Radar Scientist

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

Preflight

_____ 1. Determine the status of equipment and report results to the lead project scientist (LPS).

_____ 2. Confirm mission and pattern selection from the LPS.

_____ 3. Select the operational mode for radar system(s) after consultation with the LPS.

_____ 4. Complete the appropriate preflight calibrations and check lists as specified in the radar operator's manual.

In-Flight

_____ 1. Operate the system(s) as specified in the operator's manual and as directed by the LPS or as required for aircraft safety as determined by the AOC flight director or aircraft commander.

_____ 2. Maintain a written commentary in the radar logbook of tape and event times, such as the start and end times of F/AST legs. Also document any equipment problems or changes in R/T, INE, or signal status.

Post flight

_____ 1. Complete the summary checklists and all other appropriate forms.

_____ 2. Brief the LPS on equipment status and turn in completed forms to the LPS.

_____ 3. Hand-carry all radar tapes and arrange delivery as follows:

a. Outside of Miami-to the LPS.
b. In Miami-to MGOC or to AOML/HRD. [**Note**: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]

_____ 4. Debrief at MGOC or the hotel during a deployment.

_____ 5. Determine the status of future missions and notify MGOC as to where you can be contacted.

HRD Radar Scientist Check List

Flight ID: 05102214

Aircraft Number: N42RF

Radar Operators: GAMACHE

Radar Technician: MACMILLAN

Number of digital magnetic tapes on board: ENOUGH

Component Systems Status:

MARS ✓ Computer ✓

DAT1 ? DAT2 ✓

LF ✓ R/T Serial # _____

TA ✓ R/T Serial # _____

Time correction between radar time and digital time: LOOKS LIKE THE OLD 1.55 IS STILL TRUE

Radar Post flight Summary

Number of digital tapes used: DAT1 _____

DAT2 _____

Significant down time:

DAT1 _____ Radar LF _____

DAT2 _____ Radar TA _____

Other Problems:

-.23 range delay
2 5 IBST, INOB

HRD Radar Event Log

Flight 051022H **Aircraft** N42RF **Operator** GAMACHE **Sheet** 1 **of** ___

LF RPM 2 TA RPM 10

(Include start and end times of DATs, as well as times of F/AST legs and any changes of radar equipment status)

Tape #	F/AST On?	Event Time (HHMMSS)	Event
			NEGLECTED TO NOTE
			START TIME TOO MUCH
			TO KEEP TRACK OF
			NOSE RADAR DOWN WILL
			BE IN SECTOR MODE FOR
			FLIGHT UNLESS FIXED
			AZIMUTH 45° on leg 1 inbound
DR271	FRENCH	1737	NOSE WORKS - BACK TO 360° LF
			G 1749 21 13 8705
			G
			1734 1749 1813 leg 01
			G 1921 21 20 8705 360 kts 1909
			1906 1921 1936 leg 02
			G 2042 21°25' 87°84' 958
		2012	RADAR DOWN 011 kts
			FOR SOME TIME
			G 2153 21 27 8701 0553
			G 2302 21 31 8688 0354 220° inbound 45° outbound
		~0005	TAIL RECORDING ENDED