

### Dropsonde Scientist

Flight ID 100912FI Storm AL92 Dropsonde Scientist 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

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 100912II Flight Director Barry Damiano Takeoff from Mac Dill at 2003 UTC  
 Mission ID WXWXA 92L2 AVAPS Operators PEEK, C. LYNCH Recovery at St. Croix at 0715 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	094735028	232207	17.24	-74.37	1007.9	169/02	6.15			light showers in vicinity	036
✓ 2	094645075	232933	16.84	-74.05	1008.6	323/00	7.58			" " " "	038
✓ 3	094735783	233723	16.43	-73.70	1009.4	062/10	6.15			Late launch detect	040
✓ 4	095035107	235011	15.62	-73.36	1007.4	027/08	6.81				042
✓ 5	095035159	235726	15.20	-73.09	1007.7	007/06	6.06				045
✓ 6	100145006	000509	14.82	-72.81	1007.8	005/08	6.27				047
✓ 7	094635093	002556	16.16	-72.17	1008.4	107/08	6.10				049
✓ 8	094645121	003159	16.15	-72.63	1008.6	104/10	6.74			Late launch detect	050
✓ 9	094645025	003836	16.14	-73.13	1007.9	078/08	5.86				052
✓ 10	095035104	010613	16.00	-74.67	1008.2	039/10	5.46				057
✓ 11	094355050	011146	16.00	-75.10	1008.8	047/08	6.34				059
✓ 12	094120171	011641	15.93	-75.41	1008.5	044/14	6.08				060
✓ 13	100215046	013559	14.75	-74.66	1008.6	075/12	6.67				063
✓ 14	094415168	014730	15.11	-74.36	1008.9	078/06	7.46				064
✓ 15	094120044	015435	15.54	-74.11	1008.1	070/14	10.10				066
✓ 16	094615017	020928	16.43	-73.58	1006.0	044/14	5.06			Fast fall	← No TDRP
✓ 17	093736261	021024	16.48	-73.54	1008.0	044/14	5.06				069

