

INSTITUTE OF OCEAN SCIENCES

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LC 08 CTD O₂

09 CTD O₂

10 CTD

11 CTD O₂

~~12 CTD~~

LD 11 CTD

10 CTD O₂

09 CTD

08 CTD O₂

07 CTD

SHIP		CRUISE 89-10						TIME ZONE 4TC			PAGE 2 OF			
DATE	STATION ID	DEPTH SOUNDING (m)	LATITUDE & LONGITUDE	TIME SHIP STOPS	STD-CONSEC. NO. & DEPTH (m)	STD START TIME	HYDRO-CONSEC. NO. & DEPTH (m)	MESSENGER TIME	HYDRO SALINITY NO.	BUCKET TEMPERATURE & SALINITY NO.	LOOP TEMPERATURE & SALINITY NO.	ENGINE INTAKE TEMPERATURE	TIME SHIP PROCEEDS	NOTES
1989 20/4	K08	196	48 29.46 126 06.94	0456	1	200	0510	/						hit bottom
	K09	635	48 25.88 126 13.54		2	649	0619	/						hit bottom
	LC 10	1237	48 22.26 126 20.35		3		0735	/						
	LC 10	1210	48 21.00 126 20.48		4	1203	0854	/						
	LC 11	1860	48 18.02 126 27.19		5	530	1026	/					1046	STD QUIT @ 530M see Logbook
20/4.	LD 11	1598	48 28.76 126 42.94	1230	6	1596	1233	/					1225	Some flashes of error light
	LD 10	1455	48 32.07 126 36.50		7		1509	/	pressure spike at 90m					restarted - locked
21/4	LA 05	115	48 15.88 125 10.47	0448	8	116	0454	/					0500	
21/4	LA 06	107	48 12.58 125 17.62	0539	9	110	0541	9 160	0550	1001 1010	2			
21/4	LA 07		48 09.11 125 23.87	0650	10	108	0653	/					0703	
21/4	LA 08	125	48 05.71 125 30.25		11	125	0750	11 125	0805	1011 1022				
21/4.	LA 09	300	48 02.36 125 36.92		12	290	0918	/						no .1MA

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DATE	STATION ID	DEPTH SOUNDING (m)	LATITUDE & LONGITUDE	TIME SHIP STOPS	STD-CONSEC. NO. & DEPTH (m)	STD START TIME	HYDRO-CONSEC. NO. & DEPTH (m)	MESSENGER TIME	HYDRO SALINITY NO.	HYDRO OXYGEN NO.	BUCKET TEMPERATURE & SALINITY NO.	LOOP TEMPERATURE & SALINITY NO.	ENGINE INTAKE TEMPERATURE	TIME SHIP PROCEEDS
21/04	LA 10	920	475899 1254342	1013 13	1015	/								
	Both		species changed on CTD											
			use < 100 setting on the deck unit											
21/04	LA 10	920	475895 1254343	1249 13	930 1249	/							1323	
21/04/89	LB 16	1780	48 00.55 126 17.14	1540 14	1820 1546	/							1645	
21/04/89	LB15	1555	48 04.23 126 08.20	1738 15	1596 1749	/				3			1850	Calib bottle 1500 m
21/04	LB14	1180	48 08.48 126 00.09	1938 16	1200 1937	16 1100	2052	1023 1074					2120	
21/04	LB13	920	48 10.56 125 56.05	2150 17	931 2149	/							2220	
21/04	LB12	505	48 12.91 125 51.79	2243 18	511 2245	18 500	2354	1039 1053					0108	26 min
22/04	LB11	220	48 15.18 125 47.41	0039 19	217 0039	19 200	0101	1054 1066	4					20 min
22/4	LB10	150	481854 12541.20	0145 20	152 0150	/							0158	
	LB09	143	4821.94 1253483	0230 21	146 0238	21 140	0257	1069 1078					0314	16 min

SHIP		CRUISE								TIME ZONE +7				PAGE 4 OF	
DATE	STATION ID	DEPTH SOUNDING (m)	LATITUDE & LONGITUDE	TIME SHIP STOPS	STD - CONSEC. NO. & DEPTH (m)	STD START TIME	HYDRO - CONSEC. NO. & DEPTH (m)	MESSENGER TIME	HYDRO SALINITY NO.	BUCKET OXYGEN NO.	LOOP TEMPERATURE & SALINITY NO.	ENGINE TEMPERATURE	ENGINE INTAKE TEMPERATURE	TIME SHIP PROCEEDS	NOTES
22/4	LB08	130	4825.17 12528.47	0338	22 127 0341	22 0358	22 120	0358	1079 1086				0404	14 min	
22/4	LB07	150	4828.72 12521.83	0442	23 153 0446								0455		
22/4	LB06	110	4832.28 12515.50	0537	24 107 0543	24 0601	24 100	0601	548 587						
	LB05	100	4834.05 12511.93	0623	25 95 0629								0636		
22/4	LB04	105	4836.00 12509.13	0700	26 100 0705	26 0719	26 100	0719	588 630				0730		
22/4	LB03	90	4837.32 12505.56	0745	27 90 0748										AIR VALUE FOR DEPTH
	LB02	55	4839.01 12502.30	0814	28 50 0815	28 0826	28 50	0826	632 650						
22/4	LB01	38	4840.59 12459.51	0854	29 32 0854	29 0905	29 30	0905							
22/4	LA01	252	4829.41 12443.51	10.40	30 250 1047	30 1107	30 250	1107	656 702				11.40		
22/4	LA02	298	4826.24 12451.32	12:13	31 296 1213	31 1235	31 280	1235	703 720						Last bottle 280 not 300
22/4	LA03	105	4822.81 12457.76	1340	32 105 1343										
22/4	LA04	190	4819.26 12504.08	1430	33 190 1430	33 1444	33 175	1444							

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DATE	STATION ID	DEPTH SOUNDING (m)	LATITUDE & LONGITUDE	TIME SHIP STOPS	STD-CONSEC. NO. & DEPTH (m)	STD START TIME	HYDRO-CONSEC. NO. & DEPTH (m)	MESSENGER TIME	HYDRO SALINITY NO.	HYDRO OXYGEN NO.	BUCKET TEMPERATURE & SALINITY NO.	LOOP TEMPERATURE & SALINITY NO.	ENGINE INTAKE TEMPERATURE	TIME SHIP PROCEEDS	NOTES
23/4		4852.47 12515.18	0055							5 6					
	Lc01 92	4850.70 12528.01	0312	34 96	0314	34 75	0325		1001 1009						
	Lc02 105	4848.55 12531.05	0349	35 108	0351	35 100	0402		1010 1019				0410		
23/4	Lc03 129	4846.87 12534.50	0426	36 135	0429	/							0436		
	Lc04 160	4843.30 12541.05	0519	37 166	0520	37 150	0537		1020 1030						
23/4	Lc05 61	4839.84 12547.58		38 62	0617	/				7			0623		
23/4	Lc 06 90	4836.40 12554.19	0656	39 85	0658	/							0702		
23/4	Lc 07 123	4833.09 12600.31	0750	40 120	0738	40 100	0752		1031 1038						
23/4	LD 09 1055	4835.69 12629.95	0950	41 1050	0958	/				8					LOOP SAMPLE
23/4	LD 08 760	4839.23 12623.23	11:13	42 761	11:13	42 700	1209		548 641						
23/4	LD 08 760	4839.32 12623.07	11:13	43 761	11:32	/	File for cal only at 755m			9 = CTD Bottle					CALIBRATION SAMPLE Separate File
23/4	LD 07 439	4842.67 12616.75	1304	44 445	1306	/									

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SHIP		CRUISE		TIME ZONE		PAGE 6 OF										
Paryean		89-10 Maus/la Perouse		UTC												
1989	DATE	STATION ID	DEPTH SOUNDING (m)	LATITUDE & LONGITUDE	TIME SHIP STOPS	STD-CONSEC. NO. & DEPTH (m)	STD START TIME	HYDRO-CONSEC. NO. & DEPTH (m)	MESSENGER TIME	HYDRO SALINITY NO.	HYDRO OXYGEN NO.	BUCKET TEMPERATURE & SALINITY NO.	LOOP TEMPERATURE & SALINITY NO.	ENGINE INTAKE TEMPERATURE	TIME SHIP PROCEEDS	NOTES
23/4	LD 06	130	48 46.19 126 10.09	14° 00' 45"	125	14° 00' 125	1413		642 668							
"	LD 05	85	48 49.68 126 03.55	14.56 46	90	1457	/							1503		
	LD 04	57	48 53.20 125 57.01	1535 47	62	1536	47 50	1548						1551		
	LD 03	41	48 56.74 125 50.19	1625 48	47	1631	/							1633		
	LD 02	42	48 58.57 125 46.91	1649 49	42	1651	49 35	1659						1702		
	LD 01	33	49 00.19 125 43.75	1718 50	35	1720	50 30	1726								
23/4	E01		49 21.25 126 43.34	2140	/		/				10					
24/4	LD10		48 32.2 126 36.6	/			7 1400	0623		1001 1028						see CTD #7 Hydro only
24/4	LC12	2475	48 18.03 126 40.26	0820 51	2006	0825	/							0929		done
24/4	LC11		48° 18.02 126° 27.19	/			5 1500	1137		1029 612						HYDRO ONLY see CTD #5
	LC9		48° 25.88 126° 13.54	/			2 600	1341	16	617 694						Hydro only see CTD #2
	LC8	193	48° 29.52 126° 06.96	1432 52	202	1435	52 190	1456		1039 1049						

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SHIP			CRUISE 89-10							TIME ZONE +7			PAGE 7 OF		
DATE	STATION ID	DEPTH SOUNDING (m)	LATITUDE & LONGITUDE	TIME SHIP STOPS	STD-CONSEC. NO. & DEPTH (m)	STD START TIME	HYDRO-CONSEC. NO. & DEPTH (m)	MESSENGER TIME	HYDRO SALINITY NO.	HYDRO OXYGEN NO.	BUCKET TEMPERATURE & SALINITY NO.	LOOP TEMPERATURE & SALINITY NO.	ENGINE INTAKE TEMPERATURE	TIME SHIP PROCEEDS	NOTES
24/4	LCB6421	4822.45 12604.03		53 421	1552									1609	hit bottom
	LBA4140	4812.94 12529.95	1823	54 1826	142					11				1832	
	LBA3120	4820.12 12523.56	1920	55 115	1923									1930	
	LBA2110	4825.38 12507.78	2036	56 110	2037									2045	
24/4	LBA1110	4831.61 12503.81	21:30	57 111	21:33										
	D15 A	4825.84 12429.85	2342	58 231	2342									2353	
25/04/89	D14 A	4821.99 12414.93	0053	59 191	0058	59 185	0118	1050 1061						0125	
"	D13 A	4817.76 12359.81	0221	60 190	0222									0231	
25	D12 A	4815.14 12344.76		61 172	0325	61 165	0344	1001 1016							
25	D11 A	4813.98 12329.79	0439	62 174	0448										
25	D10 A	4817.25 12314.66	0555	63 102	0600	63 95	0614	1017 1025							done
25			1531	thru 2 Colwood Feeding jetty											

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SHIP		CRUISE		TIME ZONE		PAGE										
Parramatta		88-10		UTC		8 OF										
DATE	STATION ID	DEPTH SOUNDING (m)	LATITUDE	LONGITUDE	TIME SHIP STOPS	STD - CONSEC. NO. & DEPTH (m)	STD START TIME	HYDRO - CONSEC. NO. & DEPTH (m)	MESSENGER TIME	HYDRO SALINITY NO.	HYDRO OXYGEN NO.	BUCKET TEMPERATURE & SALINITY NO.	LOOP TEMPERATURE & SALINITY NO.	ENGINE INTAKE TEMPERATURE	TIME SHIP PROCEEDS	NOTES
25/4	D09 A	48 34 17 123 12 79	2240	64	276	2246										
25/4 26/04	D08 A	310 48 42.27 123 15.17	2344	65	310	2356	65 275	0023	(13)	1001 1019				0034	Apr. 26, 89	Done
Apr. 26	D07 A	162 48 44.03 123 08.33	0104	66	166	0106	/									
	D06 A	230 48 45.98 123 02.19	0146	67	238	0147	67 220	0218	(10)	1020 1033						On Vane
	D05 D	210 48 52.57 123 59.67	0258	68	211	0302	/							0310		
	D05 C	192 48 50.47 123 01.49	0334	69	195	0336	/				12			0345		
	D05 B	225 48 49.49 123 02.59		70	227	0356	70 220	0417	(12)	1039 1050						
	D05 A			71	118	0445	/							0452		
26	D04 A	127 48 49.32 123 08.76	0521	72	127	0525	/							0531		
	D04 B	217 48 50.44 123 07.06		73	223		73 200	0602	(11)		13					
26/4	D04 C	154 48 51.64 123 05.89	0623	74	158	0624	/							0631		
26/4	D03C	139 48 53.37 123 11.26	0705	75	135	0705	/							0712		

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SHIP <i>Pargaea</i>		CRUISE <i>88-10</i>		TIME ZONE <i>UTC</i>		PAGE <i>9</i> OF									
DATE	STATION ID	DEPTH SOUNDING (m)	LATITUDE & LONGITUDE	TIME SHIP STOPS	STD - CONSEC. NO. & DEPTH (m)	STD START TIME	HYDRO - CONSEC. NO. & DEPTH (m)	MESSENGER TIME	HYDRO SALINITY NO.	HYDRO OXYGEN NO.	BUCKET TEMPERATURE & SALINITY NO.	LOOP TEMPERATURE & SALINITY NO.	ENGINE INTAKE TEMPERATURE	TIME SHIP PROCEEDS	NOTES
April 26	D03B	195	48 52.46 123 13.19	0728	76 196	0731	76 190	0750	(11)	1063 1008					HYDRO 5.5
26	D03A	93	48 51.80 123 14.12	0819	77 94	0820	/							0825	
26	D02A	150	48 56.13 123 23.22	0920	78 151	0922	/							0925	
26	D02B	195	48 56.94 123 20.63	0945	79 196	0950	79 190	1010	(11)	1009 1023					
26	D02C	175	48 58.51 123 17.65	1045	80 172	1048	/							1058	
26	D01C	200	49 04.14 123 21.57	1134	81 205	1138	/							1148	
	D01B	307	49 02.84 123 26.27	1211	82 300	1213	82 290	1239	(13)	1069 1082				1250	
	D01A	197	49 01.89 123 31.84	1317	83 217	1319	/								

That's All Folks.