Radar Scientist

Flight ID _O9O826I1_ Storm Name _AL 92 → TS Dany_

Radar Scientist _P. Leighton_ Radar Technician _B. Peek_

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

_WX wx A AL92_

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

[initials] 2. Confirm mission and pattern selection from the LPS.

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

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

In-Flight

[initials] 1. Remind the AOC data technician to start the radar capture files.

[initials] 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.

[initials] 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

[initials] 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. _No thumbshil to edonletn_

[initials] 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.]

[initials] 4. Debrief at the base of operations.

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

HRD Radar Scientist Check List

Flight ID: _090826 I 1_

Radar Operators: _P. Leighton_

Radar Technician: _B. Peek_

Number of DAT tapes on board: _5+_

Component Systems Status(Up ↑, Down ↓, Not Available **N/A**, Not Used **O**):

Device	Pre-flight	In-flight	Post-flight	R/T Serial #
Radar Computer	↑	↑	↑	
DAT drives	↑	↑	↑	
Lower Fuselage antenna	↑	↑	↑	?
Tail Antenna	↑	↑	↑	?

Time correction between radar time and digital time: _7 sec_

Radar Post flight Summary

Number of DAT tapes used: _~~2~~ 1 for radar_

Significant down time:

Radar Computer _____   Radar LF _1 Bump_

DAT drives _____   Radar TA _____

Other Problems:

HRD Radar Event Log

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Radar Scientist P. Leighton Radar Technician B Peck

LF RPM 2 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
1	✓	083000	Radar up and Recording
1		~130000	LF down ~ 1 min
		~150000	Stop recording

HRD Radar Problem Log

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Radar Scientist __P. Loughe__ Radar Technician __J. Roch__

(Include times of when recording ended and was restarted)

Tape #	Time (HHMMSS)	Problem
	120000	LF down restart ~1 min

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

FLIGHT ID: 090826I1 **Scientist:** P. Leighton

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			Azimuth (deg)	Azimuth (deg)			
HHMMSS	HHMMSS	Degrees	Knots	HHMMSS	(Deg/Min)	(Deg/Min)	49/98/147/196	1/2/3/4			H/TS	(Y/N)	(Y/N)
105300	113000	290	20	111200	22.5	-69.00	196	4	90	90	✓	No	Y
113500	121700	290	20	115500	23.7	-69.33	192	4	305	305	✓	No	Y
121800	125600	290	20	124200	24.5	68.75	196	4	90	90	✓	No	Y
125700	134300	290	20	132000	?	?	196	4	305	305	No	No	No