Radar Scientist

| Flight | 1D_2 | Opag224/ Storm Marie | | | | | | | | | |
|--------------|----------|--|--|--|--|--|--|--|--|--|--|
| Radai | r Scient | ist Jun / Kelly Radar Technician Mike Marseur | | | | | | | | | |
| Th on his | e on-bo | pard radar scientist is responsible for data collection from all radar systems igned aircraft. Detailed operational procedures and checklists are contained r's manual. General supplementary procedures follow. (Check off or initial.) | | | | | | | | | |
| Prefli | ght | | | | | | | | | | |
| \checkmark | | Determine status of equipment and report results to lead project scientist (LPS). | | | | | | | | | |
| | 2. | Confirm mission and pattern selection from the LPS. | | | | | | | | | |
| <u>~</u> | 3. | Select the operational mode for radar system(s) after consultation with the LPS. | | | | | | | | | |
| | 4. | Complete the appropriate preflight check list. | | | | | | | | | |
| In-Fli | ght | | | | | | | | | | |
| | 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 f | light | | | | | | | | | | |
| | 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

| Flight ID: | 201709 | 922H1 | | Doppler flight-leg notes (for use in automatic QC and analysis) | | | | Scientist: Jun/ Kelly | | | |
|-------------------|-----------------|---------|--------|---|-----------|-----------|---------|-----------------------|---------------|-------------|-------|
| Leg Start Time | Leg End Time | Storm | Motion | Center Fix | | | Inbound | Outbound | Max Radius | Horz. Res | Sent |
| | | | 12. | Time | Latitude | Longitude | | | (km) | (km) | ? |
| HHMMSS | HHMMSS | Degrees | Knots | HHMMSS | (Deg/Min) | (Deg/Min) | track | track | Default = 245 | Default = 5 | (Y/N) |
| 1920 | 1950 | 325 | 7 | 7931 | 23.105 | 71/23 | 135 | 135 | | | |
| 2010 | 20/12 | 325 | 7 | 2029 | 2314 | 71/63 | 225 | 225 | | · | |
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