

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2014-16

DATE:

From: MAR 6 /14

To: MAR 21 /14

VESSEL:

W.E. Ricker

PROJECT(S):

TRUDGEL Hi SEAS

Book 1 of 2

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: _____

Data acquisition program: _____

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

Primary CTD

Make: SBE model: 9+ serial number: 550

Primary temperature serial number: 2710

Primary conductivity serial number: 2128

Secondary temperature serial number: 2374

Secondary conductivity serial number: 3396

Transmissometer: / Model: _____ s/n: _____

Transmissometer: / Model: _____ s/n: _____

Fluorometer: Model Wet Labs ECO Cable gain: 13 s/n: 2215 P, S or NO pump?

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

Oxygen sensor: SBE Model: 43 s/n: 1176 P, S or NO pump?

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

Other sensors: PKT 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-rossette casts (e.g., W.E. Ricker)

DAILY SCIENCE LOG

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Month				Year			Vessel			Cruise ID					
MARCH				2014			W.E. RICKER			2014-16					
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	IF 01	7	15:05	BE	CTD		48° 17.37	123° 36.58	176		-	1	H.A.	☐ ☐	T: 7.61 S: 31.53
			15:09	BO			48° 17.36	123° 36.65		165	-			☐ ☐	BOT@10m - SAL/CHL/NUIS
			15:14	CM			48° 17.38	123° 36.74			-			☐ ☐	
002			15:23	BE	NET		48° 17.30	123° 36.74			-			☐ ☐	BONGO
003			15:38	BE	TRAWL		48° 17.39	123° 38.42			-			☐ ☐	TRAWL
			:				°	°			-			☐ ☐	
004	IF 02	7	17:06	BE	CTD		48° 20.13	123° 50.90	136		-	1		☐ ☐	T: 7.56 S: 31.65
			17:09	BO			48° 20.12	123° 50.92		125	-			☐ ☐	BOT@10m - SAL/CHL/NUIS
			17:16	CM			48° 20.14	123° 51.06			-			☐ ☐	
005			17:24	BE	NET		48° 20.14	123° 51.06			-			☐ ☐	BONGO
006			17:41	BE	TRAWL		48° 20.71	123° 52.81			-			☐ ☐	TRAWL
			:				°	°			-			☐ ☐	
007	IF 03	71	18:52	BE	CTD		48° 23.23	124° 02.81	78		-	1		☐ ☐	T: S:
			18:54	BO			48° 23.25	124° 02.87		70	-			☐ ☐	BOT@10m - SAL/CHL/NUIS
			18:57	CM			48° 23.26	124° 02.94			-			☐ ☐	
008			19:01	BE	NET		48° 23.29	124° 03.08			-			☐ ☐	BONGO
009			19:20	BE	TRAWL		48° 23.56	124° 05.43			-			☐ ☐	TRAWL
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	

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
 RE = Recover Mooring Time

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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
0010	IF04	7	20:17	BE	CTD		48° 25.81	124° 11.49	72		-	1	H.M	☐ ☐	T: 7.53 S: 30.23
			20:19	BO			48° 25.83	124° 11.53		66	-			☐ ☐	BOTTOM - SAL/CAL/NUIS
			20:22	EN			48° 25.84	124° 11.60			-			☐ ☐	
011			20:25	BE	NET		48° 25.87	124° 11.68			-			☐ ☐	BONGO
012			21:22	BE	TRAWL		48° 25.83	124° 13.53			-			☐ ☐	TRAWL
	NOTE: DATA FOR IF01 - IF04. PROBABLY LOST - COLLECTED 2014-16.XLACON FILE ONLY - NO HEX FILE - REBOOT														
013	IF05	7	22:21	BE	CTD		48° 27.96	124° 20.59	107		-	1		☐ ☐	T: 7.72 S: 30.8
			22:23	BO			48° 27.95	124° 20.60		95	-			☐ ☐	BOTTOM - SAL/CAL/NUIS
			22:27	EN			48° 27.94	124° 20.62			-			☐ ☐	
014			22:33	BE	NET		48° 27.93	124° 20.66			-			☐ ☐	BONGO
015			22:45	BE	TRAWL		48° 28.32	124° 22.21			-			☐ ☐	TRAWL
			:				.	.			-			☐ ☐	
016	IF06	7	23:54	BE	CTD		48° 30.82	124° 29.19	110		-	1		☐ ☐	T: 8.85 S: 26.69
			23:56	BO			48° 30.83	124° 29.14		100	-			☐ ☐	BOTTOM - SAL/CAL/NUIS
			00:00	EN			48° 30.84	124° 29.04			-			☐ ☐	
017			00:03	BE	NET		48° 30.84	124° 28.97			-			☐ ☐	BONGO
018			00:25	BE	TRAWL		48° 30.86	124° 29.62			-			☐ ☐	TRAWL
			:				.	.			-			☐ ☐	
			:				.	.			-			☐ ☐	

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This page is for any notes or observations

COMPUTER AND HOW *.HEX FILE IS CREATED STARTING OVER @ 2014-16.0013.HEX

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Month <u>MARCH</u>			Year <u>2014</u>		Vessel <u>W.E. RICHER</u>		Cruise ID <u>2014-16</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							
019	G1 01	8	15:03	BC	CTD		48° 44. 90	123° 36. 27	55		-	1	H.M	☐ ☐	T: 7.26 S: 28.63
			15:04	BO			48° 44. 90	123° 36. 27		45	-			☐ ☐	BOTEDM. SAL/CHL/NUTS
			15:06	CH			48° 44. 92	123° 36. 26			-			☐ ☐	
020			15:08	BC	NET		48° 44. 88	123° 36. 27			-			☐ ☐	BONGO
021			15:30	BC	TRAWL		48° 44. 64	123° 35. 80			-			☐ ☐	TRAWL
			:				.	.			-			☐ ☐	
022	G1 02	8	16:45	BC	TRAWL	ONLY	48° 31. 09	123° 30. 47	104		-			☐ ☐	TRAWL
023	G1 03	8	17:32	BC	TRAWL	ONLY	48° 42. 31	123° 29. 34	73		-			☐ ☐	TRAWL
			:				.	.			-			☐ ☐	
024	G1 04	8	18:15	BC	CTD		48° 43. 36	123° 25. 78	81		-	1		☐ ☐	T: 7.37 S: 29.91
			18:16	BO			48° 43. 36	123° 25. 77		70	-			☐ ☐	BOTEDM. SAL/CHL/NUTS
			18:19	CH			48° 43. 38	123° 25. 73			-			☐ ☐	
025			18:25	BC	NET		48° 43. 37	123° 25. 74			-	* MOIRA STA.		☐ ☐	BONGO - SAT CHAFING
026			18:44	BC	TRAWL		48° 43. 92	123° 25. 85			-			☐ ☐	TRAWL
			:				.	.			-			☐ ☐	
27	G1 05	8	20:17	BC	TRAWL	ONLY	48° 44. 99	123° 21. 15			-			☐ ☐	
			:				.	.			-			☐ ☐	
			:				.	.			-			☐ ☐	
			:				.	.			-			☐ ☐	

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Month			MARCH			Year			2014			Vessel			W.E. RICKER			Cruise ID			2014-16			Page		4		of	
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														
28	G1 06	8	20:37	BE	CTD		48° 44. 26	123° 17. 22	162		-	1	H.M.	☐ ☐	T: 7.38 S: 30.43														
			20:40	BO			48° 44. 23	123° 17. 25		150	-			☐ ☐	BOT@10m - SAL/CAL/MUTS														
			20:45	EN			48° 44. 22	123° 17. 20			-			☐ ☐															
29	SWANSON CH		20:49	BE	NET		48° 44. 21	123° 17. 18			MOIRA STATION	*		☐ ☐	BONGO - SWANSON CH														
30			21:14	BE	TRAWL		48° 44. 70	123° 17. 54			-			☐ ☐	TRAWL														
			:				° .	° .			-			☐ ☐															
30	G1 07	8	21:58	BG	TRAWL	ONLY	48° 46. 54	123° 20. 02			-			☐ ☐	TRAWL														
			:				° .	° .			-			☐ ☐															
31	G1 08	8	23:01	BE	CTD		48° 41. 61	123° 19. 50	61		-	1		☐ ☐	T: 7.37 S: 30.23														
			23:03	BO			48° 49. 59	123° 19. 52		50	-			☐ ☐	BOT@10m - SAL/CAL/MUTS														
			23:06	EN			48° 44. 56	123° 19. 58			-			☐ ☐															
32	PONDOR		23:10	BE	NET		48° 49. 55	123° 19. 64			MOIRA STATION	*		☐ ☐	BONGO - PONDOR														
33			23:30	BE	TRAWL		48° 50. 13	123° 20. 67			-			☐ ☐	TRAWL														
			:				° .	° .			-			☐ ☐															
34	G1 09	9	00:14	BE	TRAWL	ONLY	48° 52. 05	123° 23. 61		43	-			☐ ☐	TRAWL														
			:				° .	° .			-			☐ ☐															
			:				° .	° .			-			☐ ☐															
			:				° .	° .			-			☐ ☐															
			:				° .	° .			-			☐ ☐															
			:				° .	° .			-			☐ ☐															

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Month <u>MARCH</u>				Year <u>2014</u>			Vessel <u>W.E. RICKER</u>			Cruise ID <u>2014-16</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
35	GI-10	9	14:02	BE	CTD		48° 46.53	123° 12.89	63		-	1	H.M	☐ ☐	T: 7.30 S: 30.00
			14:04	BO			48° 46.53	123° 12.89		55	-		1	☐ ☐	BOT@10m- SAC/CHL/MOTS
			14:06	EN			48° 46.56	123° 12.88			-			☐ ☐	
36			14:10	BE	NET		48° 46.59	123° 12.88			-			☐ ☐	BONGO
37			14:28	BE	TRAWL		48° 46.04	123° 12.17			-			☐ ☐	TRAWL
			:				°	°			-			☐ ☐	
38	GS 01	9	15:51	BE	TRAWL	ONLY	48° 48.43	123° 04.12			-			☐ ☐	TRAWL
			:				°	°			-			☐ ☐	
39	GS 02	9	16:31	BE	CTD		48° 49.26	123° 08.74	120		-	1		☐ ☐	T: 7.24 S: 29.27
			16:34	BO			48° 49.25	123° 08.75		110	-			☐ ☐	BOT@10m- SAC/CHL/MOTS
			16:37	EN			48° 49.25	123° 08.78			-			☐ ☐	
40			16:40	BE	NET		48° 49.25	123° 08.79			-			☐ ☐	BONGO
41			17:00	BE	TRAWL		48° 49.55	123° 09.73			-			☐ ☐	TRAWL
			:				°	°			-			☐ ☐	
42	GS 03	9	17:48	BE	TRAWL	ONLY	48° 52.04	123° 14.11			-			☐ ☐	TRAWL
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	

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Notes: _____

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Month <u>MARCH</u>			Year <u>2014</u>			Vessel <u>W.E. RICHER</u>			Cruise ID <u>2014-16</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
43	GS 04	9	18:48	BE	CTD		48° 53. 90	123° 18. 64	132		-	1	H.M.	☐ ☐	T: 7.42 S: 29.64
			18:50	BO			48° 53. 90	123° 18. 64		122	-			☐ ☐	BOT@10m SAL/CHL/NOTS
			18:55	CH			48° 53. 89	123° 18. 63			-			☐ ☐	
44			18:57	BE	NET		48° 53. 90	123° 18. 64			-			☐ ☐	BONGO
45			19:21	BE	TRAWL		48° 54. 12	123° 19. 12			-			☐ ☐	TRAWL
			:				° .	° .			-			☐ ☐	
46	GS 05	9	18:11	BE	TRAWL ONLY		48° 56. 01	123° 24. 49			-			☐ ☐	TRAWL ONLY
			:				° .	° .			-			☐ ☐	
47	GS 06	9	20:54	BE	CTD		48° 57. 39	123° 28. 26	56		-	1		☐ ☐	T: 7.12 S: 28.95
			20:55	BO			48° 57. 38	123° 28. 24		45	-			☐ ☐	BOT@10m SAL/CHL/NOTS
			20:58	CH			48° 57. 37	123° 28. 19			-			☐ ☐	
48			21:01	BE	NET		48° 57. 37	123° 28. 17			-			☐ ☐	BONGO
49			22:20	BE	TRAWL		48° 57. 74	123° 28. 70			-			☐ ☐	TRAWL
			:				° .	° .			-			☐ ☐	
50	GS 07	9	23:08	BE	TRAWL ONLY		49° 00. 79	123° 32. 54			-			☐ ☐	TRAWL ONLY
			:				° .	° .			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
			:				° .	° .			-			☐ ☐	

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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
51	GS 08	9	23:46	BC	CTD		49° 02. 70	123° 34. 79	154		-	1	H.M.	☐ ☐	T: 7.23 S: 27.03
			23:49	BO			49° 02. 69	123° 34. 80		145	-			☐ ☐	BOTE 10m - SAL/CAL/NOTS
			23:54	EN			49° 02. 69	123° 34. 79			-			☐ ☐	
52			23:57	BC	NET		49° 02. 70	123° 34. 80			-			☐ ☐	BONGO
53			:	BC	TRAWL		49° 03. 99	123° 35. 44			-			☐ ☐	TRAWL
			:				° .	° .			-			☐ ☐	
54	GS 09	10	00:56		TRAWL ONLY		49° 03. 99	123° 35. 44			-			☐ ☐	TRAWL ONLY
			:				° .	° .			-			☐ ☐	
54	DI 01	10	14:00	BC	CTD		50° 01. 40	125° 06. 46	228		-	1		☐ ☐	T: 7.37 S: 29.61
			14:04	BO			50° 01. 40	125° 06. 45		215	-			☐ ☐	BOTE 10m - SAL/CAL/NOTS
			14:10	EN			50° 01. 40	125° 06. 43			-			☐ ☐	
55			14:17	BC	NET		50° 01. 37	125° 06. 43			-			☐ ☐	BONGO
56			14:44	BC	TRAWL		50° 01. 97	125° 07. 09			-			☐ ☐	TRAWL
			:				° .	° .			-			☐ ☐	
57	DI 02	10	15:29	BC	TRAWL ONLY		50° 05. 22	125° 08. 29			-			☐ ☐	TRAWL ONLY
			:				° .	° .			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
			:				° .	° .			-			☐ ☐	

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

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Month <u>MARCH</u>			Year <u>2014</u>		Vessel <u>W. E. RICKER</u>		Cruise ID <u>2014-16</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							
58	DI 03	10	16:14	BE	CTD		50°08.30	125°05.01	283		-	1	H.M.	☐ ☐	T: 7.28 S: 29.71
			16:19	BO			50°08.33	125°04.96		250	-			☐ ☐	BOT @ 10m - SAL/CHL/NUIS
			16:25	EN			50°08.31	125°04.84			-			☐ ☐	
59			16:29	BE	NET		50°08.29	124°04.74		150	-			☐ ☐	BONGO
60			16:50	BE	TRAWL		50°08.62	125°03.79			-			☐ ☐	TRAWL
			:				°	°			-			☐ ☐	
61	DI 04	10	17:37	BE	CTD		50°11.48	124°59.90	480		-	1		☐ ☐	T: 7.22 S: 29.49
			17:43	BO			50°11.54	124°59.98		250	-			☐ ☐	BOT @ 10m - SAL/CHL/NUIS
			17:49	EN			50°11.58	125°00.02			-			☐ ☐	
62			17:52	BE	NET		50°11.57	125°00.02		150	-			☐ ☐	BONGO
63			18:15	BE	TRAWL		50°12.21	125°00.49			-			☐ ☐	TRAWL
			:				°	°			-			☐ ☐	
64	DI 05	10	19:09	BE	CTD		50°15.52	125°00.49	585		-	1		☐ ☐	T: 7.36 S: 29.45
			19:15	BO			50°15.53	125°00.52		250	-			☐ ☐	BOT @ 10m - SAL/CHL/NUIS
			19:21	EN			50°15.54	125°00.55			-			☐ ☐	
65			19:24	BE	NET		50°15.53	125°00.54		50	-			☐ ☐	BONGO to 50m
66			19:34	BE	NET		50°15.54	125°00.57		150	-			☐ ☐	BONGO to 150m
67			19:58	BE	TRAWL		50°15.92	125°00.91			-			☐ ☐	TRAWL
			:				°	°			-			☐ ☐	

Event Type:

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

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

Bottle Firing Method:

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Notes: _____

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Month <u>MARCH</u>			Year <u>2014</u>			Vessel <u>W.E. RICHER</u>			Cruise ID <u>2014-16</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
68	DI 06	10	20:54	BE	CTD		50° 20.24	125° 07.19	453		-	1	H.M.	☐ ☐	T: 7.36 S: 29.37
			20:59	BO			50° 20.28	125° 07.20		250	-			☐ ☐	BOT@10m. SAL/CAL/NUTS
			21:05	EN			50° 20.30	125° 07.19			-			☐ ☐	
69			21:09	BE	NET		50° 20.31	125° 07.21		150	-			☐ ☐	BONGO
70			21:33	BE	TRAWL		50° 20.81	125° 06.73			-			☐ ☐	TRAWL
			:				°	°			-			☐ ☐	
71	DI 07	10	22:28	BE	CTD		50° 19.57	125° 06.20	345		-	1		☐ ☐	T: 7.45 S: 29.18
			22:34	BO			50° 19.62	125° 06.28		250	-			☐ ☐	BOT@10m. SAL/CAL/NUTS
			22:40	EN			50° 19.62	125° 06.30			-			☐ ☐	
72			22:43	BE	NET		50° 19.64	125° 06.29			-			☐ ☐	BONGO
73			23:08	BE	TRAWL		50° 19.33	125° 05.55			-			☐ ☐	TRAWL
			:				°	°			-			☐ ☐	
74	DI 08	10	23:43	BE	CTD		50° 18.63	125° 02.98	343		-	1		☐ ☐	T: 7.31 S: 29.20
			23:48	BO			50° 18.63	125° 03.02		250	-			☐ ☐	BOT@10m. SAL/CAL/NUTS
			23:54	EN			50° 18.63	125° 03.07			-			☐ ☐	
75		11	00:27	BE	NET		50° 18.52	125° 02.81			-			☐ ☐	BONGO
76		11	00:49	BE	TRAWL		50° 18.80	125° 02.33			-			☐ ☐	TRAWL
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	

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Month MARCH			Year 2014		Vessel W.E. RICHER		Cruise ID 2014-16								
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							
77	D1 09	11	14:13	BC	CTD		50° 15. 91	124° 59. 24	489		-	1	H.M.	☐	T: 7.17 S: 29.13
			14:17	BO			50° 15. 92	124° 59. 24		250	-			☐	BOT@10m. SAL/CAL/NTS
			14:23	EN			50° 15. 95	124° 59. 29			-			☐	
78			14:27	BC	NET	*	50° 15. 94	124° 59. 28		50	-			☐	BONGO to 50m
79			14:36	BC	NET	*	50° 16. 03	124° 59. 36		150	-			☐	BONGO to 150m
80			14:59	BC	TRAWL		50° 16. 66	124° 58. 72			-			☐	TRAWL
			:				.	.			-			☐	
81	D1 10	11	15:38	BC	CTD		50° 18. 81	124° 56. 27	453		-	1		☐	T: 7.24 S: 29.02
			15:43	BO			50° 18. 84	124° 56. 24		250	-			☐	BOT@10m. SAL/CAL/NTS
			15:49	EN			50° 18. 86	124° 56. 20			-			☐	
82			15:53	BC	NET		50° 18. 86	124° 56. 23			-			☐	BONGO
83			16:19	BC	TRAWL		50° 18. 92	124° 55. 26			-			☐	TRAWL
			:				.	.			-			☐	
84	D1 11	11	17:01	BC	CTD		50° 17. 99	124° 50. 99	475		-	1		☐	T: 7.07 S: 29.73
			17:05	BO			50° 18. 04	124° 51. 01		250	-			☐	BOT@10m. SAL/CAL/NTS
			17:12	EN			50° 18. 13	124° 50. 96			-			☐	
85			17:17	BC	NET		50° 18. 15	124° 50. 95		150	MOIRA STA. PRYCE CH *			☐	BONGO
86			17:43	BC	TRAWL		50° 18. 03	124° 50. 08			-			☐	TRAWL
			:				.	.			-			☐	

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