

## Dropsonde Scientist

Flight ID 20180913 H1 Storm Isaac Dropsonde Scientist Sellwood

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.

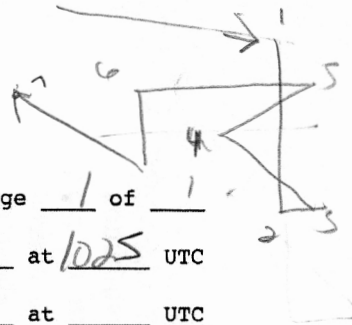
### In-Flight

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.

N49RF HRD GPS Dropwindsonde Scientist Log (Revised 5/2002)



Storm Isaac Dropwindsonde Scientists Sellwood Page 1 of 1  
 Flight ID 1309A Flight Director Holmes Takeoff from STX at 1025 UTC  
 Mission ID 2080913H1 AVAPS Operators Underwood Recovery at \_\_\_\_\_ at \_\_\_\_\_ UTC

Drop #	Sonde ID #	Time (UTC)	Lat (°N)	Lon (°W)	Surface Pressure (mb)	Wind closest to surface		DLM wind (kt)	Comments	Processed	SATCOM tries	Ob #
						dir/spd (kt)	hgt (m)					
1	112240-P1	1122	1725	6061	10099	85/37	10		IP (N)			2
2	113631-P2	1136	1630	6060	10087	75/37	10		mid			3
3	115742-P3	1157	1498	6075	10065	135/12	10		center (ft M wind)			4
4	122802-P4	1228	1408	5976	1008.3	145/18	10		END (SE)			6
5	125257-P1	1252	1500	6120	10069	15/17	12		center (pr carcan)			7
6	132121-P2	1321	1628	6000	10100	105/27	10		EP (NE)			9
7	134718-P3	1347	1665	6194	10097	70/29	10		EP (N)			11
8	141452-P4	1414	1490	6150	10070	210/09	10		Center			12
9	144224-P1	1442	1615	6289	10053	60/24	10		EP (NW)			14

3) flight level center further to the south - too close to land to drop  
 6) further check for wind directions for unknown reasons