

Dropsonde Scientist

Flight ID 20161008T1 Storm MATTHEW Dropsonde Scientist ALAKA

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 MATTHEW Dropwindsonde Scientists ALAKA Page of

Flight ID 20161008I Flight Director SEARS Takeoff from MACDILL at 05:55 UTC

Mission ID 3714A AVAPS Operators RICHARDS, BREWER 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	55063	06:33	30.1	80.6	998	250/38	8			END POINT	
2	45101	07:24	32.7	79.1	995	130/42	8			END POINT/COASTAL SURF	
3	15002	07:44	32.1	80.1	995	115/67	0			MAX WIND	
4	15125	08:18	30.7	79.2	996	205/41	0			END POINT	
5	25078	08:37	32.2	78.6	995	155/48	0			END POINT <small>30714 launch detect</small>	
6	55085	09:03	32.1	80.4	960	145/40	9			MAX WIND	
7	25083	09:33	32.3	80.2	977	105/6	10			MAX WIND	
8	25127	10:40	31.1	78.3	999	210/53	9			END POINT	
9	45029	11:12	33.7	73.4	998	125/38	0			Offshore Convective Module	
10	15050	12:00	32.4	80.0	964	265/12	0			CENTER	

needs to be re-processed