Radar Scientist

Flight ID 081108I1 **Storm** Paloma **Radar Scientist** LORSOLO

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 supplied to each operator. 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. 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.

___✓___ 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.

Post flight

___✓___ 1. Complete the summary checklists and all other appropriate forms.

___✓___ 2. Brief the 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 LPS.
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 MGOC or the hotel during a deployment.

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

HRD Radar Scientist Check List

Flight ID: 080108I1

Aircraft Number: 43

Radar Operators: LORSOLO

Radar Technician: Peek

Number of digital magnetic tapes on board: _____

Component Systems Status:

MARS _____ Computer _____

DAT1_____ DAT2 _____

LF _____ R/T Serial # _____

TA _____ R/T Serial #_____

Time correction between radar time and digital time: _____

Radar Post flight Summary

Number of digital tapes used: DAT1 _____

DAT2 _____

Significant down time:

DAT1 _____ Radar LF _____

DAT2 _____ Radar TA _____

Other Problems:

PRF : 2400 Hz

HRD Radar Event Log

Flight 08108I1 **Aircraft** 43 **Operator** LOKSOLO Sheet 1 of ____

LF RPM 10 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)

Tape #	F/AST On?	Event Time (HHMMSS)	Event
		1346	Take off
		1403	Radar starts recording
		1551	Start leg
			Track 180,
			lat 21.21
			lng -79.09
		1555	Track 190
			strong reflect. on NW Eyewall
		1605	Arriving in the eyewall
		1622	Track 240
		1629	Track 180
			exiting eye to the
		1611	→ 20°7' 79°08'
			center. 60°, Pkr. mod°
		1647	End leg.
		1659	Start leg

HRD Radar Event Log

Flight 08011081 **Aircraft** 43 **Operator** LORSOLO **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)

Tape #	F/AST On?	Event Time (HHMMSS)	Event
		1726	Track 315°
			entering eyewall
			center:
		1725	2011 7857
			Storm motion 47°, 10kt
		1744	End leg
		1756	Start leg
		1813	20.79° 78.84°
		1826	End leg
		1834	Start leg
			Track 230
		1847	center 20.34° 78.78°
		~~center~~ 1858	end leg
		1906	Start leg.
			center
		1915	20.26 78.67
		~~1~~ 1945	end leg

2040 Stop recording