Dropsonde Scientist

Flight ID 22214 TOMAS Storm TS TOMAS Dropsonde Scientist B. KLOTZ

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



- Determine the status of the AVAPS and HAPS or workstation. Report results to the LPS.
 - Confirm the mission and pattern selection with the LPS and assure that enough dropsondes are on board the aircraft.
- Modify the flight pattern or drop locations if requested by AOC to accommodate changes in storm location or closeness to land.
 - Complete the appropriate preflight set-up and checklists.

In-Flight



- Operate the system as specified in the operator's manual.
- Ensure the AOC flight director is aware of upcoming drops.
- 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.
 - Report the transmission of each drop and fill in the Dropwindsonde Scientist Log.

Post flight



- Complete Dropwindsonde Scientist Log.
- 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.]



- Debrief at the base of operations.
- Determine the status of future missions and notify MGOC as to where you can be contacted.

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 Dropwindsonde Scientists
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 Flight ID 101106H1
 Flight Director
 SEARS
 Takeoff from St. Croix at 1949 UTC

 Mission ID 2221A TOMASAVAPS Operators
 WARNECKE, OLNEY
 Recovery at Mac Dill at 0350 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 #
	095035229	212151	23.04	68,75	1096.9	P8/12 6,66				oile
2	094735167	220817	25.11	71.11	1006.8					022
13	094735164	221548	24.66	71.29	1007.0	355/32 8.52				024
4	094735768	223614	24.80	69.80	989.0	080/33 5.78			Center (FL based) - eye	027
5	094735170	230231	24.87	68.06	1007.9	129/276.66		and the second se		033
6	100145295	231851	25.98	68.62	1007.9	102/27 6.55	-			035
7	094735352	234202	24.84	69.77	987.1	319/06/6.92			center (SPC based) - 14e	639
18	094735157	000248	23.84	70,73	1006.9	347/31 4.80			2 5 2 5 2 6	044
9	094735023	001956	23.89	69.66	1005,7	239/16 4.88				047
10	094735182	083733	25.27	69.50	998.5	093/437,45	130		eyewall	049
11.	094735176	005557	26.58	69.61	1058,5	088/27 6.02				052