

DAILY LOG BOOK

MISSION
NUMBER

2005 - 22

DATE:

From: 5 SEPT to: 11 SEPT 2005

VESSEL:

JOHN P TULLY

PROJECT:

LA PEROUSE

INSTITUTE OF OCEAN SCIENCES
OCEAN SCIENCES AND PRODUCTIVITY DIVISION
SIDNEY, BC, CANADA

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month SEPTEMBER				Year 2005			Ship JOHN P TULLY				Cruise ID 2005-22				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
6	LB01	0137	BE	ROS	US	1	48 40.31	124 59.52	36					✓	
		0139	BO				48 40.32	124 59.53		28	1-4	4	AS/MR		
		0143	EN				48 40.33	124 59.53							
6	LB02	0214	BE	ROS	US	2	48 38.99	125 02.45	56					✓	
		0217	BO				48 38.99	125 02.48		47	5-10	6	AS/MR		
		0222	EN				48 39.01	125 02.50							
6	LB03	0255	BE	ROS	US	3	48 37.297	125 6.007	94					✓	
		0257	BO				48 37.302	125 6.064		90	-	0	DY/SD MR		
		0259	EN				48 37.38	125 6.092							
6	LB04	0332	BE	ROS	US	4	48 35.694	125 8.801	112					✓	
1	1	0334	BO	1		1	48 35.694	125 8.796		106	11-18	8	DY/SD MR		
		0345	EN	1			48 35.683	125 8.779							
6	LB05	0427	BE	ROS	US	5	48 34.024	125 12.054	102				DY/SD MR	✓	
1	1	0430	BO	1		1	48 34.033	125 12.061		96		0			
		0432	EN	1			48 34.040	125 12.061							
6	E01	0527	BE	ROS	US	6	48 31.690	125 4.012	119				DY/SD MR	✓	
1	1	0530	BO	1		1	48 31.663	125 4.027		110	19-25	7			
		0539	EN	1			48 31.724	125 3.944							
6	E01	0545	BO	NET		7	48 31.72	125 3.94	119	110					Bongo

Cast type:

BOT = bottle cast, no CTD
 CTD = CTD without Rosette
 ROS = Rosette plus CTD

USW = sea water loop
 MOR = mooring
 NET = net haul
 DRF = drifter

bottle firing method:

US = up / stop
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Transmissometer to be cleaned for each cast, do not use Ammonia products

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							Latitude	Longitude							
6	C2	0700	BO	NET		8	48 25.38	125 07.996	151	140			FW DHI IW		Bongo
6	C2	0723	BE	ROS		9	48 25.45	125 7.89	151		26-33	8		✓	
		0728	BO	↓			48 25.46	125 7.86		144					
		0737	EN	↓			48 25.45	125 7.85							
6	C1	0827	BE	ROS		10	48 28.96	125 15.38	156		—	0	FW DMFW	✓	
		0830	BO				48 28.97	125 15.41		148					
		0833	EN				48 28.98	125 15.42							
6	C1	0858	BO	NET		11	48 28.97	125 15.42	155	150			FW DMFW		Bongo
6	LB46	0927	BE	ROS		12	48 32.225	125 15.52	116	107	34-42	9	FW DMFW	✓	
		0930	BO				48 32.22	125 15.51							
		0938	EN				48 32.21	125 15.48							
6	B8	1048	BE	ROS		13	48 34.51	125 30.05	120		—	0	FW DMFW	✓	
		1053	BO				48 34.45	125 30.08		126					
		1056	EN				48 34.45	125 30.10							
6	B8	1109	BO	NET		14	48 34.47	125 30.04	138	120					Bongo
6	B7	1150	BO	NET		15	48 31.98	125 35.45	80	70					
6	B7	1205	BE	ROS		16	48 31.95	125 35.44	80						
		1208	BO				48 31.94	125 35.44		71	—	0			
		1209	EN				48 31.94	125 35.44							

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							Latitude	Longitude							
6	LB07	1315	BE	ROS		17	48 28.64	125 22.07	155				AS/MR	✓	
		1319	BO				48 28.67	125 22.05		145	—	Ø			
		1321	EN				48 28.68	125 22.04							
6	C3	1405	BE	ROS		18	48 23.47	125 20.81	122				AS/MR	✓	
		1409	BO				48 23.45	125 20.83		112	43-50	8			
		1418	EN				48 23.45	125 20.82							
6	C3	1440	BO	NET		19	48 23.44	125 20.8	122	115			MG/JO		
6	LB08	1527	BE	ROS		20	48 25.117	125 28.414	132						off stn - wake
1	1	1531	BO	1		1	48 25.174	125 28.428		126	51-59	9	MG	✓	boats
		1544	EN				48 25.190	125 28.496							
6	LB09	1724	BE	ROS		21	48 21.947	125 34.734	150						
1	1	1728	BO	1		1	48 21.940	125 34.735		145	60-67	8	MG	✓	
		1739	EN				48 21.928	125 34.739							
6	LB10	1823	BE	ROS		22	48 18.565	125 41.372	153			Ø	MG	✓	
1	1	1826	BO	1		1	48 18.576	125 41.375		148					
		1829	EN				48 18.586	125 41.392							
6	LB11	1912	BE	ROS		23	48 15.135	125 47.78	208		68-78	11			Data aq. started
		1919	BO				48 15.07	125 47.86		200					on deck.
		1932	EN				48 15.03	125 47.88							pump on in water

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Month <i>Sep.</i>				Year <i>2005</i>				Ship <i>Tully</i>				Cruise ID <i>2005-22</i>			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
6	LB12	2005	BE	ROS	US	24	48 12.91	125 51.80	505					✓	
		2014	BO				48 12.91	125 51.78		497	79-94	16			
		2035	EN				48 12.88	125 51.78							
6	LB13	2109	BE	ROS		25	48 10.60	125 56.00	930		—	0	FWD Int	✓	
		2121	BO				48 10.57	125 55.99		907					
		2133	EN				48 10.50	125 56.12							
6	LB14	2133	BE	ROS	US	26	48 08.44	126 00.01	1170		75-114	20	FWD Int	✓	
		2226	BO				48 08.46	125 59.97		1160					
		2259	EN				48 08.50	125 59.94							
6	LB15	2354	BE	ROS		27	48 04.42	126 08.41	1550?				AS/MR	✓	790 750 1540
7		0017	BO				48 04.54	126 08.35		1539	—	0			
		0038	EN				48 4.56	126 8.365							
7	LB16	0136	BE	ROS		28	48 00.52	126 16.96	1800?					✓	1055 710 1805
		0201	BO				48 00.53	126 16.96	1834	1824	—	0	AS/MR		
		0222	EN				48 00.50	126 17.01							
7	LB16	0232	BO	NET		29	48 00.52	126 16.95	1793?	100					Bongo for AKASH
	LC12	0610	BO	NET		30	48 15.041	126 40.031	2519	250					Bongo

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
7	LC12	0632	BE	ROS		31	48 15.013	126 39.996	258		—			X	?
1	1	0701	BO	1		1	48 15.014	126 40.007		2000		Ø			
		0720	EN	1		1	48 15.017	126 40.019							
7	LC11	0835	BE	ROS	US	32	48 18.95	126 26.74	1411		115-134	20	FW DM IW	X	?
		0903	BO	1			48 18.96	126 26.72		1450					
		0946	EN	1			48 18.98	126 26.70							
7	LC10	1039	BE	ROS CTD		33	48	126	1245				FW DM IW	X	?
		1056	BO				48 22.39	126 20.20		1243	—	Ø	AS/MR		
		1109	EN				48 22.40	126 20.21							
7	LC9	1158	BE	ROS	US	34	48 25.94	126 13.65	601				AS/MR	X	
		1210	BO				48 25.93	126 13.69		602	135-151	17			
		1235	EN				48 25.92	126 13.69							
7	LC9	1309	BO	NET		35	48 25.94	126 13.63	600	50					RING NET
7	LC9	1321	BO	NET		36	48 25.91	126 13.65	605	50					BONGO AKASH
7	LC9	1337	BO	NET		37	48 25.93	126 13.69	609	250					BONGO
7	LC8/A1	1440	BO	NET		38	48 29.39	126 06.97	198	190					BONGO
7	LC8	1458	BE	ROS		39	48 29.407	126 7.088	2000				DY MG JD		
1	1	1503	BO	1		1	48 29.413	126 7.049		195	152-162	11			
		1518	EN	1		1	48 29.413	126 7.045							

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							Latitude	Longitude							
7	LC07	1627	DE	ROS	US	40	48 32.903	126 0.432	128			Ø			
1	1	1631	BO	1		1	48 32.888	126 0.443	122	122					
1	1	1633	EN	1		1	48 32.886	126 0.440							
7	LC06	1743	BE	ROS	US	41	48 36.498	125 53.959	93						SW Loop off for
1	1	1746	BO	1		1	48 36.504	125 53.944		88	163-169	7			repairs (flavorometer
1	1	1756	EN	1		1	48 36.505	125 53.911							only)
	LC06	1820	BO	NET		42	48 36.50	125 53.95	91	85					Bongo
7	LC05	1906	BO	NET		43	48 40.04	125 47.33	65	55					Bongo
7	LC05	1924	BE	ROS	US	44	48 40.00	125 47.35	65		—	Ø	Fw Dm Iw		
		1926	BO				48 39.98	125 47.33		56					
		1927	EN				48 39.91	125 47.34							
7	LC04	2016	BE	ROS	US	45	48 43.51	125 40.81	170		170-179	10	Fw Dm Iw	✓	
		2019	BO				48 43.50	125 40.84		155					
		2030	EN				48 43.42	125 40.93							
		2050		NET		46	48 43.417	125 40.829							2 RING NET TOWS
7	LC03	2150	BE	ROS	US	47	48 46.98	125 34.16	137		—	Ø	Fw Dm Iw	✓	
		2153	BO				48 47.01	125 34.15		130					
		2155	EN				48 47.02	125 34.15							

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							Latitude	Longitude							
7	LC2	2226	BE	ROS	US	48	48 48.68	125 30.90	112		180-187	8	F. D. M. J. W.	✓	
		2229	BO				48 48.66	125 30.88		105					
		2238	EN				48 48.67	125 30.86							
7	LC1	2308	BE	ROS	US	49	48 50.43	125 27.67	97		188-194	7			
		2311	BO				48 50.41	125 27.68							
		2318	EN				48 50.51	125 27.61							
8	LG1	0440	BE	ROS	US	50	49 20.516	126 34.927	55						
1	1	0443	BO	1		1	49 20.514	126 34.913		46	195-199	5	D. J. J. B. M. G.	X	
		0449	EN				49 20.560	126 34.972							
8	LG2	0532	BE	ROS	US	51	49 18.722	126 38.137	100						Clock on Seasave
1	1	0536	BO	1	1	1	49 18.721	126 38.165		94	200-206	7	D. J. J. B. M. G. ID		34 min behind?! (not on computer)
		0543	EN				49 18.684	126 38.138							
8	LG2	0555	BO	NET		52	49 18.7	126 38.14		50					BONGO } AKASH
8	LG2	0610	BO	NET		53	49 18.71	126 38.14		50					RING
8	LG3	0702	BE	ROS		54	49 14.96	126 43.66	125		—	0	F. D. M. J. W.	X	
		0705	BO				49 15.00	126 43.66		118					
		0708	EN				49 15.00	126 43.66							

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							Latitude	Longitude							
8	LG04	0752	BE	ROS	US	55	49 11.26	126 49.34	146		207-215	9	Fw DMW	X	
		0756	BO				49 11.26	126 49.36		134					
		0807	EN				49 11.27	126 49.37							
8	LG05	0853	BE	ROS	—	56	49 07.40	126 55.37	275		—	Ø	Fw DMW	X	
		0858	BO				49 07.44	126 55.30		270					
		0903	EN				49 07.43	126 55.28							
8	LG06	0950	BE	ROS	US	57	49 03.54	127 01.18	955?		216-233	18	Fw DMW	X	
		1008	BO				49 03.63	127 01.25	970	960					
		1037	EN				49 03.81	127 01.38							
8	LG07	1124	BE	ROS	—	58	48 59.45	127 07.22	1752		—	Ø	AS/MR	X	240 448 1026 750 1226
		1152	BO				48 59.43	127 07.24	1771	1761					
		1208	EN				48 59.45	127 07.13							
8	LG08	1253	BE	ROS	—	59	48 55.33	127 13.25	2061		—	Ø	AS/MR	X	570 1320 750 2070
		1327	BO				48 55.32	127 13.27	2082	2071					
		1346	EN				48 55.29	127 13.30							
8	LG09	1435	BE	ROS	US	60	48 51.20	127 19.36	2053				AS/MR		
		1507	BO				48 51.299	127 19.25		2005	234-254	21	HG/DY/JD	X	
		1556	EN				48 51.19	127 19.39							

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							Latitude	Longitude							
8	LG9			NET		61	48 57.19	127 19.39		50					Ring NET
8	LG9			NET		62				50					Bongo
8	LBP8	2355	BE	ROS		63	49 48.64	128 16.81	2070				AS/MR	X	SFS 1330 LOPD 75W 75W
9		0030	BO				49 48.61	128 16.86		2086	—	Ø			Speed: -0.5 → 2.5
		0055	EN				49 48.61	128 16.73							
9	LBP7	0201	BE	ROS		64	49 52.43	128 11.17	2184						
		0229	BO				49 52.43	128 11.13		2005	255-275	21		X	
		0323	EN				49 52.43	128 11.26							
9	LBP7	0345	BO	NET		65	49 52.49	128 10.96	2199	250					Bongo
9	LBP6	0451	BE	ROS		66	49 56.290	128 5.454	—						
1	1	0506	BO	1		1	49 56.302	128 5.428		850		Ø			
			EN	1		1									
9	LBP5	0615	BE	ROS		67	49 59.98	128 00.00	1280		276-295	20			
		0633	BO				50 0.50	128 0.00		1280				✓	MILIE
		712	EN				50 0.04	128 0.04							
		0735	BO	NET		68	50 00.18	128 00.014	1280	250					Bongo
9	LBP4	819	BE	ROS		69	50 01.37	127 58.14	1115						
		0836	BO				50 01.37	127 58.07		1100	—	Ø			Brief stop at 50m
		0850	EN				50 1.37	127 58.10							

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← Winds gusting to 45kt, getting lumpy.

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							Latitude	Longitude							
9	LBP3	0920	BE	ROS		70	50 3.15	127 55.23	170	160	296-305	10		x	
		0924	BO	↓			50 3.14	127 55.24							
			EN	↓			50 3.15	127 55.26							
9	LBP3	1021	BO	NET		71	50 3.01	127 55.20	170	160					Bongo far
9	LBP2	1021	BO	NET		72	50 4.10	127 54.20	180	90					Bongo
		1037	BE	ROS		73	50 04.01	127 54.17	100	91		Ø		x	
		1040	BO	↓			50 4.02	127 54.18							
		1042	EN	↓			50 4.03	127 54.20							
9	LBP1	1103	BE	ROS		74	50 4.75	127 52.75	55	50		Ø		x	Blowing a gale
1	1	1105	BO	1			50 4.76	127 52.79							
1	1	1107	EN	1			50 4.76	127 52.79							
9	CPE2	1812	BE	ROS		75	50 43.057	128 40.001	123					x	
		1815	BO				50 43.051	128 40.046		118		Ø			
		1817	EN				50 43.046	128 40.082							
	CPE2	1830	BO	NET		76	50 42.7	128 40.22	110	100					BONGO
9	L203	2035	BO	NET		77	50 39.70	129 01.99	1230	250					BONGO
		2056	BE	ROS		78	50 39.80	129 2.05				Ø			
		2116	BO	↓			50 39.88	129 1.93	1345	1330					
		2134	EN	↓			50 39.90	129 1.91							

Cast type: BOT = bottle cast, no CTD CTD = CTD without Rosette ROS = Rosette plus CTD

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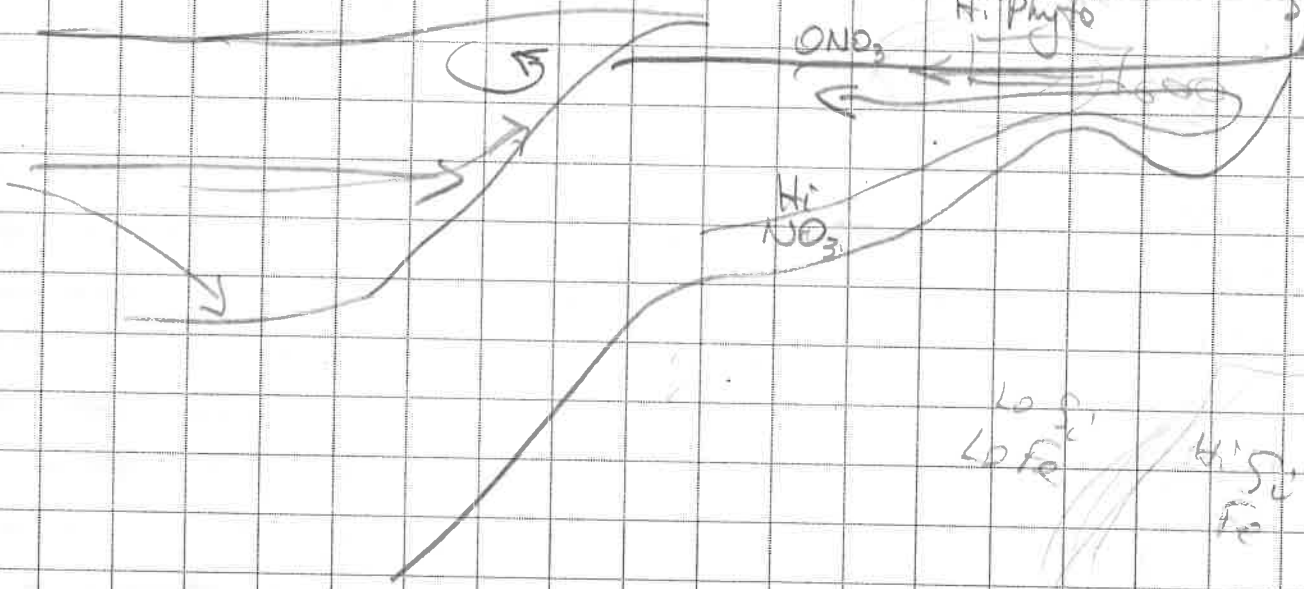
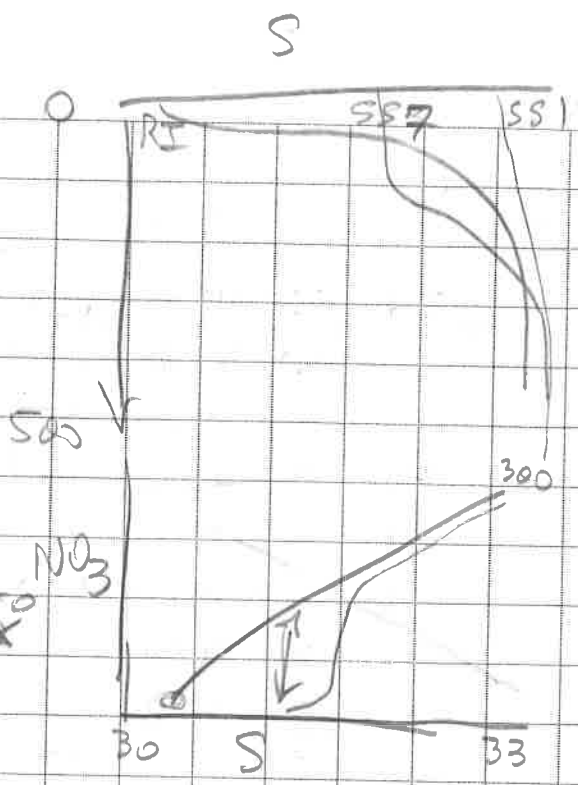
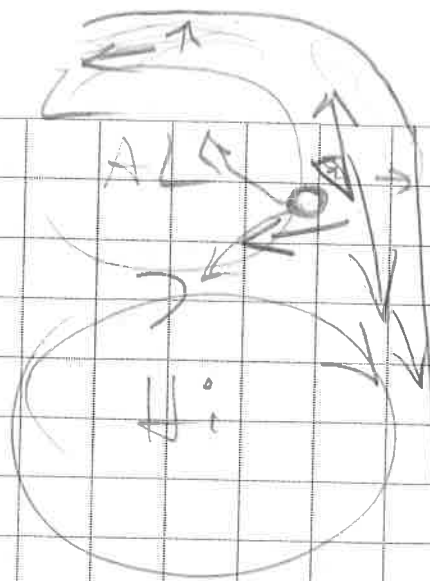
bottle firing method: US = up / stop UN = up / no stop DN = down / no stop

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

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month SEPTEMBER				Year 2005			Ship J.P. TULLY				Cruise ID 2005-22				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
10	CS01	0333	DE	ROS	US	79	50 34.907	129 41.545	2107					X	
		0346	BO				50 34.888	129 41.525		1005		4			Water for Akash
		0401	EN				50 34.891	129 41.521							
10	CS01	0420	BO	NET		80	50 34.9	129 41.5	2110	250					BONGO
10	CS01	0442	BO	NET		81	50 34.91	129 41.5		50					BONGO AKASH
10	CS02	0700	BO	NET		82	50 41.30	129 28.08	1896	250					BONGO
	CS02	716	BE	ROS		83	50 41.29	129 28.00	1901		306-323	18			
		0731	BO				50 41.32	129 28.02							
			EN				50 —	129 —							
10	CS03	0855	BE	ROS		84	50 45.62	129 20.03	236			0			
		0900	BO				50 45.63	129 20.03		230					
		0903	EN				50 45.66	129 19.99							
10	CS03		BO	NET		85	50 45.66	129 19.99	238	225					BONGO
10	CS04	1020	BO	NET		86	50 49.22	129 13.07	98	90					Bongo
		1035	BE	ROS		87	50 49.21	129 13.02			324-330	7			
		1039	BO												
		1045	EN	↓			50 49.36	129 13.04							

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							Latitude	Longitude							
10	CS3B	1248	BC	ROS		88	50° 59.95	129° 27.10	222						
		1253	BO				50° 59.96	129° 27.11		212	—	Ø	AS/MR	X	
		1255	EN				50° 59.96	129° 27.10							
10	CS3B	1316	BO	NET		89	51° 02.00	129° 27.05	222	210					BONGO
	CS05	1545	BO	NET		90	50° 55.94	129° 0.235		60					BONGO
	CS05	1554	BE	ROS		91	50° 55.981	129° 0.248	65			0			
		1557	BO				50° 55.988	129° 0.280		60					
		1600	EN				50° 55.992	129° 0.312							
10	CS06	1705	BE	ROS	US	92	51° 0.65	128° 50.080	65		331-336	6		✓	
		1708	BO				51° 0.070	128° 50.092		60					
		1714	EN				51° 0.190	128° 50.109							
	CS06	1730	BO	NET		93	51° 0.2	128° 50.11	65	60					BONGO
10	CS07		BO	NET		94	51° 04.50	128° 44.45	65	60					BONGO + Ringnet
		1907	BE	ROS	US	95	51° 04.50	128° 44.45	65		—	4			Samples for AkasL
		1911	BO				51° 04.43	128° 44.59		55					
		1916	EN				51° 04.31	128° 44.74							
10	CS09	2107	BE	ROS	—	96	51° 12.48	128° 28.00	197	191	337-347	11	FW DM JW		
		2112	BO				51° 12.49	128° 27.94							
		2120	EN												

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