

## Radar Scientist

Flight ID 20170922 H1 Storm MANTA

Radar Scientist Jim Kelley Radar Technician Nike Malsano

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: \_\_\_\_\_

Aircraft Number: \_\_\_\_\_

Radar Scientist: \_\_\_\_\_

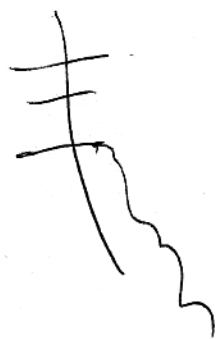
Radar Technician: \_\_\_\_\_

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:

*Handwritten notes:*  
 29.20  
 (circled scribbles)  
 Coyote

*Handwritten summary:*  
 4500 - 1.5 min  
 4000 - 8 min  
 3000 - 8 min  
 2000 - 8 min  
 1000 - 8 min  
 800 - 10 min  
 (inflation module)  
 DMZ pointing down

### HRD Radar Event Log

Flight ID 20170923H1 Storm María

Radar Scientist Jay Kelly Radar Technician Arbe

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

| Time<br>(HHMMSS) | Event                  |
|------------------|------------------------|
|                  | PIR 2 analyses sent to |
|                  | EML                    |
|                  |                        |
|                  |                        |
|                  |                        |
|                  |                        |
|                  |                        |
|                  |                        |
|                  |                        |
|                  |                        |
|                  |                        |

