Dropsonde Scientist

Flight ID 20170905H1 **Mission ID** _____

Dropsonde Scientists Sellwood _____

AVAPS Operators Underwood _____

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 HAPS or 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

✓ 2. 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 MGOC as to where you can be contacted.

N42/3RF HRD GPS Dropwindsonde Scientist Log (Revised 5/2002)

Storm IRMA Dropwindsonde Scientists Sellwood Page 1 of ___

Flight ID 20170905H1 Flight Director Holmes Takeoff from BGI at 754 UTC

Mission ID 0711A AVAPS Operators Underwood Recovery at BGI at 1410 UTC

Drop #	Sonde ID #	Time (UTC)	Lat (°N)	Lon (°W)	Surface Pressure (mb)	Wind closest to surface dir/spd (kt)	hgt (m)	BT SST (°C)	Eye, Eyewall, Rainband (direction)	Comments	Ob #
1	091458.1	914	1571	5542	1005.4	160/75	10	X		IP - Good	2
2	094534.2	943	1666	5734	931.6	46/100	30	X		Center	3
3	100740.3	1008	1748	5889	1003.2	35/68	32	X		end 1st leg (mid ~)	6
4	104912.4	1046	1531	5849	1004.4	250/85	10	X		start leg 2	8
5	111104.1	1111	1671	5770	930	260/106	10	X		Center	9
6	114035.2	1140	1825	5683	1007	108/88	12	X		end leg 2 - (wind on	mis) 11
7	120006.3	1202	1839	5842	1006.5	65/40	10	X		start leg 3	13
8	123122.4	1231	1670	5788	930.8	195/27	10	X		Center	14
9	130536.1	1305	1495	5732	1007.0	251/28	10	X		last drop early ETA	17

drop 2 removed lowest winds → 5 m/s ramp up