

Dropsonde Scientist

Flight ID 20180909H Storm Florence Dropsonde Scientist Holbach

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 Florence Dropwindsonde Scientists Holbach Page 1 of 2

Flight ID 2018090941 Flight Director Holmes Takeoff from BDA at 1141 UTC

Mission ID WB06A AVAPS Operators Underwood Recovery at BDA at 2000 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 #	Temp	Bufr
ch.1	1	164445075	23.58	57.71	1009	351/27	10	X		IP SW	02	X	X
ch.2	2	163335091	23.93	56.93	1006	305/31	10			Midpoint Combo	03	X	X
ch.3	3	164445077	24.14	54.55	1000	290/46	10	X		SW Eyewall	04	X	X
ch.4	4	163455001	24.20	56.43	996	290/45	10	X		SW Eyewall NESDIS	08	X	X
ch.1	5	163025095	24.28	56.29	986	275/40	10	X		SW Eyewall	09	X	X
ch.2	6	164545034	24.34	56.17	985	135/07	10	X	Eye	Center	05	X	X
ch.3	7	163335080	24.43	56.01	991	110/07	10	X		NE Eyewall - NESDIS	06	X	X
ch.4	8	164915038	24.74	55.42	1007	120/45	10			Midpoint Combo	10	X	X
ch.1	9	163455140	25.06	54.80	1010	120/29	10	X		EP NE	11	X	X
ch.2	10	164625036	25.83	56.30	1009	100/40	10	X		EP N	12	X	X
ch.3	11	162825056	25.12	56.30	1005	090/29	12			Midpoint Combo	13	X	X
ch.4	12	163025085	24.33	56.38	984	265/14	10	X	Eye	Center	14	X	X
ch.5	13	163455021	23.53	56.40	1006	245/32	10			Midpoint Combo	15	X	X
ch.6	14	164915033	22.86	56.26	1009	235/25	10	X		EP S	17	X	X
ch.7	15	164625046	24.29	55.28	1008	155/32	10	X		EP W outside of rainband	18	X	X
ch.8	16	164545009	24.21	55.52	1007	150/35	10	X		Inside of rainband	19	X	X
ch.1	17	163025099	24.40	56.49	984	240/05	10	X		Center	20	X	X



