

## LORAN LOG

Cruise I.D. IG-115-1Year 1975-11 MAYLORAN-C (SIMRAD-LC)

12.1

Leg No. 1TZ +5

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	11	0300	27	35	90	43	1	12467.11	6847.376	#1-SS7-W #2-SS7-Z	
		0330					2	1246554	6848750		
		0400					3	1246360	6850296	C/C - 070°	
		0430					4	1246353	6851685		
05	11	0500					5	1246315	6853079		
05	11	0534					6	12463.50	68547.25		
05	11	0706					7	1246460	68591.20		
05	11	0735					8	1246460	68606.18		
05	11	0803					9	12463.88	68620.82		
05	11	0831					10	12464.10	68636.80	C/C - 085 @ 0857Z	
05	11	0905					11	12462.85	68655.60		
05	11	0935					12	12458.45	68675.61		
05	11	1215					13	12447.71	68735.50		
05	11	1430					14	1243700	6878808	1510 C/C 088°	
05	11	1640					15	1242407	6883955		
05	11	1731					16	12417.61	68861.48	1723 C/C 105°	
05	11	1806					17	12410.55	68877.34		
05	11	1904					18	12398.81	68903.80		
05	11	1933					19	12393.25	68916.20		
05	11	2008					20	12386.39	68932.15	Lat. 27°46.5' Lon. 88°33.3'	
05	11	2036					21	12381.33	68943.32		

# LORAN LOG

Cruise I.D. \_\_\_\_\_ Year \_\_\_\_\_

Leg No. \_\_\_\_\_ TZ \_\_\_\_\_

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	12	0145					22	1230420	6908496	#1-W #2-Z	
		0230					23	1228615	6910246		
		0342					24	1225419	6913471		
		0450					25	1220746	6918270		
		0537					26	1217440	6921802		
		0630					27	12137.39	69257.80		
		0703					28	12115.13	69281.61		
		0738					29	12095.61	69302.48		
		0802					30	12075.65	69323.30	Lat: 2652.0 Lon: 87°25.2	
		0831					31	12056.24	69344.10	Lat: 2648.4 Lon: 87°21.0	
		0					32			0837 c/c 125° ✓	
		0909	26	43	-87	15	33	1203136	6937274		
		1208					34	11740.31	6970534		
		1504					35	11664.81	69775.06		
05	13	0900	23	54	-84	08	36	1120558	7029040		
05	13	1000	23	45	-83	58	37	1118226	7032386		
05	13	1705					38	1108308	7051786		
05	14	1936	26	51.9	-78	38.2	39	7122182	5592241		
05	14	1950	27	06.5	-79	40.0	40	71224.17	55923.78		
05	14	2001	27	08.4	-79	41.0	41	71226.40	55924.60	C/S2 to W	
							42				

## LORAN LOG

Cruise I.D. 16-15-1 Year 75Leg No.            TZ           LORAN C

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MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. <sup>Y</sup> #1	ST. <sup>W</sup> #2	COMMENTS	WATCH I.D.
05	14	2020	26	53.2	79	44.0	43	55926.18	11115.84	#1 = Y #2 = W	
05	14	2030	26	55.5	79	45.6	44	55927.05	11124.76		
05	14	2047	26	57.7	79	45.7	45	55928.80	11143.35		
05	14	2100	27	02.3	79	44.5	46	55929.71	11156.75		
05	14	2120	27	06.0	79	44.0	47	55931.27	11182.50		R3
05	14	2135	27	08.5	79	43.0	48	55932.60	11209.78		R2
05	14	2155	27	10.2	79	41.6	49	55934.53	11249.80		R2
05	14	2210	27	16.0	79	42.0	50	55935.77	11274.81		R2
05	14	2225	27	18.5	79	41.6	51	55936.90	11304.39		R2
05	14	2240	27	19.2	79	36.5	52	55928.52	11344.12		T5
05	14	2255	27	23.0	79	36.5	53	55929.96	11378.68		T5
05	14	2310	27	25.0	79	36.5	54	55931.21	11410.20	2315 C/C 355°	R3
05	14	2328	27	30.5	79	36.2	55	55933.35	11452.08		R2
05	14	2340	27	33.5	79	36.5	56	55935.00	11486.47		R2
05	14	2355	27	36.5	79	36.4	57	55936.84	11521.72		R2
05	15	0013	27	41.5	79	36.0	58	55939.08	11568.84		R2
05	15	0030	27	44.5	79	36.0	59	55941.40	11612.84		R2
05	15	0050	27	48.5	79	36.0	60	55943.80	11661.60		
05	15	0115	27	55.0	79	36.0	61	55947.39	11727.78		
05	15	0130	27	58.1	-79	35.8	62	55949.20	11764.49		
05	15	0145	28	1.9	-79	36.1	63	55951.30	11803.90		

## LORAN LOG

Cruise I.D. I6-15 Year 75  
 Leg No. 1 TZ

LORAN C

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MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	15	0200	28	05.2	-79	36.2	64	55953.30	118429.4	Net speed ~ 14 kts	RTB
05	15	0215	28	08.6	-79	36.4	65	55955.60	118832.4		
05	15	0230	28	12.1	-79	36.8	66	55958.30	11923.11		
05	15	0245	28	15.5	-79	36.6	67	55960.13	119626.2		
05	15	0300	28		-79		68	55972.18	120019.4	seems to have jumped 10. up slow Lt. ON - BAD fix? Corrected BACK 10 178	
05	15	0315	28	22.0	-79	37.0	69	55964.61	12042.07		
05	15	0345	28	29.30	-79	34.40	70	55969.11	12126.06		
05	15	0400	28	32.50	-79	37.70	71	55971.40	12165.43		
05	15	0415	28	35.90	-79	38.00	72	55973.51	12203.64		
05	15	0430	28	39.40	-79	37.99	73	55975.77	12242.80	C/C 313° @ 0430Z	
05	15	0445					74	55989.74	12272.20		
05	15	0500	28	45.0	-79	41.9	75	55984.20	123013.5		
05	15	0515	28	47.9	-79	43.75	76	55988.30	12331.49		
05	15	0530	28	51.1	-79	46.2	77	55992.50	12362.74		
05	15	0545	28	53.75	-79	47.8	78	55996.65	12392.38		
05	15	0600	28	56.7	-79	49.7	79	56000.40	12423.85		
05	15	0615	29	00.0	-79	52.2	80	56004.53	12455.57		
05	15	0630	29	02.8	-79	53.75	81	56008.31	12488.31		
05	15	0645	29	05.8	-79	54.75	82	56012.06	12520.14		
05	15	0700	29	08.25	-79	57.3	83	56015.45	12547.95		
05	15	0715	29	11.2	-79	59.25	84	56018.80	12576.24		

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Cruise I.D. \_\_\_\_\_ Year \_\_\_\_\_

Leg No. \_\_\_\_\_ TZ \_\_\_\_\_

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MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	15	0730	29	14.0	-80	00.8	85	56021.85	12604.13	C/C 295° @0740	
05	15	0745	29	16.4	-80	02.75	86	56025.20	12628.86		
05	15	0800	29	17.9	-80	05.4	87	56028.45	12643.91		
05	15	0815	29	19.7	-80	07.7	88	56031.50	12656.72		
05	15	0830	29	21.15	-80	10.5	89	56034.60	12667.79		
05	15	0845	29	22.25	-80	12.8	90	56037.30	12679.49		
05	15	0900	29	23.40	-80	14.75	91	56039.89	12690.73		
05	15	0915	29	24.7	-80	16.9	92	56042.39	12700.25		
05	15	0930	29	25.8	-80	19.8	93	56044.94	12713.62		
05	15	0945	29	27.5	-80	22.5	94	56047.60	12726.10		
05	15	1000	29	28.6	-80	24.4	95	56049.64	12736.71		
								56051.77	12747.75	1021 <sup>Perd ahead</sup> C/S (30-40 kts)	
								STATION Z	W	CHANGE SLAVE Y → Z	
05	15	1045					96	71073.60	12762.13		
05	15	1115					97	71062.30	12773.73		
05	15	1150					98	71048.08	12787.90		
05	15	1230	29	36.4	-80	38.4	99	71036.88	12808.70		
05	15	1300	29	38.8	-80	38.6	100	71031.46	12827.40		
			29	42.15	-80	41.25	101	71025.00	12851.15	C/C 305°: 13-55Z (DISCREPANCY)	
05	15	1400	29	42.00	80	41.40	102	71018.10	12874.22		
05	15	1430	29	44.10	80	41.40	103	71008.50	12889.74		

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Cruise I.D. \_\_\_\_\_ Year \_\_\_\_\_

Leg No. \_\_\_\_\_ TZ \_\_\_\_\_

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	15	1500	29	45.75	-80	45.00	104	71000.67	129 03.78		
05	15	1530	29	47.60	-80	46.60	105	7099270	129 18.53		
05	15	1600	29	48.30	-80	47.80	106	7098595	1293 15.0		
05	15	1630	29	49.85	-80	48.80	107	7097923	12945.36		
05	15	1700	29	51.30	-80	50.10	108	7097300	12958.54		
05	15	1730	29	52.8'	-80	51.4'	109	7096666	12972.00		
05	15	1800	29	53.8'	80	52.5'	110	70960.78	12984.40	misplotted!	
05	15	1829.44	29	55.9	80	53.2	111	70955.06	12996.39		
05	15	1900.40	29°	56.2'	80	55.1	112	70948.42	130109.82		
05	15	1931.39	29°	58'	80	56.2'	113	70942.60	13022.57		
05	15	1940					114	70941.24	13027.00	} course change to 125°@ 1940Z	
05	15	1950					115	70943.79	13033.2		
05	15	2000	29°	58.6'	80°	54.9'	116	70947.40	13032.42		
05	15	2030	29°	57.6'	80°	53.1'	117	70957.77	13023.48		
05	15	2100	29°	55.5'	80°	52.4'	118	70963.77	13015.00		
05	15	2130	29°	54.4	80°	49.2	119	7097689	13000.09		R2
		2200	29°	54.0	80°	48.5	120	7098460	13006.20		R3
		2230								Fix Not Possible (No SI slave)	
		2						557-W	557-Z		
		2340						12952.24	70995.96		

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MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	16	0000	29	49.1	-80	46.9	501	12938.94	70989.02	begin slow turn 0004 - 0011 to 270°	TS
05	16	0015	29	49.0	-80	48.3	502	12935.14	70982.90		TS
05	16	0030	29	49.1	-80	49.5	503	12933.44	70975.75		TS
05	16	0042	29	48.3	-80	50.1	504	12926.86	70971.75		TS
05	16	0050	29	48.0	-80	50.6	505	12920.00	70969.62		TS
05	16	0100	29	47.7	-80	51.5	506	12915.84	70966.10		TS
05	16	0110	29	48.5	-80	51.8	507	12922.54	70964.10		TS
05	16	0120	29	49.0	-80	51.7	508	12929.70	70964.97		TS
		0125					509	12933.13	70965.80		
		0140	29	50.3	-80	51.5	510	12944.16	70966.40	0145 C/S 4.5 ✓	
		0150					511	12952.70	70966.33	start DFS shooting - line SE-1	
05	16	0200					512	12961.49	70966.41	✓ 0200 ✓	GP
05	16	0210	29	51.75	-80	51.55	513	12970.92	70966.30		GP
05	16	0220					514	12980.28	70966.20	AVG. 6 KTS	GP
05	16	0230	29	54.50	-80	54.45	515	12989.45	70966.36		GP
05	16	0240	29	55.11	-80	54.5	516	12998.60	70966.41		GP
05	16	0250	29	55.81	-80	54.5	517	13007.60	70966.67		GP
05	16	0300	29	56.80	-80	54.40	518	13017.42	70966.50		GP
05	16	0310	29	57.60	-80	54.23	519	13026.86	70966.70		GP
05	16	0320	29	58.35	-80	54.25	520	13036.69	70967.06		GP
05	16	0330	29		-80		521	13046.34	70967.42		GP

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Leg No. \_\_\_\_\_ TZ \_\_\_\_\_

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	16	0340	30	0.6	-80	51.0	522	1305580	7096760		
		50					523	1306644	7096800		
		0400	30	1.7	-80	50.8	524	1307543	7096836	C/C 000° @ 0400 <sup>2</sup>	
		10					525	13085.18	7096885		
		20	30	3.3	-80	50.6	526	1309511	7096915		
		30					527			Missed - busy, u/ DFS	R7B
		40	30	5.4	-80	50.5	528	1311595	7097037	C/C 357° - 0445 V	
		50					529	1312495	7097060		
		0500	30°	7'	-80	50.2	530	1313460	7097130		
		10					531	1314449	7097140		
		20	30°	8.7'	-80	50.0	532	1315406	7097193		
		30					533	1316371	7097220		
		41	30°	10.4'	-80	49.6'	534	1317532	7097288		
		50					535	1318367	7097350		
		0600	30°	11.9'	-80	49.2'	536	1319328	7097432	0605 C/C 350° V	
		11.5					537	1320387	7097470		
		20	30°	13.7'	-80	49.4'	538	1321188	7097490		
		30					539	1322116	7097494		
		40	30°	15.3'	-80	49.0	540	1323037	7097521		
		50					541	1323954	7097528	0658 C/C 4kt	
		0700	30°	16.5'	-80°	48.6'	542	1324766	7097540		



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05	16	0710					543	1325531	7097567		
05	16	0720	30	17.8	-80	48.25	544	1326256	70975.71		RC
05	16	0730					545	13270.27	70975.80		RC
05	16	0740	30	19.3	-80	48.5	546	13278.05	70976.10		RC
05	16	0750					547	13286.56	70976.20	0750 46345 ✓	RC
05	16	0800	30	20.5	-80	48.6	548	13293.33	70976.00		RC
05	16	0811					549	1330214	70975.90		RC
05	16	0820	30	21.8	-80	48.6	550	13309.51	70975.75		RC
05	16	0830					551	13315.75	70975.58		RC
05	16	0840	30	23.2	-80	48.6	552	13322.90	70975.76		RC
05	16	0850					553	13330.61	70975.79		RC
05	16	0901	30	24.75	-80	48.5	560	13339.94	70975.40		
05	16	0912					561	13348.24	70975.06		TS
05	16	0920	30	25.9	-80	48.6	562	13353.78	70974.70		
05	16	0930					563	13361.40	70973.96		
05	16	0940	30	26.7	-80	50.9	564	13367.83	70973.40		
05	16	0950					565	13375.86	70976.01		
05	16	1006	30	28.5	-80	49.5	566	1338864	7097131	C/C 1014 3430 ✓	RZ
65	16	1018					567	1339785	70970.40	C/C 1036 3500	RZ
65	16	1030	30	31.0	-80	52.0	568	1340234	70969.60	Fix Suspect Donat Punch up	RZ

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05	16	1040					569	134151.3	70969.09		RE
05	16	1050	30	35.8	-80	52.0	570	134214.4	70969.41	Do NOT Pluck fix Suspect	RE
05	16	1100					571	13429.41	70968.83		RE
05	16	1110	30	34.2	-80	49.5	572	13436.57	70968.43		RE
05	16	1120					573	13445.13	70968.27		RE
05	16	1130	30	35.5	-80	49.5	574	13452.35	70968.01		RE
05	16	1140					575	13461.57	70967.58		RE
05	16	1150	30	36.3	-80	49.5	576	13466.50	70967.51		RE
05	16	1200	30	36.6	-80	49.8	577	13476.76	70966.69	Plotted for SAGE DETERMINATIONS	RE
05	16	1210					578	13484.51	70966.51		RE
05	16	1227	30	39.0	-80	50.0	579	13494.43	70965.99		RE
05	16	1240					580	13507.21	70965.10		TS
05	16	1250	30	40.5	-80	50.5	581	13515.22	70964.60		RE
05	16	1300					582	13522.83	70964.09		RE
05	16	1310	30	42.35	-80	49.55	583	13532.44	70963.60		GP
05	16	1320	30		-80		584	13540.15	70963.00		GP
05	16	1330	30	43.50	-80	49.50	584	13547.29	70962.70		GP
05	16	1340	30		-80		585	13555.07	70962.28		GP
05	16	1350	30	45.40	-80	49.70	586	13562.71	70961.80	C/E 020° ndpt. of C/E to 027°	GP
05	16	1400	30	45.85	-80	49.85	587	13571.40	70961.50		GP
05	16	1410	30	46.51	-80	49.49	588	13579.92	70961.93		GP

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05	16	1420	30	47.40	-80	49.49	589	13587.90	7096219		GP
05	16	1430	30	48.10	-80	49.25	590	13597.70	7096320	1430 complete C/C 027	GP
05	16	1440	30	48.59	-80	49.00	591	13604.03	7096420		GP
05	16	1450	30	49.20	-80	48.65	592	13611.63	7096549		GP
05	16	1500	30	49.80	-80	48.13	593	13619.69	7096826		GP
05	16	1510	30		-80			136	709	LOST LOCK ON LORAN C	GP
05	16	1520	30	51.15	-80	47.50	594	13635.19	70971.39	OK - BACK ON	GP
05	16	1530	30		-80		595	13642.68	7097359		GP
		1540	30	52.4	-80	46.8	596	13649.97	7097549		RTB
		1550					597	13657.87	7097799		
05	16	1600	30	53.5	-80	45.8	598	13665.55	7098038		
		1610								missed reading	
		1620	30	54.7	-80	45.0	599	13680.40	7098465		
		1630					600	13687.63	7098700		RTB
		1640	30	56.0	-80	44.1	601	13695.87	7098954		
		1650					602	13703.60	7099217		
05	16	1700	30°	56.8'	-80°	43.7'	603	13710.31	70994.78		RTB
		1710	30°				604	13718.28	7099756		
		1720					605	13726.40	7100045		
		1726	30°	58.3'	-80	42'	606	13730.71	7100196		
		1738					607	13733.42	7100313		

## LORAN LOG

Cruise I.D. \_\_\_\_\_ Year \_\_\_\_\_

Leg No. \_\_\_\_\_ TZ \_\_\_\_\_

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	16	1740	30°	59.2	80°	41.2'	608	1374093	7100591		
		1750					609	1374781	7100805	C/C 020° - 1745 ✓	
		1800	31	.8	80	40.3'	610	1375547	7101080		
		1810					611	1376390	7101325		
		1820	31	2.2	80	39.2'	612	1377126	7101574		
		1830					613	1377838	7101791		
		1840	31	2.6	80	38.4"	614	1378572	7102021		
		1850					615	1379299	7102276		
		1900	31	4	80	37.8'	616	1380046	7102526	ch @ 19132	
		1910					617	1380781	7102761	C/C 015° - 1910 (19152)	
		1920	31	05.2	80	36.4'	618	1381550	7103010		
		1930					619	1382279	7103231		
		1940	31	06.35	-80	35.8	620	1383085	7103460		
		1950					621	1383862	7103650	C/C 012° 1945	
		2000	31	07.70	-80	35.25	622	1384710	7103814		
		2010					623	1385323	7103947		
		2020	31	08.75	-80	34.25	624	1386061	7104110		
		2031					625	1386910	7104290		
		2040	31	09.7	-80	34.2	626	1387510	7104449		
		2050					627	1388221	7104620		
		2100	31	11.2	-80	33.25	628	1389020	7104786		

# LORAN LOG

Cruise I.D. \_\_\_\_\_ Year \_\_\_\_\_

Leg No. \_\_\_\_\_ TZ \_\_\_\_\_

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS *	WATCH I.D.
05	16	2110					629	13896.99	71049.40		TS
		2120	31	12.2	-80	32.5	630	13904.72	71050.96		TS
		2130					631	13911.95	71052.44		TS
		2140	31	13.1	-80	32.2	632	13919.34	71053.82		TS
		2150					633	13927.00	71054.90		TS
		2211	31	15.4	-80	31.5	634	13942.51	71057.30		TS
		2220					635	13949.10	71058.61		TS
		2230	31	16.5	-80	31.2	636	13956.52	71059.82		TS
		2240	31	16.9	-80	30.1	637	13964.71	71060.98		TS
		2250					638	13971.84	71061.40		TS
		2300	31	17.7	-80	30.4	639	13979.80	71062.20		TS
		2310					640	13987.60	71062.80		
		2320	31	19.0	-80	29.9	641	13995.66	71063.85		RC
		2330	31				642	14004.90	71063.01		
		2340	31	21.3	-80	29.9	642	14011.40	71064.63	LOST SIGNAL TILL 0006	TS
05	17	0007	31	23.1	-80	29.4	643	14033.97	71066.87	? 2349 - C (C 017° W (C 017° W))	
		0020					644	14044.75	71068.02	?	
		0030					645	14054.72	71069.15	?	
		0045					646	14066.42	71070.25	?	
		0050					647	14071.71	71070.78		
		0100					648	14080.36	71081.60	slowed again to +10-?	

# LORAN LOG

Cruise I.D. \_\_\_\_\_ Year \_\_\_\_\_

Leg No. \_\_\_\_\_ TZ \_\_\_\_\_

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
		0100								trying to decide on good	
										# for sht. z - can't get to	
										lock on one for sure	K??
05	17	0130					649	1410684	7107430	LT. ON - ?	
		0135								C/C 025° @ 0135Z	
		0142					650	1411752	7107670	OK - loc	
		0150					651	1412386	7107875	OK	
		0200	31	31.2	-80	26.4	652	1413157	7108120	OK	
		0210					653	1413960	7108418	LT. ON ?	
		0220	31	32.3	-80	25.6	654	1414685	7108684	LT. ON ?	
05	17	0230					655	14154.15	7108981		GP
05	17	0240	31	33.50	-80	24.4	656	14162.40	7109295	C/E 1440	GP
05	17	0250	31		-80		657	14168.64	7109579		GP
05	17	0300	31	34.50	-80	23.25	658	14175.27	71098.90		GP
05	17	0310					659	14182.82	7109200	711	GP
05	17	0320	31	35.40	-80	22.50	660	14190.04	7110540		GP
05	17	0330						141	711	Missed	GP
05	17	0340						141	711	NOT LOCKED	GP
05	17	0350					661	14211.14	71115.19		GP
05	17	0400	31	37.3	-80	20.0	662	14218.63	7111824	C/C 025° @ 040°	
05	17	0410					663	14226.66	71121.57		GP

# LORAN LOG

Cruise I.D. \_\_\_\_\_ Year \_\_\_\_\_

Leg No. \_\_\_\_\_ TZ \_\_\_\_\_

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	17	0420	31	38.5	-80	19.0	664	14235.21	71124.67		GP
		0430					665	14241.90	71127.30		
		0440					666	14248.64	71130.23	Lt. on - e/c 020-004402	
05	17	0450	31	39.80	-80	17.50	667	14256.81	71133.11		GP
05	17	0500					668	14264.53	71135.90	Lt on -	GP
05	17	0510					669	14273.06	71138.80		RE
05	17	0520	31	41.5	-80	16.2	670	14280.49	71142.03	Lt. out	
05	17	0530					671	14287.43	71145.04		
05	17	0540	31	43.6	-80	15.1	672	14294.71	71148.10		
05	17	0550					673	14302.28	71151.04		
05	17	0600	31	44.0	-80	13.80	674	14310.31	71154.24		
		Mixed 0610									
05	17	0620	31	44.9	-80	13.0	675	14324.84	71160.12		
05	17	0630					676	14332.42	71163.04		
05	17	0640	31	46.20	-80	12.0	677	14339.94	71165.80		
05	17	0650					678	14347.80	71168.79		
05	17	0700	31	47.6	-80	11.0	679	14355.08	71171.52		
05	17	0710					680	14362.62	71174.50		
05	17	0720	31	48.5	-80	10.25	681	14369.30	71176.91		
05	17	0731					682	14377.87	71179.96		
05	17	0740	31	49.4	-80	9.1	683	14383.80	71182.05		

# LORAN LOG

Cruise I.D. IG 15 Year 1975

Leg No. 1A TZ       

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	17	1120	32	01.7	-80	02.3	705	14540.50	71221.51	- slew on	TS
		1130					706	14547.90	71222.68		TS
05	17	1140	32	02.8	-80	02.1	707	14556.15	71224.05		TS
		1200	32	04.3	-80	01.8	708	14570.52	71226.23		TS
		1211					709	14579.81	71227.60	C/C 052 @ 1216	TS
		1220	32	05.6	-80	01.5	710	14585.60	71229.48		TS
		1230					711	14592.19	71232.69		TS
		1240	32	06.2	-80	00.0	712	14598.95	71236.15		TS
		1250					713	14605.45	71239.24		TS
		1300	32	07.4	-79	59.0	714	14611.86	71242.45		TS
05	17	1310	32	07.40	-79	57.35	715	14618.70	71245.89		GP
05	17	1320	32	07.60	-79	56.75	716	14625.69	71249.14		GP
05	17	1330					717	14632.39	71252.23		GP
05	17	1340	32	8.8	-79	55.9	718	14639.51	71255.80		GP
05	17	1350					719	14646.00	71258.86		GP
		1400	32	9.6	-79	55.8	720	14653.13	71262.87	C/C 055°	RTB
05	17	1410					<del>721</del> 146		712	Missed - 1419 tapes	GP
		1420	32	10.6	-79	54.5	721	14667.90	71269.80		
		1430					722	14674.50	71273.29		
05	17	1440	32	11.50	-79	53.5	723	14681.52	71276.75		GP
05	17	1500	32	12.5	-79	52.18	724	14695.65	71284.20		GP

7145-



## LORAN LOG

Cruise I.D. \_\_\_\_\_ Year \_\_\_\_\_

Leg No. \_\_\_\_\_ TZ 0750

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
5	17	0750					684	14391.01	71184.35		RC
		0800	31°	50'.01	-80°	-8.5'	685	14397.42	71186.29		
		0812					686	14406.07	71188.90		
		0820	31°	51'.5	-80°	8'	687	14411.50	71190.050		
		0830					688	14418.86	71192.42		
		0840	31	52'.4	-80°	7.2	689	14425.88	71194.66		
		0852					690	14434.60	71196.93		
		0900	31	53.5'	-80	6.4'	691	14440.31	71198.50		
		0910					692	14446.78	71200.20		
05	17	0920	31	54.5	-80	5.0	693	14454.00	71202.13		RE
05	17	0930					694	14461.28	71204.02		RE
05	17	0940	31	56.0	-80	5.0	695	14468.51	71205.41		RE
05	17	0950					696	14475.00	71207.57		RE
05	17	1000	31	57.2	-80	4.0	697	14482.98	71209.31		RE
05	17	1010					698	14489.72	71211.11		RE
05	17	1020	31	58.0	-80	3.2	699	14496.99	71212.50		RE
05	17	1030					700	14504.19	71214.30		TS
		1040	31	59.2	-80	03.4	701	14511.33	71215.80		TS
		1050					702	14518.61	71217.40		TS
		1100	32	00.5	-80	03.0	703	14525.73	71218.81		TS
		1110					704	14533.25	71220.23		TS

# LORAN LOG

Cruise I.D. \_\_\_\_\_ Year \_\_\_\_\_

Leg No. \_\_\_\_\_ TZ \_\_\_\_\_

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	17	1510					725	147 02.97	712 88.11		GP
05	17	1520	32	13.45	-79	50.50	726	147 10.35	712 91.81		GP
05	17	1530					727	147 17.72	712 96.03		<del>D</del>
05	17	1540	32	14.40	-79	49.55	728	147 26.09	713 00.78		GP
05	17	1550					729	147 32.97	713 04.77		GP
05	17	1600	32	15.20	-79	48.50	730	147 39.60	713 08.73		GP
05	17	1610					731	147 47.06	713 13.20		GP
05	17	1620	32	16.03	-79	47.00	732	147 54.30	713 17.65		GP
05	17	1630	32		-79		733	147 62.20	713 22.30		<del>RC</del>
		1640					734	147 69.18	713 26.76		
		1650					735	147 76.89	713 31.64		
		1700	32°	18'	-79	45.00	735	147 83.81	713 35.90		
05	17	1710					736	147 90.73	713 40.91		GP
05	17	1720	32	19.2	-79	42.00	737	147 97.88	713 45.89		GP
05	17	1730					738	148 04.56	713 50.95		RC
05	17	1740	32	19.5	-79	41.25	739	148 11.20	713 55.59		"
05	17	1750					740	148 17.95	713 61.08		"
05	17	1800	32	20.5	-79	40.6	741	148 26.00	713 67.43		"
		1810					742	148 31.54	713 71.73		
05	17	1820	32	20.9	-79	38.3	743	148 38.13	713 76.91		
		1830					744	148 45.48	713 82.67		

# LORAN LOG

Cruise I.D. \_\_\_\_\_ Year \_\_\_\_\_

Leg No. \_\_\_\_\_ TZ \_\_\_\_\_

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
5	17	1842	32	21.5	-79	35.6	745	14853.78	71389.12		RC
5	17	1850					746	14859.58	71393.80		
		1900	32	22.1	-79	34.75	747	14866.62	71398.96		
		1910					748	1437342	7140420		
		1920	32	23.2	79	32.8	749	1488067	7141000		
		1930					750	1488750	7141581		
		1940	32	25.0	-79	32.7	751	1489410	7142133		
		1950	32		-79	25	752	1490175	7142754	C/C 050" 1945	
		2000	32	25.8	-79	29.8	753	1490832	7143261		
		2010					754	1491482	7143786		
		2020	32°	25.2	-79°	27.8	755	1492184	7144320		
		2030					756	1492853	7144871		
		2040	32°	25.3	-79°	26.31	757	1493447	7145364		
		2050					758	1494148	7145918		
		2100	32	26.0	-79	24.6	759	1494855	7146311		
Box		2115					760	14958.48	71469.73		TS
		2126	32	27.1	-79	23.2	761	1496603	7147406		
		2130					762	14968.70	71475.74		
		2141	32	28.4	-79	22.7	763	1497653	71479.95		
		2150					764	14982.91	71483.53		
		2200	32	28.9	-79	21.2	765	14989.84	71487.23		

# LORAN LOG

Cruise I.D. 2615

Year 1975

Leg No. 1A

TZ +5

W 557 Z

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	17	2210					766	14996.72	71491.01		TS
05	17	2220	32	29.7	-79	20.0	767	15004.44	71494.62		TS
05	17	2231					768	15012.11	71498.51		TS
05	17	2240	32	30.1	-79	19.1	769	15017.72	71501.26		TS
05	17	2300					770	15032.20	71508.89		TS
05	17	2310	32	32.5	-79	17.5	771	15040.91	71512.21		TS
05	17	2320					772	15047.21	71513.81		TS
05	17	2330	32	33.5	-79	16.5	773	15053.61	71518.17		TS
05	17	2340					772	15060.70	71513.61	All FIXES FOR NEXT 60-90 MIN SUSPECT	TS
05	17	2350	32	34.7	-79	15.5	773	15069.50	71525.10	SKY WAVES / CORRECTION NOT KNOWN	TS
05	17	2400					774	15076.55	71528.26		TS
05	18	0010	32	34.8	-79	14.5	775	15084.34	71531.23		TS
05	18	0020					776	15092.60	71535.20		TS
05	18	0030	32	36.2	-79	13.2	777	15100.90	71538.70		TS
05	18	0040					778	15107.50	71541.75	0044 c/c 0410°	TS
05	18	0050	32	37.0	-79	13.0	779	15116.19	71545.50	(Discrepancy)	TS
05	18	0100					730	15122.31	71548.75		TS
05	18	0110					731	151	715	MISSED	GP
05	18	0120	32	39.00	-79	12.00	732	15138.68	71556.44		GP
05	18	0130	32	39.00	-79	09.94	733	15146.20	71560.00	0128 c/c 055°	GP
05	18	0140	32	39.70	-79	09.55	734	15153.30	71564.40		GP

# LORAN LOG

Cruise I.D. IG15-1 Year       

Leg No.        TZ 0530

Page missing from  
0140 - 0530  
#s 735-755

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	18	0530				57.7	756	15337.56	71666.77		RC
05	18	0540	32	50.9	-78	57.7	757	15340.69	71671.54		"
05	18	0550					758	15347.86	71676.74		"
05	18	0600	32	51.75	-78	51.90	759	15355.25	71681.56		
05	18	0610					760	15362.82	71686.95		
"	"	0620	32	52.5	-78	50.50	761	15369.57	71691.64		
		0631					762	15376.64	71697.26		
		0641	32	52.9	-78	49.0	763	15387.06	71701.70		
		0650					764	15389.51	71705.80		
		0700	32	53.8	-78	48.0	765	15394.76	71707.74	c/c 040° @ 0700Z	
		0710					766	15402.41	71706.00		
Bad Fix		0720					767	15409.79	71701.23		
		0730					768	15416.18	71715.20	L.C. out of phase 10 cycles	
		0740	32°	57.4'	-78°	46.5'	769	15422.52	71719.08	lost S#2	
05	18	0907					770	15481.83	71767.24	S#2 weak HARD to	PZ
05	18	0920	32°	59.0	-78	39.0	771	15494.22	7172.92	HOLD EQUIDISTANT FIXS	PZ
05	18	0930					772	15497.17	71771.21	HARD TO ACCUMULATE, SUNRISE	PZ
		0945	33°	0.00	-78	36.8	773	15509.94	71742.53	AND SMALL ELECTRICAL STORM	PZ
05	18	0955					774	15513.50	71788.51	ARE ADDING to Problem	
05	18	1005	33°	1.0	-78	35.0	775	15520.60	71793.19		PZ
05	18	1015	33°				776	15526.69	71792.25		PZ

# LORAN LOG

Cruise I.D. \_\_\_\_\_ Year \_\_\_\_\_

Leg No. \_\_\_\_\_ TZ \_\_\_\_\_

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	18	1030	33	2.5	-78	33.0	777	15532.90	71801.21		TS
05	18	1040					778	15543.15	71807.80		TS
05	18	1050					779	15546.69	71811.82		TS
05	18	1100					780	15554.75	71814.99		TS
05	18	1110	33	03.0	-78	31.2	781	15561.57	71817.88	1102 - c/c 075°	TS
05	18	1120	33	03.5	-78	31.0	782	15568.16	71822.30		TS
05	18	1130					783	15574.50	71825.70		TS
		1140	33	04.4	-78	29.8	784	15581.34	71829.07		TS
		1150					785	15587.88	71832.54		TS
		1200	33	05.5	-78	28.1	786	15594.47	71835.86		TS
		1210					787	15601.38	71839.35		TS
		1220	33	6.2	-78	27.9	788	15608.25	71842.61		TS
		1230					789	15614.90	71846.03		TS
		1240	33	6.7	-78	26.7	790	15622.36	71849.60		TS
		1302	33	7.5	-78	25.6	791	15637.70	71856.70		TS
		1310					792	15643.80	71859.21		TS
		1320	33	8.6	-78	25.0	793	15651.20	71862.65		
		1330					794	15659.22	71866.00		
		1340	33	9.5	-78	24.0	795	15666.05	71869.30		
		1350					796	15674.12	71872.53		
05	18	1400	33	10.65	-78	23.00	797	15681.49	71875.75		

# LORAN LOG

Cruise I.D. 16-15-1 Year 75

Leg No. SE-1 TZ       

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	18	1410	33	10.60	-78	23.25	798	156 88.71	718 78.76		GP
05	18	1420	33		-78		799	156 96.93	718 82.36		GP
05	18	1430	33	12.5	-78	21.90	800	157 04.27	718 85.44		GP
05	18	1440	33	12.98	-78	21.65	801	157 11.80	718 88.65	1445 C/C 040°	GP
05	18	1450	33	13.65	-78	20.98	802	157 19.75	718 92.14		GP
05	18	1500	33	14.00	-78	20.04	803	157 26.95	718 95.51		GP
05	18	1510	33	14.50	-78	19.85	804	157 34.80	718 99.06	C/C 043° - 1515	GP
		1520	33	15.00	-78	19.20	805	157 43.22	719 03.09	(Discrepancy)	RTB
		1530					806	157 50.33	719 06.60		
		1540	33	16.00	-78	18.25	807	157 57.72	719 10.26		
		1550					808	157 65.71	719 14.70	1545 C/C 050°	
		1600	33	16.90	-78	16.85	809	157 72.80	719 18.52		
05	18	1610	33	17.15	-78	16.20	810	157 80.88	719 22.94		GP
05	18	1620					811	157 87	719 26.69	16202 053°	GP
05	18	1630	33	18.35	-78	15.20	812	157 93.87	719 30.41		GP
05	18	1640	33	18.65	-78	14.60	813	158 00.23	719 34.37		GP
05	18	1650	33	19.30	-78	14.00	814	158 07.26	719 38.40	1653 053°	GP
05	18	1700	33	19.45	-78	13.45	815	158 14.11	719 42.90		GP
		1712					816	158 22.65	719 48.26		RTB
05	18	1720	33	20.25	-78	12.30	817	158 28.31	719 51.69		RC
		1731					818	158 35.51	719 56.40		

# LORAN LOG

Cruise I.D. IG 15

Year 1975

Leg No. 2

TZ 1734

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	18	1740	33	21.20	-78	10.70	819	15841.19	71962.00		RL
05	18	1750					820	15847.90	71964.35		
05	18	1800	33	22.00	-78	9.1	821	15855.05	71969.00		
05	18	1810					822	15861.63	71973.07	71973.07?	
05	18	1820	33	23.00	-78	7.70	823	15868.00	71977.25		
"	"	1830					824	15874.60	71981.77		
"	"	1840	33	24.00	-78	6.5	825	15880.26	71985.59		
"	"	1850					826	15886.80	71989.95		
"	"	1900	33	25.00	-78	5.20	827	15892.89	71994.09	1905 °/c 060°	
"	"	1910									
"	"	1920	33°	24.7'	-78°	3.7'	828	15904.37	72002.39		
"	"	1930	33	25	-		829	15910.09	72007.02		
"	"	1940	33°	25.4	-78°	1.8'	830	15915.20	72010.83		
05	18	1950					840	15921.30	72015.52		
05	18	2000	33°	26.0	-78°	.5'	841	15926.80	72019.80		
		2010					842	15931.97	72023.79		
		2020	33°	26.8	-77°	59.2'	843	15936.57	72027.30		
		2032					844	15943.97	72032.60		
		2040	33°	27.4'	-77°	57.4'	845	15947.13	72035.58		
		2050	33				846	15952.26	72039.40		
		2100	33°	27.8'	-77°	55.5'	847	15957.52	72043.65		



## LORAN LOG

Cruise I.D. IG 15Year 1975Leg No. 1ATZ +5

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	18	2110					848	1596220	72047.14	c/c 050° 2110	TS
05	18	2120	33	28.5	-77	53.5	849	15967.92	72050.65		TS
05	18	2130					850	15972.85	72053.98		TS
05	18	2150	33	29.7	-77	59.6	851	15984.01	72061.00		TS
05	18	2200					852	15989.11	72063.96	c/c 040° 2201	TS
05	18	2210	33	30.0	-77	50.1	853	15994.79	72067.03		TS
05	18	2221		31.1	-77	49.4	854	16002.00	72070.40		TS
05	18	2230	33	31.4	-77	48.5	855	16007.70	72073.16		TS
05	18	2240	33	31.7	-77	48.2	856	16013.49	72075.90		TS
05	18	2250	33	32.3	-77	47.4	857	16019.60	72078.90	c/c 195° @ 2250z	TS
05	18	2300					858	16021.16	72081.94		
05	18	2330	33	31.5	-77	48.5	859	1600.00	72072.83		
05	19	0000					860	15971.04	72070.50	0001 C/S 6 Kts	
05	19	0030	33	20.5	-77	48.0	861	15935.00	72060.89	0012 C/S 1 Kts	
										0043 C/C 220°	
										Lost LORAN C Temp.	
05	19	0220					862	15817.80	72009.00	appears to be locked back on	
		0230					863	15806.82	72003.53		
		0300					864	15773.70	71987.02		
Bad		0330					865	15743.06	71971.21	0330 C/C 195°	
		0400					866	15708.57	71959.88		

## LORAN LOG

Cruise I.D. 1G-15Year 1975Leg No. 1ATZ +5

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	19	0430	33	05.50	-78	07.50	867	15658.07	71948.58		
05	19	0500	33	02.70	-78	09.55	868	15625.54	71935.86		
"	"	0530	32	59.25	-78	10.75	869	15582.22	71923.90		R.C.
"	"	0600	32	55.75	-78	11.75	870	15537.53	71912.40		
"	"	0630	32	52.30	-78	12.80	871	15492.84	71901.00		
"	"	0700	32	48.75	-78	14.10	872	15448.20	71890.73		
"	"	0731	32	44.70	-78	15.50	873	15394.26	71877.56		
"	"	0800	32	41.25	-78	16.45	874	15352.90	71867.90		
"	"	0830	32	37.60	-78	17.25	875	15302.64	71856.47		
"	"	0900	32	35.45	-78	18.90	876	15256.61	71846.14		
05	19	0930	32	31.0	-78	21.0	877	15209.33	71834.12		D3
05	19	1000	32	28.0	-78	22.0	878	15160.10	71821.41		PE
05	19	1030	32	25.5	-78	23.5	879	1511.20	71809.32		PE
05	19	1100	32	20.0	-78	24.2	880	15067.00	71800.00		PE
05	19	1130	32	16.5	-78	24.8	881	15024.91	71791.95	1140 C/C 170°	PE
05	19	1200	32	12.5	-78	24.5	882	14983.60	71790.03		D3
05	19	1230	32	9.0	-78	23.2	883	14944.2	71791.60		PE
05	19	1300	32	6.3	-78	22.1	884	14910.72	71794.73		PE
05	19	1310	32		-78		885	14902.35	71795.47	13202 160° c/c	G.P.
05	19	1330	32	2.3	-78	19.0	886	14880.17	71798.80		G.P.
05	19	1340					887	14870.15	71801.60		

# LORAN LOG

Cruise I.D. \_\_\_\_\_ Year \_\_\_\_\_

Leg No. \_\_\_\_\_ TZ \_\_\_\_\_

556

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	19	1400	31	59.3	-78	16.0	888	14850.90	71807.40	1400 C/C 180°	
		1410					889	14838.53	71808.10	1415 C/C 200°	
		1420	31	57.0	-78	15.0	890	14827.40	71807.51		
		1430					891	14817.11	71806.10	C/C 220°	
		1440	31	55.7	-78	15.6	892	14807.23	71803.83	C	
		1450					893	14798.10	71801.00	C/C -240° - 1450	
		1500	31	54.6	-78	11.8	894	14792.00	71797.15	C/C 220° - 1500	
		1510					895	14784.38	71794.59		
		1520	31	53.2	-78	17.5	896	14774.80	71791.80		
		1530					897	14767.16	71789.75		
		1540	31	52.2	-78	18.0	898	14760.90	71787.96	C/C 310° @ 1540	
		1550					899	14764.07	71786.02		
		1600		53.6	-78	19.2	900	14775.00	71785	C/C 300° 1555	
		1610					901	14782.64	71785.69	C/C 290° - 1610	
										C/C 280 1612	
										C/C 270 1615	
		1620					902	14786.50	71785.29	C/C 260 - 1623	
		1630					903	14787.50	71784.50		
		1640					904	14788.0	71783.41		
		1700					905	14788.80	71781.11		
		1710					906	14789.58	71779.60	C/C 270°	

# LORAN LOG

Cruise I.D. 1 Year         
 Leg No. SE-2 TZ       

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	19	1720	31	55.85	-78	21.60	907	14791.59	71778.51		RC
		1731					907	14794.50	71777.27		
		1742	31	56.20	-78	22.30	908	14796.82	71775.89		
		1751					909	14798.49	71774.70	C/c 285° @ 1752	
		1800	31	56.6	-78	22.8	910	14801.97	71773.60		
		1810					911	14807.80	71773.10	C/c 275°	
		1820	31	57.7	-78	23.7	912	14811.61	71772.05		
		1830					913	14814.82	71771.23		
		1840					914	14818.57	71770.16		
		1850					915	14822.08	71769.20		
		1900					916	14826.02	71768.20		
		1910					917	14829.59	71767.13		
		1920	32°		-78°	25.8	918	14832.25	71766.10		
		1930					919	14834.64	71764.63		
		1940					920	14837.50	71762.95		
		1950					921	14840.40	71761.88		
		2000	32°	01.3	-78	27.2	922	14844.27	71760.78		
		2010					923	14848.26	71759.30		
		2020					924	14851.40	71757.90		
		2030					925	14854.22	71756.27		
		2040					926	14857.22	71754.60		

# LORAN LOG

 Cruise I.D. IG 15

 Year 1925

 Leg No. 1A

 TZ +5

SE-2

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	19	2050					927	1486036	7175272		
05	19	2100	32	03.4	-78	30.0	928	14863.27	7175088		TS
05	19	2112					929	14866.43	71748.24		TS
05	19	2120	32	03.9	-78	31.2	930	14868.49	71746.49		TS
05	19	2130					931	14870.65	71743.90		TS
05	19	2140	32	04.5	-78	32.4	932	14872.64	71741.33	C/L 260° 2143 ww	TS
05	19	2150					933	14872.58	71737.91		TS
05	19	2200	32	05.1	-78	33.9	934	14871.29	71734.69	C/L 280° 2203	TS
05	19	2210					935	14871.90	71732.00	C/L 300° 2212	TS
05	19	2220	32	05.6	-78	35.1	936	14876.78	71730.10		TS
05	19	2230					937	14883.23	71728.00		TS
05	19	2240	32	07.0	-78	36.4	938	14889.67	71726.26		TS
05	19	2251					939	14896.48	71724.32		TS
05	19	2301	32	08.2	-78	37.2	940	14902.87	71722.58		TS
05	19	2310					941	14908.74	71720.51		TS
05	19	2320	32	09.6	-78	38.3	942	14912.94	71719.21		TS
05	19	2330					943	14918.82	71717.30		TS
05	19	2343	32	10.9	-78	39.6	944	14925.93	71715.05		
05	19	2350					945	14929.97	71713.52		
05	20	0001	32	12.0	-78	40.2	946	14936.10	71711.29		
05	20	0010					947	14941.82	71709.57		TS

# LORAN LOG

Cruise I.D. \_\_\_\_\_ Year \_\_\_\_\_

Leg No. \_\_\_\_\_ TZ \_\_\_\_\_

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	20	0020	32	13.0	-78	41.1	949	14947.99	71707.66		PZ
05	20	0030					950	14955.36	71705.08		PZ
05	20	0040	32	15.0	-78	43.0	951	14961.09	71703.14		PZ
05	20	0055					952	14969.03	71700.01	0050 c/c 297	Re
05	20	0110	32	17.10	-78	42.60	953	14975.99	71696.84		G.P.
05	20	0120	32	16.60	-78	44.60	954	14981.38	71693.95		GP
05	20	0130	32	17.50	-78	45.60	955	14986.74	71691.26		G.P.
05	20	0140	32	18.25	-78	45.75	956	14991.00	71688.70		G.P.
05	20	0150	32	18.75	-78	46.65	957	14996.72	71685.57		G.P.
05	20	0200	32	19.25	-78	47.10	958	15000.38	71683.35		GP
05	20	0210	32	20.00	-78	48.15	959	15004.20	71680.79		GP
05	20	0220	32	20.25	-78	48.49	960	15008.37	71677.85		GP
05	20	0230	32	20.85	-78	49.50	961	15012.06	71674.80		GP
05	20	0240	32	21.00	-78	49.60	962	15015.54	71672.08		GP
05	20	0250	32	21.50	-78	50.50	963	15018.94	71669.05		GP
05	20	0300	32	22.70	-78	51.50	964	15023.56	71664.58		GP
		0310					965	15025.84	71662.58		RTB
		0320	32	23.3	-78	52.3	966	15028.59	71659.21		
		0330					967	15031.42	71656.07	0335 c/c 302°	
		0340	32	23.9	-78	53.4	968	15034.37	71653.02		
		0350					969	15037.61	71649.80	c/c 307° @ 0350	

# LORAN LOG

Cruise I.D. IG-15 Year 75

Leg No. SE-2 TZ       

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	20	0400	32	24.8	-78	54.1	970	15041.12	71647.22	C/C 315° @ 0400Z	
"	"	0420	32	26.1	-78	55.6	971	15050.40	71642.20		
		0430					972	15054.77	71640.12		
		0440	32	26.9	-78	56.2	973	15059.50	71638.20	C/C 310° @ 0440Z	
		0450					974	15064.43	71635.63		
		0500	32	28.0	-78	57.30	975	15068.67	71633.40		
		0510					976	15073.33	71631.00		PC
		0520	32	29.25	-78	58.45	977	15078.51	71628.67		
		0530					978	15083.10	71626.80		
		0540	32	30.45	-78	59.30	979	15088.06	71624.44		
		0550					980	15092.61	71621.96		
		0600	32	31.40	-79	00.0	981	15097.28	71619.16		
		0612					982	15102.55	71616.00		
		0623	32	32.75	-79	01.25	983	15107.25	71612.80		
		0630					984	15109.79	71611.00		
		0640	32	33.60	-79	02.1	985	15112.59	71607.98		
		0650					986	15116.88	71604.80		
		0700	32	33.85	-79	03.20	987	15120.00	71601.77		
		0712					988	15123.75	71597.84		
		0720	32°	35'	79	4.00'	989	15125.70	71595.41		
		0730					990	15128.25	71592.00		

# LORAN LOG

Cruise I.D. \_\_\_\_\_ Year \_\_\_\_\_

Leg No. \_\_\_\_\_ TZ \_\_\_\_\_

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	20	0740	32°	36'	-79°	5.2	991	1513070	7158900		
		0750					992	1513337	7158509		
		0800	32°	36.8'	-79	6'	993	1513550	7158225		
		0810					994	1513777	7157872		
		0820	32°	37.3'	-79°	7.4'	995	1514017	7157530	c/c 310° @ 0820	
		0830					996	1514280	7157220		
		0840	32°	38.2'	-79°	8.4'	997	1514534	7156951		
		0850					998	1514797	7156654		
		0900	32	39.3	-79	09.7	999	1515057	7156358		TS
		0920	32	40.5	-79	10.5	1000	1515580	7155741		RE
		0930					1001	1515830	7155422		RE
		0940	32	41.2	-79	12.0	1002	1516038	7155139		RE
		0950					1003	1516249	7154720		RE
		1000	32	40.5	-79	12.5	1004	1516416	7154440		RE
		1010					1005	1516612	7154050		RE
		1020	32	42.2	-79	13.4	1006	1516738	7153810		TS
		1030					1007	1516905	7153484		
		1045	32	42.9	-79	14.6	1008	1517234	7153046		
		1051					1009	1517377	7152847		
		1056					1010	1517480	7152687		
		1100	32	43.6	-79	15.2	1011	1517579	7152545		

Bad



# LORAN LOG

Cruise I.D. \_\_\_\_\_ Year \_\_\_\_\_

Leg No. \_\_\_\_\_ TZ \_\_\_\_\_

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	20	1110					1012	15177.59	71522.62		TS
05	20	1115	32	44.0	-79	15.8	1013	15178.86	71520.81	END OF SE-2	TS
05	20	1130					1014	15173.13	71514.77	1117 C/C 200°	RE
05	20	1140	32	43.2	-79	17.5	1015	15164.51	71512.57		
05	20	1200	32	41.8	-79	17.8	1016	15146.72	71508.53		TS
		1230	32	38.6	-79	20.0	1017	15104.42	71497.00		TS
		1300	32	36.3	-79	22.2	1018	15057.14	71483.70		
05	20	1310	32	33.95	-79	22.50	1019	15041.10	71479.22		GP
05	20	1320	32	33.00	-79	23.23	1020	15025.40	71474.68		GP
05	20	1330	32	31.30	-79	24.00	1021	15007.23	71469.14		GP
05	20	1340	32	30.05	-79	24.55	1022	14994.81	71465.53		GP
05	20	1350	32	29.30	-79	25.45	1023	14979.55	71460.06		GP
05	20	1400	32	28.45	-79	26.55	1024	14965.40	71452.50		GP
05	20	1410	32	27.35	-79	27.40	1025	14951.07	71445.11		GP
05	20	1420	32	26.65	-79	28.70	1026	14936.70	71437.41	1418 - C/C 242	GP
05	20	1430	32	26.10	-79	30.25	1027	14925.39	71428.12		GP
05	20	1440	32	25.60	-79	31.55	1028	14914.33	71419.14		GP
05	20	1450	32	24.80	-79	33.00	1029	14902.57	71409.42		GP
05	20	1500	32	24.30	-79	34.55	1030	14889.79	71398.97		GP
05	20	1530	32	22.50	-79	39.00	1031	14856.29	71370.11	15352 C/C 250°	GP
05	20	1545	32	22.20	-79	41.50	1032	14840.61	71354.80		GP

# LORAN LOG

Cruise I.D. \_\_\_\_\_ Year \_\_\_\_\_

Leg No. \_\_\_\_\_ TZ \_\_\_\_\_

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	20	1600	32	21.49	-79	42.85	1033	14827.48	71341.00	1605 - C/C 290°	
		<del>1610</del>					1034	14819.10	71330.43		
		<del>1620</del>					1035	14814.26	71320.70	C/C 260° - 1620	
		1630					1036	14807.70	71310.59	C/C 240° 1630	
		<del>1640</del>					1037	14797.60	71301.00	C/C 125° 1645	
		<del>1650</del>					1038	14785.98	71297.66		
		1700					1039	14781.59	71300.41		
		<del>1710</del>					1040	14777.20	71303.22		
		1720					1041	14773.70	71305.45		
		1730	32	18.20	-79	48.25	1042	14769.80	71307.77	C/C 120° 1735	
		1740	32	17.70	-79	47.85	1043	14766.20	71310.09		
		1751					1044	14762.69	71312.90		
		1800	32	16.90	-79	47.50	1045	14759.99	71315.77	C/C 115° 1803	
		1820	32	16.00	-79	46.50	1046	14755.14	71321.39	C/C 110° 1816	
		1830					1047	14753.30	71324.50		
		1840					1048	14751.66	71327.74		
		1851					1049	14749.59	71331.25		
		1900					1050	14748.00	71334.40		
		1910	32°	14.5'	-79°	44.1'	1051	14746.69	71337.49		
		1920					1052	14745.19	71341.48		
		1930	32°	13.9'	-79°	43.6'	1053	14743.96	71344.64		

# LORAN LOG

 Cruise I.D. IG 15

 Year 1975

 Leg No. 1A

 TZ +5

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	20	1940					1054	1474256	7134841		
05	20	1950	32°	13.3'	-79°	41.7'	1055	1474166	7135135	C/S to 650 R.P.M.	
		2003					1056	1473983	7135797		
		2010	32°	12.5'	-79°	40.7'	1057	1473900	7136090		
		2020					1058	1473756	7136578		
		2030	32°	11.5'	-79°	39.3'	1059	1473604	7137053		
		2040					1060	1473479	7137550		
		2050	32°	10.8'	-79°	37.4'	1061	1473350	7138006		
05	20	2100	32	10.7	-79	36.9	1062	1473222	7138501		TS
05	20	2110					1063	1473006	7138990		TS
05	20	2120	32	09.7	-79	35.5	1064	1472810	7139451		TS
05	20	2130					1065	1472565	7139976		TS
05	20	2140	32	08.5	-79	35.0	1066	1472301	7140487		TS
05	20	2150					1067	1472097	7140880		TS
05	20	2200	32	07.9	-79	32.5	1068	1471834	7141284		TS
05	20	2210					1069	1471536	7141650		TS
05	20	2220	32	07.0	-79	31.3	1070	1471260	7142011		TS
		2230					1071	1470957	7142394	C/c 130° @ 2230Z	
		2240	32	06.0	-79	30.0	1072	1470560	7142750		
		2251					1073	1470136	7143107		TS
		2300	32	05.2	-79	28.6	1074	1469748	7143400		TS

## LORAN LOG

Cruise I.D. 1615Year 1975Leg No. 1ATZ TS

SS7

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	20	2310					1075	14693.21	71437.30		TS
05	20	2322	32	03.9	-79	27.5	1076	14688.00	71441.30		TS
05	20	2330					1077	14683.81	71444.40		TS
05	20	2340	32	02.7	-79	26.4	1078	14679.90	71447.28		TS
05	20	2350					1079	14675.69	71451.15		TS
05	21	0000	32	02.0	-79	25.2	1080	14672.54	71454.35		TS
05	21	0010					1081	14668.98	71457.53		TS
05	21	0020	32	01.9	-79	24.2	1082	14665.49	71460.42		TS
05	21	0030					1083	14662.53	71464.00		TS
05	21	0040	32	00.1	-79	23.0	1084	14660.28	71467.29		TS
05	21	0050					1085	14657.42	71470.67		TS
05	21	0100	31	59.2	-79	21.6	1086	14655.20	71473.99	120° @ 0022Z	TS
05	21	0120	31	58.49	-79	20.04	1087	14651.44	71481.02		GP
05	21	0130	31	58.00	-79	19.55	1088	14649.69	71484.60	c/e 125° @ 0130Z	GP
05	21	0140	31	57.35	-79	19.15	1089	14646.88	71488.50		GP
05	21	0150	31		-79		1090	14644.13	71491.96	c/e 137° 0155Z	GP
		0200	31	56.9	-79	17.8	1091	14642.00	71494.50		
		0210					1092	14638.10	71497.22		
		0220	31	55.9	-79	16.6	1093	14634.91	71500.10		
		0230					1094	14630.80	71503.06		
05	21	0241	31	54.9	-79	15.6	1095	14626.70	71506.00		

0250

1096 14623.48 71508.75

## LORAN LOG

Cruise I.D. 16-15-1 Year 75Leg No. SE-3 TZ       

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	21	0300	31	54.2	-79	14.5	1097	14620.40	71511.29		
05	21	0310	31		-79		1098	14617.49	71514.30		
05	21	0320	31	53.10	-79	13.40	1099	14614.31	71517.41		
		0330					1100	14611.49	71520.20		
		0340	31	52.6	-79	12.4	1101	14609.22	71523.56	0345 - c/c 140°	
		0350					1102	14607.28	71526.75	c/c 145 0353	
		0400	31	51.9	-79	11.0	1103	14604.71	71529.77		
		0410					1104	14602.43	71532.28	0405 - c/c 150°	
		0420	31	51.2	-79	10.0	1105	14600.50	71535.49	0420 c/c 155°	
		0430					1106	14599.06	71538.67	4.0N?	
05	22	0440	31	50.45	-79	08.66	1107	14598.10	71541.76		
05	22	0450	31	50.25	-79	07.99	1108	14598.01	71545.38		
05	22	0500	31	50.15	-79	07.30	1109	14598.36	71549.10	c/c 250° 0500	
										c/s 2kt 0510	
		0530	31	48.75	-79	06.20	1110	14586.60	71555.00		
05	22	0600	31	48.50	-79	07.50	1111	14578.34	71546.70		
05	22	0624	31	49.00	-79	09.45	1112	14578.92	71536.83		
"	"	0642	31	49.70	-79	10.80	1113	14579.19	71529.84		
"	"	0700	31	49.85	-79	12.15	1114	14579.13	71522.62		
"	"	0724	31	50.45	-79	14.00	1115	14576.70	71512.40		
"	"	0740	31	50.30	-79	15.75	1116	14570.98	71501.80	c/c 255° 0750	

## LORAN LOG

Cruise I.D. IG-15Year 1975Leg No. 1ATZ TS

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	21	0800	31	50.00	-79	17.00	1117	14564.44	71489.65		
05	21	0820	31	50.20	-79	20.25	1118	14557.20	71477.26		
05	21	840	31	50.21	-79	20.1	1119	14549.35	71464.03		
05	21	0900	31	49.90	-79	25.0	1120	14540.01	71450.60		
05	21	0920	31	50.6	-79	26.9	1121	14528.53	71438.02		TS
05	21	0942	31	49.4	-79	29.6	1122	14516.06	71424.62		TS
05	21	1000	31	48.8	-79	30.5	1123	14509.20	71417.90		TS
05	21	1100	31	48.0	-79	31.2	1124	14494.80	71414.38		TS
05	21	1130	31	46.0	-79	31.5	1125	14472.62	71411.00		TS
05	21	1200	31	44.4	-79	31.6	1126	14451.54	71410.10		TS
05	21	1230	31	42.1	-79	31.8	1127	14437.29	71409.00		TS
05	21	1300	31	41.7	-79	31.9	1128	14423.98	71408.16		TS
05	21	1330	31	41.35	-79	33.20	1129	14414.15	71399.41		GP
05	21	1400	31	40.85	-79	33.25	1130	14400.84	71387.91		GP
05	21	1430	31	40.30	-79	37.98	1131	14383.16	71372.78		GP
05	21	1500	31	40.00	-79	39.70	1132	14373.66	71362.25		GP
05	21	1530	31	38.99	-79	39.60	1133	14357.90	71347.40		GP
		1600	31	38.4	-79	44.6	1134	14341.64	71331.86		R-12
		1635	31	37.6	-79	48.2	1135	14321.74	71312.00		
		1700	31	37.3	-79	50.1	1136	14313.01	71300.50		
		1730	31	37.0	-79	52.6	1137	14302.55	71285.40		

## LORAN LOG

Cruise I.D. IG 15 Year 1925Leg No. 1A TZ TS

SS7

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	21	1800	31	37.0	-79	55.5	1138	14293.05	71269.30		TS
05	21	1900	31	37.0	-80	00.8	1139	14276.00	71236.40		TS
65	21	2000	31	36.3	-80	06.5	1140	14259.64	71202.23		TS
05	21	2100	31	38.2	-80	11.6	1141	14245.67	71169.20		
		2130					1142	14240.15	71155.46		
05	21	2200	31	37.8	-80	13.1	1143	14234.09	71140.84		TS
05	21	2303								c/c 080 @ 2303Z	JW
000		2					1144	14233.38	71137.60		
										0045 A/s 600 RPM on both	
05	22	0100					1145	14255.86	71173.44		
		0130					1146	14266.58	71190.03		
		0200					1147	14276.60	71205.27		
		0230					1148	14286.95	71221		
		0300					1149	14296.80	71236.61		
		0330					1150	14305.92	71250.90		
		0400					1151	14315.27	71264.62		
		0433					1152	14325.99	71279.36		
		0503					1153	14335.20	71291.43		
		0613					1154	14356.71	71316.25		
		803	31	40.80	79	51.00	1155	14350.13	71294.26		
05	22	834	31	40.80	79	55.50	1156	14333.29	71265.02		

# LORAN LOG

Cruise I.D. IGLS Year 1975

Leg No. 1A TZ +5

SS7  
W Z

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	22	901	31	40.8	-80	00.00	1157	14319.43	71240.27		
05	22	1000	31	40.4	-80	09.0	1158	14287.77	71186.37		TS
05	22	1030	31	40.1	-80	13.5	1159	14271.39	71158.47		TS
05	22	1100	31	40.5	-80	17.7	1160	14252.64	71130.79	ST 2 = SS7-Z ST 1 = SSy-W	TS
BEGIN SE 4	05	22	2100	31	34.2	-80	38.5	1061	14128.	71004.	
	05	22	2120	31	34.1	-80	37.4	1062	14132.00	71010.66	TS
	05	22	2130	31	3	-80		1063	14131.32	71013.80	TS
	05	22	2140					1064	14129.83	71017.00	TS
			2150					1065	14128.20	71020.78	TS
			2200					1066	14125.78	71025.33	TS
			2202	31	33.1	-80	35.0	1067	14125.16	71026.48	start SE 4 TS
			2210	31				1068	14123.23	71030.57	TS
			2220	31	32.2	-80	33.7	1069	14112.26	71036.15	TS
			2230					1070	14119.30	71041.83	TS
			2240	31	31.4	-80	32.0	1071	14117.37	71047.40	TS
			2250					1072	14115.53	71053.37	1
			2300	31	30.5	-80	30.0	1073	14113.08	71059.10	TS
			2310					1074	14111.88	71065.10	TS
			2320	31	29.5	-80	28.1	1075	1409.89	71071.42	TS

3L1 = 3H6



## LORAN LOG

Cruise I.D. TG-15 Year 1975Leg No. 1A TZ +5

SS7

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1 W	ST. #2 Z	COMMENTS	WATCH I.D.
05	22	2330					1076	1410801	71077.73		TS
05	22	2340	31	28.6	-80	26.2	1077	14106.24	71083.53		TS
05	22	2350					1078	14103.90	71089.67		TS
05	23	0000	31	27.8	-80	24.2	1079	14101.29	71095.79		
05	23	0020	31	26.8	-80	22.3	1080	14096.39	71107.63		
05	23	0030					1081	14094.32	71112.87		
05	23	0040	31	26.0	-80	20.6	1082	14092.11	71118.36		TS
05	23	0051					1083	14089.14	71124.46		TS
05	23	0100	31	25.0	-80	19.0	1084	14086.60	71128.89		
05	23	0110	31	24.75	-80	18.20	1085	14083.50	71134.55		GP
05	23	0120	31	24.70	-80	17.49	1086	14081.46	71138.30	c/c 137° 0124Z	GP
05	23	0130	31	23.80	-80	17.25	1087	14077.46	71144.00		GP
05	23	0140	31	23.20	-80	15.85	1088	14073.09	71148.69		GP
05	23	0150	31	22.70	-80	15.40	1089	14070.22	71151.93		GP
05	23	0200	31	22.15	-80	13.90	1090	14066.29	71156.29		GP
05	23	0210	31		-80		1091	14062.50	71160.50		GP
		0220	31	21.2	-80	13.1	1092	14058.48	71164.77	c/c 130° @ 0220Z	
		0230					1093	14055.26	71169.10		
		0240	31	19.9	-80	11.4	1094	14051.61	71174.43	c/c 127° @ 0245Z	
		0250					1095	14048.56	71179.43	c/c 125° - 0255Z	
05	23	0300	31	18.0	-80	10.0	1096	14046.48	71183.84		

# LORAN LOG

Cruise I.D. IG-15-1

Year 75

Leg No. SE-4

TZ ~~SE~~

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	23	0310					1097	14 043 39	71 189 16		
		0320	31	18.2	-80	8.3	1098	14 040 54	71 193.60		
		0330					1099	14 037 67	71 197 91		
		0340	31	22.70	-80	06.70	1100	14 034 52	71 202 30	0345 c/c 123°	GP
		0350	31		-80		1101	140 31.80	71206.30		GP
05	23	0400	31	16.45	-80	05.01	1102	140 28.80	712 11.10		GP
05	23	0410	31	16.00	-80	04.25	1103	140 25.89	712 14.90		GP
05	23	0420	31	15.50	-80	03.60	1104	140 23.20	712 19.32		GP
05	23	0430	31	15.10	-80	03.25	1105	140 20.15	712 23.60		GP
05	23	0440	31	14.51	-80	02.15	1106	140 17.43	712 28.72		GP
05	23	0450	31		-80		1107	140 15.57	712 31.80		GP
05	23	0500	31	14.0	-80	0.8	1108	14 013 02	71 236 29		
05	23	0510					1109	140 10.44	712 40.25		RC
05	23	0520	31	13.0	-79	59.25	1110	140 08.40	712 43.90		
05	23	0530					1111	140 06.59	712 48.12		
05	23	0542	31	12.20	-79	57.40	1112	140 04.05	712 53.15		
05	23	0550					1113	140 02.57	712 56.20		
05	23	0600	31	11.5	-79	56.20	1114	140 00.99	712 59.72		
05	23	0611					1115	139 98.07	712 63.60		
05	23	0620	31	11.1	-79	55.15	1116	139 97.40	712 66.56		
05	23	0636					1117	139 96.90	712 70.57		

# LORAN LOG

Cruise I.D. \_\_\_\_\_ Year \_\_\_\_\_

Leg No. \_\_\_\_\_ TZ \_\_\_\_\_

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	23	0640	31	10.70	-79	54.0	1118	13997.15	71273.50		
05	23	0650					1119	13997.26	71276.60		
05	23	0710	31	10.35	-79	51.90	1120	14000.27	71284.63		
05	23	0720	31	10.10	-79	50.80	1121	14002.70	71289.10		
		0730					1122	14005.16	71293.61		
		0740	31	10.45	-79	49.25	1123	14007.77	71297.76	c/c 140° @ 0740Z	
		0750					1124	14009.20	71301.40		
		0800	31	9.80	-79	47.80	1125	14010.22	71305.09		
		0810					1126				
		0824	31	9.80	-79	46.40	1127	14012.57	71312.14	c/c 155° 0828Z changed from 826	
		0830					1128	14013.63	71315.70		
		0840	31	9.45	-79	45.25	1129	14013.63	71318.30		
		0850					1130	14013.60	71321.00	c/s to 200 rpm 0903Z	
		0900	31	09.02	-79	44.70	1131	14011.97	71323.80		
		0911					1132	14009.96	71327.04		TS
		0920	31	09.0	-79	43.6	1133	14008.34	71329.64		TS
		0930					1134	14005.71	71331.70		TS
		0945	31	08.1	-79	42.6	1135	14001.28	71333.60		TS
		1000	31	07.6	-79	42.4	1136	14096.69	71335.83		TS
		1015					1137	13991.99	71338.15		TS
		1030					1138	13987.51	71340.03		

# LORAN LOG

Cruise I.D. \_\_\_\_\_ Year \_\_\_\_\_

Leg No. \_\_\_\_\_ TZ \_\_\_\_\_

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	23	1045	31	06.4	-79	41.2	1139	13982.26	71342.33		CS
		1110		0			1140	13975.79	71347.80		
		1120	31	04.9	-79	39.4	1141	13972.97	71350.10		
		1130					1142	13969.69	71352.40		
		1140	31	04.3	-79	38.6	1143	13967.01	71354.70		
		1150					1144	13964.14	71356.99		
		1200	31	03.6	-79	37.4	1145	13961.18	71359.40		
		1210					1146	13957.81	71361.86		
		1220	31	02.6	-79	36.6	1147	13954.49	71364.22		
		1230					1148	13950.42	71367.46		
		1240	31	02.0	-79	35.6	1149	13947.60	71369.00		
		1250					1150	13944.12	71371.32		
		1300	31	01.2	-79	34.6	1151	13940.27	71373.78		
05	23	1310	31		-79		1152	13936.15	71376.38	C/C 155° @ 1310Z	GP
05	23	1321					1153	12932.49	71379.46		GP
05	23	1330	30	59.90	-79	32.85	1154	13930.00	71381.70		GP
05	23	1340	30	59.4	-79	32.4	1155	13926.31	71384.65		GP
05	23	1350	30	59.50	-79	31.85	1156	13922.53	71387.56		GP
05	23	1400	30	58.70	-79	31.25	1157	13919.0	71390.00		GP
05	23	1410					1158	13915.51	71392.40		RTB
		1420	30	57.5	-79	30.0	1159	13910.55	71395.17	C/C 150° @ 1423Z	1

change from 1425

# LORAN LOG

Cruise I.D. \_\_\_\_\_ Year \_\_\_\_\_

Leg No. \_\_\_\_\_ TZ \_\_\_\_\_

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	23	1430					1160	13 906 62	71 297 73		
		1440	30	56.7	-79	29.0	1161	13 903 13	71 400 71		
		1500	30	55.7	-79	27.6	1162	13 896 23	71 406 14	C/C 145° @ 1500Z	
05	23	1510	30	55.25	-79	27.10	1163	13893.21	71408.80		GP
05	23	1520	30	54.95	-79	26.5	1164	13890.34	71411.77		GP
05	23	1530	30	54.70	-79	25.70	1165	13887.62	71414.60		GP
05	23	1540	30	55.00	-79	25.25	1166	13885.32	71416.99		GP
05	23	1550	30		-79		1167	13881.77	71420.45		GP
05	23	1600	30	53.45'	-79	23.90'	1168	13879.00	71422.70	Time 1506	GP
		1607	30	53.0'	-79	23.7'	1169	13876.29	71424.76	C/C 200° END SE-4 LINE	
05	23	1620	30	52.30'	-79	23.50'	1170	13867.20	71423.57	↑ discrepancy - not listed in navigation chart	GP
05	23	1640	30	50.50'	-79	24.55'	1171	13846.89	71418.10		GP
05	23	1650	30	50.10'	-79	25.20'	1172	13835.79	71414.98		GP
05	23	1700	30	49.30'	-79	25.70'	1173	13826.07	71412.33		GP
05	23	1733	30°	47'	-79°	27.2'	1174	13792.30	71402.87		JS.
05	23	1800	30°	44.9'	-79°	28.5'	1175	13765.54	71395.24		
05	23	1830	30°	43.0'	-79°	31.1'	1176	13735.66	71383.89		
05	23	1900	30°	40.8	-79	32.80'	1177	13709.12	71372.24	1906 C/C 260°	
05	23	1930	30°	40.55	-79°	35.75	1178	13696.95	71357.00		
05	23	1945					1179	13698.47	71348.50	1949 C/C 245°	
05	23	2000	30°	41.75	-79°	35.40	1180	13697.97	71339.60		

END  
SE-4  
TRANSIT  
TO  
SEA

# LORAN LOG

Cruise I.D. \_\_\_\_\_ Year \_\_\_\_\_

Leg No. \_\_\_\_\_ TZ \_\_\_\_\_

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	23	2030	30	42.4	79	42.8	1181	1369419	7132337	comp. 2035	NE 2040
05	23	2100	30	41.6	79	45.6	1182	1368150	7130972	C/C 210° @ 2030 @ 2040Z	
05	23	2130					1183	13665.30	7130039		
05	23	2200	30	39.4	-79	49.0	1184	13647.31	71290.88	C/C 205° @ 2140Z	
05	23	2230					1185	13629.19	71283.50		
		2245					1186	13621.81	71279.01		
		2300	30	37.9	-79	53.0	1187	13613.42	71273.61	2340	
		2330	30	36.8	-79	54.2	1188	13601.51	71263.52	LORAN <sup>C</sup> out - circling until get	
05	24	0031	30	37.4	-79	56.5	1189	13602.17	71252.22	signal back	
		0110					1190	13596.79	71247.08	O/C - C/C 240° - 5-6 @ 0110Z	
		0120					1191	13596.98	71242.83		
05	24	0130	30	37.50	-79	59.10	1192	13596.87	71238.31		GP
05	24	0140	30	37.60	-80	04.00	1193	13596.50	71232.10		GP
05	24	0150	30	37.80	-80	00.75	1194	13595.65	71229.02	C/C 250° @ 0150Z	GP
05	24	0200	30	37.90	-80	01.80	1195	13595.69	71224.37		GP
05	24	0210	30	38.35	-80	03.10	1196	13596.15	71218.90	C/C 255° @ 0208Z	GP
05	24	0220	30	38.40	-80	04.17	1197	13596.40	71214.70		GP
05	24	0230	30	38.70	-80	04.75	1198	13596.75	71209.50		GP
05	24	0240	30	39.00	-80	05.70	1198	13596.60	71204.50		GP
05	24	0250	30	39.16	-80	06.49	1199	13596.00	71200.03	C/C 260° @ 0251Z	GP
05	24	0251	30	39.00	-80	07.65	1200	13595.72	71194.60		GP

# LORAN LOG

Cruise I.D. \_\_\_\_\_ Year \_\_\_\_\_

Leg No. \_\_\_\_\_ TZ \_\_\_\_\_

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	24	0300	30	39.45	-80	08.40	1201	13595.90	71189.41		GP
05	24	0320	30	39.55	-80	09.44	1202	13596.44	71185.10		GP
05	24	0330	30	39.80	-80	10.10	1203	13596.82	71181.07		GP
05	24	0340	30	40.10	-80	10.90	1204	13597.29	71177.40		GP
05	24	0350	30	40.40	-80	11.65	1205	13597.98	71173.52		GP
05	24	0400	30	40.69	-80	12.60	1206	13598.91	71168.63		GP
05	24	0410	30	40.75	-80	13.00	1207	13599.21	71165.72		GP
05	24	0420	30	41.0	-80	13.5	1208	13599.44	71162.64		GP
05	24	0430	30	41.0	-80	14.1	1209	13599.27	71159.20		
05	24	0440	30	41.0	-80	14.8	1210	13599.00	71156.00		
05	24	0450	30	41.2	-80	15.5	1211	13599.06	71152.27		
05	24	0500	30	41.5	-80	16.0	1212	13599.00	71148.70		
05	24	0510	30		-80		1213	13598.52	71143.79	c/c 279° @ 05102	RC
05	24	0520	30	41.5	-80	17.60	1214	13599.00	71140.63		
05	24	0530					1214	13599.54	71136.80		
05	24	0540	30	42.20	-80	19.0	1215	13599.98	71133.00		
05	24	0550					1216	13600.64	71128.88		
05	24	0600	30	42.55	-80	20.70	1217	13601.25	71124.45	0603 c/c 277°	
05	24	0610					1218	13601.88	71119.56	0612 c/c 275°	
05	24	0620	30	42.90	-80	22.30	1219	13602.20	71115.20		
05	24	0630					1220	13601.90	71110.27		

## LORAN LOG

Cruise I.D. IG-15Year 1975Leg No. 1ATZ TS

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	24	0640	30	43.65	-80	24.20	1221	1360189	7110570		
05	24	0650					1222	1360173	7110100		
05	24	0700	30	43.25'	-80	25.75	1223	1360170	71096.24		
05	24	0710			-		1224	1360160	71091.12		
05	24	0720	30°	44.1'	-80	27.6	1225	13601.80	71086.61		
05	24	0730					1226	13601.90	7108154		
05	24	0740	30°	44.6	-80°	29.6	1227	1360231	7107544		
		0750					1228	1360249	7107131	@ 0742 c/c 273°	
		0800	30°	45'	-80°	31.4'	1229	1360248	7106583		
		0810					1230	1360213	7105942		
		0820	30'	45.5'	-80'	32.6'	1231	1360259	7105617		
		0830					1232	1360288	7104987	① 0830 c/c 271°	
		0840	30°	45.8'	-80°	34.6'	1233	1360310	7104530		
		0850					1234	1360318	7104073	@ 0840 c/c 269°	
		0900	30	46.2	-80	36.7	1235	13602.93	71034.54		
		0910					1236	13602.89	71029.90		
		0920	30	46.5	-80	38.6	1237	13602.53	71024.81		
		0930					1238	13602.31	71019.69		
		0940	30	46.7	-80	40.5	1239	13602.10	71014.71		
		0950					1240	13601.79	71019.46		
		1000	30	47.1	-80	42.1	1241	13601.55	71005.18		



## LORAN LOG

Cruise I.D. IG-15Year 1975Leg No. 1ATZ +5

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	24	1010					1242	13601.29	71000.10		
05	24	1020	30	47.4	-80	43.8	1243	13601.15	70994.90		
05	24	1032					1244	13601.01	70988.90		
05	24	1040	30	47.5	-80	45.3	1245	13600.96	70985.50		
05	24	1051					1246	13601.10	70980.11		
05	24	1100	30	48.0	-80	47.0	1247	13601.18	70976.29		
05	24	1111					1248	13601.00	70971.40		
05	24	1120	30	48.2	-80	48.7	1249	13600.70	70967.12		
05	24	1130					1250	13600.27	70962.11		
05	24	1140	30	48.6	-80	50.3	1251	13599.50	70957.11		
05	24	1150					1252	13599.30	70952.22		
05	24	1200	30	48.9	-80	52.1	1153	13599.20	70947.34		
05	24	1210					1154	13599.16	70942.47		
05	24	1220	30	49.1	-80	53.6	1155	13599.11	70937.65		
05	24	1230					1156	13599.14	70932.56		
05	24	1240	30	49.4	-80	55.3	1157	13599.08	70927.09		
05	24	1250					1158	13599.09	70921.72		
05	24	1254	30	49.6	-80	56.9	1159	13598.46	70919.49		
05	24	1300	30	49.7	-80	57.3	1160	13597.51	70915.42		
05	24	1320	30	48.1	-80	56.3	1161	13581.00	70922.09		
05	24	1340	30	46.3	-80	54.3	1162	13567.80	70935.13		

# LORAN LOG

Cruise I.D. 16-15-1 Year 75

Leg No. \_\_\_\_\_ TZ \_\_\_\_\_

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	24	1400	30	44.8	-80	52.2	1163	13554 28	70 947 75	c/c 180°	
05	24	1420	30	42.4	-80	51.9	1164	13 528 12	70 950 60		
05	24	1440	30	40.3	-80	51.8	1165	13 504 15	70 951 71		
05	24	1500	30	37.7	-80	51.5	1166	13 477 00	70 953 45		
05	24	1520	30	35.3	-80	51.4	1167	13 451 60	70 954 80		
05	24	1540	30	33.0	-80	51.4	1168	13 426 24	70 956 30		
05	24	1602	30	30.3	-80	51.3	1169	13 396 00	70 957 70		
05	24	1620	30	27.9	-80	51.1	1170	13 370 47	70 958 59		
05	24	1640	30	25.5	-80	50.9	1171	13 344 92	70 962 60		
05	24	1700	30	24.0	-80	49.4	1172	13 328.00	70 971 20		
05	24	1720					1173	133 08.24	70981.21	c/c 182 17322	
05	24	1740	30°	19.5'	-80°	46'	1174	1328477	7098976		
05	24	1800	30°	17.5'	-80°	46'	1175	1325916	7098961		
05	24	1822	30°	15.3'	-80°	46.5'	1176	1323611	7098867		
05	24	1840	30°	13'	-80°	46.4'	1177	1321015	7098775		
05	24	1900	30°	11'	-80°	45.0'	1178	1318507	7098640		
05	24	1920	30°	8.8'	-80°	47'	1179	1316103	7098516	s/c slow on 2	
05	24	1942	30°	6.6'	-80°	47.9	1180	1313467	7098349	s/c slow @ 1942	
05	24	2000	30°	5.3'	-80°	48.0	1181	13116	7098150		
05	24	2020	30°	2.9'	-80°	49.0	1182	1309095	7097863		
05	24	2040	30°	0.07	-80°	49.5'	1183	1306446	70975.9		

## LORAN LOG

Cruise I.D. IG-15Year 1975Leg No. 1ATZ TS

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	24	2100	29	<del>58.5</del>	<del>80</del>	<del>51.7</del>	1684	1303917	7097280		
05	24	2110	29	57.1	-80	50.5	1685	13024.62	70971.20		TS
05	24	2120	29	56.5	-80	51.4	1686	13014.39	70966.54		TS
05	24	2130					1687	13010.49	70959.70		TS
05	24	2140	29	56.0	-80	54.2	1688	13006.57	70951.90		TS
05	24	2150					1689	13002.86	70944.54		TS
05	24	2200	29	55.7	-80	57.0	1690	12999.70	70937.22		TS
05	24	2210					1691	12996.59	70930.00		TS
05	24	2220	29	55.2	-80	59.7	1692	12990.25	70923.55		TS
05	24	2230					1693	12983.86	70917.32	o/c 2070 @ 2230Z	TS
05	24	2240	29	54.1	-81	02.0	1694	12972.53	70911.70		TS
05	24	2250					1695	12962.68	70907.76		TS
		2255	29		-81		1696	12957.02	70906.36		
05	24	2300	29	52.1	-81	2.5	1697	12951.80	70907.30		
		2312					1698	12949.91	70912.95		
		2320	29	52.0	-81	1.4	1699	12949.49	70915.70		
		2322	29	51.9	-81	01.2	1700	12950.10	70916.59	Begin SE 6	TS
		2330					1701	12950.35	70919.33		TS
		2340	29	52.0	-80	59.9	1702	12950.45	70923.11		TS
		2350					1703	12950.54	70927.20		

TRANSIT  
SE-6

SE-6

## LORAN LOG

Cruise I.D. TG-15 Year 1975  
 Leg No. 1A (SE-6) TZ +5

SS7  
 W Z

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	25	0000	29	51.6	-80	58.4	1704	12950.53	70931.57	C/C 093 @0000Z	TS
		0010					1705	12951.20	70935.91		TS
		0020	29	51.6	-80	56.5	1706	12952.16	70940.61		TS
		0030					1707	12953.20	70944.99	C/C 095° @0003Z	TS
		0040	29	50.5	-80	54.9	1708	12954.12	70949.79	lost cycle light on	TS
		0050					1709	12954.94	70954.30		
		0100	29	51.4	-80	53.0	1710	12955.56	70958.60		
		0110	29	51.4	-80	52.1	1711	12956.21	70963.53		
		0120	29	51.4	-80	51.2	1712	12956.82	70968.21		
		0130	29	51.4	-80	50.5	1713	12957.41	70971.98		
		0140	29	51.2	-80	49.6	1714	12958.20	70976.36		
		0150	29	51.1	-80	48.6	1715	12959.06	70980.90		
		0200	29	51.2	-80	47.7	1716	12959.81	70985.99		
		0210	29	51.0	-80	46.8	1717	12960.72	70990.99		
		0220	29	51.0	-80	46.0	1718	12961.58	70995.31		
		0230	29	50.9	-80	45.0	1719	12962.41	70999.90		
05	25	0240	29	50.15	-80	44.00	1720	12963.23	71005.10		GP
05	25	0250	29	51.20	-80	42.90	1721	12964.30	71009.51		GP
05	25	0300	29	50.80	-80	42.00	1722	12965.59	71014.60		GP
05	25	0310	29	50.75	-80	41.00	1723	12966.70	71019.90		GP
05	25	0320	29	50.80	-80	40.00	1724	12967.99	71024.80		GP

# LORAN LOG

Cruise I.D. \_\_\_\_\_ Year \_\_\_\_\_

Leg No. \_\_\_\_\_ TZ \_\_\_\_\_

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	25	0330	29	50.60	-80	38.75	1725	129 69.29	710 30.49		GP
05	25	0340	29	50.65	-80	37.80	1726	129 70.48	710 35.76		GP
05	25	0350	29	50.70	-80	37.06	1727	129 71.44	710 40.18		GP
05	25	0400	29	50.55	-80	35.99	1728	129 72.42	710 45.05		GP
05	25	0410	29	50.5	-80	35.0	1729	129 73.26	710 50.60		GP
		0420	29	50.3	-80	33.8	1730	129 74.10	710 56.11		B
		0430	29	50.3	-80	32.7	1731	129 74.83	710 61.20		B
		0440	29	50.3	-80	31.9	1732	12 975 54	710 65.02		B
		0450	29	50.2	-80	31.0	1733	12 976.31	71 070.20		
		0500	29	50.0	-80	30.0	1734	12 977 21	71 074.98		
		0510	29				1735	12 978 21	71 079 30		
		0520	29	50.0	-80	28.0	1736	12 979 03	71 083 90		
		0530	29				1737	12 979 96	71 088 60		
		0540	29	49.5	-80	26.0	1738	12 981 23	71 094 00		
		0550	29				1739	12 982 00	71 098 35		
		0600	29	49.65	-80	24.5	1740	12 982 71	71 102 40		
		0610	29				1741	12 983 40	71 106 90		
		0620	29	49.6	-80	22.6	1742	12 983 98	71 111 10		
		0630					1743	12 984 34	71 115 04		
		0640	29	49.4	-80	21.0	1744	12 984 75	71 119 62		
		0650					1745	12 984 84	71 122 78		

# LORAN LOG

Cruise I.D. \_\_\_\_\_

Year 1975

Leg No. \_\_\_\_\_

TZ \_\_\_\_\_

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	25	0700	29	49.00	80	19.40	1746	12985.26	71126.76		RC
		0711					1747	12986.08	71130.75		
		0721	29	48.90	80	17.75	1748	12986.89	71134.44		
05	25	0730					1749	12987.46	71137.61		
05	25	0740	29	48.90	80	16.15	1750	12988.14	71141.90		
05	25	0750					1751	12988.98	71146.05		
05	25	0800	29	48.75	80	14.55	1752	12989.45	71149.20		
05	25	0810					1753	12989.79	71153.40		
05	25	0820	29	49.25	80	13.00	1754	12990.50	71157.92		
05	25	0830					1755	12991.40	71161.15		
05	25	0840	29	48.5	80	11.5	1756	12992.44	71164.50		
05	25	0853					1757	12994.20	71168.55		
05	25	0900	29	48.50	80	09.7	1758	12995.38	71171.77		
05	25	0910					1759	12997.25	71175.15		TS
05	25	0920	29	48.3	-80	08.5	1760	12999.89	71178.80		TS
05	25	0930					1761	13002.10	71182.32		TS
05	25	0940	29	48.5	-80	07.0	1763	13003.93	71185.57		TS
05	25	0950					1764	13006.10	71188.75		TS
05	25	1000	29	48.7	-80	05.9	1765	13008.15	71191.50		TS
05	25	1010					1766	13010.10	71194.14		TS
05	25	1020	29	48.8	-80	04.8	1767	13012.07	71196.38		TS

# LORAN LOG

Cruise I.D. \_\_\_\_\_ Year \_\_\_\_\_

Leg No. \_\_\_\_\_ TZ \_\_\_\_\_

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	25	1030					1768	1301412	71198.36		
05	25	1040	29	48.7	-80	03.9	1769	13016.40	71200.00		
05	25	1050					1770	13018.67	71201.91		
05	25	1100	29	49.2	-80	03.3	1771	13020.89	71203.50		
05	25	1110					1772	13022.27	71204.88		
05	25	1120	29	49.3	-80	02.7	1773	13022.76	71205.70		
05	25	1130					1774	13022.14	71207.18		
05	25	1140	29	49.0	-80	02.1	1775	13021.55	71208.55		
05	25	1150					1776	13021.30	71210.10		
05	25	1200	29	48.9	-80	01.4	1777	13022.22	71212.20		
05	25	1210					1778	13023.08	71214.88		
05	25	1220	29	48.8	-80	00.2	1779	13024.75	71217.16		
05	25	1230					1780	13025.84	71219.51		
05	25	1240	29	48.7	-79	59.2	1781	13026.94	71221.82		
05	25	1252					1782	13028.20	71224.90		
05	25	1300	29	48.7	-79	58.2	1783	13029.02	71226.87		
05	25	1310	29	48.70	-79	57.00	1784	13029.50	71229.80		GP
05	25	1320	29	48.75	-79	56.69	1785	13030.50	71232.01		GP
05	25	1330	29	48.75	-79	56.60	1786	13031.16	71234.84		GP
05	25	1340	29	48.75	-79	56.00	1787	13031.80	71237.37		GP
05	25	1350	29	48.75	-79	55.90	1788	13032.36	71239.89		GP

# LORAN LOG

Cruise I.D. 16-15-1 Year 75

Leg No. SE-6 TZ       

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	25	1400	29	48.85	-79	54.80	1789	13032.87	71242.67		GP
05	25	1410	29	48.70	-79	54.20	1790	13033.51	71245.99	MISTICAL 1420	
05	25	1430	29	48.3	-79	53.0	1791	13034.02	71251.10		
05	25	1440	29	48.2	-79	52.4	1792	13034.26	71254.04		
05	25	1450	29	48.3	-79	51.5	1793	13035.48	71257.47		
05	25	1500	29	48.1	-79	50.8	1794	13036.90	71261.01		
		1510	29	48.1	-79	50.1	1795	13037.97	71264.40		
		1521	29	48.2	-79	49.3	1796	13038.95	71268.38		
		1530	29	48.0	-79	48.5	1797	13039.39	71271.39		
05	25	1540	29	48.0	-79	47.70	1798	13040.72	71275.00		
05	25	1550	29	47.87	-79	46.47	1799	13042.40	71279.76		GP
05	25	1600	29	47.80	-79	45.85	1800	13043.54	71283.49		GP
05	25	1610	29	47.50	-79	45.10	1801	13044.80	71287.44		GP
05	25	1620	29	47.60	-79	43.10	1801	13046.40	71292.03		GP
05	25	1630	29	47.50	-79	42.50	1802	13047.41	71296.00		GP
05	25	1640	29	47.50	-79	42.00	1803	13048.10	71301.50		GP
05	25	1650	29	47.15	-79	41.15	1804	13048.48	71304.08		GP
05	25	1700	29	47.35	-79	40.30	1805	13051.10	71308.46		GP
05	25	1710					1806	13053.52	71312.45		RC
05	25	1721	29	47.80	-79	38.10	1807	13056.87	71316.87		
05	25	1730					1807	13059.11	71320.41		



# LORAN LOG

Cruise I.D. \_\_\_\_\_ Year \_\_\_\_\_

Leg No. \_\_\_\_\_ TZ \_\_\_\_\_

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	25	1742	29	47.0	79	36.45	1808	1306218	7132500		
05	25	1750					1809	1306438	7132828		
05	25	1800	29	47.5	79	35.0	1810	1306648	71331.99		
05	25	1810					1811	1306820	71335.85		
05	25	1820	29	47.30	79	33.15	1812	1306993	71339.50		
05	25	1830					1813	1307173	71343.48		
05	25	1840	29	47.25	79	31.40	1814	1307316	71347.26		
05	25	1850					1815	1307440	71351.24		
05	25	1900	29	47.10	79	29.55	1816	1307563	71354.95		
05	25	1910					1817	1307663	71359.20		
05	25	1920	29	47.0	79	28.0	1818	1307731	71362.70		
05	25	1930					1819	1307758	71367.02		
05	25	1940	29	46.5	79	26.0	1820	1307760	71370.89		
05	25	1950					1821	1307725	71374.70	C/C 108° @ 1950	
05	25	2000	29	46.0	79	24.0	1822	1307694	71378.72	C/C 103° @ 2000	
05	25	2010					1823	1307714	71382.50	C	
05	25	2020	29°	46.0	79°	22.4'	1824	1307741	71386.82		
05	25	2030					1825	1307740	71390.98		
05	25	2040	29°	45.3	79°	18.2'	1826	1307756	71395.13	C/C 090°	
05	25	2050					1827	1307899	71399.18		
05	25	2100	29°	44.8	79°	17.5	1828	1308009	71402.70		

# LORAN LOG

Cruise I.D. \_\_\_\_\_ Year \_\_\_\_\_

Leg No. \_\_\_\_\_ TZ \_\_\_\_\_

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
05	25	2110					1829	13081.02	71407.00		RE
05	25	2120	29	44.2	-79	16.9	1830	13081.70	71411.35		RE
05	25	2130					1831	13081.87	71415.28		RE
05	25	2140	29	43.9	-79	16.0	1832	13082.14	71419.12	Fix Suspect CSKY WAVES 1	RE
05	25	2150					1833	13082.20	71423.30		RE
05	25	2200	29	44.0	-79	15.0	1834	13083.21	71427.01	Fix Suspect (SKY WAVES?)	RE
05	25	2210					1835	13085.26	71430.81		RE
05	25	2220	29	42.8	-79	09.5	1836	13087.14	71434.24	Fix Assumed NORMAL?	RE
05	25	2230	29	42.6	-79	08.7	1837	13080.11 <sup>X</sup>	71438.01	END SE-6 C/C 18° (t. on)	RE
		2240					1838	13085.74	71439.20	lt. 07/-	
		2300	29	41.5	-79	09.2	1839	13068.30	71437.00	taking in streamer - Dead in water	
05	26	0000	29	41.0	-79	10.2	1840	13057.19	71432.30		
		0030	29	41.0	-79	10.7	1841	13056.91	71430.61		
		0100	29	41.3	-79	11.1	1842	13060.17	71429.85		
		0130	29	42.2	-79	11.7	1843	13066.05	71427.30	c/c 305 @ 10 kts	
05	26	0200	29	42.95	-79	16.00	1844	13062.43	71411.41	c/c 210 @ 0145Z	GP
05	26	0230	29	37.5	-79	19.5	1845	12990.90	71391.55		GP
05	26	0310	29	32.3	-79	23.0	1846	12918.10	71373.90		GP
		0330	29	29.1	-79	24.6	1847	12878.18	71365.16		RE
		0400	29	25.6	-79	26.6	1848	12819.39	71353.39		RE
		0430	29	20.5	-79	29.0	1849	12759.80	71341.00		

# LORAN LOG

Cruise I.D. \_\_\_\_\_ Year \_\_\_\_\_

Leg No. \_\_\_\_\_ TZ \_\_\_\_\_

[illegible]