

803.15
826 00

Dropsonde Scientist

Flight ID 100707H1

Mission ID WXWXA AL96

Dropsonde Scientists Sellwood / Zhang

AVAPS Operators Olney / Paul

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.

300/10

N42/3RF HRD GPS Dropwindsonde Scientist Log (Revised 5/2002)

Storm AL96 Dropwindsonde Scientists Schwab Page 1 of 1

Flight ID 100707H Flight Director Paniano Takeoff from MacPill at 803 UTC

Mission ID NWKA456 AVAPS Operators Olney Recovery at _____ 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	100145299	947	24.00	90.02	1008	132/19 5.4			SA near sfc	19
2	100145195	959	24.01	91.02	1008	154/25 7.2				22
3	100145308	1011	24.01	92.01	1007	147/08 6.7				24
4	094735764	1024	24.01	93.00	1006	140/08 5.3				25
5	100145087	1035	23.99	94.01	1006	209/02 7.0				27
6	094735761	1048	22.98	94.00	1007	280/08 6.2				28
7	094735281	1102	22.00	94.00	1007	307/02 6.2				30
8	100145211	1115	21.01	93.98	1006	239/0 5.4				34
9	094735762	1128	21.00	93.00	1007	147/10 6.0				36
10	100145041	1144	20.85	92.00	1007	200/0 5.8				38
11	100145223	1158	21.05	90.99	1008	147/10 6.5				41
12	094735287	1217	22.02	90.01	1009	98/16 7.0				48
13	100145311	1230	22.99	90.03	1010	135/23 7.0				48
14	094735096	1242	23.00	91.00	1009	147/10 6.7				50
15	100145208	1255	23.00	92.00	1007	159/23 6.1				54
16	094735747	1308	23.00	93.02	1007	248/04 7.3				55
17	094735759	1325	22.04	93.00	1008	335/6 6.1				58

