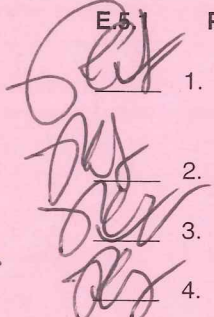



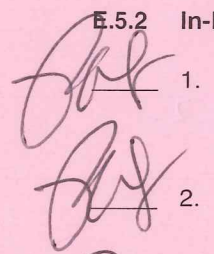
## E.5 Radar Scientist

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.)

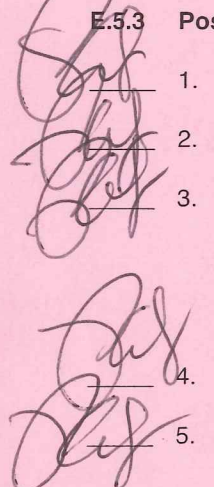
### E.5.1 Preflight

- 
- 
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. *105 am legs*
  3. Select the operational mode for radar system(s) after consultation with the on-board LPS. *2400*
  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.

2235  
2245

HRD Radar Scientist Check List

Flight ID: 070926I1

Aircraft Number: 43rf

Radar Operators: T. Lynch / J. Almeida

Radar Technician: T. Lynch

Number of digital magnetic tapes on board: 5

Component Systems Status:

MARS ↑ ? Computer ↑

DAT1 ↑ DAT2 ↑

LF ↑ R/T Serial # ~~102 201~~ 122

TA ↑ R/T Serial # 102 201

Time correction between radar time and digital time: Ø

Radar Post flight Summary

Number of digital tapes used: DAT1 /

DAT2                     

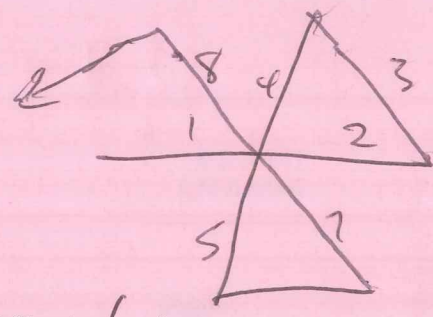
Significant down time:

DAT1                      Radar LF                     

DAT2                      Radar TA                     

Other Problems:





# HRD Radar Tape Log

Flight 0709264 Aircraft 435 F Operator Leigh Sheet 1 of 6

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
		191515	Take off Bobs
			Date set moon gun
		192626	Reboot WS
			Date set, start and /
		22:40	Acum jump LF
		23:16:00	Radar not updating
		2328	short leg 4 pass 2
		0101	1 Acum jump
		013845	climb out of science
			page 2235-2249 1-1, 1-2
			page 2355 2415 2-1, 2-2
			page 2450 2515 3-1, 3-3
		0250	Stop Recording

22:34:55  
12:48  
4:15:57

## HRD Radar Down-Time Log

Flight \_\_\_\_\_ Aircraft \_\_\_\_\_ Operator \_\_\_\_\_ Sheet \_\_\_\_\_ of \_\_\_\_\_

[illegible]

Include serial numbers of any new R/Ts.

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

-126-

12.49 49.36

295 10

~~285~~

200 10

330