Dropsonde Scientist

Flight ID_____Storm_____Dropsonde Scientist_____

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 often are required to be 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. Brief the LPS on equipment status and turn in completed forms, dropwindsonde data tapes, DVDs, or CDs.
[**Note**: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]

_____ 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 Genesis | Dropwindsonde Scientists Jun Zhang | Page 1 of 1

Flight ID 20180927H1 | Flight Director Sears | Takeoff from Liberia at 1300 UTC

Mission ID WBWXE Genesis | AVAPS Operators Mac | Recovery at _____ at _____ UTC

Drop #	Sonde ID #	Time (UTC)	Lat (°N)	Lon (°W) –	Surface Pressure (mb)	Wind closest to surface dir/spd (~~kt~~ m/s)	hgt (m)	BT SST (°C)	Eye, Eyewall, Rainband (direction)	Comments	Ob #
1	12222506	1449	12.49	94.50	1009.3	95/16.1	10			IR sonde IP	01
2	16345113	1502	12.42	95.53	1010.0	71/14.8	10				02
3	16302504 3	1515	12.50	96.50	1009.4	68/11.5	10				03
4	12222507 8	1528	12.50	97.49	1010.1	57/7.2	10			IR sonde	04
5	16361506 5	1549	11.54	97.38	1009.5	28/4.3	10				05
6	16454503 6	1604	10.50	97.50	1008.9	—	—			fast fall no sent	
7	16462517 4	1608	10.1	97.5	1009.3	303/4	10				06
8	12222506 2	1618	9.50	97.5	1008.8	287/5.7	10			IR sonde	07
9	16302504 0	1632	9.49	96.5	1009.1	260/8.5	10				08
10	16462518 9	1633	9.49	96.43	1008.7	260/7.6	10				09
11	16451511 1	1645	9.50	95.5	1008.8	214/12	10				10
12	12222507 5	1659	9.51	94.5	1008.2	201/6.8	10			IR sonde	11
13	16302505 7	1713	10.50	94.5	1009.2	63/4.6	10				12
14	16325502 9	1726	11.48	94.5	1009.5	114/7.2	10				13
15	16401518 7	1739	11.5	95.5	1009.1	90/10	10				14
16	16325504 7	1752	11.5	96.45	1008.6	49/9.2	10				15
17	15421511 8	1806	10.5	96.49	1007.9	143/2.4	10				16
18	16401516 4	1818	10.5	95.63	1008.2	151/2.7	10				17