Dropsonde Scientist

Flight ID 20201007I1 **Storm** Delta **Mission ID** 1726A Delta

Dropsonde Scientists Dunion, 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.

NDS, network, GPS

90.2 00072 22° 18' 90° 12'

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

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Drop #	Sonde ID	Time UTC	Lat (°N/S)	Long (°E/W)	Sfc Pressure (mb)	Wind closest to		SST (°C)	EyeEyewall, Rainband,etc,	Ob #
						Dir/Spd (deg/kt)	Hgt (m)			
1		2347	23°21'	91°01'					IP, NW	1
Comments										
2		2356	22°55'	90°33'					Midpt NW	2
Comments										
3		0007	22°19'	90°11'					center	3
Comments										
4		0016	21°54'	89°45'					mid SE	4
Comments										
5		0024	21°32'	89°20'					end SE	18
Comments	~~Not received on ground~~									
6		0203	[illegible]	[illegible]					end ENE	5
Comments										
7		0212	22 44	90°03'					mid ENE	6
Comments										
8		0216	22°39'	90°20'					RMW ENE	7
Comments										
9		0223	22°27'	90°49'					RMW WSW	8
Comments										
10		0229	22°21'	91°11'					mid WSW	9
Comments										

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11		0238	22°12′	91°50′					end WSW	10
Comments										
12		0251	21°29′	91°11′					end SSW	11
Comments										
13		0300	22°01′	91°03′					mid SSW	12
Comments										
14		0307	22°26′	90°47′					RMW SSW	13
Comments										
15		03058	22°32′	90°46′					Center	14
Comments										
16		0316	22°50′	90°46′					RMW NNE	15
Comments										
17		0322	23°12′	90°33′					midpt NNE	16
Comments	combo drop	28°C	28.1°C → 14°C at 200 m							
18		0333	23°54′	90°21′					end NNE	17
Comments										
Comments										
Comments										