

SEP 27 1993

14730827HI-RADAR

### 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. *Vortex Interadon*
- ☒ 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.

#### 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 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.

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### Doppler Radar Scientist Check List

Flight ID 930827H Emily II  
Aircraft # N42RF  
Operators M. Block  
Radar Tech. Jim Roles

Number of digital magnetic tapes on board Several Boxes

Number of tape labels on board mucho

Component systems up and checked:

MARS ✓

Computer ✓

DMTR1 ✓

DMTR2 ✓

LF ✓

R/T# 122

TA ✓

R/T# 102

Time correction between radar time and digital time 1 sec

### Radar Postflight Summary

Number of digital tapes used.

DMTR1 \_\_\_\_\_

DMTR2 \_\_\_\_\_

Significant down time:

DMTR 1 \_\_\_\_\_

Radar LF \_\_\_\_\_

DMTR 2 \_\_\_\_\_

Radar TA \_\_\_\_\_

Other problems:

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Flight 930827H Aircraft N42RF Operator M. Black Sheet      of     

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Emily II

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## HRD Radar Down-Time Log

Operator M. Black

Sheet \_\_\_\_ of \_\_\_\_

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
T9 radar	~20Z	2146	not recording yet TA Radar Flaky - modulator turned off
TA.		0115	Replaced Ray board on RCU

Item List: DMTR1, DMTR2, COMP, MARS, LF, TA.