

Dropsonde Scientist

Flight ID 201081242 Storm Fral Mission ID 0706A
Dropsonde Scientists Sellwood Take off 2003 Level 120
AVAPS Operators Underwood

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

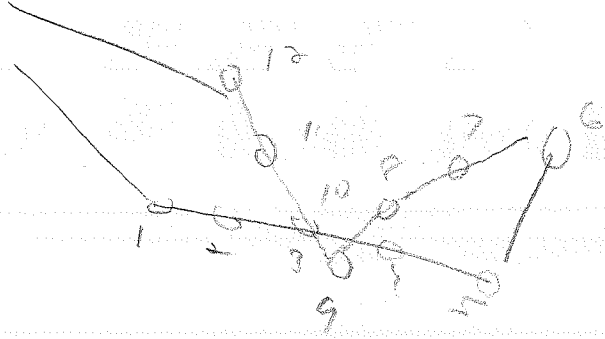
- 1. Determine the status of the AVAPS and workstation. Report results to the LPS.
- 2. Confirm the mission and pattern selection with the LPS and assure that enough dropsondes are on board the aircraft.
- 3. Modify the flight pattern or drop locations if requested by AOC to accommodate changes in storm 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

- 1. Complete Dropwindsonde Scientist Log.
- 2. Download all raw and processed AVAPS files to thumbdrive
- 3. 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 Field Program Director as to where you can be contacted.



NOAA P-3 GPS Dropwindsonde Scientist Log (revised March 2019)

Storm Fred
Mission ID 0706A (exp. 0213A)

Flight ID 20010812H2
Dropsonde Scientist Selwood
Dropsonde Scientist
AVAPS Operator Underwood
AVAPS Operator

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Drop #	Sonde ID	Time UTC	Lat (°N/S)	Long (°E/W)	Sfc. Pressure (mb)	Wind closest to		SST (°C)	Eye/Eyewall, Rainband, etc.	Ob #
						Dir/Spd (deg/kt)	Hgt (m)			
1	200311659	2108	2255	-7759	1014	050/13	10			1
Comments	1P NW/SE dry < 800mb									
2	200440390	2148	2211	-7676	1013	070/17	10			2
Comments	mid in bo									
3	200721620	2152	2170	-7599	1012	055/09	10			3
Comments	"center"									
4	2003090284	2205	2120	-7508	1012	210/07	10			4
Comments	midpoint and inbound									
5	200220545	2219	2073	-7429	1014	265/19	10			5
Comments	end point turn toward SE									
6	200220545	2259	2073	-7429	1014	265/19	10			X
Comments	NLD									
7	200721608	2300	2254	-7384	1015	105/07	10			6
Comments	end NE									
8	203040019	2313	2202	-7446	1015	115/29	12			7
Comments	mid Nelson									
9	202721606	2328	2113	-7510	1012	205/27	10			8
Comments	near estimated center location (45 LLD)									
10	203040288	2340	2186	-7517	1015	090/21	10			9
Comments	midpoint outboard									

