				EN	22:41	70 37.34	127 16.82	252.					
28	CPB-HCO1	TKR	277	BE	22:54	70 37.31	127 13.72	258		AE.			
				BO	23:08	70 36.98	127 15.39	254	240				
				EN	23:32	70 36.49	127 17.90	250					
28	CPB-HCO1	MWIT	278	BE	00:18	70 36.23	127 21.46	242	242	AE	Screen cap D20180828-T00473		
				BO	00:31	70 36.56	127 19.35.	247	70				
				UP	00:46	70 36.81	127 16.92	252					
				EN	00:59	70 37.51	127 17.14	251					
28	BON-02	CTD	279	BE	15:38	70 55.97	132 57.00	67		GL	Spotted Bowheads + lots of		
				BO	15:43	70 56.00	132 57.11		57		sounder. Pressure 0.95		
				EN	15:46	70 56.02	132 57.19				Lost coming to CTD on up cast		
28	BON-02	MPS	280	BE	16:02	70 56.10	132 57.50	67			Near bowheads. Lots of scatter		
				BO	16:05	70 56.11	132 57.55	67	67		Targets: 1) 57-46, 2) 46-26, 3) 26-1		
				EN	16:08	70 56.13	132 57.61	67					

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Notes:

13232 minus lined out.

FFFF Carosol

28 Aug 2018

- Transit from CPB-01 to KUG-03 overnight - captain observed + recorded bowhead whales near Cape Bathurst (west, on the shelf). Lots of strong signals on the EK80. Called a station to verify hydroacoustic targets. Continued to observe whales nearby during sampling (≈ 1 MMD conducted by Joe Ilisiak (Paulatuk HTC) during sampling.

timed out. Then there was another error message but lost it once deck unit was shut off. RFF Carosle in. Took apart pylon + inspected for loose cables or flooding. Fuse blew again so most likely ground short. Removal of wire + put on new Evergrip + reterminated. Tested CTD + pylon firing with new sea cable.

DAILY SCIENCE LOG

Page

Month <i>August</i>				Year <i>2018</i>				Ship <i>FROSTI</i>			Cruise ID <i>CBS M</i>	
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials	Comments	
28	BOW-02	TKR	281	BE	16:40	70 56.07	132 57.56	67		AE	Bowheads spotted nearby. Lots of	
				BO	16:44	70 55.90	132 57.00	66	58			
				EN	16:50	70 55.77	132 56.59				Check taplog for coordinates	
28	BOW-02	TKR	282	BE	17:03	70 55.21	132 55.04	65		AE	" "	
				BO	17:08	70 55.02	132 54.49	65				
				EN	17:12	70 54.90	132 54.17					
28	KUG-03	NSK	283	BE	21:57	70 55.86	134 45.01	198	surf.	AE	Time + coord. Time wrong in Taplog Niskin on a pole	
28	KUG-03	NSK	284	BE	22:01	70 55.81	134 45.13	198	surf.	AE	Sample # 3	
28	KUG-03	CTD	285	BE	22:35	70 55.98	134 45.09	214		AE	Tucker Seabird.	
				BO	22:41	70 55.93	134 45.17	211				
				EN	22:47	70 55.89	134 45.23	207				
28	KUG-03	MPS	286	BE	23:17	70 56.12	134 45.06	223		AE	offline programmed. Targeted	
				BO	23:22	70 56.10	134 45.09				Didn't trigger. Redeployed	
				EN	23:27	70 56.09	134 45.11	223				
28	KUG-03	MPS	287	BE	23:29	70 56.09	134 45.12	223		AE	Offline programmed. Didn't trig	
				BO	✓	✓	✓					
				EN	23:40	70 56.06	134 45.19	221				

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Month				Year				Ship			Cruise ID
Day (UTC)	Station Name	Event Type	Event Number	Time Code	Time (UTC)	Latitude (N) DD MM.MM...	Longitude (W) DDD MM.MM...	Bottom Depth	Max Depth	Logger's initials	Comments
28	KUG-03	BON	288	BE	23:50	70 56.17	134 45.11	229	212	AE.	
				EN	0009	70 56.77	134 45.59	252			
29	KUG-03	BOX	289	BE	0022	70 55.96	134 45.19	214		AE.	
				BO	0024	70 55.97	134 45.19	215	215		
				EN	0027	70 55.97	134 45.19	215			
29	KUG-03	BOX	290	BE	0032	70 55.97	134 45.25	216		AE.	Not good. Redeployed.
				BO	0034	70 55.97	134 45.27	216	216		
				EN	0036	70 55.96	134 45.30	216			
29	KUG-03	BOX	291	BE	0038	70 55.96	134 45.32	216		AE.	
				BO	0040	70 55.95	134 45.35	216	216.		
				EN	0043	70 55.95	134 45.37	216			
29	KUG-03	BBT	292	BE	0054	70 56.01	134 44.48	206		AE.	
				BO	0103	70 56.12	134 43.69	204		KDW	
				EN	0113	70 56.29	134 42.60	204		KDW	
29	KUG-03	WZA	293	BE	0133	70 56.63	134 40.92	206		AE.	
				BO	0141	70 56.31	134 42.62	205		AE.	
				EN	0201	70 55.75	134 45.68	197			
			294								

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