

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2015-02

DATE:

From: Aug 18/15

To: SEPT 14/15

VESSEL:

PICKER

PROJECT(S):

Hake

Water Properties Group
Fisheries and Oceans Canada
Institute of Ocean Sciences
Ocean Sciences Division
North Saanich, BC, Canada

WaterProperties.ca

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month <u>Aug</u>				Year <u>2015</u>			Vessel <u>PICKER</u>			Cruise ID <u>2015-02</u>					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
01	Z00P60	21	15:12	BE	CTD	/	48° 47.188	125° 46.998	59	45	-	/	CR	☐ ☐	
			15:13	BO			48° 47.201	125° 47.005			-			☐ ☐	
			15:14	EN			48° 47.218	125° 47.020			-			☐ ☐	
02	Z00P60	21	15:22	BE	NET	/	48° 47.170	125° 47.00	55	45	-		CR	☐ ☐	* lat/lon from
			15:24	BO			°	°			-			☐ ☐	bottle - Not recorded
			15:25	EN			°	°			-			☐ ☐	lat/lon from
03	Z00P150	21	17:41	BE	CTD	/	48° 47.150	126° 13.290	145	135	-	/	CR	☐ ☐	no bottle -
			17:44	BO			48° 47.154	126° 13.276			-			☐ ☐	too rough
			17:46	EN			48° 47.154	126° 13.250			-			☐ ☐	
04	Z00P300	21	19:21	BE	CTD	/	48° 47.023	126° 30.382	292	282	-	/	CR	☐ ☐	
			19:27	BO			48° 46.955	126° 30.400			-			☐ ☐	
			19:33	EN			48° 46.903	126° 30.468			-			☐ ☐	
05	Z00P300	21	19:36	BE	NET	/	48° 46.880	126° 30.500	292	100	-	/	CR	☐ ☐	
			19:40	BO			°	°			-			☐ ☐	
			19:42	EN			°	°			-			☐ ☐	
06	Z00P500	21	20:15	BE	CTD	/	48° 47.120	126° 34.378	429	419	-	/	CR	☐ ☐	
			20:23	BO			48° 47.120	126° 34.396			-			☐ ☐	
			20:31	EN			48° 47.078	126° 34.447			-			☐ ☐	
07	Z00P500	21	20:34	BE			48° 47.05	126° 34.42	429	100	-	/	CR	☐ ☐	

Event Type:

BOT = Bottle cast (no CTD)
CTD = Standalone CTD
ROS = CTD in Rosette
SET = Fish Set

LOOP = Sea Water Loop

MOR = Mooring
NET = Plankton Net Haul
DRF = Drifter

Bottle Firing Method:

US = Up / Stop (default)
UN = Up / No stop
DN = Down / No stop

Notes:

Time Code:

BE = Beginning Time of Cast
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CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

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

Produced by the Water Properties Group, IOS

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Month <u>August</u>			Year <u>2015</u>			Vessel <u>W. E. DICKER</u>			Cruise ID <u>2015-02</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI-Cleaned	Comments
							Latitude	Longitude							
07	ZOOPI20	21	20:37	BO	NET	/	°	°			-			☐	
			20:40	EN			°	°			-			☐	
08	ZOOPI00	21	21:44	BE	CTD	/	48° 47.058	126° 42.096	1092	1080	-	/	CR	☐	
			22:04	BO			48° 47.045	126° 42.143			-			☐	
			22:24	EN			48° 47.057	126° 42.246			-			☐	
09	ZOOPI00	21	22:27	BE	NET	/	48° 47.060	126° 42.220	1092	1000	-	/	CR	☐	
			22:30	BO			°	°			-			☐	
			22:32	EN			°	°			-			☐	
10	ZOOPI500	22	00:14	BE	CTD	/	48° 47.045	126° 56.363	1582	1000	-	/	CR	☐	
			00:34	BO			48° 46.987	126° 56.148			-		CR	☐	
			00:54	EN			48° 47.010	126° 56.096			-		CR	☐	
11	ZOOPI500	22	01:56	BE	NET	/	48° 47.050	126° 56.070			-	/	CR	☐	
			02:00	BO			°	°			-			☐	
			02:03	EN			°	°			-			☐	
12	LB12	23	07:35	BE	CTD	/	48° 12.988	125° 51.793	495	485	-	/	CR	☐	
			07:44	BO			48° 13.009	125° 51.827			-			☐	
			07:53	EN			48° 12.996	125° 51.850			-			☐	
13	LB12	23	08:06	BE	NET	/	48° 13.020	125° 51.890			-	/	CR	☐	
			08:16	BO			°	°			-			☐	

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<i>13</i>	<i>LB12</i>	<i>23</i>	<i>08:25</i>	<i>EN</i>	<i>NET</i>	<i>/</i>	<i>°</i>	<i>°</i>	<i>495</i>	<i>250</i>	<i>-</i>	<i>/</i>	<i>CR</i>	☐ ☐	
<i>14</i>	<i>LB08</i>	<i>23</i>	<i>10:39</i>	<i>BE</i>	<i>CTD</i>	<i>/</i>	<i>48° 25.306</i>	<i>125° 28.733</i>	<i>149</i>	<i>139</i>	<i>-</i>	<i>/</i>	<i>CR</i>	☐ ☐	
			<i>10:42</i>	<i>BO</i>			<i>48° 25.310</i>	<i>125° 28.745</i>			<i>-</i>			☐ ☐	
			<i>10:44</i>	<i>EN</i>			<i>48° 25.315</i>	<i>125° 28.744</i>			<i>-</i>			☐ ☐	
<i>15</i>	<i>LB08</i>	<i>23</i>	<i>10:51</i>	<i>BE</i>	<i>NET</i>	<i>/</i>	<i>48° 25.330</i>	<i>125° 28.880</i>	<i>140</i>	<i>130</i>	<i>-</i>	<i>/</i>	<i>CR</i>	☐ ☐	
			<i>10:56</i>	<i>BO</i>			<i>°</i>	<i>°</i>			<i>-</i>			☐ ☐	
			<i>11:01</i>	<i>EN</i>			<i>°</i>	<i>°</i>			<i>-</i>			☐ ☐	
<i>16</i>	<i>LC06</i>	<i>23</i>	<i>15:00</i>	<i>BE</i>	<i>CTD</i>	<i>/</i>	<i>48° 36.509</i>	<i>125° 54.343</i>	<i>87</i>	<i>77</i>	<i>-</i>	<i>/</i>	<i>CR</i>	☐ ☐	
			<i>15:01</i>	<i>BO</i>			<i>48° 36.512</i>	<i>125° 54.340</i>			<i>-</i>			☐ ☐	
			<i>15:03</i>	<i>EN</i>			<i>48° 36.512</i>	<i>125° 54.330</i>			<i>-</i>			☐ ☐	
<i>17</i>	<i>LC06</i>	<i>23</i>	<i>15:09</i>	<i>BE</i>	<i>NET</i>	<i>/</i>	<i>48° 36.550</i>	<i>125° 54.370</i>	<i>87</i>	<i>77</i>	<i>-</i>	<i>/</i>	<i>CR</i>	☐ ☐	
			<i>15:12</i>	<i>BO</i>			<i>°</i>	<i>°</i>			<i>-</i>			☐ ☐	
			<i>15:16</i>	<i>EN</i>			<i>°</i>	<i>°</i>			<i>-</i>			☐ ☐	
<i>18</i>	<i>LD08</i>	<i>24</i>	<i>07:47</i>	<i>BE</i>	<i>CTD</i>		<i>48° 39.130</i>	<i>126° 23.246</i>	<i>767</i>	<i>757</i>	<i>-</i>	<i>/</i>	<i>CR</i>	☐ ☐	<i>angled on the</i>
			<i>08:06</i>	<i>BO</i>			<i>48° 39.050</i>	<i>126° 23.314</i>			<i>-</i>			☐ ☐	<i>by down</i>
			<i>08:19</i>	<i>EN</i>			<i>48° 39.974</i>	<i>126° 23.392</i>			<i>-</i>			☐ ☐	
<i>19</i>	<i>LD08</i>	<i>24</i>	<i>08:20</i>	<i>BE</i>	<i>NET</i>		<i>48° 38.873</i>	<i>126° 23.408</i>			<i>-</i>	<i>/</i>	<i>CR</i>	☐ ☐	<i>angle of release</i>
			<i>08:35</i>	<i>BO</i>			<i>°</i>	<i>°</i>			<i>-</i>			☐ ☐	<i>on way up.</i>
			<i>08:40</i>	<i>EN</i>			<i>°</i>	<i>°</i>			<i>-</i>			☐ ☐	<i>my watch is off</i>
															<i>by a few minutes</i>
															<i>3 min diff bet CTD</i>

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Month <u>Aug</u>			Year <u>2015</u>			Vessel <u>W.E. Rickle</u>			Cruise ID <u>2015-02</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
20	LD02	24	18:28	BE	NET	/	48°58.168	125°17.012	44	34	-		CR	☐ ☐	
			18:29	B			°	°			-			☐ ☐	
			18:30	BI			°	°			-			☐ ☐	
21	LD02	24	18:41	BE	CTD	/	48°58.103	125°17.034	44	54	-		CR	☐ ☐	
			18:43	B			48°58.096	125°17.056			-			☐ ☐	
			18:44	BI			48°58.096	125°17.056			-			☐ ☐	
22	LG106	25	07:23	BE	CTD	/	49°03.437	127°01.226	950	940	-	/	CR	☐ ☐	Varied depth; ready to jump with
			07:40	BO			49°03.241	127°01.055			-			☐ ☐	10-20 m bit sanders 940
			07:57	EN			49°03.102	127°01.054			-			☐ ☐	to be safe.
23	LG106	25	08:04	BE	NET	/	49°02.936	127°00.941	950	250	-	/	CR	☐ ☐	longo hump up on doors on
			08:14	BO			°	°			-			☐ ☐	the way up should affect population
			08:19	EN			°	°			-			☐ ☐	
24	LG102	25	10:49	BE	CTD	/	49°18.731	126°38.092	93	83	-	/	CR	☐ ☐	
			10:51	BO			49°18.745	126°38.063			-			☐ ☐	
			10:52	EN			49°18.761	126°38.071			-			☐ ☐	
25	LG102	25	10:59	BE	NET	/	49°18.840	126°38.046	94	84	-	/	CR	☐ ☐	
			11:03	BO			°	°			-			☐ ☐	
			11:05	EN			°	°			-			☐ ☐	
26	LBP7	26	07:35	BE		/	49°52.400	128°11.178	2195	1000	-	/	CR	☐ ☐	

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Month <u>AUG</u>				Year <u>2015</u>		Vessel <u>W.E. RICKET</u>		Cruise ID <u>2015-02</u>							
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
26	LBP7	26	07:53	BO	CTD	✓	49°52.339	128°11.020	2195	1000	-	✓	CR	☐ ☐	
			08:09	EN			49°52.327	128°10.844			-			☐ ☐	
27	LBP7	26	08:21	BE	NET	✓	49°52.336	128°10.684	2195	250	-	✓	CR	☐ ☐	
			08:31	BO			°	°			-			☐ ☐	
			08:36	EN			49°52.403	128°10.571			-			☐ ☐	
28	LBP3	26	10:29	BE	CTD	✓	50°03.161	127°55.264	162	152	-	✓	CR	☐ ☐	
			10:32	BO			50°03.166	127°55.290			-			☐ ☐	
			10:35	EN			50°03.169	127°55.301			-			☐ ☐	
29	LBP3	26	10:41	BE	NET	✓	50°03.161	127°55.265	162	152	-	✓	CR	☐ ☐	
			10:47	BO			°	°			-			☐ ☐	
			10:50	EN			50°03.154	127°55.502			-			☐ ☐	
30	ZOOPISCO-69	26	20:21	BE	CTD		50°27.068	128°40.280	1524	1000	-	✓	CR	☐ ☐	
			20:40	BO			50°27.181	128°40.182			-			☐ ☐	
			20:59	EN			50°27.246	128°40.123			-			☐ ☐	
31	ZOOPISCO-69	26	21:05	BE	NET		50°27.430	128°39.860	1524	250	-	✓	CR	☐ ☐	
			21:14	BO			°	°			-			☐ ☐	
			21:20	EN			°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	

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Month <u>AUGUST</u>			Year <u>2015</u>			Vessel <u>NE PICKER</u>			Cruise ID <u>2015-02</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
32	200P100-69	26	21:39	BE	CTD	—	50° 27.064	128° 39.313	995	985	-	—		☐ ☐	
			21:59	BO			50° 27.194	128° 39.101			-			☐ ☐	
			22:17	EN			50° 27.084	128° 39.002			-			☐ ☐	
33	200P100-69	26	22:23	BE	NET	—	50° 27.090	128° 39.000	995	100	-	—	CR	☐ ☐	
			22:26	BO			°	°			-			☐ ☐	
			22:29	EN			°	°			-			☐ ☐	
34	200P50-61	26	23:32	BE	CTD	—	50° 27.088	128° 32.68	386	375	-	—		☐ ☐	
			23:39	BO			50° 27.992	128° 32.069			-			☐ ☐	
			23:44	EN			50° 27.964	128° 32.048			-			☐ ☐	
35	200P50-69	26	23:50	BE	NET	—	50° 27.028	128° 32.069	386	100	-	—	CR	☐ ☐	
			23:53	BO			°	°			-			☐ ☐	
			23:55	EN			°	°			-			☐ ☐	
36	200P300-69	27	00:16	BE	CTD	—	50° 27.070	128° 30.882	210	200	-	—	CR	☐ ☐	
			00:20	BO			50° 27.054	128° 30.860			-			☐ ☐	
			00:24	EN			50° 27.042	128° 30.846			-			☐ ☐	
37	200P300-69	27	00:28	BE	NET	—	50° 27.070	128° 30.860	210	100	-			☐ ☐	
			00:31	BO			°	°			-			☐ ☐	
			00:34	EN			°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	

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38	200150-69	27	01:54	BE	CTD	—	50° 27.040	128° 17.401	145	135	-			☐ ☐	
			01:56	BO			50° 27.032	128° 17.384			-			☐ ☐	
			01:59	EN			50° 27.023	128° 17.384			-			☐ ☐	
39	200150-69	27	02:05	BE	NET	—	50° 27.040	128° 17.401	145	100	-			☐ ☐	
			02:09	BO			°	°			-			☐ ☐	
			02:11	EN			°	°			-			☐ ☐	
40	700150-69	27	02:55	BE	CTD	—	50° 27.062	128° 09.490	67	SS	-			☐ ☐	
			02:57	BO			50° 27.072	128° 09.490			-			☐ ☐	
			02:58	EN			50° 27.082	128° 09.492			-			☐ ☐	
41	700150-69	27	03:07	BE	NET	—	50° 27.072	128° 09.490	67	SS	-			☐ ☐	
			03:11	BO			°	°			-			☐ ☐	
			03:15	EN			°	°			-			☐ ☐	
42	CS06	28	02:09	BE	CTD	—	51° 00.011	128° 49.907	60	50	-		CR	☐ ☐	
			02:11	BO			51° 00.024	128° 49.867			-			☐ ☐	
			02:12	EN			51° 00.041	128° 49.832			-			☐ ☐	
43	CS06	28	02:19	BE	NET	—	51° 00.092	128° 49.714			-		CR	☐ ☐	
			02:21	BO			°	°			-			☐ ☐	
			02:22	EN			°	°			-			☐ ☐	
44	CS10	29	01:33	BE	CTD	—	51° 16.474	128° 19.760	73	63	-		CR	☐ ☐	

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Month <u>AUG/SEPT</u>				Year <u>2015</u>		Vessel <u>W.E. RICKER</u>				Cruise ID <u>2015-02</u>					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
44	CS10	29	01:35	BO	CTD	✓	51°16.474	128°19.940	73	63	-	✓	CR	☐	
			01:36	EN			51°16.468	128°19.909			-			☐	
45	CS10	29	01:47	BE	NET	✓	51°16.490	128°19.730	73	63	-	✓	CR	☐	*H3 Jellyfish excluded from formalin sample.
			01:49	BO			°	°			-			☐	
			01:50	EN			°	°			-			☐	
46	DT08	03	22:24	BE	CTD	✓	54°28.578	132°18.796	360	350	-	✓	CR	☐	*In Season as 1619DT08*
			22:30	BO			54°28.594	132°18.847			-			☐	
			22:37	EN			54°28.637	132°18.728			-			☐	
47	DT08	03	22:50	BE	NET	✓	54°28.518	132°18.900			-	✓	CR	☐	-Pouled water (possibly) stored for 2 mins
			22:58	BO			°	°			-			☐	
			22:05	EN			54°28.631	132°18.283			-	✓	CR	☐	
48	DE03	04	02:00	BE			54°09.346	132°12.580	360	250	-	✓	CR	☐	
			02:01	BO			54°09.358	132°12.620			-			☐	
			02:02	EN			54°09.364	132°12.643			-			☐	
49	DE03	04	02:10	BE			54°09.353	132°12.643	60	50	-	✓	CR	☐	
			02:12	BO			°	°			-			☐	
			02:14	EN			54°09.391	132°12.667			-			☐	
50	DE04	04	08:16	BE	CTD		54°07.939	132°27.726	50	45	-	✓	AN	☐	-Port discrepancy on station 100m
			08:17	BO			°07.939	°27.726			-			☐	

Event Type:

BOT = Bottle cast (no CTD)
 CTD = Standalone CTD
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 SET = Fish Set

LOOP = Sea Water Loop

MOR = Mooring
 NET = Plankton Net Haul
 DRF = Drifter
 =

Bottle Firing Method:

US = Up / Stop (default)
 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

CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

DE = Deployment Time
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 RE = Recover Mooring Time

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 Version: 14 February 2013

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month <u>AUG/SEPT</u>			Year <u>2015</u>			Vessel <u>W.E. RICKER</u>		Cruise ID <u>2015-02</u>							Page _____ of _____	
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments	
50	DE04	04	08:18	EN	CTD		54°07.940	132°27.697	50	40	-			☐ ☐		
51	DE04	04	08:27	BE	NET		54°07.921	132°27.628	50	45	-			☐ ☐	Fluorometer 5d 2	
			08:29	BO			°	°			-			☐ ☐	146802	
			08:30	EN			°	°			-			☐ ☐		
52	DE05	04	09:58	BE	CTD		54°10.572	132°45.721	60	50	-			☐ ☐		
			09:59	BO			54°10.573	132°45.734			-			☐ ☐		
			09:59	EN			54°10.572	132°45.734			-			☐ ☐		
53	DE05	04	10:06	BE	NET		54°10.448	132°45.821	60	50	-			☐ ☐		
			10:08	BO			°	°			-			☐ ☐		
			10:09	EN			°	°			-			☐ ☐		
54	DE06	04	11:08	BE	CTD		54°13.838	132°54.476	162	150	-			☐ ☐		
			11:10	BO			54°13.852	132°54.528			-			☐ ☐		
			11:14	EN			54°13.840	132°54.506			-			☐ ☐		
55	DE06	04	11:21	BE	NET		54°13.851	132°54.643	162	150	-			☐ ☐		
			11:27	BO			°	°			-			☐ ☐		
			11:30	EN			°	°			-			☐ ☐		
56	FI13	05	02:24	BE	CTD		54°35.164	135°10.133	2690	1000	-		CR	☐ ☐		
			02:45	BO			54°35.218	135°09.912			-			☐ ☐		
			03:04	EN			54°35.238	135°09.690			-			☐ ☐		
Event Type: LOOP = Sea Water Loop Bottle Firing Method: Time Code:																

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Month				Year			Vessel				Cruise ID				
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
57	FI13	05	03:10	BE	NET	✓	54°35.256	135°09.34	2690	250	-	✓	CR	☐ ☐	
			03:20	BO			°	°			-			☐ ☐	
			03:26	EN			°	°			-			☐ ☐	
58	FI12	05	04:30	BE	NET	✓	54°36.680	134°53.960	2628	250	-	✓	CR	☐ ☐	* large wire angles
			04:39	BO			°	°			-			☐ ☐	
			04:46	EN			°	°			-			☐ ☐	
59	FI12	05	5:00	BE	CTD	✓	54°36.636	134°53.874	2628	1600	-	✓	CR	☐ ☐	
			5:21	BO			54°36.691	134°53.794			-			☐ ☐	
			05:39	EN			54°36.780	134°53.090			-			☐ ☐	
60	FI11	05	07:49	BE	CTD		54°38.362	134°38.178	2350	1000	-	✓	AN	☐ ☐	
			08:07	BO			54°38.470	134°37.877			-			☐ ☐	
			08:25	EN			54°38.557	134°37.630			-			☐ ☐	
61	FI10	05	09:46	BE	CTD		54°40.032	134°21.474	2280	1000	-	✓	AN	☐ ☐	
			10:05	BO			54°40.270	134°21.192			-			☐ ☐	
			10:24	EN			54°40.505	134°21.192			-			☐ ☐	
62	FI09	05	11:47	BE	CTD		54°41.578	134°05.260	220	210	-	✓	AN	☐ ☐	
			11:51	BO			54°41.616	134°05.141			-			☐ ☐	
			11:55	EN			54°41.656	134°05.033			-			☐ ☐	
63	FI07	05	13:09	BE	CTD		54°43.141	133°49.882	220	210	-	✓	AN	☐ ☐	

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A 2015-02 LAKE Sept 5, 2015

r observations

Event #	Station Name	Day	Time (UTC)	Time Code	Event Type	Latitude	Longitude	Bottom Depth	Max Pressure	Watch Keeper	Comments
63	F107	05	1313	B0	CTD	54°43.214	133°49.160	220	210	AN	
			1317	EN		54°43.228	133°49.915				
64	F102	05	1623	BE	CTD	54°46.600	133°11.212	202	190	AN	
			1627	B0		54°46.628	133°11.224				
			1630	EN		54°46.640	133°11.202				
65	QCIO3	06	2028	BE	CTD	53°27.056	133°00.020	215	205	CR	
			2032	B0		53°27.059	133°00.016				
			2035	EN		53°27.064	133°00.002				
66	QCIO3	06	2041	BE	NET	53°27.166	133°00.083	215	265	CR	
			2050	B0							
			2055	EN							
67	QCIO1	06	2221	BE	CTD	53°26.995	133°16.246	1550	1000	CR	
			2240	B0		53°26.876	133°16.105				
			2258	EN		53°26.792	133°15.993				
68	QCIO1	06	2307	BE	NET	53°26.701	133°16.037	1550	250	CR	
			2316	B0							
			2321	EN		53°26.694	133°16.113				
69	QCIO2	07	0417	BE	NET	53°07.02	133°02.06	1254	1000	CR	

[illegible]

[illegible]

This page is for any notes or observations

	time	Lat	Long
BO	1313	54° 43.214	133° 49.960
PE	1317	54° 43.228	133° 49.915