GLORIA

WATCHSTANDER LOG

FARNELLA 87-5

BLAKE ESCARPMENT

+

BAHAMAS

MAY 10 - 27, 1987

104539
8,7018 GLO

GLORIA LOG

1987 Leg 5

EAST COAST LEG 5 SURVEY

DAY 130 MAY 10, 1987

1736	LOGGER STARTED 30 PRP, 2 SEC PULSE "ZERO ON TX" ON START PASS 1 TAPE 21 TR ϕ TX off.
1830	GLORIA DEPLOYED
1835	TX ON STBD & PORT PPA's 4, 5 & 6.
1847	Yaw filter off - still getting dropouts over whole record
1920	TX OFF.
1940	TX ON. START OF LINE 12 (Continuation)
2154	Yaw filter ON.
2159	" " OFF
2300	START PASS 2 TAPE 22 TR 4

LINE 120 Plenty of fish.

DAY 131 5/11/87

0316	A/C 191° / TX ON / EOL 12 /
0329	S/C 191° / TX ON / SOL 12B /
	Yaw filter ON
0428	Yaw filter off.
0500	START PASS 3 TAPE 21 TR 2
0628	TX OFF / EOL 12B
0633	TX ON / SOL 13
0733	Yaw filter ON
1100	START PASS 4 TAPE 22 TR 6
1700	START PASS 5 TAPE 23 TR 0
2300	START PASS 6 TAPE 24 TR 4

DAY 132 12th

0323	A/C 206° / Tx off EOL 13 /
0328	S/C 206° / Tx ON / SOL 13B /
0500	START PASS 7 TAPE 23 TR 2
0559.	A/C 0579 Tx off. EOL 13B.
0616	S/C 057° Tx ON SOL 14
1100	START PASS 8 TAPE 24 TR 6
1700	START PASS 9 TAPE 25 TR 0
2300	START PASS 10 TAPE 26 TR 4

There has been trouble with the STBD record being lower in amplitude than the PORT side for the last few cruises. Checking thro' the system showed that as far as the BSV Summing amplifier inputs, the signals from each section were comparable. However, the outputs of the Summing amp were 8db different. On this turn 2 opened up the Summing amp & found that the op-amp feedback resistors had been changed to 1.0K on the PORT & 750Ω on the STBD. This would immediately give more gain on the PORT side! During refit the STBD side was given 6db more gain than PORT. The question is, "When was it changed?"

Now the feedback resistors are PORT 1.0K
STBD 1.8K.

and the Rx filter gain has been returned to 12db on the STBD side.

0246	TX OFF EOL # 14 / a/c h 150°
0308	TX ON / -> TESTING SYSTEM DURING LINE # 143.
0500	START NEW PASS 11 TAPE 25 TR2
0514	TX OFF EOL # 145 / a/c 237°
0520	TX ON SOL # 15
1100	START PASS 12 TAPE 26 TR6
1233	XBT reading taken & checked Gloria temp. Gloria temp within 0.1°C. (Altered prior to Norfolk, Leg 4, but not noted in log book).
1700	START PASS 13 TAPE 27 TR4
2300	START PASS 14 TAPE 28 TR4

0829	A/C 203° TX OFF EOL 15
0834	S/C 203° TX ON SOL 15B
0340	STBD #5 S/C TRIP. (⊖ 3/4 TURN)
0500	START PASS 15 TAPE 27 TRACK 2
0503	TX OFF A/C 232 EOL 15B
0506	TX ON SOL 16
1100	START PASS 16 TAPE 28 TR. 6
1252	A/C 270° TX OFF EOL 16
1259	S/C 270° TX ON SOL 16B
1350	A/C 180° TX OFF EOL 16B
1359	S/C 180° TX ON SOL 17
1700	START PASS 17 TAPE 29 TR 0
2245	TX OFF A/C 270° EOL 17
2254	TX ON SOL 17B
2300	START PASS 18 TAPE 30 TR 4

AIR GUN PICK UP ON GLORIA :—

≏ 1130 – Air gun changed – interference on st'bd head is quite bad since the gun was changed. Tried different pressures – no change in pick up.

1546 Hand air gun in one turn to see if this will reduce interference – no difference

DAY 135 15th

0055	A/C 000° TX off EOL 17B
0100	S/C 000° TX on SOL 18
0144	Funny dropouts again – Yaw filter off.
0157	Yaw filter on.
0218	Yaw filter off.
0500	START PASS 19 TAPE 29 TR 2
1028	A/C 270° TX OFF EOL 18
1056	S/C TX ON SOL 18B
1041	YAW FILTER ON
1100	START OF PASS 20 TAPE 30 TR 6
1221	A/C 180° TX off EOL 18B
1230	S/C 180° TX ON SOL 19
1700	START PASS 21 TAPE 31 TR 0
1816	Receiver gun & change back to the original gun – & see if interference goes.
1903	GUN ON – interference has disappeared!!! Why? What is wrong with the gun?
2300	START PASS 22 TAPE 32 TR 4

DAY 136 16th

0113	A/C 175° TX OFF
0115	S/C 175° TX ON — STILL LINE #19
0500	START PASS 23 TAPE 31 TR. 2
0828	TX OFF A/C 270°
0838	TX ON — S.O.L. 19 B
0849	TX OFF A/C 353°
0859	TX ON — S.O.L. 20
1100	START PASS 24 TAPE 32 TR. 6
1224	A/C 2° STBD TX OFF — STILL LINE #20
1225	S/C 2° STBD TX ON
	(REDUCE PORT RX FILTER GAIN TO 6 db.)
1329	YAW FILTER OFF — DROPOUTS AGAIN — THEY ONLY SEEM TO APPEAR ON THE NORTHERLY HEADINGS.
1700	START PASS 25 TAPE 33 TR 0
1910	A/C 2° STBD TX OFF
1911	S/C TX ON
1936	PORT RX FILTER GAIN RETURNED TO 12 dB
2300	START PASS 26 TAPE 34 TR 4

DAY 137 17th

0028 / 0037	A/C 270° Tx off / S/C 270° Tx on — EOL #20A / SOL #20B
0037	Yaw filter program latched up on 000°. Had to Reset – Run-P to get onto correct heading.
0037	Yaw filter on.
0100 / 0108	A/C 180° Tx off / S/C 180° Tx on — EOL #20B / SOL #21
0500	Start Pass 27 Tape 33 Track 8
0910 / 0911	~~Tx off~~ ADJUST COURSE 1½° TO PORT. / Tx ON
1100	START PASS 28 TAPE 34 TR 6
1616 / 1624	A/C 270° Tx off EOL #21 / S/C 270° Tx on SOL #21B
1700	START PASS 29 TAPE 35 TR Ø
1706 / 1710 / 1714	A/C 000° Tx off EOL #21B / Yaw filter off / S/C 000° Tx ON SOL #22
2300	START PASS 30 TAPE 36 TR 4

DAY 138 18th

0500	START PASS 31 TAPE 35 TR 2
1100	START PASS 32 TAPE 36 TR 6
1357	A/C 305° TX OFF SOL 22
1404	S/C 305° TX ON SOL 22B YAW FILTER ON
1458	A/C 180° TX OFF SOL 22B
1513	S/C 180° TX ON SOL 23
1700	START PASS 33 TAPE 37 TR 0
2300	START PASS 34 TAPE 38 TR 4
2337	A/C 270° TX OFF SOL 23
2343	TX ON SOL 23B

DAY 139 19th

[redacted]	A/C 000° TX Off EOL 23B
[redacted]	S/C 000° TX ON SOL 24. YAW FILTER OFF
0500	START PASS 35 TAPE 37 TR 2
[redacted]	TX OFF A/C 330° EOL 24A
0826	TX ON O/C 327° S.OL 24B
0950	TX OFF A/C 180° [redacted]
1004	TX ON [redacted] YAW FILTER O
1100	START PASS 36 TAPE 38 TR 6
1700	START PASS 37 TAPE 39 TR 0
1920	TX off A/C 270° EOL 25
1931	TX ON S/C 270° SOL 25B Slow to 5 kts
1955	Speed to 10kts - Airgun & hydrophone recovered
2021	TX OFF A/C 360° EOL 25B YAW FILTER O
2028	TX ON SOL 26
2300	START PASS 38 TAPE 40 TR 4

DAY 140 20th

0500	START PASS 39 TAPE 39 TR 2
0607	TX off A/C 244° EOL 26
0613	TX on S/C 244° SOL 26B
~~0700~~	~~TX off A/C 180° EOL 26B~~
0712	TX on S/C 180° SOL 27
0825	YAW ON FILTER
1100	START PASS 40 TAPE 40 TR 6
1546	A/C 270° TX off EOL 27
1556	S/C 270° TX on SOL 27B
1622	A/C 000° TX off EOL 27B
1629	S/C 000° TX ON SOL 28
1700	START PASS 41 TAPE 41 TR 0
1954	YAW FILTER OFF.
2300	START PASS 42 TAPE 42 TR 4

Strong Rip

DAY 141 21st

0147	A/C 260° TX off	EOL 28
0157	S/C 260° TX on	SOL 28B / YAW FILTER ON
0228	A/C 180° TX off	EOL 28B
0236	S/C 180° TX on	SOL 29
0500	START PASS 43 TAPE 41 TR 2	
1057	A/C 270° TX OFF.	EOL 29
1100	S/C 270° TX ON	SOL 29B
1100	START PASS 44 TAPE 42 TR 6	
1128	A/C 000° TX OFF	EOL 29B YAW FILTER OFF.
1137	S/C TX ON	SOL 30
1246	YAW FILTER ON (HEADING 011)	
1434	YAW FILTER OFF	
1700	START PASS 45 TAPE 43 TR 0	
2129	A/C 240 TX OFF	E.O.L 30
2129	S/C 246° TX ON	S.O.L 30B YAW FILTER ON
2133	A/C 239 TX off	?
2145	S/C 242 TX ON	
2259	A/C 180° TX OFF	EOL 30B
2322	S/C 196° TX ON	S.O.L 31
2300	START OF PASS 46 TAPE 44 TR. 4	RESET YAW FILTER ~~COMPASS~~ ON

DAY 142 22ND

0500 START PASS 47 TAPE 43 TR 2.

0746 TX off A/C 270° E.O.L. 31B
0754 TX ON S/C 270°. S.O.L. 31B.

0820 TX OFF A/C 360° E.O.L. 31B YAW FILTER OFF
0828 TX ON S/C 360° S.O.L. 32

1100 START PASS 48 TAPE 44 TR 6

1700 START PASS 49 TAPE 45 TR 0

1709 A/C 270° TX off EOL 32.
1717 TX ON S/C 270° SOL 32B

1804 TX off A/C 180° EOL 32B
1812 TX ON S/C 180° SOL 33

2114 YAW FILTER ON
2300 START PASS 50 TAPE 46 TR 4

TURNED DRIVE LEVER 1/2 TURN CCW.

DAY 143 23rd

0322	A/C 270 TX off EOL 33 !
0332	S/C 270 TX on SOL 33B !
0354	A/C 000° TX off EOL 33B !
0603	S/C 000° TX on SOL 34 ! YAW FILTER OF
0500	START PASS 51 TAPE 45 TR 2
0811	S/C TRIP STA #4
1100	START PASS 52 TAPE 46 TR 6
1346	A/C 223° TX OFF EOL 34 !
1358	S/C 223° TX ON SOL 34B ! YAW FILTER O
1510	A/C 180° TX OFF EOL 34B !
1538	S/C 180° TX ON SOL 35 !
1700	START PASS 53 TAPE 47 TR 0
2300	START PASS 54 TAPE 48 TR 4

DAY 144 24h

0109	A/C 270° TX OFF EOL 35
0118	S/C 270° TX ON SOL 35B
0139	A/C 090° TX OFF EOL 35B
0150	S/C 090° TX ON SOL 36 YAW FILTER OF
0500	START PASS 55 TAPE 47 TR 2
0953	A/C 330° TX OFF EOL 36
1006	S/C 331° TX ON SOL 36B YAW FILTER ON
1100	START PASS 56 TAPE 48 TR 6
1146	A/C 180° TX OFF EOL 36B
1205	S/C 180 TX ON SOL 37
1700	START PASS 57 TAPE 49 TR Ø
2300	START PASS 58 TAPE 50 TR 4

DAY 145 25th

0002	A/C 090° TX OFF EOL 37
0011	S/C 090° TX ON SOL 38
0500	START PASS 59 TAPE 49 TR 2
[redacted]	A/C 180° TX OFF E.O.L 38
[redacted]	S/C 180° TX ON S.O.L 39
1100	START PASS 60 TAPE 50 TR 6
1700	START PASS 61 TAPE 51 TR 0
2300	START PASS 62 TAPE 52 TR 4
2338	A/C 090 TX OFF E.O.L 39
[redacted]	S/C 090 TX ON S.O.L 39B

0700 U.S Navy start firing big guns every 5 mins

DAY 146 26th

0055	A/C 174° TX OFF EOL 39B Range = 4 N.
0106	S/C 174° TX ON SOL 40
	0200 Range = 0.5 N.
0500	START PASS 63 TAPE 51 TR 2 Range = 5 m.
0918	A/C 082° TX OFF EOL 40
0929	S/C 084° TX ON S.O.L 40 B
1009	A/C 354° TX OFF E.O.L 40 B
1021	S/C TX ON S.O.L 41 YAW FILTER OFF
1100	START PASS 64 TAPE 52 TR 6
1542	Yaw filter latched up on 000°. Reset & Run
1700	START PASS 65 Tape 53 tr 0
1716	A/C 090° TX off EOL 41.
1725	S/C 090 TX on. SOL 41B.
1829	YAW FILTER ON (FILTER LATCHED AT 000 AGAIN WHEN?)
1855	TX off A/C 185° EOL 41B.
1907	S/C 185° TX on SOL 42.
2138	TX off A/C 170
2139	S/C 170 TX ON
2300	START PASS 66 TAPE 54 TR 4

Would not reset until 120 V mains turned off then on again.
CONNECTED SECTION 5 TO PPA 6 — OK

DAY 147 27th

0233 !	A/C 207° TX OFF EOL 42 !
0237 !	S/C 207° TX ON SOL 43 !
0446	Gain on Rx filter (STBD side) reduced to 6dB because the correlator overload was flashing
0500	START PASS 67 TAPE 53 TR 2
0614	STBD Gain back to 12dB
0907	FAN - TEMP TRIP STBD #5
0920	REPEAT
0954 !	A/C 190° TX OFF EOL 43
0956 !	S/C TX ON SOL 44
1100	START PASS 68 TAPE 54 TR 6.
1117	STBD GAIN TO 6 dB
1144	STBD GAIN TO 0 dB
1232	STBD GAIN TO 6 db.
1300	PORT GAIN TO 6 db.
1355 !	A/C 246° TX OFF EOL 44
1400 !	S/C 246° TX ON SOL 45.
1800	START PASS 69 Tape 55 tr 0
1840 !	A/C 330° TX off EOL 45.
1848 !	S/C 330° TX ON SOL 46 ?
2000	LOGGING TERMINATED.