

Dropsonde Scientist

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 often are required to be 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. 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

- ☒ 1. Complete Dropwindsonde Scientist Log.
- ☒ 2. Brief the LPS on equipment status and turn in completed forms.
- ☒ 3. Hand-carry all dropwindsonde data tapes or CDs as follows:
 - a. Outside of Miami-to the LPS or PI.
 - b. In Miami-to AOML/HRD.[Note: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]
- ☒ 4. Debrief at the MGOc or the hotel during a deployment.
- ☒ 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 H. Dennis Dropwindsonde Scientists S. Murillo, P. Leighton Page 1 of 1
Flight ID 05070941 Flight Director Paul Flaherty Takeoff from MROC at 050016 UTC
Mission ID 1204A Dennis AVAPS Operators Sean McMillan Recovery at JAX NAS at 124038 UTC

[illegible]