

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2013-48
+ 2013-15

DATE:

From: JULY 23 /13

To: AUG 4 /13

VESSEL:

W.E. RICHER

PROJECT(S):

BOLDT ^{La Perouse} HERRING

(+ FLOSTRAND SARDINE)
Aug 4/13 - Aug 16/13

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

WaterProperties.ca

**** The following 3 pages are VERY IMPORTANT as they document equipment and settings used on board ****

These pages are to be completed by the CTD Technician setting up the equipment, the Watch Leader on board, and the Chief Scientist **MUST** verify that all relevant sections are completed prior to leaving the vessel. *Any mid-cruise changes to be noted by watch leader in the notes.*

Data logging computer: DELL

Data acquisition program: _____

CTD deck unit make: SEABIRD model: 11 serial number: 424

Primary CTD

Make: SEABIRD model: 9 serial number: 506

Primary temperature serial number: 2038

Primary conductivity serial number: 1763

Secondary temperature serial number: 4663

Secondary conductivity serial number: 3394

Transmissometer: _____ Model: _____ s/n: _____

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model WCT LABS Cable gain: _____ s/n: 2215 P S or NO pump?

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

Oxygen sensor: SEABIRD Model: 43 s/n: 1436 P S or NO pump?

PAR sensor: _____ Model: _____ s/n: _____ Surface PAR? Y / N

Other sensors: PH - SEABIRD s/n: 0851 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: _____

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: _____ Model: _____ s/n: _____

Transmissometer: _____ Model: _____ s/n: _____

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

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: _____ Surface PAR? Y / 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?

CTD calibration bottle location (height above CTD in metres): _____

This also includes the bottle location above the CTD on non-rosette casts (e.g., W.E. Ricker)

DAILY SCIENCE LOG

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Month <u>JULY</u>			Year <u>2013</u>			Vessel <u>RICKER</u>			Cruise ID <u>2013-48</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
001	CAL TEST		02:22	BE	CTD		49° 12.19	123° 57.56	36		-	-	H.M.	☐ ☐	CTD TEST
			02:24	BO			49° 12.19	123° 57.56			-			☐ ☐	
			02:28	EN			49° 12.19	123° 57.56			-			☐ ☐	
002	SET 001	24	21:05	BE	CTD		48° 31.48	124° 52.14	136		-	-	H.M.	☐ ☐	CTD
			21:08	BO			48° 31.42	124° 52.11		130	-			☐ ☐	
			21:10	EN			48° 31.38	124° 52.09			-			☐ ☐	
003			21:20	BE	NET		48° 31.26	124° 52.17			-			☐ ☐	BONGO
			21:27	EN			48° 31.26	124° 52.17			-			☐ ☐	
			:				.	.			-			☐ ☐	
004	SET 002	25	18:07	BE	CTD		48° 22.04	125° 50.66	147		-	-	H.M.	☐ ☐	CTD
	<u>4 CALLED 003</u>		18:09	BO			48° 22.07	125° 50.67		135	-			☐ ☐	
	<u>IN FILE</u>		18:12	EN			48° 22.08	125° 50.71			-			☐ ☐	
			18:17	BE	NET		48° 22.09	125° 50.72			-			☐ ☐	BONGO
			18:25	EN			48° 22.09	125° 50.72			-			☐ ☐	
005	SET 003	25	23:23	BE	CTD		48° 37.04	125° 24.51	113		-		H.M.	☐ ☐	CTD
			23:25	BO			48° 37.05	125° 24.53		100	-			☐ ☐	CTD 'ON' ON DECK
			23:29	EN			48° 37.05	125° 24.58			-			☐ ☐	TO CHECK BATHY THERM
006			23:35	BE	NET		48° 37.09	125° 24.67			-			☐ ☐	BONGO
			23:46	EN			48° 37.09	125° 24.67			-			☐ ☐	

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
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
MR = Messenger Release Time
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Month <u>JULY</u>			Year <u>2013</u>			Vessel <u>W.E. RICHES</u>			Cruise ID <u>2013-48</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
	SET 004		:				°	°			-			☐ ☐	
007	SET 005	26	20:17	BE	CTD		48° 40.60	125° 53.09	71		-	—	H.M.	☐ ☐	CTD
			20:19	BO			48° 40.59	125° 53.16		60	-			☐ ☐	
			20:20	EN			48° 40.59	125° 53.18			-			☐ ☐	
008	SET 006	26	23:17	BE	CTD		48° 47.39	125° 31.95	114		-	—	H.M.	☐ ☐	CTD
			23:19	BO			48° 47.32	125° 31.97		105	-			☐ ☐	
			23:22	EN			48° 47.29	125° 31.99			-			☐ ☐	
009			23:29	BE	BONGO		48° 47.29	125° 32.06			-			☐ ☐	BONGO
			:				°	°			-			☐ ☐	
010	TRANSECT 1.1	27	17:47	BE	CTD		48° 45.87	126° 16.79	171		-	—	H.M.	☐ ☐	CTD
			17:50	BO			48° 45.91	126° 16.86		160	-			☐ ☐	
			17:53	EN			48° 45.94	126° 16.91			-			☐ ☐	
011			18:00	BE	NET		48° 46.00	126° 17.00			-			☐ ☐	BONGO
			:				°	°			-			☐ ☐	
012	SET 007	27	21:57	BE	CTD		48° 55.14	125° 46.43	98		-	—	H.M.	☐ ☐	CTD
			21:58	BO			48° 55.14	125° 46.45		90	-			☐ ☐	
			22:00	EN			48° 55.14	125° 46.45			-			☐ ☐	
013			23:08	BE	NET		48° 55.15	125° 46.41			-			☐ ☐	BONGO
			:				°	°			-			☐ ☐	

Event Type:

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 SET = Fish Set

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 DRF = Drifter
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Bottle Firing Method:

US = Up / Stop (default)
 UN = Up / No stop
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Notes:

Time Code:

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Month <u>JULY</u>			Year <u>2013-48</u>			Vessel <u>RICKER</u>			Cruise ID <u>2013-48</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							
014	SET009	28	15:25	BE	CTD		48° 47.85	125° 43.67	64		-	—	H.M.	☐ ☐	CTD
			15:26	BO			48° 47.86	125° 43.70		55	-			☐ ☐	
			15:27	GN			48° 47.88	125° 43.71			-			☐ ☐	
015			15:34	BE	NET		48° 47.93	125° 43.51	61	50	-			☐ ☐	BONGO
016	SET010	28	17:21	BE	CTD		48° 44.40	125° 53.46	71		-	—	H.M.	☐ ☐	CTD
			17:22	BO			48° 44.41	125° 53.43		65	-			☐ ☐	
			17:24	GN			48° 44.41	125° 53.41			-			☐ ☐	
017			17:30	BE	NET		48° 44.43	125° 53.35			-			☐ ☐	BONGO
	SET11		:				°	°			-			☐ ☐	
018	SET12	28	23:42	BE	CTD		48° 42.86	125° 37.83	165		-	—	H.M.	☐ ☐	CTD
			23:45	BO			48° 42.85	125° 37.80		155	-			☐ ☐	
			23:49	GN			48° 42.84	125° 37.77			-			☐ ☐	
019			23:58	BE	NET		48° 42.82	125° 37.76		150	-			☐ ☐	BONGO
			:				°	°			-			☐ ☐	
020	SET13	29	16:03	BE	CTD		48° 34.16	125° 44.68	72		-	—	H.M.	☐ ☐	CTD
			16:04	BO			48° 34.17	125° 44.69		65	-			☐ ☐	
			16:05	GN			48° 34.17	125° 44.69			-			☐ ☐	
021			16:12	BE	NET		48° 34.18	125° 44.69			-			☐ ☐	BONGO
			:				°	°			-			☐ ☐	

Event Type:

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Bottle Firing Method:

US = Up / Stop (default)
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Notes: _____

Time Code:

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Month <u>July</u>				Year <u>2013</u>		Vessel <u>W.E. RICKER</u>				Cruise ID <u>2013-48</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							
022	SET 14	30	16:58	BE	CTD		48° 32.04	125° 50.97	80		-	-	H.M.	☐ ☐	CTD
			16:59	BO			48° 32.05	125° 50.97		75	-			☐ ☐	
			17:01	EN			48° 32.05	125° 50.97			-			☐ ☐	
023			17:07	BE	NET		48° 32.06	125° 50.96			-			☐ ☐	BONGO
			:				°	°			-			☐ ☐	
024	TRANSCT 24	30	18:25	BE	CTD		48° 27.79	126° 04.98	199		-	-	H.M.	☐ ☐	CTD
			18:28	BO			48° 27.78	126° 04.86		150	-			☐ ☐	END OF LINE 2.4
			18:31	EN			48° 27.77	126° 04.85			-			☐ ☐	
025			18:35	BE	NET		48° 27.76	126° 04.81			-			☐ ☐	BONGO
			:				°	°			-			☐ ☐	
026	SET 15	30	23:18	BE	CTD		48° 36.80	125° 20.33	117		-	-	H.M.	☐ ☐	CTD
			23:26	BO			48° 36.83	125° 20.39		110	-			☐ ☐	
			23:23	EN			48° 36.84	125° 20.45			-			☐ ☐	
027			23:	BE	NET		48° 36.	125° 20.			-			☐ ☐	BONGO
	SET 16		:				°	°			-			☐ ☐	
028	TRANSCT 2.7	31	18:29	BE	CTD		48° 16.37	125° 42.92	232		-	-	H.M.	☐ ☐	CTD
			18:33	BO			48° 16.36	125° 42.84		225	-			☐ ☐	
			18:36	EN			48° 16.36	125° 42.81			-			☐ ☐	
029			18:42	BE	BONGO		48° 16.35	125° 42.73			-			☐ ☐	BONGO

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Month		JULY / AUGUST		Year		2013		Vessel		RICKER		Cruise ID		2013-48		Page		or	
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											
030	SET 17	31	23:50	BE	CTD		48 ° 27. 98	124 ° 56. 89	96		-	—	H.M.	☐ ☐	CTD				
			23:52	BO			48 ° 27. 97	124 ° 56. 96		90	-			☐ ☐					
			23:54	EH			48 ° 27. 95	124 ° 57. 01			-			☐ ☐					
031		1	00:00	BE	NET		48 ° 27. 91	124 ° 57. 24			-			☐ ☐	BONGO				
			:				°	°			-			☐ ☐					
032	TRANSCT 3.2	1	15:44	BE	CTD		48 ° 16. 31	125 ° 23. 83	110		-	—	H.M.	☐ ☐	CTD				
			15:46	BO			48 ° 16. 31	125 ° 23. 81		100	-			☐ ☐					
			15:48	EH			48 ° 16. 30	125 ° 23. 81			-			☐ ☐					
033			15:55	BE	NET		48 ° 16. 29	125 ° 23. 80			-			☐ ☐	BONGO				
			:				°	°			-			☐ ☐					
034	TRANSCT 3.2B	1	17:55	BE	CTD		48 ° 23. 63	125 ° 01. 11	206		-	—	H.M.	☐ ☐	CTD				
			17:58	BO			48 ° 23. 65	125 ° 01. 03		200	-			☐ ☐					
			18:02	EH			48 ° 23. 66	125 ° 00. 98			-			☐ ☐					
035			18:08	BE	NET		48 ° 23. 66	125 ° 00. 97			-			☐ ☐	BONGO				
			:				°	°			-			☐ ☐					
036	TRANSCT 3.4A	1	21:18	BE	CTD		48 ° 12. 70	125 ° 16. 05	118		-	—	H.M.	☐ ☐	CTD ✕-7				
			21:20	BO			48 ° 12. 65	125 ° 15. 99		110	-			☐ ☐					
			21:22	EH			48 ° 12. 63	125 ° 15. 95			-			☐ ☐					
037			21:28	BE	NET		48 ° 12. 55	125 ° 15. 86			-			☐ ☐	NET-BONGO				

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Notes:

Time Code:

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This page is for any notes or observations

called TRANSECT 3.3 A IN FILE — SHOULD BE 3.4A

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Month <u>AUGUST</u>			Year <u>2013</u>		Vessel <u>RICKER</u>		Cruise ID <u>2013-48</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	Tms/FI Cleaned	Comments
							Latitude	Longitude							
038	TRANSECT 3.4B	1	22:47	BE	CTD		48° 17.05	125° 02.87	204		-	-	H.M.	☐ ☐	CTD
			22:50	BO			48° 17.01	125° 02.86			-			☐ ☐	
			22:54	EN			48° 16.99	125° 02.85			-			☐ ☐	
039			23:02	BE	NET		48° 16.96	125° 02.94			-			☐ ☐	BONGO
			:				°	°			-			☐ ☐	
040	SET 18	2	15:19	BE	CTD		48° 55.22	126° 08.05	86		-	-	H.M.	☐ ☐	CTD
			15:20	BO			48° 55.24	126° 08.06		80	-			☐ ☐	
			15:22	EN			48° 55.25	126° 08.06			-			☐ ☐	
041			15:	BE	NET		48° 55.	126° 08.			-			☐ ☐	NET - BONGO
			:				°	°			-			☐ ☐	
042	TRANSECT 4.1	2	17:10	BE	CTD		48° 49.17	126° 26.94	197		-	-	H.M.	☐ ☐	CTD
			17:14	BO			48° 49.13	126° 26.89		190	-			☐ ☐	
			17:17	EN			48° 49.12	126° 26.87			-			☐ ☐	
043			17:	BE	NET		48° 49.	126° 26.			-			☐ ☐	NET - BONGO
			:				°	°			-			☐ ☐	
044	TRANSECT 4.2	2	20:34	BE	CTD		49° 03.71	126° 00.77	47		-	-	H.M.	☐ ☐	CTD
			20:35	BO			49° 03.71	126° 00.77		40	-			☐ ☐	
			20:36	EN			49° 03.72	126° 00.77			-			☐ ☐	
045			20:	BE	NET		49° 03.	126° 00.			-			☐ ☐	NET - BONGO
			:				°	°			-			☐ ☐	

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