Dropsonde Scientist

Flight ID _/S/0 L_   **Mission ID** _20170825 H1_

Dropsonde Scientists _Sellwood_ _____

AVAPS Operators _Todd R_ _____

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 _Harvey_   Dropwindsonde Scientists _Sellwood_   Page _1_ of ___

Flight ID _1609A_   Flight Director _Brian_   Takeoff from _Lakeland_ at _146_ UTC

Mission ID _20170825H1_   AVAPS Operators _Todd R_   Recovery at _Lakeland_ at _848_ 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	035952.1	359	2658	9471	1001.8	25/39	10	X		IP NLS leg Combo	7	— BT bad
2	042000.2	419	2536	949	966.7	305/4	10	X	E	Center	8	
3	045412.3	434	2141	9489	1001.3	000/12	10	X		Combo (DW S/SE)	11	— BT bad
4	044750.4	447						26		Combo — no signal	X	
5	050405.1	504	2547	9501	967.5	45/11	10		E	center	12	
6	052348.3	523	2627	9628	1002.5	30/30	10	?		COMBO (end SE/NW)	15	
7	5556.4	544	2490	9635	1002.7	30/28	10	X		Combo (SW/NE)	17	— BT bad
8	060419.1	604	2561	9515	967.2	100/07	10	X	E	center	18	
9	060639.2	606	2575	9535	975.2	45/64	12	X	EW(NE) wind max NE			19
10	063715.3	637	2647	9360	1004.9	125/13	30	30		END combo	22	

BT w/ drop 6 reported 25 at ~100 ~~GA~~

last leg along CYGNSS path 60°

unflagged sfc wind