Radar Scientist

Flight ID 20111027H1 **Storm Name** RINA

Radar Scientist Marks **Radar Technician** Lynch

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

X 1. Determine the status of equipment and report results to the lead project scientist (LPS).

X 2. Confirm mission and pattern selection from the LPS.

X 3. Select the operational mode for radar system(s) after consultation with the LPS.

X 4. Complete the appropriate preflight calibrations and check lists as specified in the radar operator's manual.

In-Flight

X 1. Remind the AOC data technician to start the radar capture files.

X 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.

X 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

X 1. Complete the summary checklists and all other appropriate forms.

X 2. Obtain from the AOC data technician all radar tapes and give him a thumbnail drive to download the radar capture files.

X 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.]

X 4. Debrief at the base of operations.

X 5. Determine the status of future missions and notify MGOC as to where you can be contacted.

HRD Radar Scientist Check List

Flight ID: 2011 1027H1

Radar Operators: Marks

Radar Technician: Lynch

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	✓	✓	✓	[redacted]
DAT drives	✓	✓	✓	
Lower Fuselage antenna	✓	✓	✓	
Tail Antenna	✓	✓	✓	

Time correction between radar time and digital time: _____

Radar Post flight Summary

Number of DAT tapes used: 1

Significant down time:

Radar Computer NA Radar LF NA

DAT drives NA Radar TA NA

Other Problems:

HRD Radar Event Log

Flight ID 20111027H1 **Storm Name** RINA **Sheet** 1 **of** 1
Radar Scientist Marks **Radar Technician** Lynch

LF RPM 2 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
		111445	takeoff KMCF
		124600	radar recording on, in
			descent to 8000'
		1250	at 10kft, star
		1257	start radar data in wal static
			begin leg in major N band
		1327	@ 1904 8651 TK 098
			to box NE convection
		1338	turn N TK 360
		134328	turn W TK 270 — 20nm box
		1357	turn S TK 180
		1402	hunting @ off 15nm off SW tip of [illegible]
		1403	
		1416	turn downwind 60nm S of @
		1425	end of downwindleg
		1440	@ start second box
			@ 1910 8650 1456 end leg
		1518	@ turn NNE and home
		1545	end leg.

KBOW 15
19.52
87.04

1555 end radar down
1727 land KMCF

HRD Radar Problem Log

Flight ID_____ **Storm Name** _____ Sheet ____ of ____
Radar Scientist _____ **Radar Technician**_____

(Include times of when recording ended and was restarted)

Tape #	Time (HHMMSS)	Problem