

0808/4 H1

AL92

pre-Scan ~

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

Flight ID: 080814H1
Aircraft Number: 42 cf
Radar Operators: _____
Radar Technician: Peck
Number of digital magnetic tapes on board: _____

Component Systems Status:

MARS _____	Computer _____
DAT1 _____	DAT2 _____
LF _____	R/T Serial # <u>LF 121-T 123</u>
TA _____	R/T Serial # <u>12</u> <u>201</u>

Time correction between radar time and digital time: _____

Radar Post flight Summary

Number of digital tapes used: DAT1 _____
DAT2 _____

Significant down time:

DAT1 _____ Radar LF _____
DAT2 _____ Radar TA _____

Other Problems:

03 DDA WAVE

1652 min
61.37 min

Run all
6 channels
on Summit
>
Yes
problem?

HRD Radar Tape Log

Flight 080814/1 Aircraft 425f Operator Murillo/Leigh Sheet 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
		180200	Turn off
		1520	start radar
		1557	IP turn
			evolving for an hour
			to per Mark
		1709	start NR to SW Pass
		1800	End " " 5 "
		1820	start SSE to NNR PASS
		1850	End " " " "
		1909	start W to E Pass
		1929	Center ?
		1942	End into R Pass
		↓	> Convective Burst mod.
		2100	
		~ 2200	End of Recording
		2202	



HRD Radar Down-Time Log

Flight

Aircraft

Operator

Sheet

of

1

[illegible]

Item List: DAT1, DAT2, COMP, MARS, LF, and TA.

Include serial numbers of any new R/Ts.

Init. 285 @ 12 kts

FLIGHT ID: 080814H

Doppler Wind parameters

Scientist: Shirley Morillo
Paul Leighton

Time (Start leg)	Time (End Leg)	Storm Motion		Time (Center)	Ctr. Lat. (Deg/Min)	Ctr. Long. (Deg/Min)	Radius 66/88/110	Hor. Res 3/4/5	Vert. Res. 0.5	Track (In/Out)	In Azm. Trk.+/-180	Out Azm. (track out)	ja? H/TS	Sent (Y/N)
1557		285	12				110			350	130	350	TS	
1709	1800			1745	16.75	63.20						180		
1820	1850	285	12	1830	17.7	61.9				350		333		
1909	1942 1929			1835	18.12.9	62.03								
				1929	18.11	61.9	110			87		91		

↑
should be done with

Get
Radar data

" faston not determined exactly "