

Dropsonde Scientist

Flight ID 20201006II Storm Delta Mission ID _____

Dropsonde Scientists Devion, 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 *Delta*
Mission ID *0626A*

Flight ID *20201006SI*
Delta
(exp. 0213A)

Dropsonde Scientist
Dropsonde Scientist

Dunin, Roger
AVAPS Operator
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		2308	20°36'	86°11'					IP, NW	4
Comments										
2		2337	19°14'	84°36'					NW RMW	5
Comments										
3		2340	19°10'	84°28'					center	6
Comments										
4		2342	19°05'	84°21'					SE RMW	9
Comments										
5		2343	19°02'	84°18'					outside SE RMW	10
Comments										
6		0006	17°54'	83°09'					SE end point	12
Comments										
7		0040	20°25'	83°39'					NE end point	13
Comments										
8		0058	19°31'	84°35'					NE RMW	17
Comments										
9		0101	19°20'	84°42'					center	18
Comments										
10		0104	19°12'	84°50'					SW RMW	19
Comments										

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

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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)			
11		0105	19°09'	84°54'					outside SW RMW	21
Comments										
12		0126	18°06'	86°00'					SW end pt	24
Comments										
13		0156	18°22'	83°49'					SE end pt	25
Comments										
14		0214	19°17'	84°17'					outside SE RMW	28
Comments										
15		0215	19°20'	84°50'					SE RMW	
Comments										
16		0218	19°29'	84°59'					center	29
Comments										
17		0223	19°40'	85°13'					NW RMW	31
Comments										
18		0224	19°43'	85°15'					outside NW RMW	32
Comments										
19		0234	20°17'	85°50'					NW end pt	33
Comments										
20		0303	18°41'	86°09'					SW end	34
Comments										

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

Storm
Mission ID

Flight ID
(exp. 0213A)

Dropsonde Scientist
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AVAPS Operator
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)			
21		0320	19°33'	85°16'					outside SW RMW	35
Comments										
22		0320	19°34'	85°15'					SW RMW	37
Comments										
23		0325	19°40'	85°08'					center	39
Comments										
24		0329	19°53'	84°54'					NE RMW	40
Comments										
25		0330	19°56'	84°53'					outside NE RMW	
Comments										
26		0346	20°39'	84°03'					end pt NE	41
Comments										
27		0414	20°35'	86°17'					end pt NW	42
Comments										
28		0427	19°59'	85°39'					NW RMW	43
Comments										
29		0435	19°47'	85°26'					center	44
Comments										
30		0437	19°39'	85°18'					SE RMW	45
Comments										

31 0438 19°35' 85°14' outside SE RMW

32 0440 19°29' 85°06' end pt SE 46