

## Dropsonde Scientist

Flight ID 2020100511 Storm DELTA Mission ID 0126A

Dropsonde Scientists \_\_\_\_\_

AVAPS Operators \_\_\_\_\_

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.

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

Storm  
Mission ID 0126A (exp. 0213A)

Dropsonde Scientist  
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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.	Obs #
						Dir/Spd (deg/kt)	Hgt (m)			
1		1734							transit 1	4
Comments	first drop off SW FL coast									
2		1756							transit 2	5
Comments										
3		1844	19°5'	80°49'					transit 3	7
Comments										
4		1907							IP NW	8
Comments	Corrected → A08									
5		1921	16°44'	80°05'					midpt NW	9
Comments	Corrected → A09									
6		1940	16°8'	79°14'					center	12
Comments										
7		1956	15°26'	78°32'					midpt SE	13
Comments										
8		2009	14°56'	77°53'					endpt SE	15
Comments										
9		2036	16°2'	78°6'					top of spiral	16
Comments										
10		2104							empt NE	19
Comments										



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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)			
11		2116	16°44'	78°36'					midpt NE	21
Comments	Drop lost signal at ~ 8500ft									
12		2122	16°27'	79°13'					RMW NE	22
Comments										
13		2125	16°15'	79°19'					Center	23
Comments										
14		2131	16°10'	79°23'					RMW SW	25
Comments	did not reach surface									
15		2145	15°24'	80°06'					midpt SW	27
Comments										
16		2155	14°59'	80°38'					endpt SW	28
Comments										
17		2228	15°06'	78°15'					endpt SE	29
Comments										
18		2239	15°40'	78°50'					midpt SE	30
Comments										
19		2252	16°20'	79°28'					RMW SE	32
Comments										
20		2256	16°26'	79°30'					center	33
Comments										

