

## **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 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.

## Doppler Wind parameters

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