

Dropsonde Scientist

Flight ID 2014082321 Storm AL96 Dropsonde Scientist Hua Chen

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.

21°50' 70°404'

FS refresh.

23 2143 : 21:25

232227



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

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 Flight ID 2014082311 Flight Director HOLMES Takeoff from _____ at _____ UTC

 Mission ID 0504A WAVE AVAPS Operators SMITH Recovery at _____ at _____ 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	114335220 0201408232005	20:46	21.832	-74.05	1007.0	337/109 8.6				
2	112515048 020140823202357	20:24:00	21.832	-73.1	1006.0	145/57 11.3				
3	112815060 020140823204819	20:49	21.707	-71.34	1006.0	222/146 8.5		midpoint		
4	114335066 020140823210053	21:00	21.707	-70.42	1007.0	32/150 8.3				
5	112815069 02014082321254	21:25	23.21	-71.35	1007.5	22/01.9 11.3				
6	114335071 020140823214903	21:49	21.855	-72	1004.8	14/161.7 12.4		centered		
7	114335082 020140823220207	22:02	21.11	-72.49	1005.3	5/157.5 12.7				
8	114335070 02014082322440	22:14	20.42	-72.88	1005.6	9/261.4 10.5			centered	
9	114335040	22:44	20.416	-71.11	992.6	20/148.1 59.1			didn't hit surface	
10	112815101	22:56	21.136	-71.564	1006.8	25/155 5.6				
11	114315064	23:10	21.89	-72.17	1005.4	13/210 9.3				
12	114335088	23:22	22.59	-72.61	1004.8	13/165 15.5				
13	114335078	23:34	23.31	-73.1	1007.5	22/70 15.2			last drop	
14										
15										

no centerdrop because of land

last drop. 23:34=44



19=52