Dropsonde Scientist

Flight ID 090827I2

Mission ID WXØ5A Danny3

Dropsonde Scientists S. Murillo

AVAPS Operators Jim Roles

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 **TS. Danny**   Dropwindsonde Scientists **S. Murillo**   Page **1** of **1**

Flight ID **090827I2**   Flight Director **Rich Henning**   Takeoff from **MacDill** at **2005** UTC

Mission ID **WX05A Danny3**   AVAPS Operators **Jim Roles**   Recovery at **MacDill** at **0334** 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	092819173	214215	27.000	74.900	1009.0	43°/16	7.1	28.0		at IP, BT combo	12
2	092819172	220539	28.01	72.951	1007.0	147°/19	6.8			at low level center	15
3	092819167	222308	27.95	71.518	1010.5	124°/33	10.1	27.5		at mid-level center, BT combo	17
4	092429005	223802	28.006	70.314	—	140/31	—			stopped reporting @ 3500ft / set hgt to missing	20
5	091959031	225412	28.182	69.359	1016.0	127°/33	16.5	27.5		combo BT	23
6	092329038	231734	29.753	70.334	1015.6	131°/33	7.2	27.5		combo BT at turn	26
7	092819169	233705	28.614	70.500	1014.6	128°/27	6.7	6.7			29
8	092439013	235030	27.740	70.532	1013.7	137°/19	12.0	27.5		combo BT	32
9	092429104	000506	26.795	70.609	1013.4	116°/19	25.4				34
10	083219032	002041	25.783	70.661	1013.7	174°/17	10.1	27.6		combo BT, SW corner	36
11	083219053	003610	25.990	69.468	1016.3	132°/21	18.0	27.7			39
12	083259193	005008	26.899	69.950	1014.7	124°/29	7.1				41
13	084439091	010331	27.810	70.436	1014.5	151°/33	15.5	28.5		combo BT	43
14	084919226	011716	28.48	71.091	1013.8	14°/29	12.7				47
15	084419128	013033	29.481	71.656	1014.2	128/31	10.1				49