

## Radar Scientist

Flight ID 180904112 Storm Oordun

Radar Scientist Ryers Radar Technician Mascaro

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: 180904 H2

Aircraft Number: N42RF

Radar Scientist: Ruggs

Radar Technician: Mascaro

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

Radar Computer ↑

Lower Fuselage (LF) Antenna ↑

Tail (TA) Antenna ↑

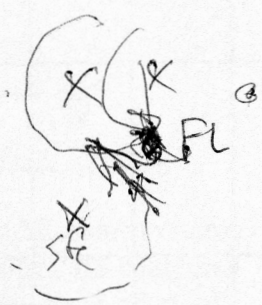
**Radar Post flight Summary**

Significant down time:

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

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

**Other Problems:**



### HRD Radar Event Log

Flight ID \_\_\_\_\_ Storm \_\_\_\_\_

Radar Scientist \_\_\_\_\_ Radar Technician \_\_\_\_\_

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

0314 30° 19'  
88° 27'  
mark center,  
track 90

Time (HHMMSS)	Event
2310	HP, begin inboard leg, track 315
2336	29° 42' 87° 51' - center turn to track 45
2348	end outboard leg, turn track ~270, beach parked
0006	end E-W leg, <del>turn to track 135</del> orbiting at NW point while FD takes care of some things
0014	turn south, then will set up toward east to center
0021	turn to track 90 to center
0029	29° 50' 87° 54' mark center
0030	turn to track 45, outboard
0035	end outboard, turn to track 270
0045	turn to track 180
0053	turn to track 90, inboard
0100	29° 59' 88° 03' mark center turn to track 45, then 90
0112	turn to track 180
0123	30° 01' 88° 07' mark, track 270, then center
0149	turn track 90, inboard

Rankband leg  
0354  
start rankband leg  
track 180, then 195, now 140

0407  
end of RB include

0154 30° 07' 88° 15' mark, outboard 090  
0211 turn 180 to track 270  
0219 30° 07' 88° 21' turn to 270, circle center  
0238 turn to track 90, inboard