Captain: Brian Pennell Trawl Officer: Pete Sloan
Second Officer: Brian Third Officer:
Fishing Master: Brad West

Mission Participants / Agencies: DFO

Scientific Personnel: Chief Scientist:

Name	Watch	Cabin	Name	Watch	Cabin

Second leg of Mission: Chief Scientist:

Name	Watch	Cabin	Name	Watch	Cabin

Data logging computer:
Data acquisition program:
CTD deck unit make: model: serial number:

Primary CTD
Make: model: serial number:
Primary temperature serial number: 2740
Primary conductivity serial number: 1125
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: pH SBE 18-1 WDm CR400+3 s/n: 180851 P, S or NO pump?
Other sensors: WET Labs Cst AFL etc s/n: 2215 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
BONGO TSK Flowmeter serial # 7377
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?

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

CTD, Bongo log book

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Page 1 of _____

Month July **Year** 2014 **Ship** Ricker **Cruise ID** 2014 - 08

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information: Latitude	Positional Information: Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
22	1	04:08	BE	CTD		1	48°.13.123 N	123°.55420W	74		—	—	JB+TF	×	test cast for
		04.10	BO				48.13.122 N	123°.55.415 W		66					acoustic calibration
		04:11	EN				48°.13.121 N	123°.55.414 W							
25	2			Fishing NET		2									
25	3	17:00	BE	CTD		3	48 03.406	125° 35.977	210		—	—	JB+TF	×	didn't start archiving until 180m down
		17:04	BO				48° 02.443	125° 35.975		195					
		17:08	EN				48° 03.476	125° 35.972							
25	4	1015	BE	BONGO	VNH	4	48° 03.3	125° 35.9	237			1	JB+TF		didn't get all lat + longs for BE BO, EN
			BO							225					calm weather ship did not move much
			BN												
25	5	20:40	BE	CTD		5	48° 14.171	125° 02.174	295		—		TF+JB		
		20.46	BO				48° 14 214	125° 02.023		285					
		20:52	BN				48 14. 208	125 01. 925							
25	6	21:01	BE	BONGO	VNH	6	48°	125°	313			1	TF+SS		missed lat + long
		21:09	BO				48° 14.255	125° 1.785		290					
		21:14	BN				48° 14.265	125° 1.773	318						

Cast Type:
BOT = Bottle cast, no CTD
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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
UN = Up / No stop
DN = Down / No stop

Time Code:
BE = Beginning Time of Cast
BO = Bottom Time of Cast
EN = End Time of Cast
DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

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

Notes: _____

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WaterProperties.ca
Version: 16 April 2010

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Ocean Sciences Division, Institute of Ocean Sciences

Month July **Year** 2014 **Ship** Kulleet **Cruise ID** 2014-03

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information: Latitude	Positional Information: Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
25	7			Rosette		7			170				JB		
26	8	02:20	BE	CTD		8	48° 08.794	125° 37.946		166			TF		
		02:25	BO				48° 08.758	125° 37.920							
		02:28	EN				48° 08.758	125° 37.938							
26	9	02:36	BE	Rosette	VMF	9	48° 08.803	125° 38.161	165			1	TF+SS		
		02:39	BO				48° 08.746	125° 38.039		150					
		02:42	EN				48° 08.58	125° messed up!							
26	10			fishing net		10							JB		
26	11	17:21	BE	CTD			48 25.748	125 04 465	106				TF+JB		started logging before 1 minute started
		17:24	BO				48 25.757	125 04.495		90					
		17.26	EN				48 25.765	125 04.504							
26	12	17:31	BE	Rosette	VMF	12	48° 25.814	125° 4.493	106				TF+SS		
		17:35	BO				48° 25.829	125° 4.484		90					
		17:36	EN				48° 25.835	125° 4.474							
26	13			Fishing net											
26	14	23:32	BE	CTD		14	48 25.787	125 22.870	159				TF		
		23:35	BO				48 25.768	125 22.542		150					
		23:38	EN				48 25.764	125 22.837							

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Notes:

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Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 16 April 2010

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month | **Year** | **Ship** | **Cruise ID** 2014-08

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information: Latitude	Positional Information: Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
26	15	23:44	BE	BONGO	VNH	15	48	125	159				TF+SS		TF+SS
		23:49	BO				48°25.766	125° 22.892		150					
		23:51	EN				48°	125°							
	16			fishing net		16									herring!
27	17	20:21	BE	CTD		17	48 37.700	125 06.209	86				TF+SS		started trawl early
		20:25	BO				48 37.763	125° 06.197		75					
		20:28	EN				48 37.778	125 06.190							
27	18	20:35	DE	BONGO	VNH	18	48° 37887	125° 6.249	85				TF+SS		
		20:37	BO				48° 37.908	125° 6.268		70					
		20:39	EN				48° 37.932	125° 6.289							
29	22	17:32	BE	CTD		22	48 24.648	126 3.587	188				CW+SS		P✓ A✓
		17:35	BO				48 24.582	126 3.58		184					
		17:38	EN				48 24.533	126 3.547							
29	23	17:43	BE	Bongo V:	VH	23	48°24.392	126° 3.521	193				CW+SS		Flowmeter
		17:49	BO				48° 24.304	126° 3.506		185					
		17:53	EN				48° 24.232	126° 3.479							
	24			Fish net											

Fish 19, 20, 21 west of Langara

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

Notes: _____

This page is for any notes or observations

meter in events #23, #26, #28 for Bongo

		CHANGES FROM	TO	
#23	Initial	08599	08599	> 1801
185m	Final	15,400	10,400	
#26	Initial	15401	10,401	> 567
50m	Final	15968	10,968	
#28	Initial	15700	10,700	> 600
45m		11,100	11,100	

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month July **Year** 2014 **Ship** Rudder **Cruise ID** 2014-18

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information: Latitude	Positional Information: Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
29	25	21:39	BE	CTD		25	48 [illegible]	125 [illegible]	61				CW, SS		
		21:40	BO				[illegible]	[illegible] 906		50					
		21:42	EN				[illegible]	[illegible] 915							
29	26	21:47	BE	Bongo	VH	26	37.686	44.018	56						
		21:49	BO				37.674	44.070		50			CW, SS		
		21:51	EN				37.668	44.119							
30	27	15:51	BE	CTD		27	48° 48.516	125 50.417	56						
		15:52	BO				48° 48.508	125° 50.432		49			SS, CW		
		15:54	EN				48° 48.545	125° 50.458							
30	28	16:00	BE	Bongo	VH	28	48° 48.619	125° 50.525	56				SS, CW		depth by sounder is 54m → add 6 for total of 60m
		16:02	BO				48° 48.640	125° 50 540		45					
		16:03	EN				48° 48.655	125° 50. 549							
30	30	01.37.28	BE	CTD		30	48° 47.160	126° 13.246	151				SS, CW		
		01:40.38	BO				48° 47 125	126° 13.284		145					
		01:43:	EN				48° 47.096	126° 13.292							
30	31	01:49	BE	Bongo	VH	31	48° 47.090	126° 13.354	151				SS, CW		
		01:54	BO				48° 47.125	126° 13.409		145					
		01:58	EN				48° 47.148	126° 13.462							

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Time Code:
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EN = End Time of Cast
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Transmissometer to be cleaned before each cast, do not use Ammonia products

Notes: _____

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month July **Year** 2014 **Ship** Parker **Cruise ID** 2014-08

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information: Latitude	Positional Information: Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
31	32			fishing		32									
31	33	17:12	BE	CTD		33	48° 59.470	125° 54.330	50				SS CW		
		17:13	BO				48° 59.473	125° 54.319	-	43.7					
		17:14	EN				48° 59.479	125° 54.299							
31	34	17:19	BE	Bird	VH	34	48° 59.501	125° 54.212	50				SS CW		
		17:21	BO				48° 59.505	125° 54.187		45					
		17:22	EN				48° 59.508	125° 54.169							
31	35			fishing		35									
31	36	21:40	BE	CTD		36	48 54.082	126 31.424	210			w/ss			
		21:45	BO				48 54.090	126 31.451		205					
		21:49	EN				48 54.098	126 31.494							
31	37	21:54	BE	Bird		37	48 54.135	126 31.570	230						
		22:01	BO				48 54.212	126 31.622		220		w/ss			
		22:05	EN				48 54.267	126 31.670							

Cast Type:
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Time Code:
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Notes: Transmissometer to be cleaned before each cast, do not use Ammonia pro

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month AUGUST **Year** 2014 **Ship** RICKER **Cruise ID** 2014-08

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
1	38	02:09	BE	CTD		38	49 09.77	126 21.774	85						
		02:11	BO				49 09.78	126 21.71		80			CW		
		02:12	EN				49 09.78	126 21.724							
1	39	02:19	BE	BONGO	VH	39	49 9.808	126 21.772	85				CW SS		
		02:21	BO				49 9.820	126 21.812		80					
		02:	EN				49 9.833	126 21.862							
1	40	fishing													
1	41	17:04	BE	CTD		41	49 6.444	126 51.570	205				JB		Salts taken
		17.07	BO				49 6.426	126 51.572		190					10 mab
		17.13	EN				49 6.414	126 51.610							
1	42	17:20	BE	BONGO	VH	42	49 6.378	126 51.649	207				SS+CW		
		17:26	BO				49 6.365	126 51.689		190					
		17:29	EN				49 6.350	126 51.717							

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UN = Up / No stop
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EN = End Time of Cast
DE = Deployment Time
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Notes: _____

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

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month August **Year** 2014 **Ship** Rieker **Cruise ID** 2014-08

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information: Latitude	Positional Information: Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
1	43		Leaving			43									
1	44	22:21	BE	CTD		44	49 16.891	126 39.550	112						
		22:26	BO				49 16.866	126 39.541		107	002		SS, CW		Salts + 8ml
		22:29	EN				49 16.865	126 39.678							
1	45	22:38	BE	Bongo	VH	45	49 16.848	126 39.835	113						
		22:42	BO				49 16.888	126 39.943		108					
		22:44	EN				49 16.924	126 39.996							

Cast Type:
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Notes: Transmissometer to be cleaned before each cast, do not use Ammonia produ