

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month <u>JULY</u>				Year <u>2009</u>			Ship <u>WE RICKER</u>				Cruise ID <u>2009-56</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							
22	Sardine 01 ²⁰⁰	19:40		# Ros		1	49 43.7569	127 01.6753	50	40		1			Surface temp 13°C
23	Sardine 02 ²⁰⁰	02:33		WRO CTD		2	49 33.3400	127 23.0982	917	800		Ø			Surface temp 12°C
23	Sardine 03 ⁰⁹	06:56		CTD		3	49 41.0110	127 19.1906	136	125		Ø			Surface temp 14°C
						3	49 40.9707	127 19.1958	Depth	25					
23	Sardine 04	19:05		CTD Ros		4	49 55.1970	127 19.8447	56	40		1			bottle mechanism failed. Surface temp. 11°C
23	Sardine 05	19:15		CTD Ros		5	49 55.1039	127 19.9847	55	40		1			Repeated cast 4 for bottle sample. Surface temp. 11°C
24	Sardine 06	9:31 UTC		CTD		6	49 45.5650	127 47.190	760	300		Ø			
						6	49 49.5692	127 47.2287				Ø			
24	Sardine 07	13:		CTD		7	49 59.9478	127 36.6570	70	60		Ø			Surface temp. 10.5°C
24	Sardine 08	13:00		CTD Ros		8	50 27.7710	128 00.8308	50	50		1			Surface temp 11.5°C
25	Sardine 09	8:00 UTC		CTD		9	50 19.9687	128 27.1530	612	400		Ø			Surface temp 12.5°C
25	Sardine 10	12:26 UTC		CTD		10	50 22.8312	128 04.3359	76	70		Ø			Surface temp 11°C
							50 22.8278	128 04.3660							
25	Sardine 11	19:00		Ros		11	49 35.8430	126 34.8095	78	70		1			Surface temp 16°C.
26	Sardine 12	1:15		CTD		12	49 30.9465	126 47.6951	54	40		Ø			Surface temp 12°C
26	Sardine 13	12:34 UTC		CTD		13	49 19.3816	127 15.5858	750	400		Ø			Surface temp. 12.4°C
						13	49 19.43	127 15.67							
26	Sardine 14	19:00		Ros		14	49 11.9254	127 01.2130	270	225		1			surf. temp 13°C
27	Sardine 15	12:50 UTC		CTD		15	49 12.4076	126 13.5985	A3	30		Ø			surf. temp. 14.5°C

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 06 March 2008

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Month JULY				Year 2009			Ship WE RICKER				Cruise ID 2009-56				
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							
27	Sardine 16	2:05 UTC		CTD		16	49° 08.0580	126° 65.698	44	35		1			surface temp 15.5°
							49 07 8325	126 05 9391							sent down 2nd time for Niskin bottle
X 27	Sardine 17	5:32	UTC	CTD		17	49 09 0403	126 13 9396	55			Ø			not deployed, winch broken.
28	Sardine 17	12:53	UTC	CTD		17	49° 19.7424	126° 21.4873	39	30		Ø			surface temp 14.5°
28	Sardine 18	1:52	UTC	CTD		18	48 55 8326	125 35 05239	52	45		1			surface temp 15.8°
29	LC9	14:23	UTC	CTD		19	48° 25.8736	126° 13.655	597	590		Ø			surface temp. 14.5°
29	LB13	17:19	UTC	CTD		20	48° 10.6090	125° 56.0972	890	800		Ø			
29	LC7	18:07	UTC	ROS		21	48° 32.9113	126° 00.4557	122	100		1			Surface temp 15°C
29	LC5	4:04	UTC	CTD		22	48° 39.9243	125° 47.4425	60	50		Ø			Surface temp 15°C
30	LC4	5:28	UTC	CTD		23	48 43 3977	122 40 7508	159	150		Ø			surface temp 16.1
30	Sardine 19	12:34	UTC	CTD		24	48° 46.9195	125° 23.8972	93	80		Ø			surface temp 13.6
30	LC2	13:	UTC	CTD		25	48° 48.8000	125° 30.9173	103	90		Ø			surface temp. 13.9
30	Sardine 20	1:55	UTC	CTD ROS		26	48 28 5341	124 19 9385	44	35		1			surface temp
30	LB1	6:29	UTC	CTD		27	48 40 1876	124 59 2988	30	25		Ø			surface temp 12.8
31	LB3	8:41	UTC	CTD		28	48° 37.4425	125° 05.9286	87	80		Ø			surface temp. 12.1
31	LB6	9:56	UTC	CTD		29	48° 32.2983	125° 15.4752	106	95		Ø			Surface temp 12.5°C
31	LB8	11:41	UTC	CTD		30	48° 25.4296	125° 28.4926	145	130		Ø			Surf temp 12.3°C
31	Sal 21	12:51	UTC	CTD		31	48 21.4684	125 35.3286	142	135		Ø			Surf temp 12°C.

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Bottle Firing Method:

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Month <u>JULY + AUG</u>		Year <u>2009</u>		Ship <u>WERICKER</u>		Cruise ID <u>2009-56</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							
1	sardine 26	1:55	UTC	ROS		32	48°56.2825	125°10.3726	89	80		1			Surface temp 19°C
1	sardine 23	12:21	UTC	CTD		33	48°53.8936	125°43.4947	80	70		0			surface temp 14°C
1	sardine 24	2:07	UTC	ROS		34	50°00.4578	127°48.9975	446	400		1			surface temp 12.5°C
2	sardine 25	11:42	UTC	CTD		35	49°44.5403	127°19.3579	85	75		0			surface temp 12.8°C
2	sardine 26	1:55	UTC	ROS		36	49°36.7297	126°56.0797	69	60		1			surface temp 13.1°C
3	sardine 27	12:23	UTC	CTD		37	48°57.671	126°31.626	164	155		0			surface temp 12°C
3	sardine 28	3:59	UTC	ROS		38	49°05.9874	126°00.2973	43	35		1			surface temp 13.8°C
4	sardine 29	12:13	UTC	CTD		39	48°44.02	126°39.23	1075	400		0			Surface temp 12.8°C
4	sardine 30	16:00	UTC	CTD		40	48°35.16	127°11.84	3000	400		0			surface temp 12.5°C
4	sardine 31	3:48	UTC	ROS		41	48°47.9503	126°22.0743	191	180		1			surface temp 11.8°C
4	sardine 32	10:	UTC	CTD		42	49°02.4814	125°55.9780	41	30		0			surface temp 13.5°C

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Notes: _____

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year	month	Day	Station	Time	Time Code	Cast Type	Event number	Lat		lon		bottom depth	max depth	# bottles	sea surface temperature	
2009	7	22	Sardine1	19:40	UTC	ROS	1	49	43.7569	127	1.6753	50	40	1	13	
2009	7	23	Sardine2	2:33	UTC	CTD	2	49	33.34	127	23.0982	917	800		12	
2009	7	23	Sardine3	6:56	UTC	CTD	3	49	41.011	127	19.1906	136	125		14	
2009	7	23	Sardine3		UTC		3	49	40.9707	127	19.1958		125			
2009	7	23	Sardine4	19:05	UTC	ROS	4	49	55.197	127	19.8447	56	40	1	11	
2009	7	23	Sardine5	19:15	UTC	ROS	5	49	55.1039	127	19.9847	55	40	1	11	repeated cast 4 for bottle; bottle mechanism failed for cast 4. surface temp. 11
2009	7	24	Sardine6	9:31	UTC	CTD	6	49	48.565	127	47.2287					
2009	7	24					6	49	49.5692	127	47.657	760	300			
2009	7	24	Sardine7	13:00		CTD	7	49	59.9478	127	36.657	70	60		10.5	
2009	7	24	Sardine8	19:00		ROS	8	50	27.771	128	0.8308	60	50	1	11.5	
2009	7	25	Sardine9	8:00		CTD	9	50	19.9687	128	27.153	612	400		12.5	
2009	7	25	Sardine10	12:26		CTD	10	50	22.8312	128	16.3354	76	70		11	
2009	7	25					10	50	22.8278	128	4.366					
2009	7	25	Sardine11	19:00		ROS	11	49	35.643	126	34.8095	78	70	1	16	
2009	7	26	Sardine12	1:15		CTD	12	49	30.9465	126	47.6951	54	40		12	
2009	7	26	Sardine13	12:34		CTD	13	49	19.3816	127	15.5858	750	400		12.4	
2009	7	26					13	49	19.43	127	15.67					
2009	7	26	Sardine14	19:00		ROS	14	49	11.9254	127	1.213	270	225	1	13	
2009	7	27	Sardine15	12:50		CTD	15	49	12.4076	126	13.5985	43	30		14.5	
2009	7	27	Sardine16	2:05		CTD	16	49	8.058	126	5.698	44	35		15.5	
2009	7	27					16	49	7.8525	126	5.9391					
2009	7	28	Sardine17	12:53		CTD	17	49	19.7424	126	21.4873	39	30		14.5	
2009	7	28	Sardine18	1:52		ROS	18	48	55.8326	129	35.05239	52	45	1	15.8	
2009	7	29	LC9	14:23		CTD	19	48	25.873	126	13.655	597	590		14.5	
2009	7	29	LB13	17:19		CTD	20	48	10.609	125	56.0972	890	800			
2009	7	29	LC7	8:02		ROS	21	48	32.9113	126	0.4557	122	100	1	15	
2009	7	29	LC5	4:04		CTD	22	48	39.9243	125	47.4425	60	50		15	
2009	7	30	LC4	5:28		CTD	23	48	43.3997	122	40.7508	159	150		16.1	
2009	7	30	Sardine19	12:54		CTD	24	48	46.9195	125	23.8972	93	80		13.6	
2009	7	30	LC2	13:00		CTD	25	48	48.48.8	125	30.9173	103	90		13.9	
2009	7	30	Sardine20	1:55		ROS	26	48	28.5341	124	19.9385	44	35	1		
2009	7	30	LB1	6:29		CTD	27	48	403.188	124	59.2988	30	25		12.8	
2009	7	31	LB3	8:41		CTD	28	48	37.4425	125	5.9286	87	80		12.1	

2009	7	31	LB6	9:56		CTD	29	48	32.2983	125	15.4752	106	95		12.5	
2009	7	31	LB8	11:41		CTD	30	48	25.4296	125	28.4926	145	130		12.3	
2009	7	31	Sardine21	12:51		CTD	31	48	21.4684	125	35.3286	142	135		12	
2009	8	1	Sardine22	1:55		ROS	32	48	56.2825	125	10.3726	89	80	1	19	
2009	8	1	Sardine23	12:21		CTD	33	48	53.8936	125	43.4947	80	70		14	
2009	8	1	Sardine24	2:07		ROS	34	50	0.4578	127	48.9975	446	400	1	12.5	
2009	8	2	Sardine25	11:42		CTD	35	49	44.5403	127	19.3579	85	75		12.8	
2009	8	2	Sardine26	1:55		ROS	36	49	36.7297	126	56.0797	69	60	1	13.1	
2009	8	3	Sardine27	12:23		CTD	37	48	57.671	126	31.626	164	155		12	
2009	8	3	Sardine28	3:59		ROS	38	49	5.9874	126	0.2973	43	35	1	13.8	
2009	8	4	Sardine29	12:13		CTD	39	48	44.02	126	39.23	1075	400		12.8	
2009	8	4	Sardine30	16:00		CTD	40	48	35.16	127	11.84	3000	400		12.5	
2009	8	4	Sardine31	3:48		ROS	41	48	47.9503	126	22.0743	191	180	1	11.8	
2009	8	4	Sardine32	10:00		CTD	42	49	2.4814	125	55.976	41	30		13.5	