

Dropsonde Scientist

Flight ID 20160920II 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.

• skip all the end points since Ngarf has dropped at ~150nm of those locations (~90nm N.S.W.E)

M42/3RF HRD GPS Dropwindsonde Scientist Log (Revised 5/2002)

10.10.168 | server | Karma

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 Flight ID 2016092011 Flight Director Jan Sears / Brian Rolson Takeoff from 17 at 45 UTC
 Mission ID WB12A KARAVAPS Operators Steve Heriberg Recovery at STX at 0143 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 SST (°C)	Eye, Eyewall, Rainband (direction)	Comments	Ob #
1	144315061	2105Z	20.8	56.33	1009	315/7	10			Mid point of 1st leg	6
2	144315072	2103Z	20.8	55.33	1009	71/10	10			Mid point N of the center, 1st leg	8
3	144315013	2105Z	20.0	56.12	1009	20/6	10			Mid point SW of center, 2nd leg	10
4	142745181	2117Z	20.0	57.24	1007	75/6	10		Eye		
5	141145005	2127Z	20.0	54.53	1008	140/14	10			Mid point E of center, 2nd leg	
6	132235073	2158Z	21.08	54.39	1011	90/27	10			End point of down wind leg / 3rd leg	
7	140735037	2210Z	20.6	54.94	1010	80/26	10			Mid point SE of center, 3rd leg	
8	142715027	2231	19.5	56.08	1009	5/12	12			Mid point SW of center, 3rd leg	
9	142615126	2241	18.90	56.53	1009	5/7	10			End point of 3rd leg	
10		2311								Imbort of 3rd leg dead	
11	142615081	2332	19.6	54.75	1010	245/6	10			Abound of 3rd leg	22
12	140145145	2321	19.59	55.21	1009	190/10	10			Mid point SE of center at 3rd leg	23
13	142715006	2342	19.94	56.22						Mid point NW of center at 3rd leg	24
14	142735061	2352	20.45	56.80	1010	150/24	10			Last drop	26

(didn't list surface)

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