Dropsonde Scientist

Flight ID 2017082512
Mission ID 18OR A Harvey

Dropsonde Scientists B. Klotz

AVAPS Operators McAlister

The Lead Project Scientist (LPS) on the P3 is responsible for determining the distribution patterns for dropwindsonde releases. Predetermined desired data collection patterns are illustrated on the flight patterns. However, these patterns are often altered because of clearance problems, etc. Operational procedures are contained in the operator's manual. On the G-IV the sole HRD person is designated the LPS. The following list contains more general supplementary procedures to be followed. (Check off or initial.)

Preflight

✓ 1. Determine the status of the AVAPS and HAPS or workstation. Report results to the LPS.

✓ 2. Confirm the mission and pattern selection with the LPS and assure that enough dropsondes are on board the aircraft.

✓ 3. Modify the flight pattern or drop locations if requested by AOC to accommodate changes in storm location or closeness to land.

✓ 4. Complete the appropriate preflight set-up and checklists.

In-Flight

✓ 1. Operate the system as specified in the operator's manual.

✓ 2. Ensure the AOC flight director is aware of upcoming drops.

✓ 3. Ensure the AVAPS operator has determined that the dropsonde is (or is not) transmitting a good signal. Recommend if a backup dropsonde should be launched in case of failure.

✓ 4. Report the transmission of each drop and fill in the Dropwindsonde Scientist Log.

Post flight


✓ 2. Download all raw and processed AVAPS files to thumbdrive

✓ 2. Brief the LPS on equipment status and turn in completed forms and thumbdrive.

✓ 4. Debrief at the base of operations.

✓ 5. Determine the status of future missions and notify MGOC as to where you can be contacted.
# N42/3RF HRD GPS Dropwindsonde Scientist Log (Revised 5/2002)

- **Storm:** Hurricane Harvey
- **Dropwindsonde Scientists:** B. Klotz
- **Flight Director:** Mike Holmes
- **AVAPS Operators:** McAllister
- **Takeoff from Lakeland** at **1401 UTC**
- **Recovery at Lakeland** at **2312 UTC**

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<th>Time (UTC)</th>
<th>Lat (°N)</th>
<th>Lon (°W)</th>
<th>Surface Pressure (mb)</th>
<th>Wind closest to surface dir/spd hgt (kt)</th>
<th>SST (°C)</th>
<th>EYE, Eyewall, Rainband (direction)</th>
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- **Flight ID:** 20170525H1
- **Mission ID:** 1809A
- **Comments:**
  - Standard (W.E. Eyewall)
  - Max wind (N) eyewall
  - Backside eyewall
  - Center
  - Core (indicated by)
  - Endpoint (S) - BT erratic did not see
  - Endpoint (E)
  - Max wind (ESE)
  - Center
  - Max wind (W), WRFST
  - Endpoint (W), spotters
  - Max wind (S)
  - Max wind (E), ENE
  - Not sure of
  - Low wind, low levels
  - Corrected RPM
  - Max wind (E)
  - Max wind (NE)
  - Max wind (NE)
  - Max wind (NE)