

## Radar Scientist

Flight ID 2071007H1 Storm Hurricane Nate

Radar Scientist Holbach Radar Technician Peak/Lynch

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 status of equipment and report results to 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 check list.

### In-Flight

- \_\_\_ 1. Monitor the Tail Doppler Radar function regularly, using the real-time TA display, to make sure the Doppler radar is scanning and working normally.
- \_\_\_ 2. Once at the IP, request that the tilt be adjusted to remove sea clutter.
- \_\_\_ 3. Request that the LF radar is set to full scan (non-sector mode) for first Figure 4.
- \_\_\_ 4. Maintain the Doppler Wind Parameter form as well as a written commentary in the Radar Event Log of event times, such as ending and restarting of radar recording. Also document any equipment problems or changes in R/T, INE, or signal status.

### Post flight

- \_\_\_ 1. Complete the summary checklist and all other appropriate forms.
- \_\_\_ 2. Download all Belly (LF) scan radar data files to thumb drive.
- \_\_\_ 3. Download all tar'd (TA) radar data files to thumb drive.
- \_\_\_ 4. Brief the LPS on equipment status and turn in completed forms and thumb drives to the LPS.
- \_\_\_ 5. Debrief at the base of operations.
- \_\_\_ 6. Determine the status of future missions and notify HFP Director as to where you can be contacted.

**HRD Radar Scientist Check List**

Flight ID: 20171007 H1

Aircraft Number: NOAA42

Radar Scientist: Holbach

Radar Technician: Peak/Lynch

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

Radar Computer \_\_\_\_\_

Lower Fuselage (LF) Antenna \_\_\_\_\_

Tail (TA) Antenna \_\_\_\_\_

**Radar Post flight Summary**

Significant down time:

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

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

**Other Problems:**





# Doppler Wind parameters

Flight ID: 20171007A1

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

Scientist: Holbach

Leg Start Time	Leg End Time	Storm Motion		Center Fix			Inbound	Outbound	Max Radius (km)	Horz. Res (km)	Sent ?
				Time	Latitude	Longitude					
HHMMSS	HHMMSS	Degrees	Knots	HHMMSS	(Deg/Min)	(Deg/Min)	track	track	Default = 245	Default = 5	(Y/N)
0901Z	0951		20	0926Z	24°42'	87°21'	180°	180°			
1023Z	1108Z			1047Z	25°16'	87°33'	270°	270°			
1131Z	1205Z			1147Z	25°34'	87°56'	045°	045°			
1229Z	1310Z			1251Z	25°54'	88°3'	135°	135°			

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