

Dropsonde Scientist

Flight ID 20160922 I 1 Storm KARL Dropsonde Scientist Hui Christophersen

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.

N423RF HRD GPS Dropwindsonde Scientist Log (Revised 5/2002)

Storm Karl Dropwindsonde Scientists Hwi Christopherson

Page 1 of 1

Flight ID 20160922I1 Flight Director Brian Belson / Jan Sears

Takeoff from St. Croix at 1735 UTC

Mission ID WF12A KAPLAVAPS Operators Jeff Hartsberger

Recovery at St Croix at 0032 UTC

Drop #	Sonde ID #	Time (UTC)	Lat (°N)	Lon (°W)	Surface Pressure (mb)	Wind closest to surface dir/spd (kt)	Wind closest hgt (m)	BR SFR (°C)	Eye, Eyewall, Rainband (direction)	Comments	Ob #
1	35058	1911	24.1	61.7	1008.7	25/13	10			SE of center IP	5
2	25065	1922	24.6	62.3	1008.4	230/18	10			Midpoint of 1st leg	6
3	25062	1946	25.8	63.2	1006.4	345/2	10			center drop	7
4	15086	1958	26.4	63.8	1008	255/30	10			Mid point, NW of center	8
5	45182	2010	26.9	64.4	1010.8	40/22	10			End point of 1st leg	11
6	35087	2039	24.9	64.5	1009.7	355/19	10			IP of 2nd leg.	13
7	45002	2050	25.5	63.9	1008.2	350/18	10			mid point of 2nd leg, SW of center	14
8	35050	2120	26.8	62.7	1006.8	125/25	10			mid point, NE of center	15
9	45077	2135	27.4	61.9	1010.8	100/25	10			End point of 2nd leg	17
10	15102	2231	27.2	63.8	1009.5	301/29	10			mid point of N-S leg.	20
11	25039	2247	26.1	63.5	1003	45/24	10			center drop	21
12	35053	2258	25.3	63.5	1007	305/16	10			mid point of N-S leg, S of center	22

← Last drop