

## Radar Scientist

Flight ID 20170924H2 Storm Manta

Radar Scientist Jim Kelly Radar Technician Nike Macosano

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.

## Doppler Wind parameters

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

Scientist: Jim/Kelly

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