

Radar Scientist

Flight ID _____ Storm _____ Radar Scientist _____

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: 080925 I

Aircraft Number: 43

Radar Operators: LORSOLO

Radar Technician: T. LYNCH

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:

AL 93 & AL 94
to be sampled.

French
Antenna

HRD Radar Event Log

Flight 080925I Aircraft 43 Operator LORSOLO 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
	<u>NY</u>		<u>AL 93 sampling</u>
<u>1</u>		<u>0759</u>	<u>Recording Radar</u>
	<u>Y</u>	<u>0800</u>	<u>Radar recording 0800Z</u>
		<u>0755</u>	<u>Take off the Turn</u>
			<u>PREF TA 2100 Hz</u>
		<u>104015</u>	<u>Start leg</u>
			<u>22° 28.8'N 68° 57.8'W</u>
			<u>Track 110°</u>
		<u>105526</u>	<u>center time</u>
			<u>22.103° - 68.86</u>
			<u>22° 6.18' 68° 51.6'</u>
			<u>Track 115</u>
		<u>110855</u>	<u>End leg</u>
			<u>21° 60.7' - 67.507°</u>
		<u>112530</u>	<u>Start leg</u>
			<u>21° 8.6' 68 41.9'</u>
			<u>Track 14°</u>
		<u>1130</u>	<u>Radar pbs -</u>

HRD Radar Event Log

Flight 08092511 Aircraft 43 Operator WRSolo Sheet 2 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
		1132	Restarted
			center line
		1137	Radar stopped
		1138	Restarted
		1132	center line
			22° 41' 68° 250
		1140	22° 27' 68° 23'
			(wind shift)
		115400	End leg
			23° 11.5' 08.14-8
			Ferry to AL 94
			10 kts storm mot
			360°
			AL 94
		140652	Start leg
			31.394 -76.05
			Track 325°

HRD Radar Event Log

Flight 080925I Aircraft 43 Operator LCRSL Sheet 3 of 3

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)

[illegible]

FLIGHT ID: 080925I

Doppler Wind parameters

Scientist: LORSULA.

[illegible]