Dropsonde Scientist

Flight ID 20140703I **Storm** Arthur **Dropsonde Scientist** Sellwood

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.

BTs 2021

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

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Flight ID 20140703I1 Flight Director Holmes Takeoff from MacDill at 1444 UTC

Mission ID 13O1 A AVAPS Operators Warneke Recovery at MacDill at 1955 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	11425002	2020	3338	7810	1003.5	330/5	10			IP	4
2	11425252	2032	3336	7799	977	124/3	10	26.8		CENTER	5
3	11425045	2036	3333	7767	983	131/22	10			RMW (eastern)	7
4	11285172	2038	3331	7750	992	130/32	10			RMW	8
5	11425012	2052	3336	7657	1007	170/20	10	27.1			9
6	11425056	2113	3378	7793	991	65/26	10			bad data after splash	10
7	11425032	2118	3347	7785	977	250/5	10			CENTER	11

BT 5 2

BT 4

BT 4 sent on OB 4 instead of 5

Flight aborted – smoke in cabin no weather radar