Dropsonde Scientist

Flight ID 09082017   **Mission ID** WX63A Bill 5

Dropsonde Scientists Sellwood _____

AVAPS Operators Smith _____

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. 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 **Bill**   Dropwindsonde Scientists **Sellwood**   Page **1** of ___

Flight ID **090820i1** Flight Director **Damiano**   Takeoff from **Barbados** at **0740** UTC

Mission ID **WX03A BILLS** AVAPS Operators **Smith**   Recovery at _____ at _____ 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	084419058	0909	19.67	60.25	1002.5	206/29	8.1			good	12
2	084919237	0931	21.30	60.46	969.9	209/85	47.1		EWS	good	16
3	084919122	0936	21.65	60.59	952.7	116/8	9.5		Eye	good	18
4	084419034	0942	22.03	60.62	962.8	90/93	N/a		EWN	no winds below 740 mb	19
–	084419034	1004								corrected tempdrop	21
5	084919118	1005	23.67	60.75	1005.1	64/45	4.7			end leg 1	23
6	084439047	1030	22.65	62.63	1003.1	26/41	7.8			start leg 2	27
7	085119636	1103	21.73	60.44	974.1	157/68	5.3		EWSE	good	31
8	083259028	1128	21.10	59.62	1004.8	159/37	4.0			end leg 2	35
9	084439003	1151	23.01	59.40	1004.8	119/52	8.6			start leg 3	38
10	083259119	1208	22.40	60.55	982.8	99/89	12.5		EWNE	too early	41
11	084429063	1212	22.50	60.74	971.8	105/93	4.8		EWNE		42
12	083259074	1218	22.17	61.21	950.8	37/8	7.8		Eye		51
13	084919057	1223	22.03	61.53	968.2	300/60	8.0		EWSW		52
14	083259225	1247	21.07	63.01	1003.5	318/21	4.1			end leg 3	54