Radar Scientist

Flight ID 100901 I 1   **Storm Name** Earl

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

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.]

_____ 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 Event Log

10.10.1,80

Flight ID 100901I1   **Storm Name** Earl   Sheet 1 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
		192142	take off from Barbados
		198622	radar started recording
		212310	sector mode
		230507	radar froze
		231451	radar back up
		231910	locked up
		232234	radar back up
		232234	at IP (done with sector mode)
		224533	eyewall (East)
		235010	eye 26°58" 73°25" 2350
		2352	eyewall West
		001504	turning 001628
		002550	decending to 7K
		004530	turning (heading north)
		004800	sector mode
		005225	radar down
		10053	radar backup
		005500	sector mode
		011102	eyewall (south)
		011322	center 27°22" 73°35"
		0017	eyewall (north)
		013710	turning / west
		014725	climbing to 9K
		020845	reached FP (back to full sweeps)
		032110	landed in MacDill

Doppler Wind parameters

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

FLIGHT ID: 100901 I1   **Scientist:** S. Murilb

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)
232234	241604	300	11	2350	26°58"	73°25"			265°	270	H	N	Y
241504	003810 (2438)								127°	127°			
(2448) 243910	013710	300	16	0143	27°21"	73°38"			0°	0°	H	N	Y
013711	014735								260°				