WX WXA 9202

Radar Scientist

Flight ID 100912I1 **Storm Name** AL92

Radar Scientist S. Murillo **Radar Technician** Dana 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

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

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

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

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

In-Flight

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

SM 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.

SM 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

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

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

SM 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.]

SM 4. Debrief at the base of operations.

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

HRD Radar Scientist Check List

Flight ID: 100912I1

Radar Operators: S-Murillo

Radar Technician: Dana Naeher

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	↓	↑	↓	[redacted]
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 100912I1 **Storm Name** AL92 Sheet ____ of ____
Radar Scientist S.Murillo **Radar Technician** Dana Naeher

LF RPM _____ TA RPM _____

(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
		200330	take off from MacDill
		203659	radar ON French atenna
		2309	@IP
		232830	radar froze
		233062	back on
		005831	sector mode
		025140	stopped collecting
		041543	landed in St. Croix

100912i1.xmt

Doppler Wind parameters

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

15.8 72.1 16Z

FLIGHT ID: 100912I1 **Scientist:** S.Murillo

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)	
230957	000310	285	14	2341	16° 7"	73° 39"	245	5	138°	150°	TS	Y	Y	
000410	002018								21°					
002450 (2424)	250 015103 (2555)	231	12	0048	16° 0"	73° 40"	245	5	270°	270	TS	N	Y	
015510	013708 (2537)								150°					
013600 (2536)	022305 (2623)	231	12	020325	16° 6	73° 46"	245	5	30°	31°	TS	N	Y	old school