

## Radar Scientist

Flight ID 2015082871 Storm ERIKA Radar Scientist Klotz

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 realtime TDR display, to make sure the Doppler radar is scanning and working normally.
- \_\_\_\_\_ 2. 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 Tail (TA) 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: 20150828II

Aircraft Number: NOAA 43

Radar Scientist: Klotz

Radar Technician: Richards

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

Radar Computer ↑

Lower Fuselage (LF) Antenna ↑

Tail (TA) Antenna ↑

Time correction between LF radar time and digital time:     

TA Radar Parameters:

(Single/Dual) PRF 200 F/AST (Y/N) Rotation Rate      RPM

Sweeps/File      Record 2<sup>nd</sup> Trip (Y/N) (Circle appropriate status)

### Radar Post flight Summary

Significant down time:

Radar LF     

Radar TA     

Other Problems:

## HRD Radar Event Log

Flight ID 20150828I1 Aircraft NOAA 43  
 Radar Scientist Klotz Radar Technician Richards

(Include down time and times of when recording ended and was restarted)

[illegible]



## Doppler Wind parameters

[illegible]