

Dropsonde Scientist

Flight ID 20140917H1

Mission ID WGOGA

Dropsonde Scientists Evan Kalina Jason Dunion

AVAPS Operators Todd Richards

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.

MXWIND3ND

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

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 Flight ID 20140917H1 Flight Director Rich Henning Takeoff from TXKF at 1110 UTC
 Mission ID WG06A AVAPS Operators Todd Richards Recovery at TXKF at 1919 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	125840	1258	34.92	54.44	996.2	240/52 10	25.2			2
2	130423	1304	35.31	54.26	989.1	245/68 10	/		100 kt at 855-860 mb	3
3	131305	1313	35.92	54.05	962.3	215/57 10	/	eyewall (SW)	BT did not come up	4
4	131627	1316	36.12	53.96	958.5	035/17 10	/	eye	BT was bad	5
5	132748	1327	36.85	53.43	992.0	095/43 10	/	max wind	BT bad	6
6	133126	1331	37.05	53.25	994.9	105/37 10	/			8
7	134054	1340	37.61	52.98	1002.3	115/26 10	24.5			9
8	141939	1419	37.84	56.02	1004.5	005/27 10	/		BT bad	10
9	152846	1529	37.60	55.74	1004	005/21 10	/		early launch detect	11
10	154243	1542	37.38	55.40	1002.8	010/28 10	26.5			12
11	160520	1605	37.11	55.00	1001.3	356/32 10	/			13
12	161704	1617	36.84	54.69	999.1	320/39 10	/			14
13	162709	1627	36.83	53.78	995.8	325/62 10	/	max wind	BAD - did not transmit	14
14	163554	1636	36.81	52.96	961.3	250/55 10	/	eyewall (N)		15
15	163811	1638	36.92	52.85	958.3	325/26 10	/	eye		17
16	164230	1642	36.73	52.77	964.6	170/69 10	/	eyewall (S)		18
17	165337	1653	36.01	52.77	993.1	225/53 10	/			19

sfc thermo
pressure
wind