

### Dropsonde Scientist

Flight ID 20201008E1 Storm Delta Mission ID 1726A Delta

Dropsonde Scientists Dunn, Rogers

AVAPS Operators McAllister

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  
Mission ID

Flight ID  
(exp. 0213A)

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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.	Ob #
						Dir/Spd (deg/kt)	Hgt (m)			
1		2308	26°58'	93°38'					N end pt	1
Comments										
2		2321	26°03'	93°38'					N mid	2
Comments <b>WLD</b>										
3		2322	26°00'	93°38'					N mid back edge	3
Comments										
4		2334	25°11'	93°31'					center	3
Comments										
5		2349	24°13'	93°33'					S mid	4
Comments										
6		2359	23°30'	93°33'					S end	5
Comments										
7		0033	25°24'	91°58'					E end	6
Comments BT1, BT2 → no returns										
8		0044	25°24'	92°47'					E mid	7
Comments										
9		0055	25°19'	93°37'					center	—
Comments IR sonde -80.9F, 27.1C										
10		0111	25°19'	94°43'					W mid	8
Comments										

80.9F  
27.1C

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						Dir/Spd (deg/kt)	Hgt (m)			
11		0122	25°22'	95°33'					W end	9
Comments										
12, 13		0136	24°18'	95°21'					SW end	10
Comments <i>con't from 11, IR Sounding, Mg. drop</i>										
14		0219	25°01'	94°33'					SW mid	11
Comments										
15		0229	25°23'	93°54'					out SW RMW	—
Comments										
16		0230	25°24'	93°51'					SW RMW	12
Comments										
17		0230	25°25'	93°49'					in SW RMW	—
Comments										
18		0234	25°37'	93°38'					center	13
Comments										
19		0237	25°49'	93°32'					in NE RMW	—
Comments										
20		0238	25°52'	93°31'					NE RMW	15
Comments										
21		0238	25°55'	93°29'					out NE RMW	—
Comments										

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						Dir/Spd (deg/kt)	Hgt (m)			
22	0247	0247	26°21'	93°10'					NE mid	16
Comments										
23, 24	(23) (24)	0258	26°52'	92°33'					NE end	18
Comments IR, reg. drop - 25.3C (rain?)										
25, 26	(25) (26)	0333	27°01'	95°04'					NW end	19
Comments IR, reg. drop - 28.4C										
27		0345	26°28'	94°26'					NW mid	20
Comments										
28		0357	25°55'	93°48'					NW RMW	21
Comments										
29		0359	25°52'	93°40'					center	22
Comments										
30		0404	25°37'	93°21'					SE RMW	23
Comments										
31		0415	25°08'	92°50'					SE mid	24
Comments										
32, 33	(32) (33)	0425	24°41'	92°21'					SE end	25
Comments IR, reg. drop - 25.2C										
Comments										