

## Dropsonde Scientist

Flight ID 20190810HI Storm EP95 Mission ID \_\_\_\_\_

Dropsonde Scientists Bucci

AVAPS Operators RICHARDS/DELGADO

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

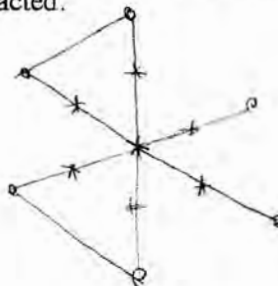
- 1. Determine the status of the AVAPS and workstation. Report results to the LPS.
- 2. Confirm the mission and pattern selection with the LPS and assure that enough dropsondes are on board the aircraft.
- 3. Modify the flight pattern or drop locations if requested by AOC to accommodate changes in storm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



o = drops

\* = BT + drops

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

Storm EP95

Flight ID 20190618H1

Dropsonde Scientist BUCCI

AVAPS Operator RICHARDS

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Mission ID WBWXE

(exp. 0213A)

Dropsonde Scientist

AVAPS Operator DELGADO

Drop #	Sonde ID (serial number)	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 ✓✓	182610004	140411	12°N	89.84°W	1010.5	165/8	44			
Comments	10kft clear to surface transmitted @ surface, ended time @ 307									
2 ✓✓	182620808	141635	12°N	90.75°W	1009.5	175/14	10			
Comments	2 BTs launched - both bad mid pt ended sonde @ 296.5									
3 ✓✓	182310553	143512	11.9°N	92.02°W	1010.2	190/4	10	27		
Comments	2 BTs launched, center drop clear w/ few shallow clouds <sup>uncertain</sup> not adding to TEMP									
4 ✓✓	182840477	145652	11.9°N	93.52°W	1010.4	330/15	10			
Comments	2 BTs, mid pt large wind data gap 800-900mb									
5 ✓✓	182840446	151708	11.9°N	95.03°W	1011.9	350/6	10			
Comments	End pt ~21kft drop									
6 ✓✓	182730282	155228	10.07°N	93.06°W	1011.6	310/8	634			
Comments	End pt ~19 kft drop bad wind 940-surface									
7 ✓✓	182830069	160707	11.01°N	92.54°W	1011.7	280/5	10	28/28		
Comments	2 BTs mid pt @ 10kft 2 good BTs dry low level ~60-70RH terminate drop @ 2975									
8 ✓✓	182830056	163426	12.71°N	91.55°W	1010.6	140/13	10	28		
Comments	Terminate drop 299.25 outbound mid pt									
9 ✓✓	182620836	164754	13.5°N	91.08°W	1011.9	120/10	361			
Comments	NE end pt bad low level winds 970mb - sfc									
10 ✓✓	182620835	170042	13.72°N	92.16°W	1011.1	75/20	10			
Comments	mid downwind									

