

Flight ID 120827H2 Storm Isaac Radar Scientist Reason

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

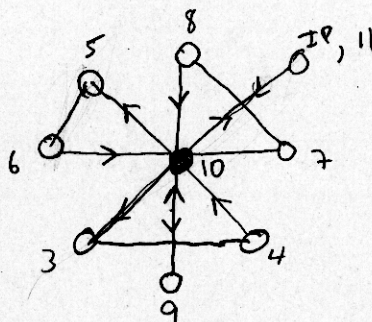
- 1. Determine the status of equipment and report results to the lead project scientist (LPS).
- 2. Confirm mission and pattern selection from the LPS.
- 3. Select the operational mode for radar system(s) after consultation with the LPS.
- 4. Complete the appropriate preflight calibrations and check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

In-Flight

- 1. 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.
- 2. 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. Download all radar data files to thumb drive.
- 3. Brief the LPS on equipment status and turn in completed forms and thumb drives to the LPS.
- 4. Debrief at the base of operations.
- 5. Determine the status of future missions and notify HFP Director as to where you can be contacted.



HRD Radar Scientist Check List

Flight ID: 120827H2

Aircraft Number: N42

Radar Operators: Reason

Radar Technician: _____

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

Radar Computer _____

Lower Fuselage antenna _____

Tail Antenna _____

Time correction between radar time and digital time: _____

Radar Post flight Summary

Significant down time:

Radar LF _____

Radar TA _____

Other Problems:

Doppler Wind parameters

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

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Scientist: Reason

Leg Start Time	Leg End Time	Storm Motion		Center Fix			Max Radius (km)	Horz. Res (km)	Inbound	Outbound	ja?	Angle check?	Sent?
				Time	Latitude	Longitude							
HHMMSS	HHMMSS	Degrees	Knots	HHMMSS	(Deg/Min)	(Deg/Min)	49/98/147/196	1/2/3/4	track	track	H/TS	(Y/N)	(Y/N)
NE → SW 210016	215100	300	14	212542	26 26	86 12	245 km	5 km	225	225			Y
DW 215330	221900						↓	↓					Y
SE → NW 222045	230800	310	10	2244	26 35	86 22	↓	↓	315	315			
DW 230930	2324			2304	26 47	86 30							Y
W → E 2329	2419	340	10	2354	26 47	86 27			90	90			
DW 2420	2450												Y
N → S 2453	2542	320	12	2516	26 58	86 38			180	180			Y
S → NE 2545	2638	320	12	2611	27 06	86 59			360	45			Y

~50 mph

Note: Use every other line to indicate start and end time of downwind leg