

2009-52

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Cast Type:	USW = Sea Water Loop	Bottle Firing Method:	Time Code:	Transmissometer to be cleaned before each cast, do not use Ammonia products
BOT = Bottle cast, no CTD	MOR = Mooring	US = Up / Stop	BE = Beginning Time of Cast	DE = Deployment Time
CTD = CTD without Rosette	NET = Plankton Net Haul	UN = Up / No stop	BO = Bottom Time of Cast	MR = Messenger Release Time
ROS = Rosette plus CTD	DRF = Drifter	DN = Down / No stop	EN = End Time of Cast	RE = Recover Mooring Time
SET = Fish Set	_____ = _____	Notes: _____		

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Month 8				Year 2009			Ship Parker			Cruise ID 2009-52					
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							
15	LG05	0657	BE	CTD		0008	49 7.115	126 55.352	289	275			SR	X	
		0705	BO				49 6.962	126 55.429							
		0710	EN				49 6.896	126 55.462							
15	LG04	0841	DE	CTD		0009	49 10.489	126 49.374	141	132			SR	X	
		0849	BO				49 10.454	126 49.421							
		0851	EN				49 10.475	126 49.489							
16	LK06	0516	BE	CTD		0010	49 38.370	127 45.574	907	902			SR	X	
		0536	BO				49 38.675	127 45.956							
		0547	EN				49 38.590	127 46.212							

Cast Type:

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

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Month <u>August</u>				Year <u>2009</u>			Ship <u>Ricker</u>				Cruise ID <u>2009-52</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							
16	LN4.5	0942	BE	CTD		0012	49 45.810	127 34.578	210	180			SR	X	counter 188
		0949	BO				49 45.829	127 34.615							CTD 180
		0957	EN				49 45.803	127 34.655							
17	LNØ4	0332	BE	CTD		0013	50 17.022	128 25.858	1194	1000			SR	X	5.7% counter 1000 / 0° style
		0349	BO				50 17.113	128 26.081							CTD 943
		0400	EN				50 17.191	128 26.152							CTD 1003 counter 1064) 5.7%
	** CTD pressure sensor is out ~ 5.7%														
17	LNØ3	0525	BE	CTD		0014	50 19.589	128 22.296	864	800			SR	X	* 800 * 6% = 850
		0539	BO				50 19.603	128 22.373							LWC 846] 6%
		0549	EN				50 19.579	128 22.446							echo sounder 813 (+10 CTD depth, NDT pressure)
17	LN2.5	0710	BE	CTD		0015	50 21.605	128 18.805	420	400			SR	X	422.1 6%
		0722	BO				50 21.572	128 18.874							
		0727	EN				50 21.564	128 18.891							
17	LN2	0845	BE	CTD		0016	50 23.260	128 15.600	165	150			SR	X	
		0850	BO				50 23.238	128 15.598							
		0852	EN				50 23.215	128 15.586							

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Month <u>8</u>				Year <u>2009</u>				Ship <u>R/V Her</u>				Cruise ID <u>2009-52</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							
21	X93.0	12:35	BE	CTD		0017	51°02.670	127°47.131	88	65			CK	✓	
		12:37	BO				51°02.658	127°47.117							
		12:39	EN				51°02.650	127°47.101							
22	X93.1	0238	BE	CTD		0018	51 2.045	130 19.340	2152	500			8N	✓	
		0251	BO				51 1.903	130 19.003							
		0303	EN				51 1.825	130 18.725							
22	CS3B	0637	BE	CTD		0019	50 59.985	129 26.695	210	190				X	178
		0642	BO				50 59.950	129 26.728							really rough out
		0647	EN				50 59.970	129 26.624							
22	X94.1	13:00	BE	CTD		0020	51 12.379	130 16.080	1598	560			KC	✓	
		13:12	BO				51 12.254	130 16.02							
			EN				51 12.070	130 16.17							
23	X94.0	0155	BE	CTD		0021	51 12.422	127 49.379	65	57			8N	✓	
		0158	BO				51 12.421	127 49.416							
		0159	EN				51 12.420	127 49.426							

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Month <u>8</u>			Year <u>2009</u>				Ship <u>Richter</u>				Cruise ID <u>2009-52</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							
23	Sg. 1	0449	BE	CTD		0022	51 12.595	128 30.054	192	181			SN	✓	95.1A-hand
		0450	BO				51 12.583	128 30.115							B-machine
		0459	EN				51 12.554	128 30.170							
23	Sg. 12	0749	BE	CTD		0023	51 28.034	128 14.442	105	95			SN	✓	95.2A-Hand
		0755	BO				51 28.050	128 14.317							B-machine
		0758	EN				51 28.043	128 14.308							
23	Sg. 13	0926	BE	CTD		0024	51 24.661	128 1.819	125	115			SN	—	SFA
		0930	BO				51 24.036	128 1.705							
		0932	EN				51 24.006	128 1.651							
23	X95.0	1257	BE	CTD		0025	51 22.381	128 8.940	133	125			KC		
		1301	BO				51 22.327	128 9.052							
		1305	EN				51 22.291	128 9.132							
24	X95.1	0347	BE	CTD		0026	51 22.430	130 25.162	1532	502			SN	—	530 wre at
		0358	BO				51 22.360	130 25.153							
		0407	EN				51 22.312	130 25.230							

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Month 7				Year 2009			Ship R/V Her				Cruise ID 2009-52				
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							
2A	Squid 1	0540	BE	CTD		0027	51 28.036	130 7.123	606	491			sn	✓	
		0552	BO				51 28.018	130 6.911							
		0602	EN				51 28.028	130 6.769							
2A	Squid 2	0826	BE	CTD		0028	51 28.829	130 20.743	1238	501			sn	✓	
		0839	BO				51 28.853	130 20.344							
		0850	EN				51 28.900	130 19.931							
2A	Squid 3	10 35	BE	CTD		0029	51 33 730	130 31 176	1018	501			sn	—	
		10 48	BO				51 33 875	130 30 830							
		11 01	EN				51 34 133	130 30 546							
24	X96.1	1305	BE	CTD		0030	51 32.400	130 43.676	1544	501			KC	✓	
		1319	BO				51 32.556	130 43.651							
		1330	EN				51 32.690	130 43.619							
25	Squid 1	0540	BE	CTD		0031	51 28 208	127 49 266	130	122			KT	✓	
		0544	BO				51 28 255	127 49 205							
		0547	EN				51 28 295	127 49 175							

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Month <u>8</u>				Year <u>2009</u>			Ship <u>RICKER</u>				Cruise ID <u>2009 - 52</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							
25	Squid 2	07 10	BE	CTD		0032	51 33 728	127 50 998	185	175			KT	✓	
		07 14	BO				51 33 706	127 50 876							
		07 19	EN				51 33 685	127 50 767							
25	Squid 3	09 19	BE	CTD		0033	51 45 211	127 56 455	365	350			KT	✓	
		09 28	BO				51 45 280	127 56 268							
		09 36	EN				51 45 274	127 56 146							
25	X97.0	1306	BE	CTD		034	51 42.523	128 11.972	139	132			KE	✓	
		1311	BO				51 42.524	128 11.940							
		1316	EN				51 42.511	128 11.940							
26	X98.0	1324	BE	CTD		035	51 52.481	128 32.868	101	95			CG	✓	
		1336	BO				51 52.546	128 32.867							
		1336	EN				51 52.610	128 32.867							
27	X98.1	1313	BE	CTD		036	51 52.868	131 16.285	1174	502			KC	✓	
		1324	BO				51 52.982	131 16.415							
		1335	EN				51 53.084	131 16.453							

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Month <u>8</u>				Year <u>2009</u>			Ship <u>RICKER</u>				Cruise ID <u>2009-52</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							
27	Squid 1	04 58	BE	CTD		0037	51 53 804	131 06 278	1013	500			KT	✓	
		05 10	BO				51 54 053	131 06 452							
		05 21	EN				51 54 217	131 06 373							
27	Squid 2	07 16	BE	CTD		0038	51 50 206	131 00 593	966	502			KT	✓	
		07 28	BO				51 50 507	131 00 526							
		07 41	EN				51 50 789	131 00 526							
27	X99.1	1303	BE	CTD		0039	52 25 52	130 56.442	85	82			CS	✓	
		1305	BO				52 25 87	130 56.416							
			EN				52 26 33	130 56.398							
28	X100.0	0036	BE	CTD		0040	52 12.332	129 10.206	160	155			CS	✓	
		0040	BO				52 12.352	129 10.207							
		0044	EN				52 12.369	129 10.209							
29	Squid 1	05 15	BE	CTD		0041	52 09 215	129 55 873	145	138			KT	✓	
		05 19	BO				52 09 196	129 55 873							
		05 22	EN				52 09 176	129 55 872							

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Month <u>8</u>				Year <u>2009</u>			Ship <u>RICKER</u>				Cruise ID <u>2009 - 52</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							
29	Squid 2	08 01	BE	CTD		0042	52 07 516	130 17 159	442	431			KT	✓	
		08 13	BO				52 07 482	130 17 347							
		08 23	EN				52 07 564	130 17 542							
29	Squid 3	10 53	BE	CTD		0043	52 17 401	130 12 623	400	390			KT	✓	
		11 04	BO				52 17 543	130 12 572							
		11 13	EN				52 17 628	130 12 675							
29	X100.0	19 49	BE	CTD		0044	52 12 611	130 40.595	187	178			CS	✓	
		19 52	BO				52 12 598	130 40.517							
		19 57	EN				52 12 586	130 40.438							
29	X102.1	22:12	BE	CTD		0045	52 32.431	130 51.756	113	105			CS	✓	
		22:14	BO				52 32.412	130 51.734							
		22:14	EN				52 32.348	130 51.734							
30	Squid 1	04 34	BE	CTD		0046	52 38 897	129 54 647	258	248			KT	✓	
		04 40	BO				52 38 940	129 54 533							
		04 45	EN				52 38 976	129 54 456							

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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							
30	Squid 2	0618	BE	CTD		0047	52 45 318	129 50 788	217	207			KT	✓	
		0623	BO				52 45 318	129 50 761							
		0626	EN				52 45 329	129 50 736							
30	Squid 3	0843	BE	CTD		0048	52 56 396	130 02 128	270	260			KT	✓	
		0849	BO				52 56 426	130 02 018							
		0855	EN				52 56 441	130 01 961							
30	X104	1410	BE	CTD		0049	52 52.594	129 47.154	113	105			CG	✓	
		1413	BO				52 52.615	129 47.136							
		1416	EN				52 52.654	129 47.106							
30	X106.1	1905	BE	CTD		0050	53° 11.570	130° 53.153	97	90			CG	✓	
		1907	BO				53° 11.570	130° 53.159							
		1909	EN				53° 11.578	130° 53.159							
30	X108	2221	BE	CTD		0051	53° 32.626	130° 42.996	175	170			CG	✓	
		2224	BO				53° 32.616	130° 42.997							
		2228	EN				53° 32.601	130° 42.995							

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Month 8				Year 2009			Ship RICKER				Cruise ID 2009-52				
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	X109	2341	BE	CTD		0052	52 42.460	130 48.653	51	46			CG	✓	
		2342	BO				52 42.454	130 48.683							
		2343	EN				52 42.448	130 48.698							
30	X110	0056	BE	CTD		0053	52 52.535	130 49.556	71	66			CG	✓	
		0058	BO				52 52.536	130 49.548							
		0100	EN				52 52.535	130 49.537							
30	X111	0128	BE	CTD		0054	54 02.479	131 02.264	92	85			CG	✓	
		0130	BO				54 02.482	131 02.272							
		0132	EN				54 02.488	131 02.281							
30	X112	0344	BE	CTD		0055	54 12.509	131 2.332	107	103			CG	✓	
		0346	BO				54 12.499	131 2.312							
		0348	EN				54 12.493	131 2.312							
31	Squid 1	0542	BE	CTD		0056	54 21 884	131 20 728	177	169			KT	✓	
		0547	BO				54 21 851	131 20 690							
		0549	EN				54 21 833	131 20 689							

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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							
31	Squid 2	07 39	BE	CTD		0057	54 25 986	131 34 897	276	266			KT	✓	
		07 46	BO				54 26 011	131 34 840							
		07 51	EN				54 26 017	131 34 757							
31	Squid 3	09 21	BE	CTD		0058	54 25 572	131 21 236	223	213			KT	✓	
		09 28	BO				54 25 698	131 21 337							
		09 33	EN				54 25 804	131 21 395							
31	X112.5	1718	BE	CTD		0059	54 33.113	131 7.409	153	149			CG	✓	
		1722	BO				54 33.122	131 7.409							
		1726	EN				54 33.132	131 7.373							
31	X113	2132	BE	CTD		0060	54 18.190	131 26.407	117	112			CG	✓	
		2135	BO				54 18.205	131 26.454							
		2137	EN				54 18.270	131 26.501							
31	X114	2242	BE	CTD		0061	54 27.491	131 26.378	250	244			CG	✓	Flush bottle cells - Temp Δ
		2248	BO				54 27.464	131 26.444							Temp 112 closer
		2253	EN				54 27.43	131 26.478							

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 NET = Plankton Net Haul
 DRF = Drifter

Bottle Firing Method:

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Month 08				Year 2009			Ship WE Ricker				Cruise ID 2009-52				
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							
31	X114.1	00:25	BE	CTD		0062	54°32.916	131°44.178	347	340			DS	✓	
		00:31	BO				54°32.906	131°44.264							
		00:34	EN				54°32.984	131°44.304							
31	X114.0	0256	BE	CTD		0063	54 13.283	131 43.64	107	103			CG	✓	
		0258	BO				54 13.279	131 43.632							
		0300	EN				54 13.278	131 43.627							
01	Squid 1	11 03	BE	CTD		0064	54 27 308	132 08 800	344	334			KT	✓	
		11 12	BO				54 27 188	132 09 101							
		11 20	EN				54 27 094	132 09 308							
01	X115	1409	BO	CTD		0065	54 11.982	132 0.923	93	88			CG	✓	
		1411	BE				54 11.970	132 0.918							
		1413	EN				54 11.957	132 0.912							
01	X115.1	1857	BE	CTD		0066	54 38.070	132 1.195	158	150			SKD	✓	
		1901	BO				54 38.038	132 1.255							
		1904	EN				54 38.023	132 1.340							

Cast Type:

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Month <u>09</u>				Year <u>2009</u>			Ship <u>WE KICOR</u>				Cruise ID <u>2009-52</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	X116.1	20.19	BE	CTD		0067	54°38.186	132°17.705	130	125			MH	✓	
		20.21	BO				54°38.165	132°17.720							
		20.24	EN				54°38.136	132°17.765							
01	X116.0	23 51	BE			0068	54 12 071	132 18 048	115	105			KT	✓	
		23 54	BO				54 12 067	132 18 032							
		23 56	EN				54 12 065	132 18 023							
01	X117.0	0110	BE	CTD		0069	54 11.539	132 7.087	104	101			SKD		
		0113	BO				54 11.513	132 35.365							
		0116	EN				54 11.489	132 35.357							
01	X117	0411	BE	CTD		0070	54 38.054	132 35.424	118	115			CG	✓	
		0413	BO				54 38.056	132 35.414							
		0416	EN				54 38.064	132 35.368							
02	Squid 1	06 29	BE	CTD		0071	54 18 322	132 40 034	270	260			KT	✓	
		06 35	BO				54 18 222	132 39 928							
		06 40	EN				54 18 137	132 39 848							

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Month <u>09</u>				Year <u>2009</u>			Ship <u>WE RICKER</u>				Cruise ID <u>2009-52</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	Squid 2	0856	BE	CTD		0072	54 28 794	132 40 966	378	368			KT	✓	Fast currents, watch read 54.8m cable out at max depth
		0908	BO				54 28 400	132 41 154							
		0920	EN				54 28 034	132 41 365							
02	Squid 3	1114	BE	CTD		0073	54 34 655	132 41 456	270	260			KT	✓	
		1121	BO				54 34 554	132 41 963							
		1128	EN				54 34 462	132 42 276							
02	124	1401	BE	CTD		0074	54 42.523	132 53.032	100	97			SKD		
		1404	BO				54 42.487	132 53.039							
		1407	EN				54 42.444	132 53.040							
02	124.1	2131	BE	CTD		0075	54 42.288	134 8.924	450	440			CTG	✓	
		2140	BO				54 42.208	134 8.974							
		2147	EN				54 42.101	134 8.910							
02	126.1	2344	BE	CTD		0076	54 22.566	134 11.714	1518	500			CTG	✓	
		2352	BO				54 22.531	134 11.748							
		0001	EN				54 22.505	134 11.797							

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Month <u>09</u>				Year <u>2009</u>			Ship <u>RICKER</u>				Cruise ID <u>2009-52</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	126	0435	BE	CTD		0077	54 22.398	133 21.409	369	365			CG	✓	
		0443	BO				54 22.518	133 21.222							
		0449	EN				54 22.570	133 21.181							
03	Squid 1	07 16	BE	CTD		0078	54 19 170	133 00 839	473	463			KT	✓	
		07 27	BO				54 19 207	133 00 380							
		07 38	EN				54 19 208	133 00 013							
03	Squid 2	10 34	BE	CTD		0079	54 32 840	133 22 009	336	326			KT	✓	
		10 42	BO				54 32 792	133 22 008							
		10 49	EN				54 32 747	133 21 997							
03	X127	1403	BE			0080	54 12.820	133 6.990	74	72			CG	✓	
		1405	BO				54 12.790	133 6.996							
		1407	EN				54 12.785	133 6.954							
03	X127.1	19:14	BE			081	54 12.576	134 4.754	1420	500			TS	✓	
			BO				54 12.649	134 4.567							
			EN				54 12.732	134 4.458							

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Month <u>9</u>				Year <u>2009</u>			Ship <u>Ricker</u>				Cruise ID <u>2009-52</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	X128.1	2052	BE	CTD		0082	54 2.545	134 7.800	1450	502			SKD		
		2103	BO				54 2.795	134 7.541							
		2113	EN				54 2.893	134 7.636							
03	X128.0		BE	CTD		0083			100	95			1	✓	deck unit failure
			BO												0.0.0.0.0.0.0.0
			EN												
									~345						
03	X129.1	0410	BE	CTD		084	53 52.636	133 34.170	418	337			IS		Test of deck unit
		0419	BO				53 52.836	133 33.935							works now
		0426	EN				53 53.036	133 33.851							ship moving into shallower H ₂ O
04	Squid Z	0746	BE	CTD		0085	53 45 368	133 54 715	2838	500			KT	✓	
		0757	BO				53 45 350	133 54 529							
		0807	EN				53 45 282	133 54 374							
04	X130.1	1400	BE	CTD		0086	53 42.622	133 33.790	1847	500.			CF	✓	
		1411	BO				53 42.616	133 33.691							
		1423	EN				53 42.605	133 33.610							

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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								
04	X130	1729	BE	CTD		087	53 42.451	133 9.517	148	144			CG	✓		
		1732	BO				53 42.443	133 9.510								
		1736	EN				53 42.451	133 9.491								
04	X131	19:01	BE	CTD		088	53 32.455	133 2.568	128	120			TS	✓		
			BO				53 32.458	133 2.585								
			EN				53 32.462	133 2.558								
04	X131.1	20:35	BE	CTD		089	53 32.471	133 20.970	1216	500			GO	✓		
		20:44	BO				53 32.537	133 20.875								
		20:54	EN				53 32.652	133 20.778								
04	X132.1	2224	BE	CTD		090	53 22.559	133 13.459	966	504			SKD	✓		
		2233	BO				53 22.568	133 13.357								
		2243	EN				53 22.610	133 13.331								
04	X132	0009	BE	CTD		091	53 22.512	132 54.712	162				CTG	✓	ABORT	
			BO				53	133							ALL ZEROS	
			EN				53	133							AGAIN.	

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Month <u>09</u>				Year <u>2009</u>			Ship <u>RICKER</u>				Cruise ID <u>2009-52</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							
04	X133	0146	BE	CTD		092	53 12.581	132 43.680	204	200			CG	✓	
		0151	BO				53 12.57	132 43.662							
		0155	EN				53 12.548	132 43.636							
04	X133.1	0318	BE	CTD		093	53 12.474	133 1.468	995	500			CG	✓	
		0327	BO				53 12.508	133 1.367							
		0335	EN				53 12.511	133 1.258							
05	Squid 1	0537	BE	CTD		0094	53 09 335	132 52 099	995	500			KT	✓	
		0546	BO				53 09 394	132 51 965							
		0554	EN				53 09 439	132 51 904							
05	Squid 2	0759	BE	CTD		0095	53 09 318	132 41 518	204	194			KT	✓	
		0805	BO				53 09 359	132 41 429							
		0809	EN				53 09 373	132 41 371							
05	Squid 3	0937	BE	CTD		0096	53 04 506	132 45 335	1220	500			KT	✓	
		0948	BO				53 04 584	132 45 247							
		0959	EN				53 04 631	132 45 143							

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Month <u>09</u>				Year <u>2009</u>			Ship <u>RICKER</u>				Cruise ID <u>2009 - 52</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	134.1	1402	BE	CTD		0097	53 2.641	132 48.772	1239	503			skd	✓	
		1413	BO				53 2.576	132 48.896							
		1425	EN				53 2.602	132 48.798							
05	134	1530	BE	CTD		0098	53 2.579	132 34.926	203	193			skd	✓	
		1535	BO				53 2.677	132 34.896							
		1540	EN				53 2.760	132 34.900							
05	135	1724	BE	CTD		0099	52 52.510	132 18.917	186	181			skd	✓	
		1728	BO				52 52.500	132 18.839							
		1733	EN				52 52.484	132 18.822							
05	135.1	18:55	BE	CTD		0100	52° 44.028	132° 26.894	1092	500			CS	✓	
		19:04	BO				52° 44.029	132° 26.894							
		19:12	EN				52° 44.964	132° 26.896							
05	136	20:43	BE	CTD		0101	52° 42.216	132° 7.062	169	155			MH		
		20:46	BO				52° 42.216	132° 7.031							
		20:49	EN				52° 42.217	132° 7.014							

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