

LORAN LOG

Cruise I.D. IG 19-2Year 1926

Loran A

p. 1

Leg No. _____

TZ +5

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	340 ST. #1	341 ST. #2	COMMENTS	WATCH I.D.
06	16	0200					1	3523	2360		
		0230					2	3526	2400		
		0300					3	3528	2441		
		0330					4	3532	2485		
		0400					5	3538	2526		
		0430					6	3546	2563		
		0500					7	3550	2600		
		0530					8	3559	2640		
		0600					9	3562	2680		
		0630					10	3565	2723		
		0700					11	3572	2761		
		0730					12	3574	2798		
		0800					13	3580	2830		
		0830					14	3585	2856		
		0900					15	3591	2884		
		0930					16	3594	2913	c/c c/s	
		1000					17	3600	2942		
		1030					18	3607	2975		
		1100					19	3616	3007		
		1130					20	3620	3040		
		1200						343 (33402)	3076		

LORAN LOG

Cruise I.D. IG 19-2 Year 1976

Loran A

Leg No. TZ

P. 2

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	340 ST. #1	341 ST. #2	COMMENTS	WATCH I.D.
06	16	1230					21	3631	3109		
06	16	1300					22	3635	3140		
06	16	1330					23	3640	3174		
06	16	1400					24	3643	3207		
06	16	1430					25	3648	3240		
06	16	1500					26	3653	3272		
06	16	1530					27	3658	3307		
06	16	1600					28	3664	3337		
06	16	1630					29	3670	3370		
06	16	1700					30	3673	3405		
06	16	1730					31	3679	3440		
06	16	1800					32	—	3474		
06	16	1815								Platform dead ahead 080° @ 11.8 n.m.	
06	16	1830								" " " " 10.0 n.m.	
		1900								" " " " 7.0 n.m.	
		1943								Platform 3 n.m. @ 1° STBD / hdg 086°	
		1951								Platform 2 n.m. 10° STBD / hdg 086°	
		2001								" " 10° " " / hdg 089	
		2001								START SLOW TURN TO STBD	
		2001								TO COURSE 225°	
		2007								Platform 1/2 n.m. 90° PORT. hdg 160°	

—

LORAN LOG

Cruise I.D. I619

Year 1976

Leg No. 2

TZ +5

P3

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	340 ST. #1	341 ST. #2	COMMENTS	WATCH I.D.
06	16	2018								On Course 225°	
06	16	2020								Platform 2 n.m. @ 180°/hdg 225°	
		2034								To stage 1	
		2045								3.0 mi 045 Radar	
		21 05								4.0 mi 045 Radar	
		2143								6.0 mi 045 Radar	
		2200								10.0 045 Radar	
		2230					33	3680	3542		
		2300					34	3672	3517		
		2330					35	3665	3491		
		0000					36	3655	3464		
06	17	0000					37	3649	3435		
		0030					38	3641	3411		
		0100					39	3632	3382		
		0130					40	3625	3359		
		0200					41	3615	3336		
		0230					42	3606	3314		
		0300					43	3595	3295		
		0330					44	3585	3276		
		0400					45	3573	3248		
		0430					46	3563	3228		
		0500					47	3553	3205		

LOKAN LOG

Cruise I.D. IG19-2

Year 1976

Leg No. 2

TZ 45

LORANC

5-7

PL

[illegible]

LORAN LOG

Cruise I.D. _____ Year _____

Leg No. _____ TZ _____

W
340

Z
341

P5

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	17	1300						3391	2773		
06	17	1330						3380	2744		
06	17	1400						3370	2723		
06	17	1430						3357	2707		
06	17	1500						3348	2730		
06	17	1512						3349	2744		
06	17	1540						3358	2775		
06	17	1600						3366	2797		
06	17	1630						3379	2830		
06	17	1700						12608.69	69167.50	Loran C n.g.	
06	17	1700						3392	2859	LA	
06	17	1730						3403	2886	LA	
06	17	1800						3418	2914	LA	
06	17	1812						12636.3	69166.9	Loran C Had to add 10 min to Z from here on	
06	17	1824						12641.0	69168.7	LC	
06	17	1830						3430	2943	LA	
		1849						12649.90	69172.65	LC	
		1900						3441	2971	LA	
		1915						12654.25	69178.83	LC	
		1930						3453	3000	LA	
		1945						12669.58	69180.96	LC	

LORAN LOG

Cruise I.D. I619Year 1976Leg No. 2TZ +5

P6

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	340 ST. #1	341 ST. #2	COMMENTS	WATCH I.D.
06	17	2000						3465	3022	LA	
		2018						12680.63	69185.04	LC	
		2030						3477	3052	LA	
		2100						3485	3071	LA	
		2106						12694.18	69205.90	LC	
		2115						12696.28	69208.38	LC	
		2130						12700.02	69212.42	LC	
		2136						3495	3109	LA	
		2200						3507	3139	LA	
		2215						12711.63	69223.80	LC	
		2230						3513	3168	LA	
		2300						3524	3197	LA c/c 060°	
		2323						12729.99	69241.65	LC	
		2330						3537	3232	LA	
06	18	0000						3548	3261	LA	
		0015						12748.62	69252.80	LC	
		0030						3560	3288	LA 0035 c/c 045°	
		0045						12762.43	69257.20	LC	
06	18	0100						3574	3317	LA	
		0117						12774.90	69261.25	LC	
		0130						3587	3345	LA	

0137

12782.62 69264.51 LC

LORAN LOG

Cruise I.D. _____ Year _____

Leg No. _____ TZ _____

P7

340

341

[illegible]

LORAN LOG

Cruise I.D. IC19

Year 1976

Leg No. 2

TZ +5

260
150
40
100

313 360

8 150

340

341

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	18	0530						12868.95	69308.00	LC	
06	18	0530						3669	3566	LA	
06	18	0602						12883.2	69312.4	LC	
06	18	0600						3677	3586	LA	
		0630						12892.10		LC	
		0630							3606	LA	
		0632						9 1/2 mi	020	R	
		0645						8 mi	005	R	
		0700						7.1 mi	352	R	
		0715						6.0	343	R	
		0730						5.0	360	R	
		0732						4.95	369	R	
		0740						4.5	015	R	
		0800						5.1	161 529 090 030	R	
		0825						7 mi	050	R	
		0832						3687?	3593	LA	
		0850						9 mi	060	R	
		0900						3680	3542	LA	
		0930						3678	3517	LA	
		1000						3671	3491	LA	
		1017						3669	3472		

LORAN LOG

Cruise I.D. 1619Year 1976Leg No. 2TZ +5

9

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
6	18	1030						3668	3456	LA current is from	TS
		1100						3661	3428	~ 080° @ 2k	
		1130						3655	3397		
		1200						3647	3372		
		1230						3638	3341	LA	
		1310						3627	3321	LA	
		1321						3623	3297	LA	
		1330						3621	3288	LA	
		1400						3612	3258	LA	
		1430						3605	3224	LA	
		1500						3597	3194	LA	
		1515						3591	3185	LA	
06	18	1530						3586	3173	LA	
		1545						3581	3165	LA	
		1600						3575	3160	LA	
		1615						3569	3159	LA	
		1636						3563	3150	LA	
06	18	1645						3557	3139	LA	
		1700						3553	3125	LA	
		1730						3541	3098	LA	
		1800						3529	3070	LA	

LORAN LOG

Cruise I.D. I819-2 Year 76
 Leg No. 2 TZ +5

10

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	340 ST. #1	341 ST. #2	COMMENTS	WATCH I.D.
		1830						3518	3042	LA	
		1900						3509	3014	LA	
		1930						3500	2984	LA	
		2000						3491	2953	LA	
		2010						12700.25	69130.25	LC	
		2030						3479	2926	LA	
		2100						3470	2901	LA	
		2130						3460	2873	LA	
		2200						3450	2848	LA	
		2230						3443	2823	LA	
		2300						3446	2795	LA	
		2330						3453	2769	LA	
06	19	0000						3457	2741	LA	
		0030						3466	2714	LA	
		0100						3471	2686	LA	
		0110						12716.6	69027.9	LC	
		0130						12713.95	69015.21	LC	
06	19	0130						3476	2658	LA	
		0200						12723.27	68999.20	LC	
		0200						3482	2631	LA	
06	19	0230						12744.05	68983.15	LC	

0230

3488

2608

LORAN LOG

Cruise I.D. IG 19-2

Year 1976

Leg No. _____

TZ +5

P 11

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	19	0249						12750.81	68972.79	LC	
		0300						12755.50	68966.00	LC	
		0300						3494	2582	LA	
		0330						12766.5	68948.8	LC	
		0330						3500	2557	LA	
		0403						12777.3	68931.6	LC	
		0400						3505	2532	LA	
		0430						3511	2509	LA	
		0434						12788.0	68914.9	LC	
		0500						3515	2487	LA	
		0525						3518	2489	LA	
		0536						12807	68900	LC	
		0545						3527	2517	LA	
		0552						12810.5	68906.8	LC	
06	19	0600						3526	2530	LA	
		0630						3530	2571	LA	
		0645						12815.10	68928.80	LC	
		0700						3536	2605	LA	
		0717						12819.08	68941.90	LC	
		0730						3544	2643	LA	
		0746						12821.00	68954.55	LC	

LORAN LOG

Cruise I.D. IG 19-2Year 1976Leg No. 2TZ +5

12

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	19	0800						3547	2680	LA	
		0822						12822.99	68991.56	LC	
		0830						3549	2716	LA	
		0845						12823.42	68982.80	LC	
		0900						3553	2755	LA	
		0917						12823.97	68998.26	LC	
		0930						3558	2790	LA	
		0945						12824.97	69012.02	LC	
		1000						3562	2827	LA	
		1015						12826.92	69026.66	LC	
		1030						3568	2866	LA	
		1045						12829.87	69039.84	LC	
		1100						3573	2905	LA	
		1115						12833.23	69052.96	LC	
		1130						3579	2938	LA	
		1146						12838.34	69065.62	LC	
		1200						3585	2971	LA	
		1215						12842.60	69077.21	LC	
		1230						3590	3008	LA	
		1245						12847.59	69089.35	LC	
		1300						3598	3044	LA	

LORAN LOG

Cruise I.D. IQ-19-2 Year 1976
 Leg No. 2 TZ +5Z

13

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	19	1330						3606	3076	LA	
		1400						3611	3109	LA	
06	19	1430						3617	3144	LA	
		1500						3622	3177	LA	
06	19	1530						3626	3210	LA	
		1600						3631	3242	LA	
06	19	1630						3637	3276	LA	
		1700						3642	3310	LA	
		1730						3648	3339	LA	
		1800						3655	3374	LA	
		1830						3660	3402	LA	
		1900						3665	3435	LA	
		1930						3671	3466	LA	
		2000						3678	3490	LA	
		2036						066T	10 mi	R	
		2055						066T	8 mi	R	
		2115						064T	6 mi	R	
		2134						062T	4 mi	R	
		2154						059T	2 mi	R	
		2206						053T	0.5 mi	R	
		2226						143T	1.4 mi	R	Study 298

20
19
15
10
298

204
225
203
15

LORAN LOG

Cruise I.D. 2619-2

Year 1976

Leg No. _____

TZ +5

245
360
135

245
360
135

245
360
135

14

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	19	2232						132 T	2.0 mi	R	
		2253						123 T	4.0 mi	R	
		2312						123 T	6.0 mi	R	
		2330						122 T	8.0 mi	R	
		2350						122 T	10.0 mi	R	
06	20	0100						-	3428	LA	
		0135						-	3387	LA	
		0200						-	3362	LA	
		0230						-	3326	LA - radar shows 9.5 n.m. to shore	
		0245						-	3307	LA	
		0300						-	3293	LA	
		0304						-	3290	LA - on course 195°	
		0315						13027	69112	LC	
		0318						-	3289	LA	
		0330						-	3288	LA	
		0320						13017	69125	LC	
		0400						-	3287	LA	
		0400						12998	69132	LC	
		0423						3680	3286	LA	
		0500						3672	3278	LA	
06	20	0513						12956	69144	LC -	

0520

12953

69135 LC - slave S₂ decreased by 10 msec.

LORAN LOG

Cruise I.D. IG-19-2Year 1976

Leg No. _____

TZ +5

15

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	20	0530						3666	3271	LA	
		0534						12944	69137	"	
		0600						3658	3262	"	
		0630						3153	3248	"	
		0705						3646	3250	"	
		0730						3651	3279	"	
		0800						3658	3317	"	
		0830						3666	3357	"	
		0900						3671	3389	"	
		0930						3676	3428	"	
		1000						12930.85	69235.55	LC	
		1000						3680	3467	LA	
		1011						12932.79	69241.99	LC	
		1030						12935.30	69251.70	LC	
		1040						12940.24	69251.66	LC	
		1045						12943.27	69249.49		
		1053						12947.52	69246.08		
		1100						12951.50	69242.79		
		1115						12959.70	69235.96		
		1131						12960.30	69237.30	- skew on	
		1146						12957.83	69230.30	?	

LORAN LOG

Cruise I.D. IG19

Year 1976

Leg No. 2

TZ +5

16

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	20	1200						12956.02	69223.42	LC ?	
		1226						3680	3407	LA	
		1230						12952.05	69208.69	LC	
		1246						12949.60	69201.37	LC	
		1300						12947.20	69195.35	LC	
		1300						3678	3371	LA	
		1330						12941	69183	LC SOL MODE	
06	20	1330						3673	3340	LA	
		1400						12936	69160	LC	
		1400						-	3307	LA	
		1430						12931	69156	LC	
		1430						3662	3273	LA	
		1455						12928	69133	LC	
		1500						12928	69129	LC	
		1500						3657	3240	LA	
		1530						-	3205	LA	
		1540						3650	3200	LA	
		1600						3646	3208	LA	
		1620						3643	3222	LA - completed turn on course 093	
		1630						3644	3234	LA	

LORAN LOG

Cruise I.D. IG 19-2

Year 1976

Leg No. _____

TZ +5

340

341

17

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	20	1700						12904	69166	LC	
		1700						3649	3270	LA	
		1730						3652	3291	LA	
		1746						12913	69189	LC	
		1800						3661	3330	LA	
		1800						12916	69189	LC	
		1830						3666	3360	LA	
		1836						12923	69202		
		1900						3673	3393	LA	
		1900						12928.08	69212.76	LC	
		1930							3423	LA	
		1930						12935	69225	LC adjust -1	
		2000							3450	LA	
		2000						12941	69238	LC	
		2100						12959	69218	LC	
		2130						12952.29	69203.42	LC	
		2200						12948.05	69188.40	LC	
		2200						3676	3370	LA	
		2235						12943.19	69172.18	LC	
		2230						3671	3341	LA	
		2300						12939.42	69161.02	LC	

LORAN LOG

Cruise I.D. IG19

Year 1976

Leg No. 2

TZ +5

340

341

18

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	20	2300						3669	3313	LA	
		2330						12934.47	69147.33	LC	
		2330						3663	3279	LA	
06	21	0000						12929.72	69133.59	LC	
		0000						3658	3248	LA	
		0000						12925.29	69120.28	LC	
		0030						3652	3214	LA	
		0100						12920.56	69108.41	LC	
06	21	0100						3649	3181	LA	
		0130						12916	69095	LC	
		0130						3643	3147	LA	
		0200						12912	69082	LC	
06	21	0200						3637	3111	LA	
		0230						12909	69067	LC	
		0230						3633	3076	LA	
		0300						12906	69055	LC	
06	21	0300						3628	3042	LA	
		0330						12901	69043	LC	
		0330						3623	3011	LA	
		0400						3618	2977	LA	
		0430						3613	2946	LA	

06 21 0430

12892

69019 LC

LORAN LOG

Cruise I.D. IG 19

Year 1976

Leg No. 2

TZ +5

19

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	21	0500						12886	69006	LC	
		0500						3605	2906	LA	
		0530						12883	68997	LC	
		0530						3602	2884	LA	
		0600						12880	68986	LC	
		0600						3595	2850	AA	
		0630						12879	68971	LC	
		0630						3591	2819	LA	
		0700						12878	68958	LC	
		0700						3589	2783	LA	
		0730						12877	68945	LC	
		0730						3585	2752	LA	
		0800						12874	68932	LC	
		0800						3581	2715	LA	
		0830						12872	68920	LC	
		0830						3577	2680	LA	
		0900						12870	68907	LC	
		0900						3571	2646	LA	
		0930						12867.27	68895.41	LC	
		0930						3569	2613	LA	
		1000						12864.41	68883.12	LC	

LORAN LOG

Cruise I.D. T619

Year 1976

Leg No. 2

TZ +5

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	21	1000						3562	2579	LA c/c 260°	VS
06	21	1030						12860.59	69871.40	LC	
		1030						3557	2544	LA	
		1100						12855.27	69861.11	LC	
		1100						3552	2509	LA	
		1115						12852.70	68856.16	LC	
		1130						12850.13	68850.81	LC	
		1130						3548	2477	LA c/c 260°	
		1150						12847.05	68843.12		
		1200						12844.27	68840.91		
		1200									
		1210						12838.39	68845.80		
		1220						12833.80	68852.11		
		1230						12828.70	68858.06		
		1230						3532	2458		
		1235								- slew light on	
		1241						12822.28	68864.75		
		1300						12812.78	68876.18		
		1300						3525	2474		
		1316						3520	2485	End of line PCB3B	
		1318						12802.19	68888.08		

LORAN LOG

Cruise I.D. IG 19

Year 76

Leg No. 2

TZ +5

343

311

MONTH	DAY	TIME (Z)	LAT. DEGR.	LAT. MIN.	LONG. DEGR.	LONG. MIN.	FIX NO.	ST. #1	ST. #2	COMMENTS	WATCH I.D.
06	21	1600						3105	255-1	LA	TSAI
		1615						12778.36	72065	LC (not right)	
		1620								C/C 062°	
06	21	1700						3524	2656		
		1830						3556	2811	LA	NAV
06	21	1930						3580	2920	LA	
		2006						3590	2996	LA	
		2335						12904.90	69209.70	LC	
06	22	0030						12927.50	69251.66	LC	
06	22										
		0208						12962.67	69311.51	LC	
06	22	0234						12961.58	69309.31	SB 2 drop position	TS
06	22	0257						12959.85	69311.01	first shot off 0.36 n.m.	TS
06	22	0300						12961.46	69311.82	from drop site	TS
06	22	0306						12964.50	69313.66		TS
06	22	0310						12966.24	69314.53		TS
06	22	0320						12971.36	69316.74		TS
		0331						12976.85	69319.40		TS
		0340						12981.30	69321.69		TS

LORAN LOG

Cruise I.D. 7619-2

Year 1976

Leg No. _____

TZ 45[illegible]