

Flight ID 20140824H1 Storm TD4 Dropsonde Scientist Marks

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 TD4/Cristobal Dropwindsonde Scientists Marks, Bucci (remote) Page 1 of 1
 Flight ID 20140824H1 Flight Director Henning Takeoff from MacDill at 0625 UTC
 Mission ID NOIAA 0704A C/CLONS AVAPS Operators Richards/Roles Recovery at MacDill at 1343 UTC

Drop #	Sonde ID #	Time (UTC)	Lat (°N)	Lon (°W)	Surface Pressure (mb)	Wind closest to surface dir/spd hgt (kt) (m)	BT SST (°C)	Eye, Eyewall, Rainband (direction)	Comments	Ob #
✓ 1	114425212	0704	22.7	71.6	1006	230/7 10	-		IP w	5
✓ 2	123125736	0819	22.94	71.62	1005	067/10 10	-		mid pt	6
✓ 3	12071504	0843	22.78	72.8	1003	132/20 10	-	center	center (NHC)	4
✓ 4	114325082	0859	22.81	71.65	1004	168/32 10	-		mid pt.	8
✓ 5	112115101	0911	22.79	70.79	1006	169/32 10	-		end leg 1 E	9
✓ 6	114335079	0937	24.51	71.82	1005	134/23 10	-		start leg 2 NE	11
✓ 7	114325213	0953	23.57	72.42	1004	129/15 10	-		mid pt	12
✓ 8	114335060	1003	22.92	72.65	1002	128/10 10	-	center	center (NHC)	13
✓ 9	112115327	1018	22.02	73.24	1004	265/19 10	-		mid pt SW	14
✓ 10	112065048	1033	21.26	73.8	1005	244/20 10	-		end leg 2 SW	16
✓ 11	114325229	1101	21.25	71.6	1006	127/24 10	-		start leg 3 SE	17
✓ 12	114335052	1117	22.18	72.10	1005	156/24 10	-	rainband	mid pt	18
✓ 13	114325232	1134	23.2	72.65	1002	141/10 10	-	center	center (NHC)	19
✓ 14	114335054	1150	24.2	73.37	1004	034/11 10	-		mid pt	21
✓ 15	114335067	1202	24.9	73.8	1006	061/13 10	-	*	end leg 3 NW nearly launched	

12 HFIP
3 NHC