SHIP'S NAV LOG

POWELL SU2-388/DELTA
Halley/Wilbur/Milliman
BAHAMAS SHELF May 13-20, 1988

FRIDAY 13 MAY 1988

TIME	LORAN	SAT NAV	SP
1730	26° 41.10	26° 40.75	7.5
	79° 56'	79° 55'.65	
1800	26° 38.7	26° 37.8	6.0
	79° 53.7	79° 54'.15	
1910	26° 34.6	26° 33.7	4.7
	79° 49.9	79° 50.9	
2000	26° 31.2	26° 25.7	5.9
	79° 46.9	79° 48.6	
2100	26° 27.0	26° 23.8	5.
	79° 43.6	79° 46.5	
2200	26° 22.8	26° 21.8	4.7
	79 40.7	79° 41.4	
2255	26° 18.3	26° 19.6	6
	79° 37.9	79° 38.8	
2400	26° 12.9	26° 12.9	6.4
	79° 35.9	79° 35.7	

SAT 14 MAY 1988

Time	LoRAN	SATNAV	SPD
0100	26 07.5	26°07.8	7 knots
	79 31.05	79 31.7	
0200	26°02'	26 02.2	6.75
	79° 26.9	79°27.2	
0300	25°56'	25 56.25	7.0
	79° 22.6	79°23'	
0400	25°50'	25°50.5	—
	79° 17'	79 17.5	
0440	25 50.5	—	—
	79 16.9		
0500	25°49'	—	—
	79 17.3		
0600	25.46.7	—	3 knots
	79 18.4		
0700	25° 44.5		
	79° 20.2		

SUN 15 MAY 1988

TIME	LORAN	SAT NAV	Sp
0100	25°56' 79°16'	2556.3 79 16.	4.5
0200	25°53.1 79° 16.85	–	
0300	25°50.8 79°18'	–	4.0
0400	25°48' 79 18.15	–	
0500	25°45.35 79 21.3	–	3.75
0600	25°40.4 79°19.5	–	
0700	25° 39.2 79° 20.0		
0800	25° 39.9 79° 20.4		
0900	25° 50.0 79° 17.5		

SUN 15th MAY 1988

TIME	LORAN	SAT NAV	SP
		25° 51.3 79° 17.7	
1000	25° 51.58' 79° 16.45'		—
1100	25° 51.6 79° 16.4		—
1200	25° 51.5 79° 16.4		—
1330	25 51.6 79 16.7		—
1430	25 54.75 79 15.2		—
1500	25 54.9 79 14.9		—
1600	26° 00'.25 79° 13'.70		
1700	25° 59.4 79 13.5		

SUN 15 MAY 1988

Time	LORAN	SAT NAV	SPD
1730	25 43.6 79 19.2	—	—
1800	25° 47' 79 18.7	—	—
1900	25°48' 79° 17'.8	25 48.4 79° 17'.8	—
2000	25° 47.9 79° 17.7		
2100	25° 51.2 79° 16.3		
2200	25° 55.4 79° 15.2		
2300	26° 00.0 79° 14.1		
		#1 25° 56.5 79° 16.8	
2400	25° 59.9 79° 16.6		

MM MAY 16 1988

TIME	LORAN	SAT NAV	SPD
0100	25° 28.88 79° 16.52	—	
0200	25° 24.93 79° 14.74	—	
0300	25° 21.34 79° 12.93	—	
0400	25° 17.3 79° 11' 75	—	4. kts
0426		25 14.83 79 11 .88	
0500	25° 12' 75 79° 11'	25° 12' 9 79° 11' 4	47
0600	25° 07' 8 79° 10' 6	25° 8' 3 79° 10' 5	4.8
0612		25° 05' 6 79° 11' 8	
0700	25 04. 5 79 13. 4	—	

Mon. MAY 16 1988

Time	LORAN	SATNAV	SPD
0800	25° 00.37 79° 11.33		
		SAT FIX 0848	
0900	24° 57.5 79° 09.6	24° 57.5 79° 09.7	
1000	24° 56.1 79° 11.7		
	200M - 8M - S →	24° 52.0 79° 12.3	
1100	24° 56.4 79° 10.5		
ON 1140			
1200	24° 53.1 79° 11.3		
1300	24° 46.75 79° 11.7	24° 47.2 79° 09.7	
1400	24° 46 00 79 12.3	—	
1500	24° 46' 79° 11'.8		

MONDAY MAY 16 1988

Time	LORAN	SATNAV	SPD
1600	24° 43.5 79° 12.5	—	
1700	24° 37.7 79° 13.2	—	
1800	24 36 99 79 12.63	24 30.26 79 4.05	
1900	24° 37.6 79° 12.9		
		1936 FIX	
2000	24° 37.6 79° 13.4	24° 35.7 79° 14.9	
	CC TO 180° + 0100?		
2100	24° 32.0 79° 13.4	24° 32.2 79° 13.3	
		FIX 2148	
2200		24° 27.6 79° 13.5	
2330	2421.2 79° 12.4	→ SHIP SIGNAL	

TUESDAY 17 MAY 1988

Sta'ld off

24°00 N WAKE John - Jude
— 100 FATHOMS

TIME	LORAN	SAT NAV	S_p
		FIX 2352	
0000	24° 18.8 79° 14.2	24° 20.4 79° 14.5	
0100	24° 10.2 79° 13.9	—	8.5
0140	24 03.9 79 13.75	—	
0200	24 01.3 79 13.3	—	
0144	UPDATE →	24 03.4 79 13.6	
0300	23°58'.8 79°08'.3	—	3.5
0400	23 55.9 79 07.5	—	
0500	23 52.6 79 06.25	23°52'.7 79 06.3	3.5

Tuesday 17 MAY 1988

Time	LORAN	SATNAV	SPD
0600	23°50.00 79°06'00	2349.7 79 05.15	3.0
0700	23° 48.5 79° 09.3	23° 46.2 79° 04.5	3.1
0800	23° 47.1 79° 06.4	23° 46.9 79° 06.3	32
1100	23°50.7 79° 06.2		
1200	23°50.8 79°05 9		
1300	—	23 50.8 79 06.0	
1400	2344 79 04.2	2343.6 7904.8	
1500	23°38'.2 79°02'.7	23°37' 79°02.25	6.5
1600	23 38.25 79 02.4	—	

Tuesday 17 May 1988

Time	LORAN	SATNAV	SPD
1632	23°38.6 79°02.5		
1830	23 39.3 79 02.7		
10	23° 39.9 79° 01.8		
1920	23°39.4 79°02.2	23°40.4 79°01.3	
2000	23°37.3 79°04.5	23°36.8 79°00.2	
2045	23° 34.4 79° 05.3	23° 36.0 79°01.8	
2100	23° 34.4 79° 05.2	FIX 2050 23° 35.0 79° 06.4	
2120		FIX 2122 23° 33.2 79° 04.2	
2230	23° 31.1 79°00.7	23° 32.1 79° 01.6	

TUESDAY 17 MAY 1988

TIME	LORAN	SAT NAV
2230	23°30.4	23°31.4
	78°59.2	79°00.5
2300	23°29.2	23°30.6
	78°57.5	78°59.3
2330	23°28.1	23°29.5
	78°58.5	79°00.2
2400	23°26.8	23°28.2
	79°00.0	79°01.2

WED 18 MAY 1988

Time	LORAN	SAT NAV	Speed
0030	23 25.9	23°21'	3.5
	79 01.6	79° 03'	
0100	23°24.3	23°25.6	" "
	79 01.9	79 04.5	
0130	23°22.98	23°.23.1	4.5 "
	78°59.9	78°59.9	
0200	23° 22	23° 22.2	4.5
	78 58.1	78°56.5	

WED 18 MAY 1988

TIME	LORAN	SAT NAV	SPD
0230	23° 21'.2 78° 56'.4	-	-
0300	23° 20'.45 78° 54'.1	23° 20'.2 78° 55'.5	
0330	23° 19.9 78° 53.3	23° 19.1 78° 53.8	" "
0400	23° 20'.3 78° 55		
0430	23° 22.4 78° 56.3	23° 20.7 78° 53.1	
0500	23° 24'.00 78° 57'.6	—	
0520	23 25.5 78 59.8	-	
0535	SAT update	23° 26'.3 78 58.8	
0600	23 27.7 78 59.9	23° 28'.1 79 00,6	3.3

Wed 18 MAY 1988

Time	LORAN	SAT NAV	SPD
	160-180 F		
0630	23° 30.1	23° 30.2	
	79° 00.1	79° 01.6	
0700	23° 32 2	23° 32.3	
	79° 01.6	79° 01.0	
0730	23° 34.3	23° 34.7.	
	79° 02.5'	79° 2.0'	
0800	23° 35.9	23° 36.2.	
	79° 03.3	79° 02 8	
	090° → 500', 83 F+		
	0830 ON DELTA STATION		
0900	23° 36 4	23° 37.0	
	79° 01.2	79 01.1	
1000	23° 36.6	23° 36.8	
	79° 01.5	79° 02.4	
1015	C/W TO 24° N		
1100	23° 42.6	23° 41.6	
	79° 03.8	79° 04.3	

WED. 18 MAY 1988

	LORAN	SAT NAV	SPD
1200	23° 51.1	23° 50.3	9.1
	79° 07.1	79° 07.0	
1300	23 58.3	23° 58.5	—
	79 09.2	79 10.25	
1400	23° 59.3	—	—
	79 07.8		
1500	24 00.25	—	8.0
	79 08.25		
1600	24 07.5	—	—
	79 10.5		
1700	24 08.1	—	—
	79 10.4		
1732	update	24° 07.3	—
		79 11.4	
1800	24 08.15	—	—
	79 10.35		
1900	24° 07.9	24° 09.2	
	79° 11.1	79° 11.7	

Time

1900

2000

2100

2200

2300

2400

0100

0200

Wed 18 MAY 1988

Time	LORAN	SAT NAV	SPD
1900	TRANSIT S OVER 170 FATHOMS		
2000	24° 04.6 79° 10.4	24° 04.2 79° 09.9	
2100	24° 01.8 79° 09.6	24° 00.9 79° 08.9	2.8
2200	23° 58.9 79° 07.7		2.4
2300	24° 00.5 79° 06.7	24° 01.0 79° 08.9	
2400	24° 02.8 79° 10.5		

Thursday 19 MAY 1988

	LORAN	SAT NAV.	SPD
0100	24° 05.5 79° 15.2	—	
0200	24 07.5 79 11.9		3.25

Thursday 19 MAY 1988

Time	LORAN	SATNAV	SHD
0300	24° 09.6 79° 08.8	24 09.6 79 08.7	
0400	24 12.7 79 13.2	24° 12.9 79° 13.0	4.5
0500	24° 16.4 79° 15.5	-	4.1
0600	24° 20.6 79° 13'	24° 21.2 79 12.5	
0700	24° 23.8 79° 15.8	24° 24.8 79° 14.6	
0800	24° 24.9 79° 13.0		
0900	24° 25.1 79° 13.6	24° 20.2 79° 08.2	
1000	24° 25.2 79° 13.4		
1100	24° 26.4 79° 13.1		

THURSDAY 19 MAY 1988

TIME	LORAN	SAT NAV	Sp
1130	STEAMING N TO	25° 05.0 N, 100 FATHOMS	
1230	24° 39.6 79° 12.9	24° 34.9 79° 14.7	
1300	24° 45.4 79° 12.5	24° 46.9 79° 13.0	
1400	24° 54.8 79° 11.0	24° 56' 79° 11.7	
1500	25° 02.0 79° 10.5	—	
1600	25° 05.00 79 10.75	-	
1700	25 05.20 79 10.25	25° 05.00 79 10.20	
1800	25° 05.3 79° 10.0	25° 04.9 79° 10.8	
1900	25° 05.1 79° 10.8	25° 04.9 79° 10.2	

FRIDAY 20 MAY 1988

TIME	LORAN	SAT NAV
2000	25° 05.3 79° 10.9	25° 05.4 79° 10.2
2100	25° 09.3 79° 10.8	25° 08.8 79° 11.1
2200	25° 11.9 79° 11.1	25° 11.2 79° 11.1
2300	25° 14.5 79° 12.2	25° 14.5 79° 12.1
2400	25° 17.1 79° 14.9	25° 16.3 79° 14.3
0100	25° 19.9 79° 14.0	
0200	25° 22.45 79° 14.8	25° 22.3 79° 14.6
0300	25° 25.6 79° 16.7	
0400	25° 29.0 79 17.15	

Friday 20 MAY 1988

Time	LORAN	SATNAV
0500	25° 32.4 79° 20.5	25° 32.1 79° 19.0
0600	25° 36.1 79° 19.6	-
0700	25° 34.9 79° 20.3	25° 34.8 79° 20.2
0800	25° 28.0 79° 15.9	
0900		
1000	25° 33.7 79° 19.0	25° 33.4 79° 19.1
1100	25° 33.7 79° 19.0	25° 33.4 79° 19.1
1200	25° 36.8 79° 19.9	25° 36.0 79° 21.1
1300	25° 43.2 79° 19.3	

Friday MAY 20 1988

Time	LoRAN	SATNAV	SPD
1400	25°43.25 79°19'	25°43.3 79 19.75	
1508	25°43.5 79 19.0	25°43.3 79 19.75	
1600	25 46.7 79 20.9	—	
1700	25 55.35 79 26.9	25°54.4 79°27.7	10.3
1800	26 04.8 79 32.9	26 02.9 79 34.4	10.75
1900	26° 14.5 79° 39.2	26° 11.0 79° 40.8	11.2
2000	26° 24.7 79° 46.8	26° 19.3 79° 47.3	12.2
2100	26° 35.6 79° 55.2	26° 32.0 79° 58.0	