

D080720I

TS. Dolly

**E.5 Doppler Radar Scientist (On-Board)**

The on-board Doppler radar scientist (DRS) is responsible for data collection from all radar systems on his/her assigned aircraft. Detailed operational procedures and check lists 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 Postflight**

- ☒ 1. Complete the summary check lists 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 HRD Field Ground Operations Center (FGOC).
  - 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 the appropriate operations center (FGOC or MGOC).
- ☒ 5. Determine the status of future missions and notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted.

Doppler Radar Scientist Check List

Flight ID: D080720II  
Aircraft Number: N43RF  
Doppler Radar Operators: ~~T. Lynch~~ R. Rogers  
Radar Technician: T. Lynch  
Number of digital magnetic tapes on board: 3. Plenty

Component Systems Status:

MARS <u>↑</u>	Computer <u>↑</u>
DAT1 <u>↑</u>	DAT2 <u>↑</u>
LF <u>↑</u>	R/T Serial # <u>202</u>
TA <u>9</u>	R/T Serial # <u>102</u>

Time correction between radar time and digital time: \_\_\_\_\_

Radar Postflight Summary

Number of digital tapes used: \_\_\_\_\_  
DAT1 \_\_\_\_\_  
DAT2 \_\_\_\_\_

Significant down time: \_\_\_\_\_  
DAT1 \_\_\_\_\_ Radar LF \_\_\_\_\_  
DAT2 \_\_\_\_\_ Radar TA \_\_\_\_\_

Other Problems: \_\_\_\_\_

← ?  
Keeps  
switching  
to 7  
AOC  
s. Alure



Tail

# HRD Radar Down-Time Log

Operator Leigh Flight ID 08072051 Sheet 1 of    

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
2010			start recording
2136			restart save space
2224			Down to best parameter
2231			Backup up ???
2244			←
2326			Descent to 5000
<del>2400</del>	2850		stop data hours no Perket Data
	0504	2904	

2221  
2221  
2224

2334  
2334

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

Include serial numbers of any new R/Ts.

## HRD Radar Tape Log

Flight 08072011 Aircraft N431F Operator Z. Lynch Sheet 1 of 1

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)

[illegible]



FLIGHT ID:

080720 ± 1

## Doppler Wind parameters

Scientist: P. Leighton

[illegible]

0867 20 I

## Doppler Wind parameters

**Scientist:**

Rogers

[illegible]