

Radar Scientist

Flight ID _____ Storm _____ Radar Scientist _____

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: 120823H2

Aircraft Number: NOAA 42

Radar Operators: PEEK

Radar Technician: PEEK, LYNCH

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: Can't tell anymore

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)

FLIGHT ID:

Scientist:

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)
2150	2329			2232	16	67	245	5					✓
2210	2258	285	14										✓
2330	2441			2355	16/9	67/50	245	5					
2330	2417												
2441													
2441	2529			25									
2530	2620			2555	16	68/40							

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