1998082411-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.
- \_ 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

- 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.
- 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

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- 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.]
  - 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: 98082411   Aircraft Number: N43RF   Doppler Radar Operators: BAMACH   Radar Technician: Rolles   Number of digital magnetic tapes on board: 1	
Component Systems Status: MARS	Computer DAT2 R/T Serial #O 3 R/T Serial #O 1 /201
Radar Postflig	Jht Summary
Number of digital tapes used:	DAT1 DAT2
Significant down time:	
DAT1	Radar LF
DAT2	Radar TA
Other Problems:	

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HRD Radar Tape Log

Flight <u>9808241</u> Aircraft <u>N43RF</u> Operator <u>GAMACHE</u> Sheet <u>1</u> of \_\_\_\_\_ 2 TA RPM \_\_\_\_\_10 LF RPM\_

(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
DITI	Y	18432502.7	1943 Begin recording, 1600/1066 1707C 2806 72°39' from SAF
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		014013	Roder recording down Recording restarted
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# HRD Radar Tape Log

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Flight	Aircraft	Operator	Sheet of
LF RPM	И	TA RPM	

(Include start and end times of DATs, as well as times of F/AST legs and any changes of radar equipment status)

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HRD Radar Tape Log

Flight	Aircraft	Operator	Sheet of
LF RPM		TA RPM	

(Include start and end times of DATs, as well as times of F/AST legs and any changes of radar equipment status)

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26-636			8

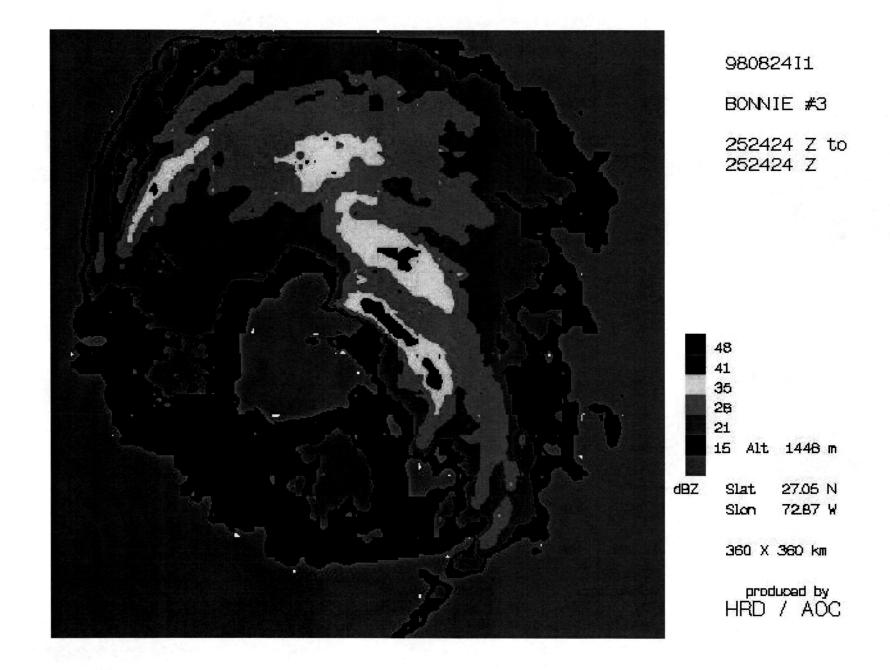
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# HRD Radar Down-Time Log

Operator		Flight ID	Sheet of
Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
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Item List: DAT1, DAT2, COMP, MARS, LF, TA.

Include serial numbers of any new R/Ts.



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