

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. *Fig 4 then P. Chng Wedge*
3. Select the operational mode for radar system(s) after consultation with the on-board LPS. *S→N, W→*
4. *tail Fresh Androm 2000 PRF* 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 *Here* 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: I03091341
Aircraft Number: 42rf
Radar Operators: P. Leighton
Radar Technician: R. Peck
Number of digital magnetic tapes on board: ?

Component Systems Status:

MARS up Computer up
DAT1 up DAT2 up
LF up R/T Serial # LF 121
TA up R/T Serial # TA 123 rec 201

Time correction between radar time and digital time:

OK Run dataset!

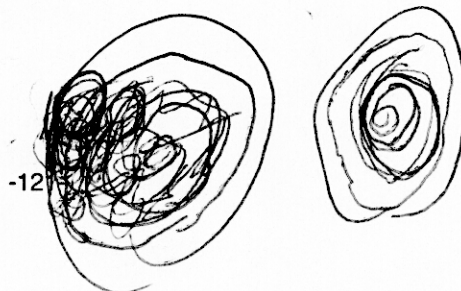
Radar Post flight Summary

Number of digital tapes used: DAT1 _____
DAT2 _____

Significant down time:

DAT1 _____ Radar LF _____
DAT2 _____ Radar TA _____

Other Problems:



Musip 1 does not automatically record spectral width

HRD Radar Tape Log

Flight 103091341 Aircraft Y2rf 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
1	French Ant	150000	Estimated 7/0 time
1	"	152900	Recording start
		1627	wedge on
		1642	wedge off
		1652	wedge on
		1727	circle pattern shows up
		1800	
		1844	wedge off
		1932	no more AF
		2006.25	wedge off
			missed switch
		2105	wedge on
		2130	end of Sain

20067 ↓

45 min

HRD Radar Down-Time Log

Flight 1030913H Aircraft 421F Operator Leighton Sheet 1 of

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem

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

Include serial numbers of any new R/Ts.