E.5 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 follow. (Check off and initial.)

E.5.1 Preflight

____ 1. Determine the status of equipment and report results to the on-board lead project scientist (LPS).

____ 2. Confirm mission and pattern selection from the on-board LPS.

____ 3. Select the operational mode for radar system(s) after consultation with the on-board LPS.

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

E.5.2 In-Flight

____ 1. Operate the system(s) as specified in the operator's manual and as directed by the on-board 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.

E.5.3 Post flight

____ 1. Complete the summary checklists and all other appropriate check lists and forms.

____ 2. Brief the on-board 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

TD10
AL93

Flight ID: 070921I1

Aircraft Number: 43rf

Radar Operators: ~~Pat~~ Paul Leighton

Radar Technician: Terry Lynch

Number of digital magnetic tapes on board: _____

Component Systems Status:

MARS ✓ up ↑ Computer ↑

DAT1 ↑ DAT2 ↑

LF _____ R/T Serial # 122

TA _____ R/T Serial # 102/202

Time correction between radar time and digital time: ___

Radar Post flight Summary

Number of digital tapes used: DAT1 1

DAT2 _____

Significant down time:

DAT1 _____ Radar LF _____

DAT2 _____ Radar TA _____

Other Problems:

HRD Radar Tape Log

Flight 070921I **Aircraft** 43rf **Operator** Leighton **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
		215919	Take off
		220800	start radar
	✓	220900	" Recording
		014100	Recording Stopped

1006mb 23 09 86 3.9 3.2 230726 30 20.5 86 39.0

FLIGHT ID: 070921I1

Doppler Wind parameters

Scientist: Leighton / Cascella

Time	Time	Storm Motion		Time	Ctr. Lat.	Ctr. Long.	Radius	Hor. Res	Vert. Res.	Track	In Azm.	Out Azm.	ja?	Sent
(Start leg)	(End Leg)	Degrees	Knots	(Center)	(Deg/Min)	(Deg/Min)	66/88/110	3/4/5	0.5	(In/Out)	Trk.+/-180	(track out)	H/TS	(Y/N)
2235	2326	295	10kts	2307	30 ~~20.5~~ 18.0	86 39.0				~~135~~ 315	135	~~270~~ 230 290		
2327				2340										

Center from pdf tape ⇒ Enter tape name: 12) No response

TA_TS and TAaughcheck_TS

both stop at Calling ReadTape then Hangs ...

Skunked!!!