

### Dropsonde Scientist

Flight ID 20140825H1 Storm Christobal Dropsonde Scientist Markes High

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)

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 Flight ID 20140825H1 Flight Director Hanning Takeoff from MacDill at 0556 UTC  
 Mission ID 1104A AVAPS Operators Richards Recovery at MacDill at      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	114335053	0800	24.32	75.8	1002	317/22 10	-		1P leg 1	02/05
✓2	114325094	0818	24.33	73.6	999	330/26 10	-		mid point	06
✓3	112115321	0823	24.43	72.68	995	208/25 10	-	center	center	07
✓4	114335051	0845	24.43	71.70	1001	166/49 10	-	MX wind band	peak SE MR mid pt	08
✓5	114335067	0901	24.42	70.5	1004	188/32 10	-		in big band DE of	09 <span style="float:right">Sand legs</span>
✓6	114335046	0932	26.14	71.54	1004	149/15 10	-		begin leg 2 NE of	10
✓7	114425253	0951	25.09	72.30	999	156/31 10	-		mid pt	11
✓8	112615096	1001	24.53	72.68	996	160/21 10	-	center		04
✓9	114335029	1017	23.57	73.31	999	284/22 10	-		mid pt	12
✓10	114335036	1028	22.9	73.79	1002	289/30 10	-		end pt SW	13
✓11	114345065	1052	22.9	71.8	1001	184/28 10	-	max wind band	pk wind	15
✓12	112115306	1055	22.9	71.6	1004	198/40 10	-		pk wind SE	16
✓13	114325089	1109	23.65	72.0	1001	192/54 10	-		begin leg 3 SE	19
✓14	114335068	1117	24.25	72.4	998	181/24 10	-		mid pt	20
✓15	112065192	1129	24.6	72.7	996	134/31 10	-	center	center	18
✓16	114335063	1139	25.5	73.3	1000	086/20 10	-		mid pt	21
✓17	114335056	1153	26.4	73.8	1003	034/17 10	-		end leg NW	22