

LORAN LOG

Cruise I.D. IG-15-2

Year 1975

Leg No. 2

TZ 0

Blaise Plateau - Outer Ridge
Line BB-1

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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.
5	27	2037	28	22.6	-80	27.5	506	7107620	1195060	2037 c/c 090°	
5	27	2100	28	23.5	-80	24.00	501	7109063	1196448	c/c 040° @ 2050z	
5	27	2130	28	26.50	-80	21.00	502	7110668	1200540		
5	27	2200	28	28.00	-80	16.50	503	7112379	1205164		
5	27	2230	28	33.50	-80	11.80	504	7114090	1209893		GP
5	27	2300	28	36.99	-80	09.35	505	7115690	1214355		GP
5	27	2330					506	7117537	1219496		
5	28	2400	28	44.6	-80	1.0	507	7119240	1225218		BS
5	28	0030	28	45.0	-79	58.2	508	7120982	1232407		
5	28	0100	28	50.9	-79	52.8	509	7122814	1240548		RC
05	28	0138	29	02.7	-79	48.6	510	71249763	7125003		TS
05	28	0200	29	06.7	-79	46.1	511	71255092	7126320		TS
05	28	0330	29	11.65	-79	40.75	512	71261932	7128370	c/c 055° - 0215z	
05	28	0300	29	15.1	-79	46.0	513	71267492	7130462		TS
05	28	0330	29	18.4	-79	31.0	514	71272881	7132600		TS
05	28	0400	29	21.80	-79	27.85	515	71277973	7134789		RC
05	28	0430	29	25.0	-79	27.7	516	71283143	7136840		TS
05	28	0500	29	28.5	-79	18.45	517	71288529	7139039	c/c 020° - 0500z	RC
05	28	0530	29	32.38	-79	15.2	518	71293924	7140570	c/c 010° - 0530z	
		0545					519	71299200	7141124		
		0612					520	71300595	7141609		

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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	28	0638					521	1303477	7141980		
05	28	0715					522	13070.24	71424 33		
05	28	0815					523	1310002	7141670		
05	28	0830					524	13101.10	71413 46		
05	28	0908	29	45.5	-79	17.0	525	13093.53	71406.14		RE
05	28	0920	29	45.0	-79	16.5	526	13089.55	7140615	0915 C/C 140	RE
05	28	0943	29	44.5	-79	16.8	527	13085.35	71408.75		RE
05	28	1000	29	44.0	-79	15.9	528	13082.27	71410.11		RE
05	28	1020	29	44.2	-79	15.6	529	13078.88	71412.80		RE
05	28	1040	29	43.8	-79	15.0	530	13075 55	71415.30		
05	28	1050	29	43.2	-79	14.6	531	13072.53	71417.20		
05	28	1100	29	42.6	-79	13.3	532	13069 14	71419 80		
05	28	1110	29	42.5	-79	12.7	533	13070 40	71423.70		
		1120	29	43.0	-79	11.6	534	13075 97	71428.13		
		1130					535	13082.06	71432 70		
		1140					536	13089 21	71437 30		
		1150					537		714		
05	28	1200	29	44.45	-79	07.45	538	13105 30	71447.77		
05	28	1220	29	45.20	-79	05.6	538	13119.30	71456.40		
05	28	1245	29	46.25	-79	02.46	539	13137.86	71468.24		
05	28	1300	29	46.5	-79	00.9	540	13148.25	71474.90		TS

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Year 1975

Leg No. 02

TZ 0

SS 7

W Z

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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	28	1320	29	47.0	-78	58.9	541	13161.37	71483.09		TS
05	28	1340	29	47.7	-78	57.0	542	13175.87	71491.97		TS
05	28	1400	29	48.5	-78	54.7	543	13190.20	71500.51		TS
05	28	1420	29	49.0	-78	52.7	544	13203.86	71509.08		TS
05	28	1446	29	50.0	-78	50.1	545	13222.23	71519.90		
05	28	1500	29	50.4	-78	48.6	546	13232.25	71526.07		RC
05	28	1520	29	51.4	-78	46.75	547	13246.53	71533.99	c/c 0582 15242	RC
05	28	1540	29	52.1	-78	44.75	548	13261.90	71542.70		RC
05	28	1603	29	53.05	-78	32.50	549	13275.50	71552.27		
05	28	1620	29	53.70	-78	40.75	550	13292.40	71559.51	c/c 0552 16232	RC
05	28	1642	29	54.5	-78	38.65	551	13309.36	71568.30		RC
05	28	1700	29	55.25	-78	36.60	551	13324.77	71576.40		RC
05	28	1720	29	56.0	-78	34.8	552	13340.45	71584.72	1725 c/c 058	B
05	28	1740	29	56.8	-78	32.7	553	13354.47	71592.50		
05	28	1800	29	57.5	-78	31.0	554	13368.74	71600.18		
05	28	1840	29	59.0	-78	27.1	555	13398.29	71615.24		
05	28	1900	30°	00.0	-78	25.2	556	13414.24	71623.09	c/c 065	
05	28	1921	30°	0.8	-78	23.2	557	13429.77	71631.18		
05	28	1940	30	1.2	-78	21.3	558	13441.20	71638.56	c/c 068°-1930	
05	28	2000	30	1.8	-78	19.4	559	13453.47	71646.20		
05	28	2030	30	2.9	-78	16.3	560	13471.15	71657.10		

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Cruise I.D. _____ Year _____

Leg No. _____ TZ _____

LORAN C SS-7

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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	28	2100					561	13490.26	71667.70		D
05	28	2130	30	33	-78	11.5	562	13509.50	71677.18		
05	28	2200	30	5.8	-78	9.2	563	13528.59	71686.40		
05	28	2230	30	9.0	-78	7.5	564	13546.17	71694.35		
05	28	2300	30	09.00	-78	04.00	565	13566.35	71703.99		GP
05	28	2330	30	09.30	-78	02.15	566	13582.24	71711.60		GP
05	29	0000	30		-78		567	13602.00	71721.51		GP
05	29	0030	30	13.85	-77	57.00	568	13617.99	71730.13		GP
05	29	0100	30	12.	-77	54.	569	13634.69	71739.54		TS
05	29	0133					570	13652.57	71749.76		
05	29	0200	30	12.	-77	48.	571	13667.95	71758.41	probably not plotted right	TS
05	29	0234					572	13687.19	71769.56		TS
05	29	0300	30	15	-77	42.	573	13701.19	71776.96		TS
		0332					574	13720.10	71787.20		
05	29	0400	30	15.5	-77	37.0	575	13738.75	71796.81		RC
		0430					576	13758.76	71807.47		
05	29	0500	30	18.5	-77	29.0	577	13780.14	71818.14		
05	29	0530					578	13802.08	71829.17		B
05	29	0600	30	21.1	-77	23.0	579	13826.87	71840.01		B
05	29	0630					580	13853.50	71851.68		
05	29	0700	30	24.0	-77	17.0	581	13877.50	71862.77		

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Cruise I.D. 16-15-2 Year 75

Leg No. BB-1 TZ SS-7

W Z

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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	29	0730	30°	27.5'	77°	10'	582	1389951	71874.00		
05	29	0800	30°	27.5'	77°	10'	583	1392257	7188522		
05	29	0833					584	1394559	7189669		
05	29	0900	30°	30'	77°	3.5'	585	1396466	7190540		
05	29	0930	30				586	13987.87	71916.70		GP
05	29	1000	30	31.00	76	52.00	587	14008.58	71925.30		GP
		1030					588				
05	29	1100	30	40.00	76	49.00	589	14058.41	71945.93		
05	29	1130					590	14073.90	71952.48		
05	29	1200	30	38.60	76	38.00	591	14097.40	71962.68		
05	29	1230	30	36.00	76	37.00	592	14114.02	71969.04		
05	29	1300	30	39.00	76	32.00	593	14134.14	71976.36		
05	29	1330					594	14163.42	71984.90		
05	29	1400	30	43.	-76	28.	595	14191.02	71993.40		TS
							596	W SS-7 Y			
05	29	1441					596	14236.45	55580.38		
05	29	1500	30	49.	-76	23.	597	14254.99	55573.20		
05	29	1531					598	14286.72	55560.37		RC
05	29	1600	30	54.0	-76	19.0	599	14315.11	55547.69		
05	29	1630					600	14342.01	55534.30		
05	29	1701	30	58.6	-76	13.0	601	14367.90	55520.17		

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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	29	1730					602	14 390 67	55 50 6 09		
05	29	1800					603	14 409 06	55 49 3 41		
05	29	1800	31	2.5	-76	7.5	603	14 411.00	55 49 2 45		
05	29	1830					604	14 430 26	55 47 5 42		
05	29	1903	31	4.8	-76	0.0	605	14 444 07	55 46 1 40	lt. on - ? prob. OK	
05	29	1930					606	14 457 78	55 44 6 82		
05	29	2000	31	7	75	53	607	14 472 86	55 43 1 00		
05	29	2030					608	14 486 93	55 41 6 83	c/c 0505 - 20252	
05	29	2100	31	10	75	48.00	609	14 502.39	55 40 3.50		
05	29	2135					610	14 5 21.40	55 38 77.10		
05	29	2200	31	12.50	75	44.00	611	14 535.68	55 37 4.34		
05	29	2230					612	14 554.08	55 35 6.20		
05	29	2300	31	16.00	75	39.00	613	14 563.47	55 34 6.77	c/e 045 23202	
05	29	2330	31		75		614	14 579.27	55 30 30.39		
05	30	0000	31	18.10	75	32.50	615	14 597.30	55 31 3.57		
05	30	0030	31	20.00	75	28.00	616	14 612.12	55 29 8.98		
05	30	0100					617	14 631.78	55 27 8.23		
05	30	0130					618	14 642.85	55 26 6.73		TS
05	30	0202					619	14 661.24	55 24 8.73		TS
05	30	0238					620	14 683.23	55 22 7.49		TS
05	30	0308					621	14 699 30	55 21 0 15		

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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	30	0330					622	14711.29	5519607		
05	30	0400	31	31.0	75°	2.5'	623	14727.64	5512939		
05	30	0430					624	14743.10	5515810		
05	30	0500	31	33.	-75	01.	625	14759.30	55139.30		
		0530								lost 14, — signal — 2 Lts on B	
05	30	0645					626	14801.88	55062.85	one lt. on — searching	
05	30	0700	31	39.0	-74	48.5	627	14815.72	55061.65	OK	
		0733					628	14831.15	55037.24		
		0800	31	44	-74	42.5	629	14843.49	55020.16		
		0830					630	14857.50	55000.92		
05	30	0900	31	47	-74	37.5	631	14872.80	54981.91		
05	30	0930					632	14886.90	54965.50		
05	30	1000	31	52.40	-74	30.20	633	14907.40	54941.80		
05	30	1030					634	14919.58	54926.39		
05	30	1100					635	14932.75	54910.51		
05	30	1130	31	55.00	74	25.00	636	14945.70	54894.39		
05	30	1220					637	14967.40	54868.90		
05	30	1300	32	04.00	74	18.00	638	14986.26	54847.10		
05	30	1330					640	15001.70	54828.14		
05	30	1400	32	06.	-74	16.	641	15015.33	54810.08		
05	30	1430					642	15027.90	54792.04		

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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	30	1509					643	15045.19	54766.30		TS
05	30	1530					644	15054.26	54751.16		
05	30	1600	32	14.0	-74	6.0	645	15066.35	54731.76		
05	30	1636					646	15082.99	54702.54		
05	30	1700	32	17.8	-74	2.5	647	15093.00	54693.95		
05	30	1730					648	15104.56	54677.49		
05	30	1800	32	22.0	-73	57.5	649	15114.00	54659.00		
05	30	1830					650	15122.02	54641.00	one lt on	
05	30	1900	32	24.8	-73	54	651	15130.86	54621.55	OK	
05	30	1930	32				652	15140.70	54600.17		
05	30	2000	32	28	-73	48	653	15149.97	54579.32		
05	30	2030					654	15160.59	54554.20		
05	30	2100	32	31	-73	42.5	655	15169.80	54532.01	C/C 055° - 210	
05	30	2130	32		-73		656	15178.43	54508.28		
05	30	2200	32	36.00	-73	38.00	657	15188.60	54480.94	C/C 060° 2211Z	
05	30	2230	32		-73		658	15195.80	54459.20		
05	30	2300	32	35.00	-73	32.00	659	15205.62	54429.66		
05	30	2330					660	15213.17	54402.20		
05	31	0000	32	38.50	-73	25.00	661	15220.69	54382.95		
05	31	0030	32	42.20	-73	21.00	662	15228.17	54357.21		
05	31	0100	32	45.00	-73	19.00	663	15235.10	54330.60		

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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	31	0130					664	15242.58	54302.78		
05	31	0200					665	15249.08	54276.46		
05	31	0228	32	50.2	-73	09.2	666	15255.50	54251.17		
05	31	0300	32	52.4	-73	05.9	667	15262.79	54220.78		
05	31	0330					668	15269.54	54193.50		
05	31	0400	32	55.0	-72	58.5	669	15276.80	54165.00		
05	31	0430					670	15282.82	54139.03	(650) C/C 118° C/S 444	
05	31	0440					671	15281.10	54135.03	changing cs - spd to start	
05	31	0450					672	15278.70	54131.08	IPOD Survey	
05	31	0500	32	56.5	-72	53.85	673	15276.07	54127.01		
05	31	0510					674	15273.34	54123.10		
05	31	0520	32°	55.8'	-72°	52.8'	675	15270.77	54119.37		
05	31	0530					676	15267.90	54115.80		
05	31	0540	32°	55.4'	-72°	50.4'	677	15265.05	54112.31		
05	31	0550					678	15262.40	54109.23		
05	31	0600	32°	54.6'	-72°	49.0'	679	15259.45	54106.38		
05	31	0610					680	15256.42	54103.60		
05	31	0620	32°	53.9'	-72°	47.3'	681	15253.05	54100.74		
05	31	0630					682	15249.61	54098.00	C/C 122°	
05	31	0640	32°	53.1	-72°	46.0'	683	15246.60	54095.36		
		0650					684	15243.50	54092.70		

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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	31	0700	32	52.1	72	44.3	685	1524000	5408937		
05	31	0710					686	15237 32	54087 09	C/C 120°	
05	31	0720	32	51.2	-72	43.1	687	15234 12	54084 24		
05	31	0740	32	50.7	-72	41.8	688	15227.95	54078 72	115	
05	31	0800	32	49.7	-72	40.3	689	15221 60	54073 16		
05	31	0820					690	15215 60	54067 36		
05	31	0840					691	15209 90	54061 93		
05	31	0900					692	15203 39	54055 12		
05	31	0920	32	46.50	-72	34.50	693	15197.31	54049.43		
05	31	0940	32	45.60	-72	33.50	694	15191.59	54043.70		
05	31	1000	32	44.80	-72	32.00	695	15185.81	54038.42		
05	31	1020	32	44.00	-72	30.60	696	15179.90	54032.98	C/E 110° 1030Z	
05	31	1040					697	15174.03	54026.63		
05	31	1100	32	42.30	-72	27.00	698	15166.64	54017.70		
05	31	1130	32	41.60	72	25.20	699	15160.61	54010.36		
05	31	1200	32	40.50	72	22.80	700	15152.63	54000.00	C/E 105° 1220Z	
05	31	1230					701	151	540	LOST LOCK	
05	31	1300	32	39.1	-72	18.7	702	15140.19	53979.82		
05	31	1311					703	15137.39	53974.00		
05	31	1330	32	38.1	-72	15.2	704	15133.39	53966.55		
		1400	32	37.2	-72	13.2	705	15127.42	53956.20		

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Year 1975

Leg No. 2

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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	31	1420	32	36.8	-72	11.4	706	15123.20	53948.80		
05	31	1500	32	35.8	-72	09.1	708	15115.15	53934.59		
05	31	1540	32	34.0	-72	05.3	709	15106.89	53921.56		
05	31	1600	32	34.3	-72	04.0	710	15102.47	53915.72		
05	31	1620	32	33.5	-72	02.6	711	15098.03	53909.79		
05	31	1630	32	33.25	-72	01.75	712	15095.46	53906.80	c/c 113° @ 1443E	
05	31	1640	32	32.90	-72	00.00	713	15093.16	53903.90		
05	31	1650					714	15090.70	53901.19		
05	31	1700	32	32.20	-72	59.50	715	15088.18	53898.20		
05	31	1720	32	31.6	-71	57.5	716	15083.53	53892.30		
05	31	1740	32	30.8	-71	56.5	717	15078.00	53886.00		
05	31	1800	32	30.2	-71	55.0	718	15073.66	53880.84		
05	31	1822	32	29.5	-71	53.2	719	15068.00	53873.75		
05	31	1840	32		-71	5	720	15063.43	53868.77		
05	31	1900	32	28.0	-71	50.4	721	15057.31	53862.53		
05	31	1920					722	15052.13	53857.00		
05	31	1930	32°	27.1	-71°	48.8	723	15046.09	53851.19		
05	31	1940	32°	26.2	-71°	47.2	724	15044.74	53849.99		
05	31	2000	32	25.5	-71	45.6	725	15040.78	53846.15		
05	31	2020	32		-71		726	15035.30	53840.70		
05	31	2040	32°	23.4	-71°	42.5	727	15029.32	53835.32		

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Leg No. 2 TZ 0

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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	31	2047	32°	23.2	-71°	42.0	728	1502764	5383368	end IP-1NW	
		2110					729	15022.16	53840.00		
		2113					730	15023.80	53838.67		
		2120	32°	23.2	-71	42.2	731	15026.24	53835.24		
		2128	32	23.8	-71	42.10	732	15029.24	53830.79	start IP-1NE	
		2140	32	24.3	-71	41.5	733	15033.69	53824.26		
05	31	2203	32	26.1	-71	40.1	734	15042.10	53812.25		
05	31	2220	32	27.70	-71	39.75	735	15048.17	53803.66		
05	31	2240	32	28.95	-71	39.10	736	15055.69	53793.11		
05	31	2300	32	29.90	-71	37.90	737	15062.98	53782.20		
05	31	2320	32	32.00	-71	37.00	738	15071.52	53768.74		
05	31	2340	32	33.40	-71	37.00	739	15077.47	53759.83		
06	01	0000	32	35.10	-71	35.45	740	15086.05	53746.79		
06	01	0020	32	36.90	-71	35.20	741	15092.26	53737.60		
06	01	0040	32	37.60	-71	34.15	742	15098.88	53726.09		
06	01	0100	32	38.85	-71	33.45	743	15105.20	53714.49		
06	01	0120	32	40.0	-71	31.4	744	15111.51	53701.73		
06	01	0130					745	15114.31	53695.97		
06	01	0140	32	41.6	-71	30.0	746	15117.50	53689.59		
06	01	0202	32	42.9	-71	28.9	747	15124.01	53675.90		
06	01	0220	32	44.0	-71	27.9	748	15129.20	53664.36		

LOAN LOG

Cruise I.D. IG15

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TZ 0

(13)

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	01	0240	32	45.3	-71	26.7	749	15135.32	5365236		
06	01	0300	32	46.8	-71	25.3	750	15141.54	5364128		
06	01	0320	32	48.0	-71	25.0	751	15148.20	53630.04		
06	01	0330	32		-71		752	15151.89	53623.92		
06	01	0340		49.70	-71	24.3	753	15155.00	53618.70	c/c 025° 0347z	
06	01	0351					754	15158.99	53612.40		
06	01	0400	32	51.20	-71	23.25	754	15162.00	53607.76		
06	01	0410					755	15164.39	53602.03		
06	01	0421	32	22.0	-71	52.50	756	15167.78	53595.48	c/c 022° 0427z	
06	01	0432					757	15171.56	53588.54		
06	01	0440	32	21.45'	-71	54.70'	757	15174.07	53584.05		
06	01	0450					758	15177.05	53578.48		
06	01	0508	32	55.3'	-71	20.5'	759	15180.52	53572.18		
06	01	0520	32		-71		760	15187.28	53559.49		
06	01	0540	32	57.9	-71	18.7'	761	15192.84	53548.03		
06	01	0600					762	15199.30	53535.03		
06	01	0620	33	1'	-71	16.8'	763	15205.20	53523.27		
06	01	0640					764	15211.2	53510.85		
06	01	0700	33	3.8'	-71	14.3'	765	15217.40	53498.06	0715 c/c 015	
06	01	0721					766	15224.00	53484.57		
06	01	0740					767	15229.30	53474.28		

LOAN LOG

Cruise I.D. 15-2 Year 75
 Leg No. 190D TZ 0

(14)

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	01	0800	33	7.8	-71	12.0	768	15235.21	53462.43		
06	01	0820	33	9.1	-71	11.0	769	15241.23	53450.24		
06	01	0830	33	10.5	-71	10.0	770	15246.99	53438.69		
06	01	0900	33	12.00	71	09.20	771	15253.44	53426.60		
06	01	0920	33	12.80	-71	08.20	772	15258.52	53416.08		
06	01	0950	33	15.3	71	07.20	773	15267.51	53398.60		
06	01	1000	33	16.0	71	06.85	774	15270.97	53392.10	END LINE IPI-NE A/C TO STED	
06	01	1015	33	16.45	-71	05.85	775	15269.96	53385.69		
06	01	1025	33	16.30	-71	06.35	776	15268.99	53389.49		
06	01	1035	33	16.00	-71	06.80	777	15271.45	53391.63	A/C 290°	
06	01	1045	33	16.70	-71	07.90	778	15273.90	53394.00		
06	01	1100	33	17.20	-71	08.70	779	15277.00	53397.13	C/C 280	
06	01	1110	33	17.7	-71	09.6	780	15279.00	53399.90		
06	01	1130	33	18.0	-71	10.8	781	15282.21	53405.85		
06	01	1145	33	18.0	-71	11.8	782	15284.38	53410.74	1150 ± A/C 290°	
06	01	1200	33	18.55	-71	13.30	783	15287.15	53414.89		
06	01	1220	33	19.80	-71	15.20	784	15290.77	53420.07		
06	01	1240	33	20.00	-71	16.00	785	15294.50	53425.26		
06	01	1300	33	20.50	-71	17.40	786	15298.60	53430.50		
06	01	1310					787	15300.46	53432.97		
06	01	1320	33	20.9	-71	18.6	788	15302.35	53435.21		

LOAN LOG

Cruise I.D. IG-15

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(15)

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	01	1342	33	21.3	-71	20.4	789	15306.79	53440.96		
06	01	1400	33	22.0	-71	21.2	790	15310.84	53444.30		
06	01	1420	33	23.0	-71	22.8	791	15315.51	53447.66		
06	01	1440	33	23.7	-71	24.0	792	15320.32	53451.11		
06	01	1500	33	24.2	-71	25.0	793	15325.30	53455.52		
06	01	1510					794	15327.51	53457.55		
06	01	1520	33	24.9	-71	26.3	795	15329.88	53459.99		
06	01	1540	33	25.7	-71	27.9	796	15335.08	53464.86		
06	01	1550					797	15337.15	53466.25		
06	01	1600	33	26.5	-71	29.5	798	15339.88	53469.04		
06	01	1610					799	15342.30	53471.22		
06	01	1620	33	27.0	-71	31.0	800	15345.02	53473.23		
06	01	1630					801	15347.44	53475.49	R/C 289	16292
06	01	1640	33	27.9	-71	32.4	802	15349.86	53477.39		
06	01	1650					803	15352.48	53479.38		
06	01	1700	33	28.75	-71	33.5	804	15355.16	53481.52		
06	01	17					805	153	534		
06	01	1724	33	29.5	-71	35.1	805	15361.26	53486.32	C/C 287	17152
06	01	1740	33	30.2	-71	36.1	806	15365.40	53489.65		
06	01	1804	33	31.0	-71	38.1	807	15371.68	53495.05		
06	01	1820	33	31.5	-71	38.9	808	15375.51	53498.36		

LORAN LOG

Cruise I.D. IG 15 Year 1975

Leg No. 2 TZ 0

(16)

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	01	1840	33	32.2	-71	41.0	809	15 380 47	53 503 02		8
06	01	1900	33		-71		810	15 384 74	53 507 26		
06	01	1920	33	33.5	-71	43.1	811	15 389 31	53 511 40		
06	01	1940	33		-71	45	812	15 393 99	53 516 22		
06	01	2000	33	34.8	-71	45.8	813	15 398 20	53 520 85		
06	01	2020	33		-71		814	15 402 84	53 526 00		
06	01	2040	33	36.1	-71	49	815	15 407 53	53 531 30		
06	01	2100	33	36.60	-71	50.00	816	15 411 99	53 536 31		
06	01	2120	33	37.0	-71	51.7	817	15 416 80	53 542 05		
06	01	2140	33	37.2	-71	53.5	818	15 422 90	53 549 42		
06	01	2200	33	38.0	-71	54.8	819	15 425 45	53 552 44		
06	01	2220	33	38.5	-71	54.5	820	15 429 79	53 558 86		
06	01	2240	33	39.2	-71	55.0	821	15 433 91	53 563 35		
06	01	2300	33	39.8	-71	57.5	822	15 438 90	53 568 10		
06	01	2320	33	41.0	-71	58.2	823	15 444 26	53 572 04		
06	01	2350	33	41.8	-72	00.8	824	15 450 31	53 579 35		
06	02	0000	33	42.0	-72	02.0	825	15 452 81	53 582 00		
06	02	0020					826	15 456 91	53 587 89		
		0040					827	15 460 25	53 592 97		
06	02	0112	33	43.8	-72	06.9	828	15 465 92	53 601 74		
06	02	0125	33	44.1	-72	08.2	829	15 470 56	53 608 35		

LOAN LOG

Cruise I.D. IG 15

Year 1975

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(17)

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	02	0200	33	44.6	-72	09.9	830	15474.97	53615.56		
06	02	0220	33	45.0	-72	11.1	831	15478.56	53621.91		
06	02	0240	33	45.3	-72	13.0	832	15482.25	53628.39		
06	02	0300	33	45.6	-72	14.1	833	15485.88	53634.28		
06	02	0320	33	46.2	-72	15.0	834	15489.54	53640.40		
06	02	0340	33	46.7	-72	16.8	835	15493.37	53646.09		
06	02	0400	33	46.8	-72	18.0	836	15497.26	53652.00		
06	02	0420	33	47.8	-72	19.45	837	15501.45	53657.17		
06	02	0429	33	48.1	-72	19.6	838	03.62	59.80	END IP-4NW	
06	02	0440	33	48.9	-72	18.5	839	15506.59	53646.56		
06	02	0500	33	48.0	-72	17.7	840	15500.90	53644.80		
06	02	0520					841	15494.40	53630.85		
		0530					842	15492.04	53624.32		
		0540					843	15489.48	53616.98		
		0550					844	15486.74	53609.20	C/C 208-	
		0600					845	15484.50	53603.21		
		0610					846	15481.26	53603.00		
		0620	33	45.4	-72	09.2	847	15478.50	53608.20	Begin 3NE@ 0630	
		0640					848	15472.85	53618.09		
		0700	33	43.2	-72	10.5	849	15468.05	53627.23		
		0720					840	15462.66	53678.67		

LOAN LOG

Cruise I.D. 7615 Year 1975

Leg No. 2 TZ 0

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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.
06	02	0740					841	15458 42	53649 10		8
		0800					842	15453 62	53661 29		
		0823					843	15448 50	53673 90		
		0840					844	15445 07	53682 80		
		0900	33	36.0	-72	15.0	845	15440 55	53693 14		
06	02	0920					846	15436.07	53703.85		
06	02	0940					847	15431.55	53713.90		
06	02	1005					848	15425.75	53727.57		
06	02	1030					849	15419.76	53741.57		
06	02	1100	33	29.6	-72	20.1	850	15413.10	53757.65		
06	02	1125					851	15405.75	53775.78		
06	02	1210					852	15394.46	53803.88		
06	02	1230					853	15389.65	53814.80		
06	02	1300					854	15382.30	53831.20		
06	02	1320	33	20.15	-72	26.25	855	15376.30	53844.15		
06	02	1340	33		-72		856	15371.02	53852.25		
06	02	1350					857	15368.50	53862.37		
06	02	1400	33	18.35	-72	28.7	858	15365.67	53869.50		
06	02	1420					859	15360.72	53881.76		
06	02	1430					860	15357.92	53888.40	UC 213° 14452	
06	02	1450	33	15.0	-72	31.0	861	15352.77	53900.00		

LOAN LOG

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(19)

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	02	1500	33	14.5	-72	31.45	862	153246 26	53907 13		
06	02	1510					863	15347 00	53911 49	15132 c/c 208°	
06	02	1520	33	13.2	-72	32.55	864	15343 87	53917 39		
06	02	1530					865	15340 10	53924 03		
06	02	1540	33	11.5	-72	33.3	866	15337 07	53929 26		
06	02	1550					867	15334 17	53934 80		
06	02	1600	33	10.5	-72	34.0	868	15331 01	53940 59	1606 Z c/c 203°	
06	02	1620	33	9.15	-72	34.55	869	15324 20	53951 70		
06	02	1630					870	15320 79	53957 22		
06	02	1640	33	7.70	-72	35.25	871	15317 47	53962 50		
06	02	1700	33	7.50	-72	36.15	872	15310 11	53973 86		
06	02	1720					873	15303 11	53984 95	c/c 205°	
06	02	1740					874	15296 13	53997 27	c/c 207°	
06	02	1800	33	1.8	-72	38.3	875	15290 10	54007 93		
06	02	1820	33		-72		876	15283 90	54020 37		
06	02	1840					877	15277 90	54032 82	c/c 209°	
06	02	1900	32	58.3	-72	41.5	878	15272 29	54044 29	c/c 202°	
06	02	1920					879	15266 11	54055 96		
06	02	1940	32	55.6	-72	43.4	880	15260 25	54067 61		
06	02	2000	32		-72		881	15254 60	54078 86		
06	02	2020	32	53.2	72	46	882	15248 25	54091 21		

LOCAL LOG

Cruise I.D. IG-15 Year 1975

Leg No. 2 TZ 0

(20)

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	2	2040					883	1524203	5410272		
		2045					884	1524025	5410626	end - IP-3NE	
06	2	2100	32	52.1	-72	47.0	885	1524480	5411821	C/C 000°	RE
06	2	2130					886	1526131	5410648		
06	2	2200	32	58.5	-72	47.0	887	1527147	54090.71		
06	2	2230					888	1530335	54072.44		
06	2	2300	33	55	-72	48.0	889	15323.31	5405393		
06	2	2330					890	15342.41	5403528		
06	03	0000	33	14.0	-72	47.2	891	15361.18	54015.20	(change 200 to 205) 0007 C/C 090°	
06	03	0010					892	15365.21	54008.67		
06	03	0020	33	14.3	-72	46.1	893	15364.73	53999.04		
06	03	0031					894	15362.51	53999.00		
06	03	0040	33	13.9	-72	43.2	895	15359.76	53984.39		
06	03	0050					896	15357.30	53980.95		
06	03	0055	33	13.1	-72	42.2	897	15356.08	53979.11	Begin IP-2NW	
06	03	0100					898	15354.89	53976.31		
06	03	0110					899	15352.67	53971.00		
06	03	0122	33	12.8	-72	39.6	891	15350.19	53965.12		
06	03	0155	33	12.0	-72	36.2	892	15343.10	53949.70		
06	03	0200					893	15340.55	53945.70		
06	03	0220	33	11.1	-72	33.9	894	15334.87	53937.32		

LORAN LOG

Cruise I.D. TG 15Year 1975Leg No. 2TZ 0

(21)

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	03	0230					895	153 31.77	539 33.56		
06	03	0240	33	10.3	-72	32.9	896	153 28.68	539 30.38		
06	03	0300	33	10.0	-72	31.0	897	153 24.10	539 22.29		
06	03	0320	33	08.2	-72	29.2	898	153 15.30	539 19.45		
06	03	0330					890	153 11.90	539 17.04		
06	03	0341	33	07.7	-72	27.7	891	153 08.60	539 14.30		
06	03	0400	33	06.6	-72	25.8	892	153 01.30	539 09.33		
06	03	0420	33	05.6	-72	24.3	893	152 54.80	539 04.56		
06	03	0430	33	05.3	-72	23.75	894	152 51.71	539 01.59	C/C 125° 0434Z	
06	03	0440	33	05.1	-72	23.0	895	152 48.49	538 99.45		
06	03	0450	33	04.6	-72	22.2	896	152 45.48	538 96.77		
06	03	0500	33	04.2	-72	21.5	897	152 42.00	538 93.80		
06	03	0520	33	3.2	-72	20.0	898	152 35.30	53 888 41		
06	03	0540	33	2.4	-72	18.0	899	152 29.40	53 882 21		
06	03	0600	33	1.5	-72	16.2	900	152 23.10	53 875 41		
06	03	0620	33	0.5	-72	14.6	901	152 16.70	53 868 44		
06	03	0642	32	59.5	-72	13.0	902	152 10.40	53 861 30		
06	03	0700	32	58.8	-72	11.2	903	152 04.58	53 855 80		
06	03	0720	32	58.0	-72	9.5	904	152 39.68	538 49 96		
06	03	0740	32	57.3	-72	8	905	152 34.67	538 42 64		
06	03	0900					906	152 29.15	538 35 67		

LORAN LOG

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Year 1975

Leg No. 2

TZ 0

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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.
06	03	0820	32	56	-72	4.8'	907	1522357	5382814		
06	03	0840	32	55.5	-72	3.9'	908	1521870	5382142		
06	03	0900	32	53.90	-72	01.00	909	15213.42	53814.22		
06	03	0930	32				910	15205.46	53804.60		
06	03	1000	32	52.50	-71	56.50	911	15196.15	53792.98		
06	03	1030	32	51.80	-71	54.30	912	15190.63	53786.01		
06	03	1100	32	50.80	-71	52.50	913	15183.15	53776.70		
06	03	1130	32	49.45	-71	51.00	914	15174.42	53765.27		
06	03	1200	32	49.15	-71	47.70	915	15166.92	53754.80		
06	03	1230	32	47.80	-71	45.50	916	15160.69	53746.89		
06	03	1300	32	46.40	-71	42.80	917	15152.79	53737.78		
06	03	1320	32	45.7	-71	41.00	918	15148.01	53732.49		
06	03	1340	32	45.1	-71	39.60	919	15143.42	53727.46		
06	03	1400	32	44.1	-71	38.0	920	15138.42	53722.63		
06	03	1420	32	43.5	-71	37.2	921	15134.10	53718.12		
06	03	1440	32	43.0	-71	35.5	922	15129.12	53713.75		
06	03	1500	32	42.75	-71	34.9	923	15127.75	53709.53		
06	03	1520	32	41.3	-71	33.0	924	15120.01	53704.77		
06	03	1540					925	15104.00	53693.00	-slew on fix bad	END IR 2000 @ 1540
06	03	1543	32	40.5	-71	30.6	926	15114.10	53698.05	-slew on fix probably good	
		1548					927	15112.84	53696.58		

LORAN LOG

Cruise I.D. I615

Year 1975

Leg No. 2

TZ 0

(23)

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	03	1604	32	40.0	-71	29.4	928	15109.09	53692.05		
06	03	1620	32	40.9	-71	28.6	929	15113.11	53681.20		
06	03	1640	32	42.1	-71	37.2?	930	15120.20	53669.36		
06	03	1700	32	43.8	-71	36.0?	931	15127.29	53657.10		
06	03	1720	32	45.4	-71	25.1	932	15134.22	53644.16		
06	03	1740	32	46.8	-71	24.0	933	15141.38	53636.80		
06	03	1800	32	48.7	-71	22.9	934	15149.19	53616.12		
06	03	1813	32	49.8	-71	23.5	935	15154.00	53615.50	lt on	
06	03	1820	32	50.0	-71	24.2	936	15156.38	53618.11	OK	
06	03	1825	32	50.2	-71	24.9	937	15157.89	53619.85	launch SB-2 - IP-DIG	
06	03	1841	32	51.0	-71	26.5	938	15163.40	53625.80		
06	03	1845	32	51.2	-71	26.9	939	15164.50	53627.20		
06	03	1920	32	52.8	-71	30.1	940	15175.22	53639.61		
06	03	1940	32	53.4	-71	32.3	941	15181.93	53647.54		
06	03	2000	32	54.3	-71	34.1	942	15188.05	53654.69		
06	03	2020	32°	55.2	-71°	35.9	943	15194.30	53662.17		
06	03	2120	32	57.8	-71	42.2	944	15212.97	53685.16	launch SB-2	
06	03	2140	32		-71		945	15219.52	53693.17		
06	03	2200	32	59.80	-71	46.40	946	15226.59	53700.69	launch SB-3 IP-DIG	
06	03	2220	33	01.10	-71	48.60	947	15234.22	53707.92		
06	03	2300	33		-71		948	15249.07	53721.97		

LORAN LOG

Cruise I.D. TG 15Year 1975Leg No. 2TZ 0
3308

7201

(24)

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	03	2330	33	04.95	-71	56.50	949	15261.30	53732.14		
06	04	0000	33	06.50	-71	58.40	950	15272.89	53742.00		
06	04	0030	33	08.30	-72	04.00	951	15285.50	53754.51		
06	04	0100	33	09.60	-72	05.00	952	15294.45	53764.50	launch SB-4	
06	04	0120	33	10.25	-72	06.80	953	15300.74	53772.08		
06	04	0140	33	10.20 11.0	-72	08.40 09.1	954	15307.66	53780.00		
06	04	0200	33	12.2	-72	11.1	955	15314.09	53786.80		
06	04	0222	33	13.1	-72	13.0	956	15321.56	53795.41	4c 275° 02282	
06	04	0240	33	13.75	-72	14.5	957	15325.94	53802.60		
06	04	0300	33	14.1	-72	16.5	958	15330.94	53812.12		
06	04	0323	33	14.9	-72	18.5	959	15336.41	53821.82		
06	04	0340	33	15.2	-72	20.0	960	15341.10	53829.57		
06	04	0400	33	15.8	-72	22.0	961	15346.21	53838.51		
06	04	0420	33	16.6	-72	23.8	962	15352.02	53845.47		
06	04	0440	33	17.5	-72	25.5	963	15358.01	53852.64		
06	04	0500	33	19.2	-72	26.3	964	15367.49	53849.65	end SB-4	
06	04	0520	33	21.0	-72	26.5	965	15376.80	53842.17		
06	04	0540	33	22.5	-72	26.8	966	15386.50	53837.08		
06	04	0600	33	23.9	-72	27.6	967	15394.91	53834.00		
06	04	0620	33	25.3	-72	28.5	968	15402.11	53833.70		
06	04	0640	33	26.1	-72	29.6	969	15409.22	53834.65		

LORAN LOG

Cruise I.D. IG-15-2 Year 75Leg No. 1000-2 TZ 0

25

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	04	0700	33	27.2	-72	30.4	970	15415 91	53 836 67		
06	04	0720	33	28.5	-72	31.4	971	15422 50	53 839 36		
06	04	0740	33	29.1	-72	33.0	972	15428 74	53 841 98		
06	04	0750	33	29.8	-72	33.9	973	15432 14	53 843 70		
06	04	0800	33	30.3	-72	33.9	974	15435 55	53 842 40		
06	04	0810	33	31.1	-72	33.1	975	15437 83	53 832 60		
06	04	0820	33	31.5	-72	31.7	976	15438 34	53 822 70		
06	04	0830	33	31.0	-72	30.7	977	15434 00	53 818 88	begin 3 NW @ 0837	
06	04	0840	33	30.4	-72	29.4	978	15429 93	53 815 20		
06	04	0850	33	30.0	-72	28.9	979	15426 00	53 811 74		
06	04	0900	33	29.45	-72	27.75	980	15421 27	53 807 50		
06	04	0930	33	28.20	-72	25.00	981	15409.10	53796.23		
06	04	1000	33	25.70	-72	20.50	982	15394.33	53784.29		
06	04	1030	33	24.70	-72	19.30	983	15386.27	53777.70		
06	04	1100	33	23.00	-72	16.90	984	15374.94	53768.51		
06	04	1130	33	23.10	-72	14.00	985	15362.82	53758.90		
06	04	1200	33	19.85	-72	11.00	986	15353.22	53749.82		
06	04	1220	33	19.20	-72	09.00	987	15346.76	53741.70		
06	04	1230	33	18.70	-72	08.10	988	15344.37	53737.74		
06	04	1300	33	17.85	-72	05.1	989	15337 20	53724 50		
06	04	1320	33	17.45	-72	03.5	990	15332 83	53715 30		

LORAN LOG

Cruise I.D. IG-15Year 1975Leg No. 2TZ 0

(28)

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	04	1340	33	16.9	-72	01.75	991	1532860	5370630		
06	04	1350	33	16.75	-72	01.00	992	1532671	5370200		
06	04	1400	33	16.75	-71	59.80	993	1532486	5369750		
06	04	1420	33	16.0	-71	57.90	994	1532001	5368874	c/c 150° 14052	
06	04	1430	33	15.8	-71	27.15	995	1531828	5368470		
06	04	1440	33	15.5	-71	26.45	996	1531622	5368083	c/c 105° 14432	
06	04	1450	33	15.35	-71	25.50	997	1531375	5367734		
06	04	1500	33	15.0	-71	24.50	998	1531114	5367401		
06	04	1520	33	14.45	-71	53.1	999	1530605	5366784		
06	04	1540	33	13.50	-71	51.5	1000	1530057	5366158		
06	04	1600	33	11.90	-71	49.1	1001	1529532	5365589		
06	04	1620	33	11.80	-71	47.6	1002	1528755	5364672		
06	04	1641	33	11.30	-71	46.7	1003	1528506	5364400		
06	04	1700	33	10.8	-71	45.0	1004	1528060	5363865		
06	04	1720	33	10.1	-71	43.5	1005	1527610	5363284		
06	04	1740	33	9.4	-71	42.0	1006	1527120	5362700		
06	04	1802	33	8.4	-71	40.2	1007	1526580	5362070		
06	04	1820	33	8.0	-71	39.0	1008	1526184	5361640		
06	04	1840	33	7.2	-71	37.3	1009	1525685	5361090		
06	04	1900	33	6.8	-71	35.9	1010	1525250	5360550		
06	04	1919	33	6.2	-71	34.3	1011	1524824	5360036		

LORAN LOG

Cruise I.D. T615Year 1975Leg No. 2TZ 0

27

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	04	1944	33	05.5	-72	32.8	1012	15242.11	53594.29		
06	04	2000	33	05.0	-72	31.7	1013	15238.19	53590.83		
06	04	2020	33	03.9	-72	29.8	1014	15233.57	53586.59		
06	04	2040	33	03.2	-72	28.7	1015	15228.24	53581.60		
06	04	2100	33	02.8	-72	27.8	1016	15223.91	53577.15		R2
06	04	2120	33	02.1	-72	25.3	1017	15219.03	53572.23		
06	04	2140	33	01.50	-71	24.5	1018	15214.18	53567.68		
06	04	2200	33	09.00	-71	23.10	1019	15209.19	53562.94		
06	04	2220	33	03.00	-71	21.75	1020	15204.47	53558.10		
06	04	2240	32	59.25	-71	20.40	1021	15199.75	53553.93		
06	04	2300	32	58.25	-71	19.0	1022	15195.00	53549.84		
06	04	2320	32	58.0	-71	18.5	1023	15191.06	53546.04		
06	04	2334	32	57.35	-71	17.20	1024	15187.73	53543.20	END L/AIE 3NW	
06	05	0004	32	56.00	-71	18.10	1025	15181.73	53555.42		
06	05	0034	32	54.80	-71	21.15	1026	15179.23	53579.80	5.8 KTS	
06	05	0106	32	54.00	-71	25.00	1027	15177.05	53602.66		
06	05	0130	32	52.8	-71	28.1	1028	15172.81	53628.70		
06	05	0200	32	51.2	-71	32.0	1029	15167.85	53656.00		
06	05	0230	32	49.5	-71	35.2	1030	15163.05	53683.30		
06	05	0300	32	47.9	-71	38.8	1031	15158.08	53711.34		
06	05	0330	32	46.6	-71	42.5	1032	15153.78	53737.50		

LORAN LOG

Cruise I.D. IG 15 Year 1975

Leg No. 2 TZ 0

28

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	05	0400	32	45.1	-71	46.65	1033	15149 00	53765 57		
06	05	0430	32	43.8	-71	50.0	1034	15144 82	53792 35		
06	05	0500	32	42.3	-71	53.9	1035	15140 24	53820 58		
06	05	0530	32	41.2	-71	57.2	1036	15136 22	53846 20		
06	05	0600	32	40.2	-72	1.0	1037	15132 40	53872 99		
06	05	0630	32	38.7	-72	3.8	1038	15127 65	53898 56		
06	05	0700	32	37.0	-72	7.3	1039	15119 80	53926 20		
06	05	0725	32	35.4	-72	10.5	1040	15112 70	53949 13		
06	05	0740	32	34.6	-72	11.9	1041	15109 09	53960 50		
06	05	0750	32	35.1	-72	12.2	1042	15112 82	53965 41		
06	05	0800	32	35.8	-72	14.1	1043	15117 37	53969 27		
06	05	0810	32	36.5	-72		1044	15122 60	53964 33		
06	05	0820	32		-72		1045	15125 50	53959 86		
06	05	0825	32		-72		1046	15127 63	53956 22	- Sonobuoy ^{SB-5} - begin - launch -	
06	05	0840	32		-72		1047	15132 70	53948 61		
06	05	0900	32		-72		1048	15139 48	53938 29		
06	05	0920	32	11.20	-72	11.30	1049	15146.01	53927.70		
06	05	0940	32	43.80	-72	10.40	1050	15153.48	53915.09		
06	05	1000	32	43.60	-72	09.50	1051	15159.14	53905.20		
06	05	1020	32	45.10	-72	08.10	1052	15164.98	53894.59		
06	05	1040	32	46.50	-72	06.90	1053	15171.49	53882.88		

LORAN LOG

Cruise I.D. IG 15 Year 1975Leg No. 2 TZ 0

(29)

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	05	1100	32	48.20	-72	06.50	1054	15178.06	53872.38		
06	05	1120	32	48.55	-72	05.40	1055	15183.32	53864.10		
06	05	1140	32	49.95	-72	04.75	1056	15189.67	53853.91		
06	05	1200	32	51.15	-72	04.00	1057	15195.94	53843.97	SB-6 launch	
06	05	1220	32	52.30	-72	03.00	1058	15202.10	53833.90		
06	05	1240	32	53.70	-72	02.30	1059	15208.79	53822.37		
06	05	1303	32	55.3	-72	01.8	1060	15214.55	53812.47		
06	05	1320	32	56.1	-72	01.0	1061	15219.50	53804.04		
06	05	1340	32	57.2	-72	00.0	1062	15225.17	53794.10		
06	05	1400	32	58.4	-71	59.0	1063	15231.24	53783.87		TS
06	05	1420	33	00.00	-71	58.75	1064	15237.40	53772.81		
06	05	1440	33	01.00	-71	57.85	1065	15243.18	53763.97		
06	05	1500	33	02.30	-71	57.35	1066	15249.14	53753.90		
06	05	1520	33	03.2	-71	56.6	1067	15254.68	53744.18	SB-7 launch	
06	05	1540	33	04.8	-71	56.0	1068	15260.22	53733.85		
06	05	1600	33	05.6	-71	55.5	1069	15265.57	53723.89		
06	05	1620	33	07.0	-71	54.1	1070	15270.79	53713.25		
06	05	1640	33	08.1	-71	53.9	1071	15275.97	53703.06		
06	05	1700	33	09.3	-71	52.9	1072	15280.77	53692.94		
06	05	1720	33	10.4	-71	52.1	1073	15285.70	53682.97		
06	05	1740	33	12.6	-71	51.2	1074	15291.56	53676.44		

LORAN LOG

Cruise I.D. 16-15 Year 75

Leg No. 2 TZ 0

30

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	05	1800	33	12.9'	-71	50.5	1075	15 297 25	53 658 96		
06	05	1820	33	14.2'	-71	49.8	1076	15 303 13	53 647 49		
06	05	1840	33	15.2	-71	48.9	1077	15 309 89	53 634 20		
06	05	1900	33	17.2	-71	48.1	1078	15 315 73	53 622 09		
06	05	1920	33	19.0	-71	46.8	1079	15 322 39	53 608 40		
06	05	1930	33	19.8'	-71	46.1	1080	15 325 83	53 601 02	SONOBUOY 8 - LAUNCH	
06	05	1940	33	20.5'	-71	45.6	1081	15 328 92	53 594 30		
06	05	2000	33	21.8	-71	44.8	1082	15 335 06	53 581 35		
06	05	2020	33	23.6	-71	43.7	1083	15 342 20	53 566 50		
06	05	2043	33	24.7	-71	42.6	1084	15 348 86	53 552 00		
06	05	2100	33	26.4	-71	41.9	1085	15 354 08	53 540 84		
06	05	2120	33	28.55	-71	40.80	1086	15 361.17	53 523.90		
06	05	2140	33	29.85	-71	39.80	1087	15 366.22	53 511.90		
06	05	2200	33	31.40	-71	38.45	1088	15 372.89	53 495.77	ENS 2-IVE	
06	05	2220					1089	153	534		
06	05	2240	33	35.30	-71	34.40	1090	15 387.68	53 457.41		
06	05	2300	33		-71		1091	15 390.60	53 433.34		
06	05	2330					1092	15 393.23	53 403.19		
06	06	0000					1093	15 396.06	53 370.36		
06	06	0030					1094	15 398.68	53 339.94		
06	06	0100					1095	15 401.43	53 309.09		

LORAN LOG

Cruise I.D. IG 15

Year 1975

Leg No. 2

TZ 0

(31)

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	06	0130					1096	15 404.68	53280.00		
06	06	0200	33	46.0	-71	10.0	1097	15407.42	53251.92		
06	06	0230					1098	15410.00	53224.45		
06	06	0300	33	48.8	-71	01.0	1099	15412.00	53192.00		
06	06	0330	33		-70		1100	15413.80	53170.95		
06	06	0402	33	50.0	-70	56.0	1101	15415.87	53142.50		
		0431					1102	15418.41	53117.40		
06	06	0500	33	53.9	-70	50.0	1103	15420.54	53050.99		
		0537					1104	15422.42	53060.60		
06	06	0600	33	57.0	-70	44.0	1105	15424.30	53043.09		
06	06	0630					1106	15426.94	53019.03		
06	06	0700	33	58	-70	37'	1107	15429.43	52995.40		
06	06	0730	33		-70		1108	15431.98	52973.62		
06	06	0800	34	0.6	-70	32	1109	15433.71	52955.00		
06	06	0830					1110	15436.83	52934.97		
06	06	0900					1111	15440.66	52912.63		
06	06	0930					1112	15443.90	52895.90		
06	06	1000					1113	15448.02	52876.30		
06	06	1030					1114	15453.24	52854.37		
06	06	1100					1115	15457.95	52836.91		
06	06	1130					1116	15464.52	52813.30		

LORAN LOG

Cruise I.D. 76-15Year 1975Leg No. 2TZ 0

(32)

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	06	1200					1117	154 69.11	527 95.86		
06	06	1230					1118	154 74.76	527 74.70		
06	06	1300	34°	18	-70	15.0	1119	154 80.25	527 55.80		
06	06	1330	34	20	-70°	12.5	1120	154 86 26	527 33.39		
06	06	1400	34°	22.0	-70°	10.0	1121	154 92 64	527 10 61		
06	06	1430	34°	24.5	-70°	8.5	1122	154 98 61	526 87 90		
06	06	1500	34	26.2	-70	7.0	1123	155 03.78	526 65.55		
06	06	1530	34°	28.1	-70°	5.0	1124	155 07 58	526 40 47		
06	06	1600	34	30.0	-70°	3.5	1125	155 12 01	526 16 00		
06	06	1630	34°		-70°		1126	155 15 60	525 92 60		
06	06	1700	34°	33.9	-69	52.5	1127	155 18 52	525 67 80		
06	06	1730					1128	155 20 67	525 44 80		
06	06	1800	34	37.0	-69	51	1129	155 23 31	525 17 77		
06	06	1830					1130	155 25 78	524 92 65		
06	06	1900	34	40.1	-69	45.0	1131	155 28 20	524 65 37		
06	06	1930					1132	155 29 90	524 42 26		
06	06	2000	34	42.3	-69	38	1133	155 30 97	524 17 45		
06	06	2030					1134	155 31 74	523 92 18		
06	06	2100	34	45.9	-69	31	1135	155 32 31	523 68 00	2102Z Landed SONOBuoy	
06	06	2130					1136	155 32.72	523 42.90		
06	06	2200					1137	155 33.20	523 18 17		

LORAN LOG

Cruise I.D. IG 15

Year 1975

Leg No. 2

TZ 0

33

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	06	2230					1138	152 33.21	522 91.98		
06	06	2310					1139	155 33.23	522 62.44		
06	06	2330	34	51.3	-69	74	1140	155 32.99	522 44.39		
06	07	0007					1141	155 33.05	522 15.28		
06	07	0030					1142	155 32.75	52 196.63		
06	07	0034	34	53.1	-69	06.	1143	155 32.63	52 194.74	end OS -105 DFS line	
06	07	0122					1144				
06	07	0300	34	54.5	-68	57.	1145	155 27.70	52 151.02	0250 - 4/c 120° c/s 7645	
06	07	0330					1146	155 15.20	52 148.82		
06	07	0400					1147	155 04.70	52 146.33		
06	07	0431					1148	154 52.31	52 143.70		
06	07	0500					1149	154 81.62	52 141.65		
06	07	0534					1150	15 468.60	52 138.69		
		0600					1			lost signal -	
							1151				
		0735					1151	15 423.04	52 129.85		
		0800					1152	15 415.10	52 128.66		
06	07	0830					1153	15 404.51	52 125.80		
06	07	0900					1154	153 94.41	52 120.79		
06	07	1040					1155	153 64.41	52 101.43	1045 - 1057 George Smt	
06	07	1105					1156	153 56.75	52 097.10	ST2 52 097.10 ST1 153 56.75	

LORAN LOG

Year 1975

TZ 0

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[illegible]