

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2014-26

DATE:

From: 15 SEP 2014

to: 06 OCT 2014

VESSEL:

W.E. RICKER

PROJECT(S):

NEVILLE / Strait of Georgia Juvenile
Salmon

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

WaterProperties.ca

Note: Fish samples collected on this survey will be catalogued with the survey number
SOG 2014-11. (Neville)

DAILY SCIENCE LOG

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Month SEPTEMBER			Year 2014			Ship W.E. RICKER				Cruise ID 2014-26					
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							
17	Set 1	14.14	BE	SET		001	48°55.38	123°41.31	111						TRAWL - SURFACE
17	Set 2	15.06	BE	CTD	—	002	48°57.061'	123°42.314'	87.1		—	—	SE	✓	T: S:
		15.08	BO				48°57.035'	123°42.250'		80.0					
		15.10	EN				48°57.061'	123°42.284'							
17		15.20	BE	NET		003	48°56.65	123°41.31	90.0	80.0					BONGO
17	✓	15.40	BE	SET		004	48°57.70	123°43.11	81						TRAWL
17	Set 3	19.15	BE	SET		005	48°43.466	123°32.223	93.3						TRAWL
17	Set 4	19.43	BE	CTD	—	006	48°42.634	123°30.847	76.6				SE		T: S:
		19.46	BO				48°42.640	123°30.833		70					
		19.48	EN				48°42.644	123°30.818							freedrift at 19.51
17		20.47	BE	NET		007	48°43.41	123°30.99	60	50					BONGO
17	✓	21.15	BE	SET		008	48°43.704	123°31.603	63.1						TRAWL
17	Set 5	22.01	BE	SET		009	48°42.701	123°27.681	62.1						TRAWL
17	Set 6	22.42	BE	SET		010	48°44.108	123°24.433	65.4						TRAWL
17	Set 7	23.24	BE	SET		011	48°45.371	123°22.032	54.2						TRAWL

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

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 & Fluorometer are to be cleaned before each cast

Notes: first cast at 7.57 but surface stopped archiving before pump was off
recast at 8.06

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This page is for any notes or observations

→ Fire drill at 2000UTC

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Month		Year		Ship		Cruise ID									
SEPTEMBER		2014		W.E. RICKER		2014-26									
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							
18	Set 8	01:13	BE	SET		012	48° 53.998	123° 18.901	132						TRAWL
18		01:52	BE	CTD		013	48° 55.439	123° 22.214	163				SE		the range on the screen 100m can not go below
		01:56	BO				48° 55.440	123° 22.213		153					Short snap, going slowly
		01:59	EN				48° 55.468	123° 22.241							
18	V	02:06	BE	NET		014	48° 55.472	123° 22.244	159	150					BONGO end of the 12th set (1st time)
END OF DAY															
18	Set 9	14:06	BE	SET		015	50° 00.35'	125° 06.97'	173						TRAWL - SURFACE
18	Set 10	14:46	BE	CTD		016	50° 2.424'	125° 8.482'	182				SE	V	Started analysis in 20m depth (some scattering halos from 100m to 200m)
		14:49	BO				50° 2.455'	125° 8.494'		181					
		14:54	EN				50° 2.443'	125° 8.518'							
		15:02	BE	NET		017	50° 2.441'	125° 8.520'	188	150					BONGO
	V	15:27	BE	SET		018	50° 03.41'	125° 08.776'	180						TRAWL
18	Set 11	16:18	BE	SET		019	50° 07.33'	125° 07.45'	196						TRAWL
18	Set 12	17:07	BE	SET		020	50° 09.35'	125° 01.80'	281						TRAWL
	cont'd on next page														

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Time Code:

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Transmissometer & Fluorometer are to be cleaned before each cast

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Notes:

⊗ Set 10: Start archiving data command sent at ~20m on downcast.

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Month SEPTEMBER				Year 2014			Ship WE RICKER				Cruise ID 2014-26				
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							
18	Set 12	17.46	BE	CTD		021	50°10.871	124°59.821	571				SE		T: S:
		17.51	BO				50°10.946	124°59.788		250					
		17.56	EN				50°10.84	124°59.766							
18	↓	18.03	BE	NET	DE	022	50°10.92	124°59.67	588	150					BONGO
18	Set 13	18.27	BE	SET		023	50°12.29	125°00.25	507						TRAWL
18	Set 14	19.20	BE	SET		024	50°15.726	125°00.640	505						TRAWL
18	Set 15	20.10	BE	SET		025	50°18.751	125°04.800	351						TRAWL
18	Set 16	21.17	BE	SET		026	50°25.55	125°04.621	656						TRAWL
18	Set 17	23.06	BE	SET		027	50°29.274	125°02.805	653						TRAWL
18	Set 18	23.02	BE	SET		028	50°33.589	124°56.684	649						TRAWL
18	Set 19	23.45	BE	SET		029	50°36.138	124°53.426	632						TRAWL
19		00.43	BE	CTD		030	50°36.680	124°53.474	628				SE		T: S:
		00.48	BO				50°36.637	124°53.501		250					
		00.53	EN				50°36.610	124°53.510							
19	↓	01.00	BE	NET	DE	031	50°36.600	124°53.518	628	150					sample split into 2 bottles BONGO

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Time Code:

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Transmissometer & Fluorometer are to be cleaned before each cast

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Notes:

Set 12: CTD consecutive number originally 0020, updated to 0021

Set 19: CTD consecutive number originally 0029, ~~only~~ updated to 0030.

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Month <u>SEPTEMBER</u>			Year <u>2014</u>			Ship <u>WE RICKER</u>				Cruise ID <u>2014-26</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							
19	Set 20	14:06	BE	SET		032	50°19.21	125°01.48	195						TRAWL
19		14:43	BE	CTD		033	50°20.730	124°59.002	441.9				SE		T:14.988 S:24.28
		14:47	BO		BE		50°20.743	124°59.006		250					
		14:52	EN				50°20.761	124°58.991							
19	✓	14:58	BE	NET		034	50°20.764	124°58.987	442	150					BONGO
19	Set 21	15:27	BE	SET		035	50°19.43	124°57.20	417						TRAWL
19	Set 22	16:11	BE	SET		036	50°18.39	124°52.75	506						TRAWL
19	Set 23	17:40	BE	SET		037	50°20.80	124°45.08	505						TRAWL
19		18:18	BE	CTD		038	50°21.487	124°42.548	501				SE		T:14.2 S:25.3
		18:24	BO				50°21.468	124°42.590		250					
		18:28	EN				50°21.458	124°42.625							
19	✓	18:34	BE	NET		039	50°21.459	124°42.631	501	150					BONGO
19	Set 24	19:23	BE	SET		040	50°18.729	124°43.308	387						TRAWL
19	Set 25	20:11	BE	SET		041	50°16.850	124°38.854	717						TRAWL

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Time Code:

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Transmissometer & Fluorometer are to be cleaned before each cast

Notes: _____

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Month SEPTEMBER				Year 2014			Ship WE RICKER				Cruise ID 2014-26				
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							
19	Set 26	21:03	BE	SET		042	50°12.330'	124°37.921'	708						TRAWL
19	Set 27	22:06	BE	SET		043	50°09.032'	124°43.829'	552						TRAWL
19	Set 28	22:50	BE	SET		044	50°06.902'	124°47.414'	493						TRAWL
19	Set 29	23:42	BE	SET		045	50°03.268'	124°52.398'	466						TRAWL
	↓														
20		00:41	BE	CTD		046	50°1.728'	124°53.893'	274				SE		T:16.6 S:27.3
		00:45	BO				50°1.686'	124°53.942'		250					
		00:50	EN				50°1.631'	124°53.976'							
20	↓	00:56	BE	NET		047	50°1.625'	124°53.980'	277	150					BONGO
END OF DAY															
SHIP MAIN ENGINE BREAK DOWN, RETURNING TO PBS															
28	Set 30	1529	BE	SET		048	49°29.581'	124°03.186'	150						TRAWL - SURFACE
28	Set 31	1627	BE	CTD		049	49°33.401'	124°05.004'	212				MT	✓	T: S:
	↓	1630	BO				49°33.397'	124°05.027'		202					
		1634	EN				49°33.392'	124°05.044'							
28	↓	1644	BE	NET		050	49°33.409'	124°05.174'	209	150					BONGO

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Month SEPTEMBER				Year 2014			Ship WE RICKER				Cruise ID 2014-26				
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							
28	Set 31	1702	BE	SET		051	49°34.06	124°05.63	267						TRAWL-30m
	AT ANCHOR FOR 6 HOURS TO REPAIR EXHAUST LEAK														
28	Set 32	2330	BE	SET		052	49°36.268	124°06.256	267						TRAWL-SURFACE
29	Set 33	0046	BE	SET		053	49°39.380	124°13.344	304						TRAWL-15m
29		0139	BE	CTD		054	49°41.929	124°14.918	240				CR/MT		T16.5 S:26.5
		0143	BO				49°41.930	124°14.921		230					
		0148	EN				49°41.942	124°14.960							
29	↓	0156	BE	NET		055	49°41.959	124°15.037	243	150					BONGO
=END OF DAY															
29	Set 34	1412	BE	SET		056	49°45.97	124°10.77	314						TRAWL-SURFACE
29	Set 35	1507	BE	SET		057	49°43.65	124°16.796	not recorded.						TRAWL-SURFACE
29	Set 36	1608	BE	SET		058	49°45.33	124°23.74	143						TRAWL-15m

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Bottle Firing Method:

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Notes:

Time Code:

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Transmissometer & Fluorometer are to be cleaned before each cast

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→ Set 33. Fluctuating bottom depth due to position on ridge
Depth fluctuated from header information to actual CTD cast.

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Month SEPTEMBER				Year 2014			Ship WE RICKER				Cruise ID 2014-26				
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							
29	Set 37	1712	BE	SET		059	49°45.20	124°29.98	200						TRAWL-30m
29		1808	BE	CTD		060	49°46.661	124°33.389	295				CR		T: 15.03 S: 27.4
		1813	BO				49°46.663	124°33.322		280					
		1818	EN				49°46.670	124°33.286							
29	↓	1824	BE	NET		061	49°46.691	124°33.247	311	150					BONGO
29	Set 38	1847	BE	SET		062	49°47.55	124°34.43	305						TRAWL-SURFACE
29	Set 39	2007	BE	SET		063	49°52.509	124°41.550	146						TRAWL-SURFACE
29	Set 40	2058	BE	SET		064	49°51.746	124°47.630	170						TRAWL-15m
29	Set 41	2151	BE	SET		065	49°52.813	124°52.748	259						TRAWL-30m
29		2304	BE	CTD		066	49°54.518	124°54.661	231				CR		T: 15.2 S: 27.7
		2308	BO				49°54.542	124°54.608		220					
		2314	EN				49°54.528	124°54.540							
29	↓	2321	BE	NET		067	49°54.517	124°54.441	236	150					BONGO-VISIT

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Transmissometer & Fluorometer are to be cleaned before each cast

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Notes:

→ SET 37; CTD 060 → Started archiving during calibration, missed the 250 max
note, went to 280.

→ Set 44: Archiving at 30m

Set 44 Bongo: Net became tangled — flowmeter side not wrapped over bongo frame. Non-flowmeter side not retained.
Flowmeter side rinsed well and sampled.

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Month SEPT/OCT				Year 2014				Ship WE RICKER				Cruise ID 2014-26			
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							
30	SET47	1911	BE	NET		077	49°49.731	125°00.202	87	77			CR		Bongo - UNH
30	Set 48	1928	BE	SET		078	49°48.833	124°59.426	67						TRAWL-SURFACE
30	Set 49	2120	BE	SET		079	49°47.226	124°54.395	91						TRAWL-15m
30	Set 50	2203	BE	SET		080	49°49.082	124°53.070	280						TRAWL-60m
30	Set 51	2323	BE	SET		081	49°49.219	124°45.255	209						TRAWL-15m
= END OF DAY [CREW CHANGE @ COMOX]															
01	Set 52	1407	BE	SET		082	49°07.63	123°36.00	205						TRAWL-SURFACE
	↓	1458	BE	CTD		083	49°06.139	123°31.661	300				CR		T: 14.2 S: 25.9
		1503	BO				49°06.110	123°31.700		250					
		1507	EN				49°06.076	123°31.754							
		1518	BE	NET		084	49°06.021	123°31.836	292	150					Bongo - UNH
01	SET53	1540	BE	SET		085	49°05.45	123°31.49	310						TRAWL-30m
01	SET54	1653	BE	SET		086	49°09.86	123°30.75	277						TRAWL-60m

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Set 52 (NET) - BONGO cod ends very full. Spill over into buckets was included in samples

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Month <u>October</u>		Year <u>2014</u>		Ship <u>W.E. Ricker</u>		Cruise ID <u>2014-26</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							
01	SET55	1817	BE	SET		087	49°07.21	123°19.42	93						TRAWL-SURFACE
	↓	1905	BE	CTD		088	49°10.012	123°18.611	108				CR		T: 11.6 S: 28.4
		1907	BO				49°9.995	123°18.582		98					
		1909	EN				49°9.973	123°18.534							
	↓	1916	BE	NET		089	49°09.886	123°18.450	102	92					BONGO
01	SET56	1935	BE	SET		090	49°09.875	123°18.352	96						TRAWL-SURFACE
01	SET57	2029	BE	SET		091	49°12.288	123°18.284	102						TRAWL-15m
01	SET58	2216	BE	SET		092	49°22.022	123°26.332							TRAWL-30m
02	SET59	2322	BE	SET		093	49°25.088	123°25.557	182						TRAWL-SURFACE
	↓	0005	BE	CTD		094	49°25.290	123°22.158	246				CR		T: 15.4 S: 24.3
		0009	BO				49°25.274	123°22.174		236					
		0014	EN				49°25.266	123°22.188							
	↓	0022	BE	NET		095	49°25.243	123°22.227	245	150					BONGO
02	SET60	—	BE	SET		096	—	—							TRAWL-15m

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Transmissometer & Fluorometer are to be cleaned before each cast

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OF
DAY

This page is for any notes or observations

Set 60: Trawl aborted due to trawl eye malfunction.

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Month OCTOBER				Year 2014				Ship WERICKER				Cruise ID 2014-26			
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							
02	Set 61	1408	BE	SET		097	49°24.85	123°17.68	239						TRAWL - 15m
02	Set 62	1508	BE	SET		098	49°21.91	123°18.95	225	(End depth)					TRAWL - Surface
02	Set 63	1555	BE	SET		099	49°18.72	123°22.24	243						TRAWL - Surface
	↓	1649	BE	CTD		100	49°16.808	123°25.792	148				CR		T:13.9 S:22.0
		1652	BD				49°16.819	123°25.801		138					
		1654	EN				49°16.830	123°25.790							
		↓	1704	BE	NET		101	49°16.862	123°25.823	148	138				Bongo - VNH
02	Set 64	1725	BE	SET		102	49°15.48	123°27.27	245						TRAWL - 30m
02	Set 65	1825	BE	SET		103	49°13.30	123°31.41	343						TRAWL - 15m
	↓	1915	BE	CTD		104	49°11.752	123°34.312	346				CR		T:14.7 S:25.0
		1920	BD				49°11.759	123°34.272		250					
		1925	EN				49°11.765	123°34.214							
		↓	1933	BE	NET		105	49°11.78	123°34.113	245	150				Bongo - VNH

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
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 & Fluorometer are to be cleaned before each cast

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 7 July 2014

Notes:

Set 61: Complete area that was to have been covered by Set 60.

Set 63: ^{CG} Hovercraft came along side during tow to pick up fire pump parts for repair.

Set 65: Archiving ^{started} at 20m. Header states 360m, by deployment depth = 346.
Large sample resulted in overflow into bucket. Contents put through 0.25mm sieve and included in preserved sample.
Also contents for frozen sample processed with 0.5, 1.7, 1.0 and 0.25mm sieve and added to sample.

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Month <u>October</u>		Year <u>2014</u>		Ship <u>W.E. Ricker</u>		Cruise ID <u>2014-26</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							
02	SET66	1952	BE	SET		106	49°11.519	123°35.590	383						TRAWL-SURFACE
02	SET67	2048	BE	SET		107	49°10.596	123°40.024	211						TRAWL-60m
02	SET68	2146	BE	SET		108	49°12.600	123°45.128	152						TRAWL-15m
02	SET69	2244	BE	SET		109	49°14.560	123°47.625	371						TRAWL-15m
		2337	BE	CTD		110	49°16.414	123°42.966	348				CR		T: 15.1 S: 26.3
		2342	BO				49°16.412	123°42.912		250					
		2346	EN				49°16.411	123°42.767							
	↓	2353	BE	NET		111	49°16.423	123°42.576	325	150					Bongo-VNH
03	Set70	0038	BE	SET		112	49°17.018	123°41.497	320						TRAWL-45m
= END OF DAY															
03	Set71	1404	BE	SET		113	48°50.67	123°10.81	171						TRAWL-Surface
03	Set72	1504	BE	SET		114	48°52.018	123°07.786	137						TRAWL-30m
	↓ continued														

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
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 & Fluorometer are to be cleaned before each cast

Produced by the Water Properties Group, IOS

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Notes:

Set 69 - lat/long recorded at 120m $\rightarrow$ (last two digits of the seconds recorded at 120)

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Month <u>October</u>		Year <u>2014</u>		Ship <u>W.E. Ricker</u>		Cruise ID <u>2014-26</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							
03	Set 72	1606	BE	CTD		115	48°49.163	123°03.710	172				CR		T:13.5 S: 24.0
		1609	BO				48°49.196	123°03.691		162					
		1612	EN				48°49.207	123°03.702							
	✓	1621	BE	NET		116	48°49.260	123°03.699	177	150					Bongo - VNH
03	Set 73	1644	BE	SET		117	48°48.87	123°06.13	148						TRAWL-SURFACE
03	Set 74	1741	BE	SET		118	48°50.94	123°12.15	103						TRAWL-15m
03	Set 75	1856	BE	CTD		119	48°54.232	123°18.330	149				CR		T:12.9 S: 28.0
		1858	BO				48°54.265	123°18.380		139					
		1901	EN				48°54.282	123°18.433							
03		1907	BE	NET		120	48°54.361	123°18.514	149	139					Bongo-VNH
03	↓	1928	BE	SET		121	48°54.123	123°19.088	137						TRAWL-60m
03	Set 76	2024	BE	SET		122	48°55.697	123°23.826	86						TRAWL-15m
03	Set 77	2118	BE	SET		123	48°57.440	123°28.356	72						TRAWL-SURFACE

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

Transmissometer & Fluorometer are to be cleaned before each cast

Produced by the Water Properties Group, IOS

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Set 72: Vessel maneuver resulted in depth change. Handler
recorded as 200m, deployment ~ 172

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Month <u>October</u>		Year <u>2014</u>		Ship <u>W.E. Ricker</u>		Cruise ID <u>2014-26</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							
03	Set 78	2213	BE	SET		124	48°59.660	123°31.044	126						TRAWL-45m
03	Set 79	2308	BE	SET		125	49°02.532	123°34.733	153						TRAWL-SURFACE
04	↓	0028	BE	CTD		126	49°05.742	123°37.319	159				CR		T:14.5 S:25.8
		0031	BO				49°05.772	123°37.340		149					
		0033	EN				49°05.780	123°37.343							
04	↓	0041	BE	NET		127	49°05.769	123°37.289	159	149			CR		Bongo-VNH
04	Set 80	0101	BE	SET		128	49°06.583	123°37.357	186						TRAWL-30m
=END OF DAY															
04	Set 81	1404	BE	SET		129	49°43.70	124°40.57	354						TRAWL-SURFACE
	↓	1453	BE	CTD		130	49°42.103	124°44.411	189				CR		T: 12.9 S: 28.6
		1456	BO				49°42.089	124°44.447		179					
		1459	EN				49°42.074	124°44.484							
	↓	1509	BE	NET		131	49°42.054	124°44.567	190	150			CR		Bongo-VNH
04	Set 82	1530	BE	SET		132	49°42.013	124°44.315	250						TRAWL-30m

Cast Type:

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 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
 UN = Up / No stop
 DN = Down / No stop

Notes:

Time Code:

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

Transmissometer & Fluorometer are to be cleaned before each cast

Produced by the Water Properties Group, IOS

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Set 79: Header 137 → depth at deployment:

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Month			Year			Ship			Cruise ID						
OCTOBER			2014			WERICER			2014-26						
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							
04	Set 83	1636	BE	SET		133	49°39.61	124°49.63	75						TRAWL - 15m
04	Set 84	1733	BE	SET		134	49°36.50	124°46.65	82						TRAWL - SURFACE
04	Set 85	1835	BE	SET		135	49°35.73	124°41.96	124						TRAWL - 45m
04		1926	BE	CTD		136	49°38.119	124°40.454	112				CR		T: 13.2 S: 28.3
		1928	BO				49°38.126	124°40.440		102					
		1930	EN				49°38.136	124°40.400							
04	✓	1936	BE	NET		137	49°38.177	124°40.341	106	96			CR		Bongo - VNH
04	Set 86	1950	BE	SET		138	49°40.188	124°40.178	189						TRAWL - SURFACE
04	Set 87	2057	BE	SET		139	49°42.624	124°38.450	345						TRAWL - 15m
04	Set 88	2153	BE	SET		148*	49°40.027	124°33.175	256						TRAWL - SURFACE
04	Set 89	2235	BE	SET		140	49°37.626	124°28.800	335						TRAWL - SURFACE
04	Set 90	2336	BE	SET		141	49°34.911	124°23.821	216						TRAWL - 15m

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

Transmissometer & Fluorometer are to be cleaned before each cast

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This page is for any notes or observations

Set 88: Hauled back early for humpbacks, set did not receive event # until the next day.

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Month <u>October</u>				Year <u>2014</u>			Ship <u>W.E. Ricker</u>				Cruise ID <u>2014-26</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							
05	Set 91	0054	BE	SET		142	49°33.339	124°24.0	170						TRAWL-
05	↓	0147	BE	CTD		143	49°31.909	124°28.338	191				CR		T:13.9 S:27.5
		0150	BO				49°31.928	124°28.325		181					
		0153	EN				49°31.942	124°28.313							
05	↓	0201	BE	NET		144	49°31.975	124°28.293	192	150			CR		Bongo - UNH
END OF DAY															
05	Set 92	1406	BE	SET		145	49°31.20	124°28.54	184						TRAWL-SURFACE
05	↓	1457	BE	CTD		146	49°29.5-	124°32.6-	229				CR		T:13.7 S:27.9
		1501	BO				49°29.528	124°32.675		219					
		1506	EN				49°29.518	124°32.683							
05	↓	1515	BE	NET		147	49°29.500	124°32.782	226	150					Bongo - UNH
05	Set 93	1535	BE	SET		149*	49°29.147	124°34.295	162						TRAWL-SURFACE
05	Set 94	1635	BE	SET		150	49°28.33	124°39.41	118						TRAWL-15m
05	Set 95	1742	BE	SET		151	49°25.93	124°35.39	109						TRAWL-30m

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

Transmissometer & Fluorometer are to be cleaned before each cast

Produced by the Water Properties Group, IOS

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 Version: 7 July 2014

Set 92^(CTD): Did not record last two digits of lat/lon at start (BE)

Set 92 (CTD): Went to 10 twice before calibration of 1mm
Set 93: event #148 given to set 88.

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Month <u>October</u>			Year <u>2014</u>				Ship <u>W. E. Ricker</u>				Cruise ID <u>2014-26</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							
05	Set 96	1842	BE	SET		152	49°24.04	124°30.94	118						TRAWL - SURFACE
05	↓	1929	BE	CTD		153	49°22.835	124°26.713	102				CR		T:14.2 S:27.1
		1931	BO				49°22.840	124°26.698		92					
		1933	EN				49°22.848	124°26.682							
05	↓	1939	BE	NET		154	49°22.886	124°26.702	106	96			CR		Bongo - UNH
05	Set 97	2001	BE	SET		155	49°23.450	124°26.447	173						TRAWL - 60m
05	Set 98	2054	BE	SET		156	49°25.048	124°22.600	349						TRAWL - 15m
05	Set 99	—	BE	SET		157	49°25.943	124°18.045	—						TRAWL
05	Set 100	2255	BE	SET		158	49°22.300	124°15.978	292						TRAWL - 15m
	↓	2343	BE	CTD		159	49°19.922	124°14.267	137				CR		T:13.4 S:28.6
		2346	BO				49°19.944	124°14.273		127					
		2348	EN				49°19.963	124°14.274							
		2355	BE	NET		160	49°19.982	124°14.275	143	133			CR		Bongo - UNH

Cast Type:

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 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
 UN = Up / No stop
 DN = Down / No stop

Notes: _____

Time Code:

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

Transmissometer & Fluorometer are to be cleaned before each cast

Produced by the Water Properties Group, IOS

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Set #99: Set aborted due to presence of porpoises. (Fish still sampled though?)

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Month <u>October</u>				Year <u>2014</u>			Ship <u>W. E. Ricker</u>				Cruise ID <u>2014-26</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							
06	Set 101	0037	BE	SET		161	49°22.357	124°10.451	350						TRAWL-30m
END OF DAY															
06	Set 102	1424	BE	CTD		162	49°23.532	124°08.567	288				CR		T: 14.5 S: 27.1
		1428	BD				49°23.534	124°08.507		250					
		1433	EN				49°23.563	124°08.493							
06		1443	BE	NET		163	49°23.578	124°08.318	288	150			CR		
06	↓	1852	BE	SET		164	49°25.084	124°06.366	296						TRAWL-SURFACE
06	Set 103	2014	BE	SET		165	49°28.280	124°01.640	150						TRAWL-15m
06	Set 104	2113	BE	SET		166	49°26.218	123°56.393	208						TRAWL-SURFACE
06	Set 105	2222	BE	SET		167	49°23.916	123°52.292	211						TRAWL-30m
06	Set 106	2332	BE	SET		168	49°22.312	123°48.137	190						TRAWL-15m
07	Set 107	0030	BE	SET		169	49°23.857	123°43.676	167						TRAWL-SURFACE

Cast Type:

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

Transmissometer & Fluorometer are to be cleaned before each cast

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Set 102: Set delayed due to trawl eye malfunction.

Set 106: 1632-44 - notation from bridge Log

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Month OCTOBER				Year 2014			Ship WERICKER				Cruise ID 2014-26				
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							
07	Set108	0127	BE	SET		170	49°22.462	123°38.048	164						TRAWL-15m
	END OF DAY														
07	Set109	1410	BE	SET		171	49°33.97	123°15.28	243						TRAWL-SURFACE
	↓	1452	BE	CTD		172	49°36.008	123°14.327	279				CR		T: 13.6 S: 26.0
		1456	BO				49°36.019	123°14.329		250					
		1500	EN				49°36.023	123°14.334							
	↓	1509	BE	NET		173	49°36.012	123°14.368	280	150			CR		Bongo - VNH
07	Set110	1544	BE	SET		174	49°34.024	123°17.853	162						TRAWL-SURFACE
07	Set111	1634	BE	SET		175	49°31.03	123°16.33	224						TRAWL-15m
07	Set112	1721	BE	SET		176	49°28.27	123°16.66	243						TRAWL-SURFACE
07	Set113	1810	BE	SET		177	49°25.71	123°19.13	220						TRAWL-30m

Cast Type:

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 SET = Fish Set

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MOR = Mooring
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 DRF = Drifter

=

Bottle Firing Method:

US = Up / Stop
 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
 DE = Deployment Time
 MR = Messenger Release Time
 RE = Recover Mooring Time

Transmissometer & Fluorometer are to be cleaned before each cast

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Month <u>October</u>		Year <u>2014</u>		Ship <u>W.E. Ricker</u>		Cruise ID <u>2014-26</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							
07	Set 114	1943	BE	SET		178	49°22.033	123°32.745	136						TRAWL-SURFACE
		2034	BE	CTD		179	49°23.762	123°37.910	140				CR		T: 14.6 S: 26.3
		2036	BO				49°23.765	123°37.960		130					
		2039	EN				49°23.765	123°38.016							
	↓	2045	BE	NET		180	49°23.775	123°38.145	145	135			CR		Bongo - VINH
	Set 115	2129	BE	SET		181	49°19.412	123°35.670	134						TRAWL-45m
//	END OF DAY														
08	Set 116	1408	BE	SET		182	50°01.28	123°54.56	500						TRAWL-SURFACE
		1450	BE	CTD		183	50°02.359	123°51.982	540				CR		T: 14.7 S: 25.7
		1455	BO				50°02.353	123°52.024		250					
		1500	EN				50°02.335	123°51.986							
	↓	1508	BE	NET		184	50°02.296	123°51.965	541	150			CR		Bongo - VINH
08	Set 117	1602	BE	SET		185	49°57.52	123°59.14	540						TRAWL-15m
08	Set 118	1714	BE	SET		186	49°52.38	123°53.57	668						TRAWL-SURFACE

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
 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

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

Transmissometer & Fluorometer are to be cleaned before each cast

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Month <u>October</u>				Year <u>2014</u>			Ship <u>W.E. Ricker</u>				Cruise ID <u>2014-26</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							
08	Set 119	1813	BE	SET		187	49°47.96	123°57.49	665						TRAWL - 30m
08	Set 120	1957	BE	SET		188	49°50.385	124°01.343	470						TRAWL - SURFACE
	↓	1923	BE	CTD		189	49°50.868	124°01.535	486				CR		T-14.9 S-27.0
		1927	BO				49°50.903	124°01.518		250					
		1932	EN				49°50.935	124°01.495							
		1939	BE	NET		190	49°50.982	124°01.454	488	150			CR		Bongo - VNH
08	Set 121	2052	BE	SET		191	49°47.399	124°04.140	457						TRAWL - 15m
08	Set 122	2208	BE	SET		192	49°45.393	124°14.393	285						TRAWL - SURFACE
	↓	2257	BE	CTD		193	49°42.230	124°14.124	280				CR		T-14.5 S-27.0
		2301	BO				49°42.264	124°14.131		250					
		2306	EN				49°42.302	124°14.138							
		2313	BE	NET		194	49°42.340	124°14.134	278	150					Bongo - VNH
= END OF DAY															
[09-11 OCT: See log for cruise # 2014-66]															

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
 UN = Up / No stop
 DN = Down / No stop

Notes: _____

Time Code:

BE = Beginning Time of Cast
 BO = Bottom Time of Cast
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Transmissometer & Fluorometer are to be cleaned before each cast

Produced by the Water Properties Group, IOS

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Set 120: Header depth = 633, deployment depth 488 due to transit
CTD/Bongo first, then set. Consecutive numbers not changed

DAILY SCIENCE LOG

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Month OCTOBER				Year 2014			Ship WERICKER				Cruise ID 2014-26				
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							
12	Set 123	1426	BE	CTD		195	50° 26.932	125° 18.246	208				CR	✓	T-9.8 S-29.6
		1430	BO				50° 26.969	125° 18.230		198					
		1433	EN			196	50° 26.960	125° 18.204							
		1442	BE	NET		196	50° 26.954	125° 18.175	208	150			CR		BONGO
	↓	1503	BE	SET		197	50° 26.25	125° 18.556	323						TRAWL-SURFACE
12	Set 124	1550	BE	SET		198	50° 21.947	125° 21.955	208						TRAWL-15m
12	Set 125	1717	BE	SET		199	50° 19.688	125° 25.421	229						TRAWL-SURFACE
12	Set 126	1843	BE	CTD		200	50° 17.672	125° 19.925	105				CR		T-10.4 S-29.8
		1844	BO				50° 17.669	125° 19.931		95					
		1846	EN				50° 17.668	125° 19.937							
		1853	BE	NET		201	50° 17.672	125° 19.959	96	86					Bongo - JWH
	↓	1916	BE	SET		202	50° 17.288	125° 21.592	112						TRAWL-SURFACE
12	Set 127	2003	BE	SET		203	50° 14.946	125° 22.242	225						TRAWL-15m
				↓ CONTINUED											

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Notes:

Set 123- Sounder depth indicated depth as 286, however during deployment we were notified by the bridge that the charted depth was 208. To ensure safety of gear max depth of 198 was reached.

Set 126- Comm. interference with CTD interrupted at 5m. Restarted communication at 5m and continued w/ CTD. Initial data (interval 10m) 5m depth - 0199

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Month <u>October/Nov</u>				Year <u>2014</u>		Ship <u>W.E. Ricker</u>				Cruise ID <u>2014-26</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							
12	Set 127	2043	BE	CTD		204	50°13.572	125°23.014	225				CR		T-10.3 S-30.0
	↓ <i>continued</i> ↓	2047	BO				50°13.589	125°23.059		215					
		2051	EN				50°13.606	125°23.099							
		2101	BE	NET		205	50°13.651	125°23.223	194	150			CR		Bongo - VNH
= END OF SURVEY															
PUGET SOUND LEG															
05	Set 2	1730	BE	CTD		206	47°59.280N	122°38.174W	80	70			KM		T: S:
		1733	BO												No data logged
		1736	EN												
06	Set 8	0007	BE	CTD		207	47°32.113N	122°25.116W	189	175			CR		
		0009	BO				47°32.411N	122°25.108W							
		0013	EN				47°32.803N	122°25.082W							
= END OF DAY															
07	Set 9	1443	BE	CTD		208	47°29.602N	122°24.071 W	183	170			Cup		T: 12.3 S: 30
		1446	BO				47°29.520N	122°24.022 W							
		1450	EN				47°29.574N	122°23.984 W							

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Time Code:

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 Version: 7 July 2014

Notes:

* Problems with consecutive numbers on last 2 CTD casts. Set 126 CTD original consecutive number was 199. Was later updated to 200. Set 127 CTD original consecutive number was 203, later updated to 204.

PUGET SOUND LEG: The Puget Sound leg of the survey was to have been completed in late Sept/early Oct, but due to ship breakdowns, was postponed to early November.

Chief Scientist: Dave Preikshot (dave.preikshot@gmail.com) $\Rightarrow$ Fish samples labelled with cruise number 2014-14

Nov 5 Set 2: No CTD data logged

[* Info from 8 fish sets not included here.*]

Nov 6

[* Info from 8 fish sets not included here.*]

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Month		NOVEMBER		Year		2014		Ship			W.E. RICKER			Cruise ID		2014-26	
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									
06	Set 13	1842	BE	CTD		209	47° 22.742 N	122° 31.771 W	103	90			KM		No data logged		
		1844	BO				47° 22.745 N	122° 31.759 W									
		1846	EN				47° 22.754 N	122° 31.754 W									
06	Set 16	2329	BE	CTD		210	47° 57.043 N	122° 19.367 W	193	180			CR, AY				
		2333	BO				47° 57.037 N	122° 19.354 W									
		2337	EN				47° 57.035 N	122° 19.338 W									
END OF DAY																	
07	Set 17	1441	BE	CTD		211	47° 12.496 N	122° 34.356 W					AY		No data logged		
		1442	BO				47° 12.488 N	122° 34.339 W									
		1443	EN				47° 12.485 N	122° 34.338 W									
07	Set 25	2147	BE	CTD		212	47° 58.838 N	122° 19.580 W	160				CR		No data logged		
		2150	BO				47° 58.816 N	122° 19.562 W									
		2154	EN				47° 58.792 N	122° 19.549 W									
END OF SURVEY																	

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Pt Richmond

Set 13: No CTD data logged.

[*Nov 07: Info from 9 fish sets not included here.]

Set 17: No CTD data logged.

Crane Pt

Set 25: No CTD data logged.