

## Dropsonde Scientist

Flight ID \_\_\_\_\_

Mission ID 100641

Dropsonde Scientists Selwood

AVAPS Operators Underwood

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.

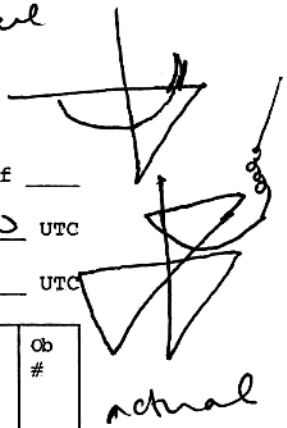
### In-Flight

- \_\_\_\_\_ 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. Download all raw and processed AVAPS files to thumbdrive
- \_\_\_\_\_ 2. Brief the LPS on equipment status and turn in completed forms and thumbdrive.
- \_\_\_\_\_ 4. Debrief at the base of operations.
- \_\_\_\_\_ 5. Determine the status of future missions and notify MGOc as to where you can be contacted.

planned



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

Storm Date \_\_\_\_\_ Dropwindsonde Scientists Schwab \_\_\_\_\_ Page 1 of \_\_\_\_\_  
 Flight ID WPS16A Flight Director Mike Holmes Takeoff from Lakeview at 800 UTC  
 Mission ID 20171006H1 AVAPS Operators Underwood 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	095521.1	1008	1822	8520	1002				IF (for full table)	X
2	10150.2	1021	1872	8520	1002	040/21	10		mid (removes FL RH)	1
3	102146.3	1021	1802	8520	1002	010/21	12		center (missed)	2
4	103552.4	1035	1718	8476	997	290/21	12		mid mt	3
5	104927.1	1049	1633	8465	1002	230/29	10		end leg	4
6	110819.2	1108	1620	8395	1002	20/9.5	14		mid dw leg	5
7	112734.3	1127	1740	8345	1005	165/39	12		end dw leg	6
8	114010.4	1140	1788	8435	997	15/59	15		end leg 2	7
9	114520.1	1145	1787	8435	997	270/15	10		<del>center</del> <sup>center</sup> mid leg 2	8
10	115617.2	1156	1786	8557	1001	340/22	10		<del>center</del> mid leg 2	9
11	121008.3	1210	1726	8460	1001	350/21	12		end leg 2	10
12	125129.4	1231	1656	8575	1005	250/18	10		end dw leg	11
13	124521.1	1245	1728	8504	1002	265/17	10		mid	12
14	125705.2	1257	1801	8452	999	180/28	10		<del>center</del> ? mid	13
15	130720.3	1307	1807	8405	1002	140/39	12		mid end leg 3	14
16	132507.4	1325	1876	8496	1000	040/14	10		end dw leg	15
17	134332.1	1343	1857	8410	1002	145/38	10		circles!	16

drops: had too many problems to transmit  
 did not label center drops USAF fix at 17.6 84.7 997 mb  
 drop 14 changed to RH 2