

# 19800828HI - RADAR

AUG 28 1988

## E.5 Radar/Airborne Doppler Radar Scientist (On-Board)

The on-board radar scientist (RS) is responsible for data collection from all radar systems on his/her assigned aircraft. Detailed operational procedures and check lists are contained in the operator's manual supplied to each operator. General supplementary procedures follow. (Check off and initial.)

### E.5.1 Preflight

- NMD 1. Determine the status of equipment and report results to the on-board lead project scientist (LPS).
- NMD 2. Confirm mission and pattern selection from the on-board LPS.
- 3. Select the operational mode for radar system(s) after consultation with the HRD/RS and the on-board LPS.
- NMD 4. Complete the appropriate preflight calibrations and check lists as specified in the radar operator's manual.

### E.5.2 In-Flight

- NMD 1. Operate the system(s) as specified in the operator's manual and as directed by the HRD/RS, unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO flight director or aircraft commander.

### E.5.3 Postflight

- NMD 1. Complete the summary check lists and all other appropriate check lists and forms.
- NMD 2. Brief the on-board LPS on equipment status and turn in completed forms to the LPS.
- NMD 3. Hand-carry all radar tapes and arrange delivery as follows:
  - a. Outside of Miami - to the HRD operations center (FGOC).
  - b. In Miami - to MGOC or to AOML/HRD. [Note: all data removed from the aircraft by HRD personnel should be cleared with the OAO flight director.]
- NMD 4. Debrief at the appropriate operations center (FGOC or MGOC).
- NMD 5. Determine the status of future missions and notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted.

19800828H-42RF

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Radar Scientist Check List

Flight ID 880828H  
Aircraft # 42RF  
Operators DORST  
Radar Tech. ROLES

Number of digital magnetic tapes on board 11

Number of tape labels on board +

Component systems up and checked:

RDSC	<u>↓</u>	DSC1	<u>↓</u>
Computer	<u>↓ ?</u>	DSC2	<u>↓</u>
DMTR1	<u>✓</u>	DMTR2	<u>✓</u>
LF	<u>✓</u>	R/T#	<u>102</u>
TA	<u>✓</u>	R/T#	<u>201</u>

Time correction between radar time and digital time + 2 sec

Radar Postflight Summary

Number of digital tapes used:	DMTR 1	<u>2</u>
	DMTR 2	<u>1</u>

Significant recorder down time:

DMTR 1	<u>                    </u>	Radar LF	<u>                    </u>
DMTR 2	<u>                    </u>	Radar TA	<u>                    </u>

Other problems:

TA WAS OFF FREQUENCY  
RADAR COMPUTER SYSTEM WAS FLAKY ALL TRIP.  
ONLY AVAILABLE FOR 1 HR.





880828H1 - Recco of TS CHRIS  
LPS - F MARKS RADAR - DORST  
FLIGHT DIR - P ROBERT  
T/O MIAMI 1051Z LAND MIAMI 1945Z  
EL TECH ROLES running round this  
morning trying to get the radar data  
system to work, 'big?' whether  
there'll be any radar on this flight.

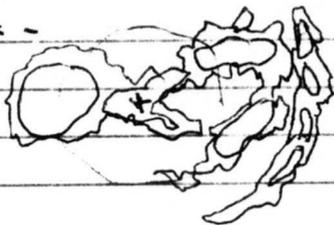
1250Z - WIND MIN OF A SORT, w/ A SHIFT  
IN DIRECTION, BEEN IN LOW LEVEL  
TURBULENCE LAST 1/2 HOUR NO END IN  
SIGHT. STILL NO RADAR

1340Z - SYSTEM UP & RUNNING. AM  
RECORDING, THO' TAIL RADAR MAY BE  
FLAKY.

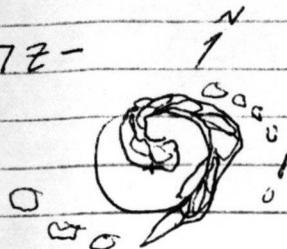


1345Z - TAIL RT NOT ON FREQUENCY

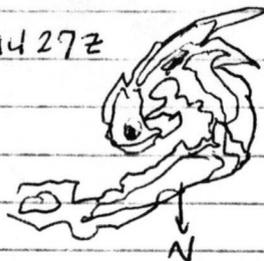
1405Z -



1417Z -



1427Z



1440Z - SWITCHED OFF TA RECORDING  
AS DATA IS NEXT TO USELESS. RECORDING  
ONLY LF RADAR

1442Z - COMPUTER WENT DOWN!

1420Z - LAST FIX HAD CHRIS ASHORE AT  
SAVANNAH.

1524Z - DR FM SEZ "THAT'S IT FOR  
THE RADAR!" ATTEMPTS TO RESTART WERE  
UNSUCCESSFUL.

1700Z - WE'VE TRUCKED ALL THE WAY UP TO  
CAPE HATTERAS TO GET SYNOPTIC FLOW FOR  
NHC. STILL NO RADAR, BUT EVERY NOW  
AND THEN THEY TRY AGAIN. LONG RIDE  
HOME.

1800Z - CLIMB FOR RIDE HOME. SYSTEM  
WAS NEVER REVIVED. ONE HOUR'S  
WORTH OF DATA ON 3 TAPES. TA VERY  
QUESTIONABLE.