

DAILY SCIENCE LOG BOOK

Log also
contains
2014-08

2014-51
Linga Flostrand
3 Aug - 18 Aug
Night pelagic ecosystem
survey
WCU

MISSION
NUMBER

2014 - 51
2014 - 08

DATE:

VESSEL:

PROJECT(S):

From:

to:

W.E. RICHER

LINGA FLORSTAD

JULY 22 - AUG 15

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

WaterProperties.ca

Captain: Bryan Kennel
Second Officer: Ryan
Fishing Master: Brian West

Bryan Pennel

Captain:
Second Officer:

Second Officer: Ryan
Fishing Master: Brown West

Mission Participants / Agencies: DFO

05

Scientific Personnel:

Chief Scientist:

[illegible]

Second leg of Mission:

Chief Scientist:

[illegible]

Data logging computer:

Data acquisition program:

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

Primary CTD

Make: _____ model: _____ serial number: _____

Primary temperature serial number: 2710

Primary conductivity serial number: 2128

Secondary temperature serial number:

Secondary conductivity serial number:

Transmissometer:	Model:

Fluorometer: Model	Cable gain:
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Oxygen sensor: _____ Model: _____

PAR sensor:	Model:
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Other sensors: 0H SBE 8-T 1200m, 1/W 9004

Other sensors: WET Labs ECO-AFL / FL

Other sensors:

Other sensors:

Secondary CTD

Make: _____ model: _____ serial number: _____

Primary temperature serial number:

Primary conductivity serial number:

Secondary temperature serial number:

Secondary conductivity serial number:

Transmissometer:	Model:

Fluorometer: Model _____ Cable gain: _____

Oxygen sensor: _____ Model: _____

PAR sensor:	Model:
PAR sensor:	Model:

Other sensors:

Other sensors:

Other sensors:

Other sensors:

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

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Month <u>AUGUST</u>				Year <u>2014</u>			Ship <u>RICKER</u>				Cruise ID <u>2014-51</u>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
6		3:02	BE	CTD		1	48° 42' 164	125° 51' 146	70				SS/SR	No	soak time 1 min No trans fluid
		3:04	BO				48° 42' 172	125° 51' 163		65					
		3:05	EN				48° 42' 180	125° 51' 179							
6		0314	BO	NET		2	48° 42' 180	125° 51' 175							
6		1235	BE	CTD		3	48° 52' 467	126° 25' 862	170	165		-	SR	YES	
		1239	BO				48° 52' 435	126° 25' 853							
		1242	EN				48° 52' 414	126° 25' 825							
6		1252	BO	NET		4	48° 52' 368	126° 25' 830	170	165		-	SR		
7		1151	BE	CTD		5	49° 41' 173	127° 6' 970	100	95		-	SR	✓	
		1153	BO				49° 41' 215	127° 6' 982							
		1155	EN				49° 41' 225	127° 6' 989							
7		1205	BO	NET		6	49° 41' 285	127° 7' 007	100	85			SR		

Cast Type:

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

USW = Sea Water Loop

MOR = Mooring
NET = Plankton Net Haul
DRF = Drifter

Bottle Firing Method:

US = Up / Stop
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Notes:

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

Produced by the Water Properties Group, IOS

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Version: 16 April 2010

Change pH sensor after event #2

This page is for any notes or observations

old = 0351 (29 May 2012, 4.5412, 2.4967)

new = 0352 (21 Apr. 2011, 4.6009, 2.5060)

Trans / Fluoro fluid found, will be used event #3 onwards.

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Month				Year			Ship				Cruise ID				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
8		02:49	BE	CTD		7	50° 2.821	128° 15.361	1227		1	1	SS	✓	Salinity taken @ 50m
		03:00	BO				50° 2.801	128° 15.448		510					
		3:11	EN				50° 2.768	128° 15.577							
8		0330	BO	NET		8	50 2.827	128 15.859	1227	250			SS		
8		11:42	BE	CTD		9	50° 19.154'	128° 15.54s	213				SS	✓	
		11:47	BO				50° 19.172	128° 15.487		205					
		11:50	EN				50° 19.199	128° 15.419							
8		11:50	BE	NET		10	50 19.199	128 15.419							
9		2:20	BE	CTD		11	50° 35.632	128° 23.419	86				SS	-	
		2:22	BO				50° 35.632	128° 23.393		80					
		2:24	EN				50° 35.632	128° 23.402							
9		0236	BO	NET		12	50 35.655	128 23.321	86	80					
9		1204	BE	CTD		13	50 13.305	128 13.586	926	500	2 (night)	1	SH/hut	✓	Sal at 490m
		1215	BO				50 13.682	128 13.687			be bubbled				
		1228	EN				50 13.550	128 13.747			"3")				

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Notes:

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Month <u>August</u>				Year <u>2014</u>			Ship <u>R/V Fisher</u>				Cruise ID <u>2014-51</u>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. - Cleaned	Comments
							Latitude	Longitude							
9		1244	BO	NET		14	50 13.388	128 13.804	926	250			SM		
10		236	BE	CTD		15	49 57.529	127 24.877	61	50			SS, SR	—	
10		237	BO				49 57.538	127 24.926							
		239	EN	CTD			49 57.546	127 24.972							
10		0254	BO	NET		16	49 57.612	127 25.319	58	50					
10		1206	BE	CTD		17	49 46.953	127 23.738	85	80	—	—	SM	✓	
		1207	BO				49 47.005	127 23.732							
		1209	EN				49 47.003	127 23.723							
10		1218	BO	NET		18	49 47.003	127 23.723	85	80			SM		
11		2:30	BE	CTD		19	49° 40.921	127° 24.424	159	155	—	—	SS	✓	
		2:33	BO				49° 40.916	127° 24.452							
		2:36	EN				49° 40.912	127° 24.480							
11			BO	NET		20	49° 40.96	127° 24.61	160	150					

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Month <u>08</u>		Year <u>2014</u>				Ship <u>WEP</u>				Cruise ID <u>2014-51</u>					
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
11		11:57	BE	CTD		21	49° 25.559	126° 58.259	129				SS	✓	
		11:59	BO				49° 25.552	126° 58.276		120					
		12:01	EN				49° 25.541	126° 58.288							
11		12:13	BO	Net		22	49° 25.51	126° 58.30		115					
12		02:31	BE	CTD		23	49° 14.311	126° 59.454	183				SS	✓	
		02:34	BO				49° 14.300	126° 59.467		170					
		02:39	EN				49° 14.314	126° 59.508							
		02:51	BO	NET		24	49° 14.36	126° 59.65	181						
12		11:37	BO	CTD		25	49° 08.62	126° 25.27	100				H.M.	✓	T: 14.10 S: 31.84
		11:39	BO				49° 08.63	126° 25.36		90					@ SURFACE
		11:41	EN				49° 08.63	126° 25.40							
		11:50		NET		26	49° 08.65	126° 25.50		90					

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Month <u>08</u>		Year <u>2014</u>		Ship <u>WER</u>		Cruise ID <u>2014-51</u>									
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
13		02:21		CTD		27	48° 47.251	126° 08.465	120				SS	✓	Surface temp 14.5711
		02:23					48° 47.260	126° 08.490		110					
		02:25					48° 47.262	126° 08.496							
13		02:41		Net		28	48° 47.33	126° 08.62		105					
13	29	1138	BE	CTD		29	48° 37.10	125° 43.60	57		—		H.M.	✓	T: 13.34 S: 31.65
		1139	BO				48° 37.10	125° 43.60		50					
		1140	EN				48° 37.10	125° 43.61							
13		1152	BO	NET		30	48° 37.04	125° 43.68		50					
14	31	0259	BE	CTD		31	48° 25.00	125° 52.04	145				H.M.	✓	T: 13.53 S: 31.09
		0302	BO				48° 24.98	125° 52.04		135					
		0304	EN				48° 24.98	125° 52.04							
		0318	BO	NET		32	48° 25.02	125° 52.05							

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
14	33	1244	BC	CTD		33	48° 42.34	125° 25.58	107				H.M.	✓	T: 11.95 S: 30.94
		1246	BO				48° 42.35	125° 25.59		95					
		1248	EN				48° 42.35	125° 25.61							
		1259	BO	NET		34	48° 42.36	125° 25.07		95					BONGO
14	35	0231	BC	CTD		35	48° 47.75	125° 34.23	87				H.M.	✓	T: 13.65 S: 30.77
		0233	BO				48° 47.76	125° 34.25		80					
		0235	EN				48° 47.76	125° 34.25							
		0243													
			BO			36	48° 47.80	125° 34.30		80					BONGO
15	37	0920	BC	CTD		37	48° 35.84	124° 52.55	58				H.M.	✓	T: 11.23 S: 31.36
		0921	BO				48° 35.83	124° 52.55		50					
		0922	EN				48° 35.84	124° 52.56							
		0934	BO			38	48° 35.84	124° 52.69							BONGO
							END OF CRUISE								

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