Dropsonde Scientist

Flight ID 101104H1 **Mission ID** 1721A TOMAS

Dropsonde Scientists B. KLOTZ _____

AVAPS Operators WARNECKE; OLNEY

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

BK 1. Determine the status of the AVAPS and HAPS or workstation. Report results to the LPS.

BK 2. Confirm the mission and pattern selection with the LPS and assure that enough dropsondes are on board the aircraft.

BK 3. Modify the flight pattern or drop locations if requested by AOC to accommodate changes in storm location or closeness to land.

BK 4. Complete the appropriate preflight set-up and checklists.

In-Flight

BK 1. Operate the system as specified in the operator's manual.

BK 2. Ensure the AOC flight director is aware of upcoming drops.

BK 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.

BK 4. Report the transmission of each drop and fill in the Dropwindsonde Scientist Log.

Post flight

BK 1. Complete Dropwindsonde Scientist Log.

BK 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.]

BK 4. Debrief at the base of operations.

BK 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 101104H Flight Director SEARS Takeoff from St. Croix at 1948 UTC

Mission ID 1721A TOMAS AVAPS Operators WARNECKE, OLNEY Recovery at St. Croix at 0255 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	094735270	220409	16.70	74.48	1001.1	37/147	6.74			scattered echoes	017
✓ 2	094735536	224337	16.63	77.17	1001.8	17/340	6.45			no echoes	023
✓ 3	094735016	225603	15.83	76.74	1001.2	29/308	6.77				026
✓ 4	100145050	231815	16.95	75.64	990.0	41/117	5.81			estimated center	031
✓ 5	094615116	234758	18.11	74.71	1003.4	29/098	5.88				034
✓ 6	093736208	235436	18.31	75.66	1003.2	31/098	6.40				036
✓ 7	100145112	001410	16.95	75.70	989.7	08/212	6.9			estimated center	038
✓ 8	094355066	003811	15.48	75.17	1002.9	23/189	7.2				043