

Dropsonde Scientist

Flight ID 110824H Storm Irene Dropsonde Scientist Sellwood

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)



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Flight ID 110824H1 Flight Director _____ Takeoff from _____ at _____ UTC

Mission ID 1309A AVAPS Operators _____ Recovery at _____ at _____ 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 #
8	10171561	1107	2037	7322	999.6	223/37	5.6				31
9	101655136	1123	2091	7228	999.7	175/51	6.3				32
10	101715164	1133	2144	7281	989.6	184/50	10.1				34
11	101655233	1141	2183	7321	963.4	172/74	5.5				35
12	101655139	1144	2196	7334	956.3	195/8	6.7		EYE		37
13	101655197	1155	2250	7392	991.7	026/47	6.7				39
14	101715173	1201	2280	7424	999.9	051/51	5.5				41
15	101655130	1219	2207	7500	1000.1	001/27	5.2				43
16	101715157	1226	2206	7451	994.4	008/21	4.8				45
17	101715179	1241	2206	7341	955.6	158/68	8.4		EYE?		49
18	101655208	1244	2211	7329	958.6	115/95	6.6		EW/E		54
19	101655223	1245	2211	7232	962.7	128/67	27.4				52
20	101655214	1253	2211	7272						Fast Fall	
21	101653238	1307	2219	7188	1001.8	118/43	8.2				56
22	101655216	1321	2218	7250	1005.9	107/56	5.3				58
23	101655212	1328	2218	7286						Slow Fall	
24	101715158	1339	2240	7339	974.9	096/95	9.8		EW/SW		62