

LORAN LOG

Cruise I.D. IG19

Year 1976

Leg No. 4

TZ +5

Lv. Panama City Fla

Begin IG19-4

24

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	30									on 253°	
		1456								at stage c/c 248° (253)	
		1500								1 mile from stage 1	
		1508								2 miles from stage 1	
		1514								stop 3 miles from stage 1 STN 48	
		1617								5 mile from stage 1	C49
		1620								c/c 241	
		1628								6 miles from stage 1	S49 C50
		1630	29	58.0	-86	0.5				DR radar count S49 C50A	
		1742						3686	3530	stop 9 miles from stage 1	
										from radar S50 C51	
		1800						3687	3532	LA ON STN 50, C51	
										10 miles from stage 1	
		1812								c/c 260	
		1818								11 miles from stage 1	
		1827							3497	12 miles from stage RD	
		1830						3681	3500	LA	
		1834						3682	3500	LA	
								(3680)	(3462)	LA at STN	
		1900						3678	3476		
								3676	3455		

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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	30	1920						3677	3449	LA	
		1925						(3680)	(3462)		
		1931						3678	3453	LA	
		1949						3681	3460	LA	
		2000						3680	3464	LA	
		2020						3681	3465	LA core hit	
		2027						(3676)	(3427)	(553) 2033	
		2041						3679	3449	LA	
		2059						3677	3440	LA	
		2109						3675	3428	LA core hit 553 C54	
		2119						(3671)	(3392)		
		2139						3672	3417		
		2149						3671	3402		
		2200						3671	3394	core hit C55 STN 54	
		2300						(3665)	(3360)		
		2330						3668	3381		
		0000						3666	3366		
								3666	3359	C56 hit	
								3667	3401		
								3662	3387		
07	01	0000						3658	3397		

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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.
07	01	0030						3656	3426	LA	
		0100						3647	3453		
		0130						3643	3476		
		0200						3637	3502		
		0230						3627	3527		
		0300						3617	3551		
		0330						3605	3568		
		0400						3593	3590		
		0430						3579	3610		
		0500						3560	3627	A	
		0500						12717.41	69 415.00	e	
		0530		3H0	3H1			3595	3595	A	
		0530	0540	3544	3589			12704.20	69410.22	e	
		0600						3554	3576	A	
		0600						12713.91	69394.83	e	
		0630						3568	3558	A	
		0630						12731.08	69374.89	e	
		0700						3580	3539	A	
		0700						12743.69	69359.80	e	
		0730						3591	3519	A	
		0730						12759.04	69342.06	e	

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TZ 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.
07	01	0800						3601	3499	A	
		0800						12773.62	69325.00	C	
		0830						3610	3480	A	
		0830						12789.06	69338.00	C	
		0900						3617	3463	A	
		0900						12804.49	69290.89	C	c/e 325
		0930								A	
		0930						12820.62	69285.16	C	
		1000						3632	3426	A	
		1000						12835.85	69269.45	C	
		1030								A	
		1030						12850.94	69253.34	C	
		1100						3646	3387	A	
		1100						12866.24	69236.90	C	
		1130								A	
		1130						12881.92	69220.10	C	
		1200						3656	3348	A	
								(3660)	(3328)	556 C59	①
		1300						3657	3318		
								3659	3324		

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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.
07	01	1311						3659	3328	core hit LA S56	
								(3654)	(3290)	S57 C58 1347z	(2)
		1335						3655	3313		
		1359						3654	3290	core hit S57 C58	
								(3649)	(3255)	S58 C59 1433z	(3)
		1439						3649	3255	core hit S58 C59	
		1500						3648	3236	1447 underway	
								(3643)	(3222)	S59 C60	(4)
		1519						3644	3222	core hit S59 C60	
								(3637.5)	(3184)	S60 C61	(5)
		1601						3636	3183	core hit S60 C61	
		1621						3633	3165		
								(3632)	(3150)	S61 C62	(6)
		1646						3630	3150		
		1716						3628	3137		
								(3626)	(3116)	S62 C63	(7)
		1731						3626	3123		
		1738								passed coring station	
		1800						3624	3107		
								3623	3116		

3622
3624

3111
3113

3625 3114

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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.
07	01	1852						3625	3116	one hit S62 C63	
		1918						3621	3100		
								3621	3192		
								(3620)	(3078)	S63 C64	(8)
		1942						3620	3077	S63 C64 one hit	
		2000						3619	3076		
								(3614)	(3040)	S64 C65	
		2015						3616	3051		
		2046						3614	3040	one hit C65 S64	(9)
		2115						3610	3017		
								(3609)	(3002)	S65 C66	(10)
		2132						3609	3002	LA	
		2200						3609	2988	LA	
		2228						3604	2961	LA	
		2245						3603	2947	LA	
		2300						3607	2934	LA	
		2330						3607	2911	LA	
07	02	0000						3616	2905	LA	
		0100						3627	2872	LA	
		0130						3633	2852	LA	
		0200						3631	2858	LA e/e 140° 0210°	

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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.
07	02	0230						3627	2880	A	
		0230						12940.08	68962.40	e	
		0300						3625	2908	A	
		0300						12924.58	68985.30	e	
		0330						3620	2938	A	
		0330						12911.88	69003.63	e	
		0400						3615	2962	A	
		0400						12896.00	69022.61	e	
		0430						3608	2982	A	
		0430						12880.12	69041.59	e	
		0500						3604	3007	A	
		0500						12863.78	69061.13	e	
		0530						3599	3033	A	
		0530						12850.03	69080.21	e	
		0600						3594	3061	A	
		0600						12836.77	69099.60	e	
		0630						3588	3087	A	
		0630						12823.49	69118.70	e	
		0700						3582	3116	A	
		0700						12808.11	69140.70	e	

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[illegible]

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Leg No. 4

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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.
JULY	03	0200						3482	2955	LA	
		0200						12712.13	69119.60	Le	
		0230						3475	2986	A	
		0230						12687.78	69159.12	e	
		0300						3464	3006	A	
		0300						12674.52	69175.64	e	
		0330						3452	3025	A	
		0330						12657.80	69193.93	e	
		0400						3436	3040	A	
		0400						12645.22	69208.31	e	
		0430						3423	3056	A	
		0430						12627.86	69226.90	e	
		0500						3411	3072	A	
		0500						12616.02	69239.21	e	
		0530						3422	3098	A	
		0530						12624.09	69244.60	e	
		0600						3440	3128	A	
		0600						12638.96	69247.31	e	
		0630						3458	3157	A	
		0630						12654.45	69250.10	e	

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 Leg No. #4 TZ +5

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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.
JULY	03	0700						3474	3190	A	
JULY	03	0700						12669.13	69254.81	C	
		0730						3492	3228	A	
		0730						12684.56	69260.78	C	
		0800						3510	3261	A	
		0800						12698.65	69265.69	C	
		0830						3526	3300	A	
		0830						12712.03	69274.70	C	
		0900.						3536	3334	A	
		0900						12723.42	69285.09	C	
		0930								A	
		0930						12734.04	69295.30	C	
		1000						3568	3423	A	
		1000						12743.90	69304.81	C	
		1030								A	
		1030						12755.70	69316.50	C	
		1100						3591	3443	A	
		1100						12769.69	69300.93	C	
		1130						12785.87	69283.27	C	
		1158						3607	3400		
		1230						3621	3393		

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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.
								3630	3392 ✓		
								✓ 3587	3282 ✓		
								✓ 3544	3170 ✓		
07	03	1317						3625	3379	LA core hit STN 72 C 73	
		1400						3612	3350	LA	
		1502						3587	3282	LA core hit STN 73 C 74	
		1638						3543	3170	core hit STN 74 C 75	
		1730						12746	69189	LC	
		1800						3529	3096	LA	
		1830						3522	3046	LA	
		1900						3517	2999	LA	
		1930						3511	2951	LA	
		1955						3508	2915	LA	
		2000						3506	2903	LA	
		2030						3491	2900	LA	
		2102						3488	2893	LA core hit STN 75 C 76	
		2123						3485	2892	LA core hit STN 76 C 77	
07	04	0050						12754	69100	LC	
		2200						3484	2890		
		2300						3494	2902		

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LORAN LOG

Cruise I.D. 19-11Year 76Leg No. FG 154TZ +5

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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.
July	4	0100						3526	2948		
July	4	0130						12791.47	69098.78	LC	
"	"	0200						1278445	6910190	LC	
July	4	0249						1280743	6910140	LC	
		0300						12810.12	69094.87	C	
		0300						3570	3007	A	
		0330						12804.18	6908490	C	
		0330						3564	2973	A	
		0400						12799x	69075x	C	
		0400						3556	2949	A	
		0430						12790.3	69068.3	C	
		0430						3551x	2922x	A	
		0500						12782	69063	C	
		0500						3541	2891	A	
		0530						3532	2861	A	
		0533						12773	69055	C	
		0600						12765	60950	C	
		0600						3524	2834	A	
		0630						12757	60944	C	
		0630						3516	2808	A	
		0700						12749	60938	C	
		0700						3508	2782	A	

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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.
07	04	0730						12743	69031	LC	
		0736						3501	2751	LA	
		0800						12737	69022	LC	
		0800						3493	2720	LA	
		0830						12733	69012	LC	
		0830						3486	2688	LA	
		0900						12729	69000	LC	
		0900						3479	2657	LA	
		0930						12724.0	6898	LC	
		0930						3475	2617	LA	
		1000						12721.2	68978.8	LC	
		1000						3469	2591	LA	
		1030						3465	2556	LA	c/c 145
		1030						12717.2	68969.3	LC	c/c 145
		1100						12705.0	68985.2	LC	
		1100						3456	2573	LA	
		1133						12690.5	69006.7	LC	
		1130						3448	2600	LA	
		1200						12679.1	69023.5	LC	
		1200						3439	2633	LA	
		1230						3431	2650	LA	

1230

12664.8 69040.3 LC

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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.
July	4	1300						12649.1	69057.18	LC	
		1300						3414	2668	LA	
		1330						12635	69094	C	
		1330						3404	2686	A	
		1400						12620	69090	C	
		1400						3390	2707	A	
		1430						12604	69107	C	
		1430						3378	2724	A	
		1500						12588.50	69120.45	C	
		1500						3362	2733	A	
		1530						12574	69133	C	
		1530						3349	2742	A	
		1600						12560	69143	C	
		1600						3335	2744	A	
		1630						12546	69152	C	
		1630						3320	2746	A	
		1700						12533	69162	C	
		1700						3306	2747	A	
		1730						12519	69171	C	
		1730						3292	2748	A	
		1800						12505	69180	C	
		1800						3277	2749		

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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.
July	04	1830						3262	2750	LA (LC out)	
		1900						12478	69207	LC	
		1900						3247	2751	LA	
		1933						3231	2749	LA	
		2000						12452	69223	LC	
		2000						3217	2747	LA	
		2030						3199	2742	LA	
		2100						12422	69240	LC	
		2100						3181	2739		
		2132						12406.0	69248.6	LC -? fix Lt. ON	
		2130						—	—	LA	
		2203						12402	69266	LC -? fix Lt. ON	
		2200						3145	2731	LA	
		2230								A	
		2230						12378.3	69263.3	C	
		2300						12363.4	69271.5	C -? change -10MS	
		2300						3112	2728	A	
		2330						12348.2	69262.2	C	
		2330						3091	2722	A	
July	5	0000						12333.36	69277.4	C ? skipped back 10MS Lt. ON - change -10MS changed 8 to (7) - OK	
		0000						3074	2719	A	

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12323 69283 C

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Leg No. 1619-4

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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.
July	5	0100						12312	69290	C	
		0100						3045	2715	A	
		0130						12297	69298	C	
		0130						3028	2711	A	
		0200						12289.0	69294.8	C	
		0200						3018	2693	A	
		0230						12287.27	69283.40	C	
		0230						3016	2665	A	
		0300						12286	69272	C	
		0300						3016	2637	A	
		0333						12284	69258	C	
		0330						3015	2606	A	
		0400						12284	69247	C	
		0400						3015	2573	A	
		0430						12283	69234	C	
		0430						3015	2545	A	
		0500						12285	69220	C	
		0500						3020	2511	A	
		0530						12286	69206	C	
		0530						3022	2480	A	

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July	05	0600						12287	69192	LC	
		0600						3024	2448	LA	
		0630						3026	2419	LA	
		0632						12288	69177	LC	
		0700						3029	2388	LA	
		0705						12290	69172	LC	
		0730						12292	69162	LC	
		0730						3031	2361	LA	
		0800						12292	69140	LC	
		0800						3033	2334	LA	
		0830						12294	69138	LC	
		0830								LA	
		0900						12294	69116		
		0900						3035	2282		
		0930									
		0930						12294.5	69105.0		
		1000						12294.5	69094.6	C	
		1000						3037	2235	A	
		1030						12295.1	69083.4	C	
		1100						12296.2	69072.3	C	
		1100						3037	2186	A	

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12297 69062 C

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Cruise I.D. _____

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Leg No. 1619-4

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LINE E

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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.
July	5	1200						12299	69051.	C	
		1200						3039	2138	A	
		1230						12299.66	69040.71	C	
		1300						12301	69031	C	
		1300						3043	2093	A 1185	
		1400						12302	69010	C	
		1400						3045	2048	A 1200	
		1500						12304	68989	C	
		1500						3046	2006	A 1214	
		1530						12304	68979	C	
		1600						12304	68969	C	
		1600						3045	1965	A 1233	
		1700						12302	68951	C	
		1700						3044	1921	A 1254	
		1800						12299	68932	C	
		1800						3041	1881	A 1277	
		1900						12298	68912		
		1900						3040	1841	1301	
		2000						12299	68891		
		2000						3041	1802	1325	
		2100						12300	68871		

2100

1766

1347

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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.
July	5	2200						1730	1374	A	
		2202						12301.4	68850.5	C	
		2300						12302	68832	C	
		2310						1693	1405	A	
		2330						12302.34	68921.80	C	
July	6	0000						12303	68814	C	
		0000						11667	1431	A	
		0102						12303	68795	A	
		0100						1639	1458	C	
		0200						12309	68774	C	
		0200						1608	1489	A 3045	3122
		0300						12310	68752	C	
		0300						1537	1518	A 3047	3114
		0400						12311	68732	C	
		0400						1546	1557	A 3045?	3108 NG
		0500						12312	68713	C	
		0500						1576	1546	A 3046	3089
		0530						12312	68702	C	
		0545						12313	68698	C	
		0600						12313	68692	C	
		0600						91492	1638	A 3141	3127

LORAN LOG

Cruise I.D. I619-4Year 1976

Leg No. _____

TZ +531.4
682 26

31

SS7

Pr 45

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
07	06	0630						12314	68681	C	
		0645						12315	68678	C + skew on/off	
		0650						12315	68674	C	
		0700						12316	68671	C 0710 17 720 18 730 19	
		0700						² 1678	³ 3162(7)	A	
		0712						12317	68666		
		0725						12318	68660		
		0800						12321	68647	C	
		0800						⁰ 3150	¹ 1441	² 1720 ³ 3061 A	
		0900						12324	⁽²⁶⁾ 68636	C -? off 10 ms	
		0900						¹	² 1760	³ 3046 A	
		0930						12325.5	68615	c/c 340	
		1000						12334426	68603.73		
		1000						1784	3052	-?	
		1103						12354	68581	C	
		1100						1791	3067		
		1200						12372.98	68558.70	C	
		1200						1797	3085	A	
		1230						12383.00	68542.40	C	
		1300						12393	68537	C	
		1300						1798	3108	A	

LORAN LOG

Cruise I.D. I.G. 19-4

Year 1976

Leg No. Line F

TZ +5

3H0

3H2

3H3

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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.
07	06	1330						9399	68527	lost signal	
		1400								c lost signal	
		1400						3131	3129	A ? signal	
		1500						12426	68494	c	
		1500						3149	1792	A 3153	
		1600						12450	68471	c	
		1600						3168	1790	A 3181	
		1700						12473	68448	c	
		1800						12494	68425	c	
		1800								A no fix	
		1900								LC out	
		1900								LA out	
		1923						3226?	1786	3262	
		2018							1784	LA	
		2045							1786	3295	
		2100						1787	3301	A	
		2200						1789	3324	A	
		2241						12609	68318	c PND MULTICHANNEL -	
		2242						1792	3339	A c/c 270°	
		2304						126094	68609.5	c	
		2300						1807	3338	A	

Cruise I.D. IG 19-4 Year 76
Leg No. TZ +5

Year 76

TZ 45

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[illegible]