Radar Scientist

Flight ID 090827I2 **Storm Name** DANNY

Radar Scientist LORSOLO **Radar Technician** NAEHER

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: 090827I2

Radar Operators: LORSOLO

Radar Technician: NAEHER

Number of DAT tapes on board: 1

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: _____

Significant down time:

Radar Computer _____ Radar LF _____

DAT drives _____ Radar TA _____

Other Problems:

HRD Radar Event Log

Flight ID 090827I2 Storm Name DANNY Sheet 1 of 1
Radar Scientist LORSOLO Radar Technician NAGHER

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
	Y	201500	Start recording (LF & TA)
		214215	Start leg 1
			@ 27°N 74.9° W
		220539	• Low-level circulat approx. positn
			@ 28° N 72.95 W
			• Descent to 10K feet.
		221100	• Adjust LF tilt angle
		222308	• Mid-level center approx. positn. 27.99 N 71.51 W
		224800	End leg 1
		231734	Start leg 2
		234040	End leg 2
		243610	Start leg 3 @ 29.99°N 69.47 W
		253031	End leg 3 @ 29.48° N 71.66 W.
		033426	landed in MacDill

Doppler Wind parameters

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

FLIGHT ID: **Scientist:**

Leg Start Time	Leg End Time	Storm Motion		Center Fix			Max Radius (km)	Horz. Res (km)	Inbound track	Outbound track	ja?	Angle check?	Sent?
				Time	Latitude	Longitude							
HHMMSS	HHMMSS	Degrees	Knots	HHMMSS	(Deg/Min)	(Deg/Min)	49/98/147/196	1/2/3/4	Azimuth (deg)	Azimuth (deg)	H/TS	(Y/N)	(Y/N)
224215	224800	300	5	225308	27.995	71.518	245 km	5	90	90	Y	N	Y
231736	242610	300	5	233024	29.03	70.48	245	5	186	183	Y	N	Y
243610	253031	300	5	250706	27.99	70.64	240	5	330	330	Y	N	Y