

## Radar Scientist

Flight ID 110826H1 Storm Name Hurr. IRENE

Radar Scientist LorSoco Radar Technician Bosko

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. General supplementary procedures follow. (Check off or initial.)

### Preflight

- ☒ 1. Determine the status of equipment and report results to the lead project scientist (LPS).
- ☒ 2. Confirm mission and pattern selection from the LPS.
- ☒ 3. Select the operational mode for radar system(s) after consultation with the LPS.
- ☒ 4. Complete the appropriate preflight calibrations and check lists as specified in the radar operator's manual.

### In-Flight

- ☒ 1. Remind the AOC data technician to start the radar capture files.
- ☒ 2. Operate the system(s) as specified in the operator's manual and as directed by the LPS or as required for aircraft safety as determined by the AOC flight director or aircraft commander.
- ☒ 3. Maintain the Radar Scientist's form as well as 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.

### Post flight

- ☐ 1. Complete the summary checklists and all other appropriate forms.
- ☐ 2. Obtain from the AOC data technician all radar tapes and give him a thumbnail drive to download the radar capture files.
- ☐ 3. Brief the LPS on equipment status and turn in completed forms, the thumbnail drive, and all radar tapes to the LPS. [Note: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]
- ☐ 4. Debrief at the base of operations.
- ☐ 5. Determine the status of future missions and notify MGOc as to where you can be contacted.

### HRD Radar Scientist Check List

Flight ID: 110826HI

Radar <sup>Scientist</sup> Operators: LORSOLO

Radar Technician: BOSKO

Number of DAT tapes on board: \_\_\_\_\_

Component Systems Status(Up ↑, Down ↓, Not Available N/A, Not Used O):

Device	Pre-flight	In-flight	Post-flight	R/T Serial #
Radar Computer				
DAT drives				
Lower Fuselage antenna				
Tail Antenna				

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

### Radar Post flight Summary

Number of DAT tapes used: \_\_\_\_\_

Significant down time:

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

DAT drives \_\_\_\_\_ Radar TA \_\_\_\_\_

Other Problems:

We had to reset the TA ~~for~~ a few times  
but no major ~~the~~ problems.



# HRD Radar Event Log

Flight ID 11082641 Storm Name Hurr. IRENE Sheet 1 of 2  
 Radar Scientist LORSOLO Radar Technician Bosko

LF RPM 10 TA RPM 10

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

Tape #	F/AST On?	Event Time (HHMMSS)	Event
	✓		
		195700	Take-off
		2005	Start recording radar data -
			Pass #1:
		210500	Start Time of penetration
			Lat 30° 17' Long. 77.21
		2129	Center position.
			Storm motion 360, 12
			Lat 31° 45' Long 77° 15"
		2201	End of penetration
		2301	End of downwind
			Pass #2
		2301	Start
		2330	Center position
			motion: 025 10 kt
			Lat 32° 03' Long 77° 05'
		2353	End penetration
		2418	End of Downwind

## HRD Radar Problem Log

Flight ID \_\_\_\_\_ Storm Name \_\_\_\_\_ Sheet \_\_\_\_ of \_\_\_\_  
 Radar Scientist \_\_\_\_\_ Radar Technician \_\_\_\_\_

(Include times of when recording ended and was restarted)

[illegible]



## Doppler Wind parameters

### Doppler flight-leg notes (for use in automatic QC and analysis)

FLIGHT ID: 110826 H1

**Scientist:** LORSOLO

[illegible]