104928

USGS - BAMG

NAVIGATION LOG

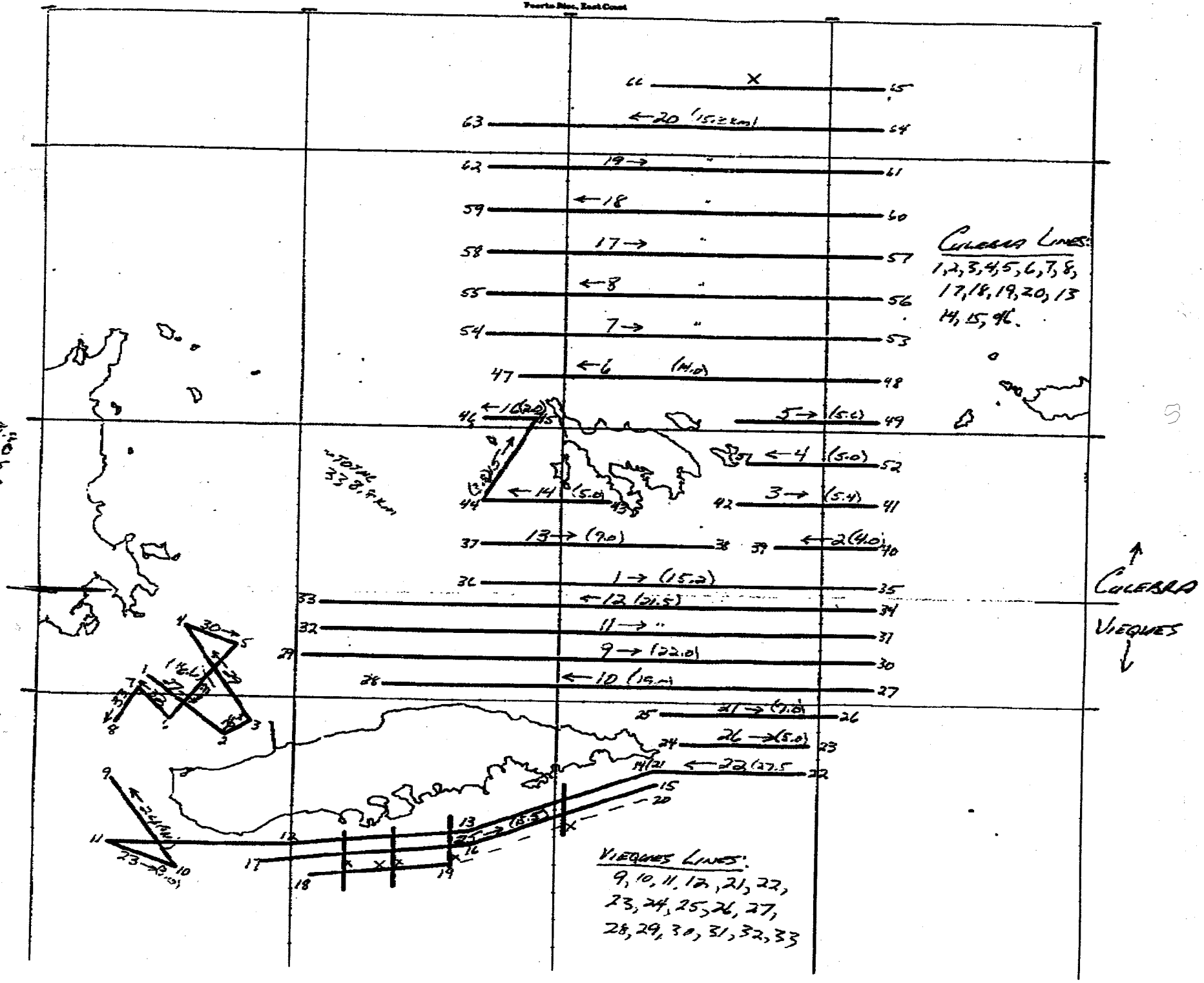
SHIP: R/V ISLA MAGUEYES

CRUISE: MI-95-PR MGYS95021

AREA: PUERTO RICO (CULEBRA - VIEQUES)

DATES: 12-23 JULY 1995

CHIEF SCIENTIST: MONTY HAMPTON


Puerto Rico, East Coast
Culebra Lines:
1, 2, 3, 4, 5, 6, 7, 8, 17, 18, 19, 20, 13, 14, 15, 9C.
Vieques Lines:
9, 10, 11, 12, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33
Culebra
Vieques
TOTAL 338.8 km

* LOCAL TIME IS 4 HRS BEHIND GMT

YrMoDy	JulDy	GMT ~~Time+Zone~~	Line#	Latitude N	Longitude W	Course	Speed	NAV Disk#	Comments ROOSVELT ROADS	
7/12/95	193	0600A 1000 HRS	TRAN						LV. DOCK, START CRUZ STEAM TO TEST LINE - SHAKE DOWN	
		1032	"					* 1	START DISK 1	
		1100	"	18 14.11	-65 29.35	66.4	9.0			
SOL 1		1230	1	18 14.28	-65 22.77	90	4.2		SOL #1	24.1m
		1245	1	18 14.29	-65 21.48	86.3	5.6		Routine	24.3m
	193	1300	1	18 14.30	-65 20.14	87.3	4.6	1	Routine	24.7m
		1330	1	18 14.30	-65 17.45	85.2	5.2	1	Routine	24.7m
		1345-1350		~~18 14.23~~	~~-65 14.80~~	~~83.8~~	~~4.6~~		OUTCROP/HIGH - REEF?	
	193	1400		18 14.23	-65 14.80	83.8	4.6			
		1405							- subbottom REFLECTOR DISSAPPEARS. SF REFL. CHANGE	
		1440							S.F. REFL. - PINNACLES? SHARP BEDFORMS. NO SUBBOTTOM	
		1500		18 14.27	-65 09.78				Routine	
EOL #1		1520		18 14.31	-65 08.11				EOL # 1	
SOL 2	193	1549		18°15.72'	-65°08.04'				SOL 2	
EOL 2		1635		18°15.75'	-65°11.77'				EOL 2	
		1700		18°17.05'	-65° 12.99'				TURN to LINE 3	
SOL 3		1706		18°17.32'	-65°13.03'	111	4.1		SOL 3	
EOL 3		1810		18°17.33'	-65°07.10'	100.5	4.3		EOL 3	

All Sept DATA is P/SR P-code GPS
ASHTECH LOGGED RAW

YrMoDy	JulDy	GMT ~~Time+Zone~~	Line#	Latitude N	Longitude W	Course	Speed	NAV Disk#	Comments
7/12/95	193	1836	4						SOL 4 NAV CRASHED @ SOL4
		1842				270	5.3	1	NAVIGATION UP
	193	1935				305°	4.2	1	EOL #4 27m
	193	1957	5	18°20.35'	-65°13.29'	117	3.6		SOL 5 41m
	193	2100	5	18 20.35'	-65°08.01'	94	5.2	END 1	EOL 5
TRAN									TRANSIT TO ST. THOMAS
7/13/95 TRAN	194	1000							TRANSIT FROM ST. THOMAS
	194	1145	6	18°21.93'	-65 07.90'	270°	5.3	START 2	SOL #6
		1200		18°21.96'	-65° 09.21'	283.2	4.7		ROUTINE 43.4m
	194	1250	6						BOOMER DOWN POWER FLUCTUATIONS
	194	1300	6	18°21.94'	-65° 14.37'	276°	5.0	2	ROUTINE 48.4m
	194	1424	6	18°21.96'	-65°21.67'	271°	5.1		EOL 6
	194	1457	7	18°23.50	-65°22.88	80°	4.8		SOL 7
		~~1551~~							~~Tape deck off line~~
	194	1744	7	18° 23.50'	-65° 07.96'				EOL 7
	194	1807	8	18°24.96'	-65 07.91	260	6.7		SOL 8
	194	2105	8	18°24.99'	-65 22.99	270	4.0	END 2	EOL8
									TRANSIT TO ROOSEVELT ROADS.

YrMoDy	JulDy	GMT ~~Time+Zone~~	Line#	Latitude N	Longitude W	Course	Speed	NAV Disk#	Comments
7/14/95	195	2/200	TRAN						STEAM TO LINE #9 WP #29-30. SHAKEDOWN
	195	1350	TRAN					3	START DISK 3
	195	1400	9	18°11.56'	-65°29.52'	94.2 ~~#9~~	4.9		SOL 9
	195	1429							INCREASE FIRE RATE ON
									3.5 TO 250 ms
	195	1500	9	18°11.56'	-65°24.35	87.8	4.5	3	Routine
	195	1600	9	18°11.55'	-65°18.91'	90	5.0	3	Routine
	195	1700	9	18 11.56'	-65° 13.12'	98.4	5.4	3	Routine
	195	1757	9	18°11.56'	-65°07.99'	79.5	4.7	3	EOL #9 37.3 m
	195	1800	~~9~~ 12						TRAN to SOL #10
	195	1818	10	18°10.56'	-65°08.01	262.7	4.4	3	SOL #10
	195	1900	10	18°10.54'	-65° 11.52'	272.5	5.0	3	Routine
	195	2000	10	18° 10.54'	-65° 16.58'	276.1	4.7	3	Routine
	195	2100	10	18°	-65°			3	Routine
	195	2147	10	18° 10.55	-65°26.67'	266.4	5.6	3	EOL 10
									TRANSit to ROOSEVELT ROADS
7/15/95	196	1101	11	18°12.53'	-65°29.29'	92.8	4.5	#4	SOL 11
	196	1506	11	18°12.53'	-65°07.87	90.8	5.0	#4	EOL 11

YrMoDy	JulDy	GMT ~~Time+Zone~~	Line#	Latitude N	Longitude W	Course	Speed	Disk#	Comments
7/15/95	196	1507	TRAN					4	TRAN to SOL #2
	196	1518	12	18°13.50'	-65 08.03	264.1	3.5		SOL #12
	196	1910	12	18°13.48'	-65° 29.06'	273.7	5.5	4	EOL #12
	196	1911	TRAN						TRAN to SOL 13
	196	2015	TRAN						END TRAN to SOL 13
	196	2018	13	18°15.70'	-65° 23.10'	99.8	5.1	4	SOL 13
7/15/95	196	2157	13	18°15.70	-65° 14.20'	86	5.1	4	EOL 13
	196	2200							TRANSIT to Isla Culebra
7/16/95	197	1030	TR					5	LV Culebra - DEPLOY GEAR
	197	1042	14	18°17.31'	-65° 18.33'	267	5.5	5	SOL # 14
	197	1130	14	18°17.30	-65°22.92	269.2	4.9	5	EOL # 14
	197	1130	15	1817.30	-65°22.92	269.2	4.9	5	SOL # 15
	197	1210	15	18 20.26	-65 21.04	40.1	6.4	5	EOL 15
	197	1210	16	"	"	"	"	5	SOL 16
	197	1234	16	18°20.34'	-65 °23.08'	289.7	5.3	5	EOL 16
	197	1235	TRAN	18°20.42'	-65° 23.08'	355	7.9	5	TRAN to SOL #17
	197	1345	17	18°26.49'	-65° 22.94	117	3.5	5	SOL 17
	197	1643	17	18°26.43'	-65° 07.98'	93.9	5.2	5	EOL 17

YrMoDy	JulDy	~~Time+Zone~~ GMT	Line#	Latitude N	Longitude W	Course	Speed	Disk#	Comments
7/16/95	197	1701	18	18°27.99'	-65°08.03'	257	4.9	5	SOL #18
	197	1956	18	18°27.98	-65°23.16	270	5.1	5	EOL 18 48.4gm
	197	2007	19	18°29.45'	-65°22.98'	82	4.1	5	SOL 19
	~~197~~	~~2010~~	~~19~~						~~[illegible]~~
	197	2130	19	18 29.49'	-65°15.95'	90.8	5.0	5	SUSPENDS LINE (GETTING LOADS) TRANSIT TO GALEBRA
7/17/95	198	1148							SYSTEMS DEPLOYED - STEAM TO RESUME LINE 19
	198	1151	19	18°29.48'	-65°16.73	127.3	4.7	6	SOL 19 + DISK 6 } RECOVERY
	198	1334	19	18°29.49'	-65°07.83'	85.7	4.8	6	EOL #19
	198	1335	TR						TRANSit to SOL 20
	198	1351	20	18°31.08'	-65°08.12'	253.0	5.2	6	SOL 20
	198	1638	20	18°31.03'	-65°22.24	272	4.1	6	EOL 20
	198	1829:40		18°30.89	-65°20.59				STATION 1 ON BOTTOM TIME + LOCATIONS
	198	1847:10		18° 29.40'	-65° 20.14'				STATION 2
	198	1902:05		18° 28.02'	-65° 20.15'				STATION 3
	198	19:17:15		18° 26.39'	-65° 19.99'				STATION 4 DROP 1
	198	19:21:15		18° 26.37	-65° 20.04'				STATION 4 DROP 2
	198	19:35:35		18° 24.98	-65° 20.04				STATION 5
	198	19:52		18° 23.39	-65° 20.06			6	STATION 6

YrMoDy	JulDy	GMT ~~Time+Zone~~	Line#	Latitude N	Longitude W	Course	Speed	Disk#	Comments
7/17/95	198	2006		18° 21.89'	-65° 20.00'				STATION 7 DROP
	198	2009		18° 21.88'	-65° 20.04'				STATION 7 DROP 2
	198	2046		18° 21.89'	-65° 15.08'				STATION 8
	198	2104		18° 23.51'	-65° 15.02'				STATION 9
	198	2118		18° 24.95'	-65° 15.01				STATION 10
	~~198~~	~~2130~~		~~18° 26.36'~~	~~-65° 15.02~~			~~6~~	~~STATION 11 END~~
	198	2132		18° 26.40	-65° 15.04				STATION 11
	198	2135		18° 26.49	-65° 15.07			6/7	END DISK 6/START
	198	2147		18° 28.02	-65° 15.14			7	STATION 12
	198	2202		18° 29.55'	-65° 15.13				STATION 13 DROP
	198	2206		18° 29.55'	-65° 15.18'				STATION 13 DROP
	198	2210		18° 29.54'	-65° 15.23'				STATION 13 DROP 3
	198	2224		18° 30.95'	-65° 15.14				STATION 14
	198	2304		18° 31.11'	-65° 10.08'				STATION 15
	198	2322		18° 29.44	-65° 10.10'				STATION 16
	198	2337		18° 27.93	-65° 10.13'				STATION 17 DROP
	198	2341		18° 27.95	-65° 10.18'				STATION 18 DROP
	198	2356		18° 26.44'	-65° 10.12'				STATION 18

YrMoDy	JulDy	GMT ~~Time+Zone~~	Line#	Latitude N	Longitude W	Course	Speed	Disk#	Comments
7/17/95	199 ~~199~~	0000		18°24.86'	-65°10.06'			7	STATION 19
	199	0037		18°23.43'	-65°10.07'				STATION 20
	199	0053		18°21.92	-65°10.10				STATION 21
	199	0100		18°21.89'	-65°10.09'				TRANSIT TO PORT ST. THOMAS
	"	"		"	"			8	CHANGE TO NEW DISK 8
	199	1758		18°20.04	-65°09.99			8	STATION 22 DROP 1
7/18/95	199	1800		18°20.05	-65°09.98			8	STATION 22 DROP 2
	199	1804		18°20.06	-65°09.98				STATION 22 DROP 3
	199	1829		18°19.98	-65°13.04			8	STATION 23.
	199	1846		18°17.92'	-65°12.00'				STATION 24 DROP 1 (NR)
	199	1848		18°17.89'	-65°12.01'				STA 24 DROP 2
	199	1906		18°17.94'	-65°09.98'			8	STATION 25
	199	1916		18°16.88'	-65°10.05'				STATION 26 DROP 1
	199	1919		18°16.83'	-65°10.05'				STATION 26 DROP 2
	199	1943		18°17.04	-65°12.98'				STATION 27 DROP 1
	199	1945		18°17.06'	-65°13.01'				STATION 27 DROP 2
	199	2012		18°14.92'	-65°10.01				STATION 28 DROP 1
	199	2015		18°14.87'	-65°09.99'			8	STATION 28 DROP 2

YrMoDy	JulDy	~~Time+Zone~~ GMT	Line#	Latitude N	Longitude W	Course	Speed	Disk#	Comments
7/18/95	199	2018		18°14.82'	-65°09.99'			8	STATION 28 DROP 3
	199	2027		18°13.91'	-65°10.02'				STATION 29 DROP 1
	199	2030		18°13.87'	-65°10.01'				STATION 29 DROP 2
	199	2035		18°13.82'	-65°10.00'				STATION 29 DROP 3 {DIDN'T TRIGGER
	199	2039		18 13.79'	-65°10.01'				STATION 29 DROP 4 {DIDN'T TRIGGER
	199	2103		18° 13.91'	-65°10.05'				STATION 29 DROP 5
	199	2113		18° 13.05'	-65° 10.13'			8	STATION 30
	199	2125		18°12.04'	-65° 10.05'				STATION 31
	199	2133		18°11.41'	-65°10.08'				STATION 32 DROP 1
	199	2135		18°11.36'	-65°10.11'				STATION 32 DROP 2
	199	2139		18°11.31	-65°10.15'				STATION 32 DROP 3
	199	2149		18°10.40'	-65°10.09'				STATION 33 DROP 1
	199	2152		18°10.37'	-65°10.10'				STATION 33 DROP 2
	199	2227		18°10.50'	-65°15.07				STATION 34
	199	2303		18°10.53'	-65°20.07'				STATION 35
	199	2337		18°10.50'	-65°25.07			8	STATION 36
									TRANSIT TO ROOSEVELT ROADS.
								8	

YrMoDy	JulDy	~~Time~~ GMT Zone	Line#	Latitude N	Longitude W	Course	Speed	Disk#	Comments
7/19/95	200	1230	TR					9	TRANSIT FROM ROOSVELT ROADS TO SHALLOW AREA
		~~1252~~							TO COMMENCE "FWP" CRUISE + SOL #2
		1252							GEOPULSE SICK - NO SIGNAL
	200	1341	TR						RECOVER SEISMIC GEAR switch to SAMPLING
	200	1345		18° 10.58'	-65° 35.47'			9	during electrical diagnostics START DISK 9
	200	1349	STA	18° 10.72	-65° 35.64'			9	STATION 37
	200	1423	STA	18° 09.15	-65° 31.58			9	STATION 38
	200	1445	STA	18° 21.14'	-65° 32.34			9	STATION 39
	200	1445	STA	18° 21.14'	-65° 32.34			9	~~STATION 40~~ STEAM to ROOSVELT Rd
*	200	1600	TRAN						LV ROOSVELT ROADS STEAM TO STATION 40.*
	200	1754		18° 11.63'	-65° 25.05'				STATION 40
	200	1809		18° 13.45'	-65° 25.00'				STATION 41
	200	1900		18° 20.34'	-65° 22.94'				STATION 42
	200	1913		18° 19.50'	-65° 21.78'				STATION 43
	200	1935		18° 16.94'	-65° 20.15'				STATION 44
	200	1959		18° 13.83'	-65° 20.08'				STATION 45
	200	2011		18° 12.46'	-65° 20.04'				STATION 46
	200	2050		18° 11.48'	-65 14.97'			9	STATION 47

* NOTE: while steaming to STATION 40 we DEPLOYED All Seismic Systems to TEST + determine REASONS FOR LOSS OF BOTH SIGNALS. BOTH 3.5 & BOOMER REQUIRED ATTENTION. BOOMER REQUIRED STREAMER SWAP. 3.5 REQUIRED

YrMoDy	JulDy	~~Time+Zone~~ GMT	Line#	Latitude N	Longitude W	Course	Speed	Disk#	Comments
7/19/95	200	2107		18°13.44'	-65°15.01'			9	STATION 48 DROP 1
	200	2110		18°13.44'	-65°15.03'				STATION 48 DROP 2
	200	2133		18°15.80'	-65°15.01'				STATION 49
	200	2240		18°09.59'	-65°10.85'				STATION 50 DROP 1
	200	2243		18°09.61'	-65°10.93'				STATION 50 DROP 2
	200	2247		18°09.62'	-65°11.00'				STATION 50 DROP 3
	200	2317		18°09.57	-65°15.14'				STATION 51 #1
	200	2319		18°09.57	-65°15.18'				STATION 51 DROP 2
	200	2322		18°09.57°	-65°15.22'			9	STATION 51 DROP 3
	200	2327						9	TRANSIT to SOL 21
	200	2331:26		18°09.60'	-65°16.00'			9	END DISK #9
	200	2332		18°09.66	-65°16.12'			10	START DISK #10
7/19/95	200	2348	21	18 09.56	-65.16.33	126.2	4.8	10	SOL #21
	201	0106	21	1809.56	65 10.35	086	6.7	10	SOL #21 (OVER THE ROCKS)
	—	—		—	—	—	—		TRANSIT TO SOL 22
	201	0150	22	1807.45	65° 10.52	286	5.5		SOL 22
	201	0303	22	1807.46	65 16.24	251	4.9		CHANGES COURSE #4
	201	0305	22					10	OFF LINE TO AVOID ROCKS

YrMoDy	JulDy	GMT ~~Time+Zone~~	Line#	Latitude N	Longitude W	Course	Speed	Disk#	Comments
7/19/95	201	0400	22	18° 05.54	65°21.55	218	5.6	10	OFF LINE TO AVOID REEF
									SKIRTING AROUND REEF WILL COME BACK ON ~1/2 HR.
7/20/95	201	0429	22	18°04.27	-65°23.55	268	6.5	10	C/C W.P. 13-12 COMMING BACK ON LINE.
	201	0440		18°04.82'	-65°24.44	321	5.7	10	STILL COMMING BACK ON TO LINE W.P. 13 → 12
*	201	0535	22	18°04.57	-65 30.04'	260	6.1	10	C/C to W.P. 12-11
*	201	0548	←	13 MIN	OF LOST DA	TA	→		RECORDER ROUND to HAVE CRASHED - 13 MINUTES OF DATA LOST. BACK ON @ 0548 Z
	~~201~~	~~0640~~		~~18°04.60'~~	~~-65°37.09'~~	~~270~~	~~6.2~~		
	201	0640	23	18°04.60'	-65°37.09'	270	6.2		C/C - W.P. 11 → 10 EOL 22
	201	0645	23	18°04.49'	-65° 37.01'	119	4.6		LINE 23.
	201	0721	23	18°03.70'	-65° 34.38'	174	4.5		EOL 23
	201	0723	24	18°03.75'	-65° 34.48	332	5.5		SOL 24
	201	0811	24	18°06.91'	-65°37.01'	317	3.7		EOL 24
		0940							TRANSit to SoL 25
	201	0948	25	18°03.99'	-65° 31.33'	98	4.3	10	SOC #25
	201	0950	25	18°03.96	-65 30.93	92	4.2	10	Change Course WAYPOINT 17 → 16
		~~1121~~							* course changed to get onto shelf depths
		1126		18°04.567	65 23.20	72.5	4.6		CHANGES COURSES - OFF LINE - REEF
		1130		18°04.43	65° 23.10	90	4.6		C/C WP 16-15
									STILL OFF LINE TO AVOID REEF

GENGE'S LIÑA

YrMoDy	JulDy	GMT ~~Time+Zone~~	Line#	Latitude N	Longitude W	Course	Speed	Disk#	Comments
7/20/95	201	1305	25	18°6.99	65° 16.08	74	4.2	10	EOL 25 TRANSIT TO 26
	201	1322	26	18°08.09	65°15.15	36.6	5.5		SOL 26
	201	1330	26	18°08.48	-65°14.68	~90°	4.5	10	CC to ACTUAL COURSE SORTOE
	201	1421	26	18°08.47'	-65°10.87'	92.0	4.4	10	EOL 26
	201	1710	27	18°10.68'	-65°35.69	117	5.4	10	SOL 27
	201	1748	27	18°08.63'	-65°32.72	128	5.4	10	EOL 27
	"	"	"	"	"	"	"	"	SOL 28
	201	1802	28	18°09.07	-65°31.70	54.3	4.1	10	EOL 28
	"	"	29	"	"	"	"	"	SOL 29
	201	1848	29	18 12.64	-65 34.30	86	4.1	10	EOL 29
	"	"	30	"	"	"	"	"	SOL 30
	201	1914	30	18°11.91'	-65°32.35'	115	4.5	"	EOL 30
	"	"	31	"	"	"	"	"	SOL 31
	201	1950	31	18°09.25'	-65°34.76'	312	5.6		EOL 31
	"	"	32	"	"	"	"	"	SOL 32
	201	2006	32	18°10.23'	-65°36.03	320	6.2	"	EOL 32
	"	"	"	"	"	"	"	"	SOL 33
	201	2023	"	18°08.95'	-65 36.98	208	5.8	"	EOL 33 - END Cruise

TRANSIT TO ROOSVELT ROADS P.R.