

### Dropsonde Scientist

Flight ID 100811H1 Storm TD05 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. - *UPS was not working; replaced by AOC*
- 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)

Storm TD05 Dropwindsonde Scientists B. KLOTZ Page 1 of 2  
 Flight ID 10081142 Flight Director SEARS Takeoff from MacDill at 1959 UTC  
 Mission ID WXWA TD05 AVAPS Operators SMITH, OLNEY Recovery at MacDill at 0141 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 #
X 1											
✓ 21	100145057	203101	29.51	-83.46	1012.3	148/17	6.9	29.5			010
✓ 2	094645117	203920	29.51	-84.22	1011.3	131/12	7.5				013
✓ 3	094645022	205051	29.52	-85.30	1009.7	105/23	7.5	29.6			015
✓ 4	094735794	210137	29.52	-86.29							018
✓ 5	100145004	211214	29.51	-87.30	1008.7	033/08	6.1	29.8			020
✓ 6	094645108	212447	29.38	-88.35	1009.6	019/16	7.0			No rain but cloudy	023
✓ 7	094645078	214128	28.15	-88.31	1007.4	033/12	4.1			No rain	025
✓ 8	100145262	215258	27.24	-88.30	1007.2	229/04	5.4			No rain	027
✓ 9	100145032	220430	26.32	-88.30	1008.8	231/10	6.2			No rain	029
✓ 10	094735741	221039	26.00	-88.10	1009.1	238/08	6.4			Start of EB leg; Scattered echoes	031
✓ 11	094735720	221958	26.05	-87.23	1009.3	233/16	6.5	29.9		Slow fall - erratic fall spd.	← No TDROP
✓ 12	094735749	223021	26.01	-86.76	1010.5	215/14	6.4			Cloudy but no echoes	033
✓ 13	094635112	224100	26.00	-85.24	1010.4	210/23	6.3	29.2			035
✓ 14	095035194	225235	25.93	-84.22	1012.2	244/04	6.4			Cloudy; No rain	037
✓ 15	100145212	230106	26.04	-83.46	1011.8	192/14	6.1	28.9		Cloudy; No GPS echoes	039
✓ 16	094735069	231131	26.72	-83.29	1012.2	198/12	6.4				041

