

A+100l bottle + send to 10m → prep.  
 4m @ depth send message  
 Full Stop

trip bottle, return to surface.

# DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month <u>July</u>		CTD # <u>      </u>		Year <u>2011</u>	CTD Bottle Ser.		Ship <u>WER</u>	Grid <u>      </u>	Cruise ID <u>2011-58</u>		Sardine				
Day UTC	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Trawl Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments SST °C
							Dec. Latitude	Dec. Longitude							Sampler Name DST
Jul 21	CTD 1	0749		CTD		1	50°13.777	127°58.3148	52	40	Near grid 17	1	LAF	001 hex	UTE date GRID 17 14°C 0049 PST
Jul 21	BONGO 1			NET		2					Grid 17		JD		Bongo also taken 253
Jul 21	BONGO 2			NET		3					Grid 15		JD		Bongo 2534m
Jul 21	CTD 2	1230		CTD		4	50°17.0129	128°15.1078	750	500	Near grid 15	1	LAF	002. hex	13.7°C 0530 PST GRID 15
Jul 22	BONGO 3	0230		NET		5					Grid 11		JD		Bongo 2534m
Jul 22	CTD 3	0245		CTD		6	50°19.3682	128°21.0553	812	485	Near grid 11	1	LAF	003. hex	14.8°C July 21 1945 PST DST GRID 11
Jul 22	CTD 4	0713		CTD		7	50°34.0042	128°31.2005	183	170	Near trawl grid 2	1	LAF	004. hex	013 hrs July 22 15T DST 13.0°C / 6.1d
Jul 22	CTD 5	1100		CTD		8	50°30.9866	128°16.6766	65	50	Near trawl grid 6	1	LAF	005. hex	0400hrs July 22 DST SST=13.2°C
Jul 22	BONGO 4	1245		NET		9					grid 10	1	JD		0545hrs July 22 DST
Jul 22	CTD 6	1305		CTD		10	50°23.5545	128°04.1422	81	72	Near trawl grid 10	1	LAF	006. hex	0600hrs July 22 DST SST=14.0°C
Jul 23	CTD 7	0245		CTD		11	49°51.8605	127°57.0557	1010	500	grid 35	1	LAF	007. hex	1945hrs July 22 DST SST=14.0°C
Jul 23	BONGO 5	0306		NET		12					grid 35		JD		2534m
Jul 23	CTD 8	0826		CTD		13	49°56.068	127°31.663	65	50	near grid 32	1	LAF	008. hex	0130hrs July 23 DST SST=14.3°C
Jul 23	BONGO 6	0950		NET		14					grid 26		JD		
Jul 23	CTD 9	1011		CTD		15	50°01.771	127°39.8231	78	67	grid 26	1	LAF	009. hex	0313 July 23 DST 14°C SST
Jul 23	BONGO 7	0300		NET		16	49°58.4988	127°15.5820	173	150	Grid 34		JD		
Jul 23	CTD 10	03:25		CTD		17	49°57.745	127°16.306	164	150	Grid 34	1	JB	010. hex	20:28 July 23 DST 15°C SST
Jul 24	BONGO 8	06:53		NET		18	49°40.599	127°24.639	289	150	Grid 49		JD		23:56 July 23 DST

**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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**Time Code:**  
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Transmissometer to be cleaned before each cast, do not use Ammonia products

# DAILY SCIENCE LOG

## Ocean Sciences Division, Institute of Ocean Sciences

Month <u>July</u>			Year <u>2011</u>			Ship <u>W02 (meters)</u>			Cruise ID <u>2011-58 (Local time = DST)</u>						
Day UTC	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							
JUL24	CTD 11	07:07		CTD		19	49°40.586'	127°24.755	310	240	Grid 49	1	JB	011. hex	00:12 JUL 24 PST / Drifted to 14.5 °C SST / 245 on bottom
JUL24	CTD 12	12:25		CTD		20	49°46.378'	127°09.592	50	40	Grid 46	1	JB	012. hex	05:28 JUL 24 DST 14.4°C SST
JUL25	BON60 9	02:35		NET		21	49°31.235'	127°17.285	650	150	Grid 60	1	JD		19:56 JUL 24 DST
JUL25	CTD 13	02:54		CTD		22	49°31.150'	127°17.293	625	500	Grid 60	0	JB	013. hex	19:57 JUL 24 PST 14.7°C SST Bottle didn't trip
JUL25	CTD 14	03:24		CTD		23	49°30.914'	127°17.566	630	500	Grid 60	1	JB	014. hex	20:27 JUL 24 PST 15.1°C SST 2nd cast at sta.
JUL25	BON60 10	11:50		NET		24					Grid 64		RP		0510 July 25 DST
JUL25	CTD 15	12:30		CTD		25	49°29.5954'	126°43.3156	50	41	Grid 64	1	LAF	015. hex	05:30 July 25 DST SST = 13.8°C
JUL26	BON60 11	02:30		NET		26					Grid 70		JD		
JUL26	CTD 16	02:45		CTD		27	49°19.6135'	127°07.3554	170	150	Grid 70	1	LAF	016. hex	19:45 July 25 DST SST = 15.1°C
JUL26	BON60 12	12:40		NET		28			94		Grid 80		RP		
JUL26	*CTD 17	12:47		CTD		29	49°16.9303'	126°35.7565'	100	90	Grid 80	1	LAF	017. hex	July 26 0550 hrs SST = 15°C
<p>* Pump turned off @ 90m to prevent risk of bottom contact since 90m is questionable depth.</p>															
JUL27	CTD 18	03:03		CTD		30	49°19.631'	126°25.4509	45	30	Grid 75	1	LAF	018. hex	July 26 2005 hrs DST SST = 12.7°C NO BON60 ←
<p>— No BON60</p>															
JUL27	BON60 13	09:20		NET		31					Grid 90		JD		
JUL27	CTD 19	09:40		CTD		32	48°52.10024'	125°59.9497	153	142	Grid 90	1	LAF	019. hex	JUL 27 0240 hrs DST SST = 14.4
JUL28	BON60 14	02:35		NET		33					Grid 112				
JUL28	CTD 20	02:50		CTD		34	48°46.5841'	126°25.728'	350	335	Grid 112	1	LAF	020. hex	July 27 - 1950 hrs DST SST = 14.1°C

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Notes: \_\_\_\_\_

Produced by the Water Properties Group, IOS

WaterProperties.ca  
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Sardine Surface Trawl Survey; events 37- station of interest to Jackie King.

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Ocean Sciences Division, Institute of Ocean Sciences

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Month		Year		Ship		Cruise ID		Local time		DST					
JULY		2011		WER (meters) sardine		2011-58									
Day UTC	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth (m)	Max Depth	Sample Trawl Grid Numbers	# of Bottles	Watch Keepers	Hex Cleaned FILE	Comments Date, time (DST) SST (°C)
							Latitude	Longitude							
Jul 28	BON6015	1220		NET		35							JD		
Jul 28	CTD 21	1240		CTD		36	48°57.588'	125°41.685'	85	70	Grid 103	1	LAF	021. hex	July 28 0540 hrs DST SST=11.8°C
Jul 29	BON6016	0230		NET		37					Grid 132		JD		
Jul 29	CTD 22	0255		CTD		38	48°36.664'	126°09.97'	370	350	Grid 132	1	LAF	022. hex	July 28 1955 hrs DST SST=14.9°C
Jul 29	BON6017	1215		NET		39					Grid 118		JD		
Jul 29	CTD 23	1225		CTD		40	48°37.513'	125°25.916'	170	150	Grid 118	1	LAF	023. hex	July 29 0525 hrs DST SST=12.9°C
Jul 30	BON6018	0230		NET		41					Grid 125		JD		
Jul 30	CTD 24	0245		CTD		42	48°41.7513'	125°43.607'	140	130	Grid 125	1	LAF	024. hex	July 29 1945 hrs DST SST=14.25°C
Jul 30	CTD 25	0615		CTD		43	48°31.405'	125°36.756'	80	60	Grid 146	1	LAF	025. hex	July 29, 2315 hrs DST NO BONGO SST=13.76°C
Jul 31	BON6019	1220		NET		44					Grid 144		JD		
Jul 31	CTD 26	1230		CTD		45	48°30.643'	125°49.213'	90	76	Grid 144	1	LAF	026. hex	Jul 30 0530 hrs DST SST=13.8°C
Jul 31	BON6020	0230		NET		46					Grid 119		JD		
Jul 31	CTD 27	0245		CTD		47	48°47.708'	125°26.827'	97	80	Grid 119	1	LAF	027. hex	Jul 30, 1945 hrs DST Rebooted Computer SST=12.7°C
Jul 31	BON6021	0640		NET		48					Grid 139		JD		
Jul 31	CTD 28	0700		CTD		49	48°37.898'	125°11.310'	105	90	Grid 139	1	LAF	028. hex	July 31, 0000 hrs DST 11.7°C
Jul 31	CTD 29	1040		CTD		50	48°28.449'	125°45.053'	132	120	Grid 149	1	LAF	029. hex	Jul 31-0340 hrs DST NO BONGO SST=11.1°C
AUG 1	BON6022	0235		NET		51					Grid 137		JD		
AUG 1	CTD 30	0245		CTD		52	48°36.501'	125°26.638'	125	115	Grid 137	1	LAF	030. hex	Jul 31-1945 hrs DST SST=12.5°C

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Month July - Aug 1 Year 2011 Ship WER (meters) Cruise ID 2011-58

Day UTC	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							
AUG 1	CTD 31	0635		CTD		53	48° 41.206	125° 25.005	135	120	Grid 127	1	LAF	031 hex	2340 DST, July 31 - ~12.0°C
AUG 1	RAN 6023	0645		NET		54					Grid 127 = last survey tow		JD		LAST CTD + BONED NEAR FISHING
AUG 1	CTD 32	0840		CTD		55	48° 43.368	125° 40.925	169	150	LC4 - FOR JIKING	1	LAF	032 hex	0140 DST AUG 1 ~14.5°C
AUG 1	CTD 33	0950		CTD		56	48° 48.59	125° 31.27	113	96	LC2 - FOR JIKING	1	LAF	033 hex	0250 DST AUG 1 ~12.9°C
	X														
— END OF WER 2011-58															
SARDINE —															

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