

## Dropsonde Scientist

Flight ID 20210914 I 1

Storm Grace

Mission ID 0107A

Dropsonde Scientists Sellwood Takeoff 1435 Land 2110

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

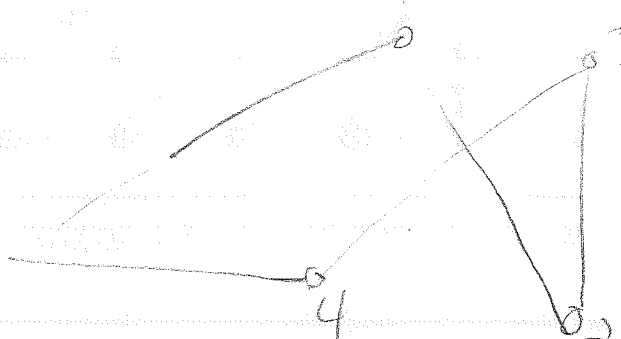
1. Determine the status of the AVAPS and workstation. Report results to the LPS.
2. Confirm the mission and pattern selection with the LPS and assure that enough dropsondes are on board the aircraft.
3. Modify the flight pattern or drop locations if requested by AOC to accommodate changes in storm location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



Storm  
Mission ID 0177A

Flight ID 2010841A  
(exp. 0213A)

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

Dropsonde Scientist *Schwab*  
Dropsonde Scientist  
AVAPS Operator *Underwood*  
AVAPS Operator

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	20620559	1702	17.46	-59.9	1014	045/25	10			1
Comments IP NW										
2	200730570	1734	15.74	-59.81	1014	305/02	12			2
Comments Center										
3	203520174	1758	14.71	-58.67	1014	150/05	10			3
Comments Endpoint SE end 158.75										
4	202721728	1831	16.79	-59.14	1013	135/17	10			4
Comments end downwind leg IP NE end 157.75										
5	202721627	1852	15.77	-60.04	1013	180/12	10			5
Comments Center end 154.75										
6	202730013	1853	15.68	-60.04	1012	200/06	10			6
Comments center 2nd guess										
7	202730073	1915	14.66	-60.28	1013	135/02	10			7
Comments End point SW (more to south - tried to get a west wind) end 154.25										
Comments										
Comments										
Comments										