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**Radar Scientist**

Flight ID 120822HI Storm TS ISAAC Radar Scientist Gomache

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: 120822HI

Aircraft Number: NOAA 42

Radar Operators: Bobby Peck, Terry Lynch

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: Crew 4 fell asleep

**Radar Post flight Summary**

**Significant down time:**

Radar LF \_\_\_\_\_

Radar TA \_\_\_\_\_

**Other Problems:**



Wig kg

### 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)
2059	2145	270	18	2122	16	61 20							
2059	2221												
2222	2314	260	18	2246	15.68	61.77							
2222	2334												
2334	2426												
2334	2459												
2500	2610	270	18	2529	15.7	62.4							
2500	2555												

18 16 60 24 21 16 60 21 22 12 2155 1544 6125

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