

CRUISE
NUMBER

9909

DAILY LOG
INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

April 19/99 - April 23.

VESSEL

Vector

PROJECT

St. Geo Monitoring. CTD/R, Bongo,
BIDNESS, Acoustics,

files 11, 50, 63, and 70 have start time of Jan 01 80 and NMEA data
in wrong position

18 28, 30, 45, 82

15 wrong lat.

Salinity data

1, 2, 12, 15, 23, 35, 48, 53, 57, 64, 75, 77, 79, 85, 90.

Primary Salinity correction .0157

Secondary Salinity .0483

289

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1999		APRIL		VECTOR		9909		1						
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
19	S-Buoy	ROS	1604	BE	001	48° 39.06	123° 30.31		193	185				
				BU										
			1630	EN		38.98	30.09				1-12	12		
19	59	ROS	18:02	BE	002	48° 37.67	123° 14.46		236					
			1808	BO		37.41	14.32							
			18:25	EN		36.60	13.97				13-25	13		
	59	ACO	18:02	DE	003	48 37.67	123 14.46							Acou Noise
	59	ACO	18:07	DE	004									Acou Noise
	59	ACO	18:15	DE	005									Acou SRV
	60	ROS	19:12	BE	006	48 33.75	123 12.66		289	280				
	60		19:18	BO		48 33.47	123 12.41							
	60		19:24	EN		48 33.23	123 12.12							
	61	ROS	19:49	BE	007	48 29.00	123 9.05		283	281				
	61		19:53	BO		48 28.74	123 8.86							
	61			EN		48 28.55	123 8.67							
	67	ROS	21:01	BE	008	48 22.85	123 17.97		98	95				
	67		21:03	BO		48 22.83	123 17.89							
	67		21:07	EN		48 22.90	123 17.83							

CAST TYPE -

BOT -
CTD -
MOR -bottle cast
ctd
mooringROS -
NET -
DRF -rosette
net haul
drifter

USW -

sea water loop

TIME CODE -

BE -
BO -
EN -beginning time of cast
bottom time of cast
end of castDE -
MR -
RE -deployment time
messenger release
recover mooring

POSITION CODE -

RAD -
GPS -
LOR -RADAR
GLOBAL
LORAN

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE		OF		
1999			04			Vector			9909			2				
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE		LONGITUDE		POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
19	104	ROS	2137	BE	009	48 19.96	123 16.13				71	69				
			2139	BO		48 19.94	123 16.19									
			2141	EN		48 19.94	123 16.25									
		MOV	2251			48 14 1047 109	123 17 962	9782	Richard's position							Mooring deployed.
	ADCP		2304	BE	010	48 14 11	123 17 87				120					
			2306	BO	010	48 14 11	123 17 87									
			23	EN	010	48 1408	123 17 82									
Note: all CTD/rosette profiles upto + including CONSEC# 9 are in system time which was PDT. We changed system clock to UTC here after. The time zone of the computer was correct (UTC), but the time was set to PDT. We corrected this, both time + zone to UTC.																
20	101	ROS	0831	BE	011	48 25.49	124 45.14				158	150				Init. pres was -6.
			0835	BO		48 25.55	124 45.10									Bad date/time
			0839	EN		48 25.57	124 45.06									
20	102	ROS	0926	BE	012	48 29.94	124 44.12				261		26-39	14		
			0933	BO		48 29.99	124 44.09									
			1000	EN		48 30.14	124 43.97									

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 GPS -
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 RADAR
 GLOBAL
 LORAN

YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1999			04			Vector			9909			3			
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE		LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
20	103	ROS	1049	BE	013	48	32.98	124 42.95		125	114				
				BO		48	32.90	124 42.39							
			1055	EN		48	32.90	124 42.83							
20	76	CTD	1159	BE	014	48	31 37	124 29 85		93	90				
			1200	BO		48	29 71	124							
			1205	EN		48	31 36	124 29 386							
20	75	ROS	12 46	BE	015	48	28 12	124 32 57		226	217	40-53	14		
			12 51	BO		48	28 15	124 32 45							
				EN		48		124							
20	74	CTD	1405	BE	016	48	25.09	124 35.66		188	178				
			1410	BO		48	25.08	124 35.60							
			1414	EN		48	25.05	124 35.54							
20	73	CTD	1655	BE	017	48	15.10	124 6.88		163					
			1700	BO		48	15.13	6.96							
			1703	EN		48	15.15	7.02							
	72	ROS	1737	BE	018	48°	18.66	124° 4.22		184	180	54-66	13		
			1742	BO		48	18.70	124° 4.38							
			1756	EN		48	18.81	124° 5.01							

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DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1999		04		Vector		9909		4		4				
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
20	72	ACO			019									ACOU SRV
	71	CTD	18:48	BE	020	40 22.14	123 59.78		112	107				
			18:52	BO										
			18:54	EN										
	71	ACO	1852	DE	021	48 22.14	123 59.78							
	70	CTD	2030	BE	022	48 19.22	123 43.22		150	145				
			2033	BO		48 19.24	123 43.19							
			2036	EN		48 19.28	123 43.23							
	69	ROS	2110	BE	023	48 15.63	123 43.65		170	167	#67-78			
				BO		48 15.72	123 44.05							
			2132	EN		48 15.84	123 44.79							
	68	CTD	2215	BE	024	48 12.19	123 42.99		130	125				
			2218	BO		48 12.19	123 43.11							
			2221	EN		48 12.18	123 43.17							

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YEAR		MONTH		SHIP		CRUISE		PAGE						
1999		04		Vector		9909		5 OF						
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
21	105	CTD	00:45	BE	025	48 1100	123 1900		80					
			00:47	BO		48 10 93	123 18 63		84					
			00:50	EN		48 10 92	123 18 56							
21	64	CTD	01:50	BE	026	48 12 83	123 5 90		108	95				
			01:55	BO		48 12 87	123 5 51							
			01:57	EN		48 12 90	123 5 25							
21	63	CTD	2:09	BE	027	48 14 62	122 58 46		156	140				
			2:33	BO		48 14 59	122 58 32							
			2:37	EN		48 14 58	122 58 31							
21	65	ROS	03:40	BE	028	48 15 93	123 9 72							
			03:43	BO		15 94	9 65		128					
			03:55	EN		16 00	9 41				54a 63a	10		Rosette banded into A frame
21	66	CTD	04:33	BE	029	48° 19.34	123° 13.98		105					#54-63 already used on Stn 72.
			04:36	BO		19.36	13.84							
			04:39	EN		19.38	13.73							
	62	ROS	05:36	BE	030	48° 22.86	123° 2.79		152		79-89			
			05:34	BO		22 93	2 71							
			05:47	EN		23.11	2 69							

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YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1999		04		Vector		9909		6		OF				
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
21	54	ROS	0720	BE	031	48 26.57	122 44.34		82	75				
			0722	BO		48 26.57	122 44.30							
			0724	EN		48 26.57	122 44.29							
	53	ROS	0818	BE	032	48 33.01	122 44.89		58	52				
			0820	BO		48 32.96	122 44.87							
			0822	EN		48 32.94	122 44.86							
	52	ROS	0927	BE	033	48 38.81	122 43.26		81	75				
21			0929	BO		48 38.76	122 43.26							
			0931	EN		48 38.71	122 43.26							
	51	ROS	1056	BE	034	48 46.60	122 51.35		158	146				
			1101	BO		48 46.55	122 51.28							
			1105	EN		48 46.49	122 51.17							
21	56	ROS	1209	BE	035	48 46.43	123 01.50		214	200				
			1214	BO		48 46.46	123 1.45							
			1228	EN		48 46.61	123 1.23							
21	57	CTD	1322	BE	036	48 48.99	123 8.02		156	144				
			1325	BO		48 44.02	123 8.00							
			1329	EN		48 44.05	123 7.97							

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YEAR			MONTH			SHIP			CRUISE			PAGE		OF		
1999			April			Vector			9909			7				
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE		LONGITUDE		POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
21	47	CTD	1438	BE	037	48	49 28	123	6 24	GPS	186	175				
			1442	BO		48	49 28	123	6 25							
			1446	EN		48	49 30	123	6 24							
21	48	CTD	1512	BE	038	48°	51.70	123°	3.24		232					
			1518	BO		48°	51.65	123°	3.32							
			1523	EN		48°	51.60	123°	3.38							
		A20			039											A200 SNP
		A20			040											A200 SNP
		A20			041											A200 SRV
21	49	CTD	16:00	BE	042	48°	54.99	122°	59.55		130					
			16:04	BO		48°	54.98	122°	59.55							
			16:07	EN		48°	54.98	122°	59.57							
	44	CTD	16:46	BE	043	48°	56.78	123°	6.05		115					
			16:49	BO		48°	56.78	123°	6.10							
			16:52	EN		48°	56.78	123°	6.12							
	45	CTD	17:21	BE	044	48°	53.86	123°	8.30		120					
			17:25	BO		48°	53.83	123°	8.20							
			17:28	EN		48°	53.81	123°	8.15							

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YEAR		MONTH			SHIP		CRUISE					PAGE		OF	
1999		April			VECTOR		9909					8			
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS	
21	46	ROS	17:56	BE	045	48° 51.39	123° 10.69		170						
			18:00	BO		51.40	10.57								
			18:16	EN											
21	43	CTD	20:25	BE	046	49 0.26	123 30.15		187 202					Wrong name in the file header: 46 instead of 43.	
			20:32	BO		49 0.29	123 30.16								
			20:37	EN		49 0.31	123 30.16								
		ACO		DE	047									Aco = SRV	
21	42	ROS	21:05	BE	048	49 1.79	123 26.13		321	315				ROSETTE fixed	
			21:11	BO		49 1.8	123 26.07							#8 and #9 back in operation	
			21:30	EN		49 1.8	123 25.89								
21	41	CTD	22:01	BE	049	49 3.27	123 22.41		247	241					
			22:07	BO		49 3.22	123 22.48								
			22:13	EN		49 3.18	123 22.51								
21	37	CTD	23:35	BE	050	49 13.63	123 20.71		214	210				Wrong date/time	
			23:40	BO		49 13.67	123 20.70								
			23:44	EN		49 13.71	123 20.70								

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YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1999		April		VECTOR		9909		9		9				
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
22	38	CTD	00:22	BE	051	49 12.98	123 26.37		310	297				
			00:29	BO		49 11.97	123 26.35							
			00:	EN		49	123							
		ACO			052									ACOUS SRV
22	39	CTD ROS	01:17	BE	053	49 9.83	123 32.98		388	366	131-146	16		
			1:25	BO		49 9.93	123 32.92							
			1:43	EN		49 10.12	123 32.76							
22	40	CTD	2:13	BE	054	49 8.6	123 36.79		150	147				
			2:16	BO		49 8.58	123 36.76							
			2:20	EN		49 8.58	123 36.72							
22	26	CTD	0345	BE	055	49 14.30	123 50.76		250					
			0350	BO		49 14.28	123 50.68							
			0356	EN		49 14.27	123 50.61							
		ACO			056									ACO
	27	ROS	0435	BE	057	49° 19.10	123° 47.97		353		147-162	16		
			04:42	BO		49° 19.12	123° 47.92							
			0504	EN		49° 19.17	123° 47.76							

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YEAR 1999			MONTH APRIL			SHIP VECTOR				CRUISE 9909				PAGE 10	OF
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS	
22	28	CTD	0547	BE	058	49° 24.10	123° 45.27		139						
			0551	BO		49° 24.11	123° 45.23								
			0553	EN		24.11	45.20								
	Mala	NET	0849		059				-	-		-		Night BIONESS-test	
	Mala	NET	0852	BE	060	49 42.7	124 14.2		285	250		8		Night BIONESS	
		ACO		DE	061									Acou SRV	
24		CTD	11:10	BE	062	49 30.21	124 6.02		425	418					
			11:24	BO		49 30.16	124 6.04								
			11:34	EN		49 30.08	124 6.08								
25		CTD	11:53	BE	063	49 27.71	124 7.48		320	290				wrong date/time	
			11:59	BO		49 27.65	124 7.51								
			12:06	EN		49 27.61	124 7.47								
2		^{ROS} CTD	12:42	BE	064	49 24.12	124 9.18		280	269					
			12:48	BO		49 24.05	124 9.05								
			13:07	EN		49 23.89	124 8.64								
	Mala	NET			065	49 42.7	124 14.2							BIONESS-day	
	Mala	ACO			066									Acou - SRV	

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YEAR			MONTH		SHIP		CRUISE					PAGE		OF	
1999			April		VECTOR		9909					11			
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD-HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS	
22	22	CTD	1708	BE	67	49° 40.22	124° 16.22		350						
			1716	BO		49° 40.15	124° 16.24								
			1723	EN		40.09	16.25								
		Azo		DE	68									Azo - SRV	
		Azo		DE	69									Azo - SRV	
20	CTD	1905	BE	70		49° 47.20	124° 32.30		320					wrong date/time	
			1912	BO		47.17	32.26								
			1917	EN		47.15	32.23								
19	CTD	2141	BE	71		50 1.21	124 52.97		271	268					
			2147	BO		50 1.22	124 52.99								
			2152	EN		50 1.23	124 52.98								
19	Azo	2157	DE	72		50 1.23	124 52.98							Azo - SRV	
18	CTD	2234	BE	73		49 59.15	124 58.97		140	136					
			2237	BO		49 59.13	124 59.02								
			2239	EN		49 59.12	124 59.05								
17	CTD	2309	BE	74		49 58.79	125 4.32		255	250					
				BO		49 58.8	125 4.38								
			2320	EN		49 58.87	125 4.43								

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ROS -

rosette

USW -

sea water loop

TIME CODE -

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beginning time of cast

DE -

deployment time

POSITION CODE -

RAD -

RADAR

CTD -

ctd

NET -

net haul

BO -

bottom time of cast

MR -

messenger release

GPS -

GLOBAL

MOR -

mooring

DRF -

drifter

EN -

end of cast

RE -

recover mooring

LOR -

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YEAR 1999			MONTH April			SHIP VECTOR				CRUISE 9909				PAGE 12	OF
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS	
22	16	CTD	23:46	BE	75	49 57.73	125 8.83		145	145	178-188	11			
			23:50	BO		49 57.76	125 9.89								
			00:06	EN		49 57.75	125 8.90								
23	15	CTD	1:02	BE	76	49 51.57	125 1.57		128	122					
			1:05	BO		49 51.58	125 1.56								
			1:07	EN		49 51.58	125 1.53								
	14	CTD	1:31	BE	77	49 53.02	124 59.64		311	306	189-203	15			
			1:37	BO		49 53.05	124 59.7								
			1:52	EN		49 53.18	124 59.78								
	13	CTD	2:23	BE	78	49 55.31	124 55.20		240	233					
			2:28	BO		49 55.34	124 55.23								
				EN											
	12	CTD	04:18	BE	79	49° 43.61	124° 40.81		357		204-219	16			
			04:25	BO		49° 43.59	124° 40.75								
			04:45	EN		49° 43.60	124° 40.66								
23	11	CTD	05:13	BE	80	49° 42.42	124° 43.48		304						
			05:19	BO		49° 42.43	124° 43.54								
			05:25	EN		49° 42.44	124° 43.58								

CAST TYPE -

BOT -
CTD -
MOR -bottle cast
ctd
mooringROS -
NET -
DRF -rosette
net haul
drifter

USW -

sea water loop

TIME CODE -

BE -
BO -
EN -beginning time of cast
bottom time of cast
end of castDE -
MR -
RE -deployment time
messenger release
recover mooring

POSITION CODE -

RAD -
GPS -
LOR -RADAR
GLOBAL
LORAN

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE 13 OF				
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE		LONGITUDE		POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
23	10	CTD	0556	BE	81	49° 40.70	124° 47.29				99					
			0558	BO		49° 40.69	124° 47.28									
			0600	EN		40.69	47.26									
	9	ROS	0652	BE	82	49° 35.48	124° 38.32				172					
			0657	BO		35.47	38.35									
			0713	EN		49 35.42	124 38.43									
	8	ROS	0800	BE	83	49 39.27	124 33.60				341	335				
			0807	BO		49 39.30	124 32.97									
			0815	EN		49 39.31	124 32.96									
	7	ROS	0907	BE	84	49 34.41	124 24.19				355	345				
			0915	BO		49 34.38	124 24.22									
			0923	EN		49 34.38	124 24.26									
	6	ROS	0959	BE	85	49 30.60	124 27.79				196		232-244	13		
			1003	BO		49 30.55	124 27.77									
			1021	EN		49 30.33	124 27.66									
	CPR2	NET	1132	BE	86	49 27.86	124 30.19									COPRA Bongo

CAST TYPE -

BOT -

bottle cast

CTD -

ctd

MOR -

mooring

ROS -

rosette

NET -

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sea water loop

TIME CODE -

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beginning time of cast

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recover mooring

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GPS -

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LOR -

LORAN

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OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
99		April		VECTOR		9909		14						
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
23	5	CTD	11:47	BE	87	49 27.72	124 29.87		330	326				station 5 and CPF2 combined
			11:56	BO		49 27.68	124 29.74							
			12:01	EN		49 27.69	124 29.72							
	CPF2	ACO			88									Acoustics - SRV
	4	CTD	12:42	DE	89	49 24.45	124 22.07		335	328				
			12:50	BO		49 24.38	124 22.02							
			12:58	EN		49 24.34	124 21.95							
	3	ROS CTD	13:30	BE	90	49 26.58	124 20.20		325	320				
			13:37	BO		49 26.56	124 20.17							
			13:58	EN		49 26.42	124 19.89							
	1	CTD	14:52	BE	91	49 20.32	124 12.6		247	242				
			14:58	BO		49 20.29	124 12.03							
			15:03	EN		49 20.28	124 11.97							
	CPF1	CTD	1536	BE	92	49 21.01	124° 6.93		425					
			1545	BO		49° 20.91	124° 6.88							
			1553	EN		49° 20.84	124° 6.84							
	CPF1	NET		BE	93					250				COPRA Bongo
	CPF1	ACO		DE	94									Acoustics SRV

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