

Mission ID W407A Ear14

Radar Scientist

Flight ID 100829T1 Storm Name Ear1

Radar Scientist S. Muriilo Radar Technician Dana Naehor

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

- 84 1. Determine the status of equipment and report results to the lead project scientist (LPS).
- 84 2. Confirm mission and pattern selection from the LPS.
- 84 3. Select the operational mode for radar system(s) after consultation with the LPS.
- 84 4. Complete the appropriate preflight calibrations and check lists as specified in the radar operator's manual.

In-Flight

- 84 1. Remind the AOC data technician to start the radar capture files.
- 84 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.
- 84 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

- 84 1. Complete the summary checklists and all other appropriate forms.
- 84 2. Obtain from the AOC data technician all radar tapes and give him a thumbnail drive to download the radar capture files.
- 84 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.]
- 84 4. Debrief at the base of operations.
- 84 5. Determine the status of future missions and notify MGOc as to where you can be contacted.

HRD Radar Scientist Check List

Flight ID: 100829I1

Radar Operators: Shirley 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	↓	↑	↓	X
DAT drives	↓	↑	↓	X
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:

280115

17 31' -59 16' near center 20272

Doppler Wind parameters

7546 10

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

FLIGHT ID: 100829II

Scientist: S. Morillo

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)
203134	211710	255	12	2056	17°33.4	59°39.2	245	5	315	317	H	N	Y
211710	2130								182°	184°			
214510	2227	290	13	2203	17 ³⁵ 36	59°57"	245	5	42°	46°	H	N	
2227	2241								303°				
224636	2339	290	13	2306	17°57"	60°16"	245	5	181°	184°	H	N	Y
2342	2358- 01154								38°	36°			
01249 (2412)	0102	285	15	003850	17°44"	60°31"	245	5	271°	280°	H	N	Y
0104	011747 (517)								142°	149°			

down
windend of
leg