

Dropsonde Scientist

Flight ID 180903H1 Storm Gordon Dropsonde Scientist Christophersen (Hazzett)

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)

Storm Isaac

Dropwindsonde Scientists Sellwood

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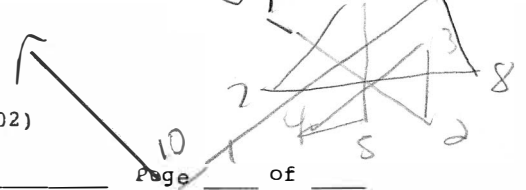
Flight Director Holmes

Takeoff from STX at 930 UTC

Mission ID 18092H1

AVAPS Operators Underwood

Recovery at STX at 1834 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	115258_P1	1133	1548	5581	1009.8	6/32	10			EP (W) (NW)	2
2	114334_P2	1143	1558	5559	1009.3	6/30	10			midpoint (NW)	3
3	120025_P3	208	1599	5455	1007.1	14/5	10			center	4
4	121750_P4	1217	1360	5387	1007.8	21/19	10			midpoint (SE)	5
5	122501_P1	1225	1335	5346	1010.5	19/15	10			EP (SE)	6
6	124755_P2	1248	1488	5368	1005	15/46	10			End DWL (NE)	9
7	125728_P3	1257	1456	5411	1004.9	24/59	10			mid (NE)	15
8	131139_P4	1311	1388	5464	1008.2	21/10	10			center	11
9	132532_P1	1325	1324	5525	1009.5	20/10	10			mid (SW)	13
10	133129_P2	1331	1298	5552	1010.2	6/5	10			EP (SW)	14
11	135315_P3	1353	1376	5432	1006.9	20/21	10			End DWL (S)	16
12	150336_P4	1503	1500	5612	1010.6	55/17	10			EP (W)	19
13	151714_P1	1517	1495	5534	1009.9	30/17	10			mid (W)	20
14	152551_P2	1525	1510	5481	1008.1	205/16	10			center (SKA)	22
15	154115_P3	1541	1515	5384	1009.6	120/46	10			mid (E)	23
16	154635_P4	1546	1515	5350	1011.1	130/31	10			EP (E)	24
17	162502_P1	1625	1580	5428	1010.1	110/44	10			mid (NE)	26

11) start of leg moved north to mark pressure center (surface wind center found on previous 2 center drops well to south)
 → no drops on S-N leg flying at 1500ft
 16) changed RH sensor to 2 (R) primary side of center

(15)
(16)

