

Dropsonde Scientist

Flight ID 20121027H1 Storm Sandy 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

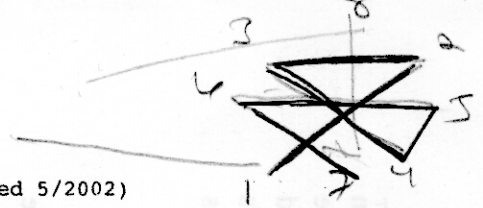
1. Determine the status of the AVAPS and dropsonde workstation. Report to the LPS.
2. Confirm the mission and pattern selection with the LPS and assure that enough dropsondes are on board the aircraft.
3. Modify the flight pattern or drop locations if requested by AOC to accommodate changes in storm 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. Download all dropsonde data to a thumbdrive.
2. Brief the LPS on equipment status and turn in completed forms and thumbdrives
4. Debrief at the base of operations.
5. Determine the status of future missions and notify HFP Director as to where you can be contacted.



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

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 Flight ID 20121027HI Flight Director Damiano/Henning Takeoff from Maldill at 759 UTC
 Mission ID 1418A AVAPS Operators Warncke Recovery at Maldill at 1553 UTC

Drop #	Sonde ID #	Time (UTC)	Lat (°N)	Lon (°W)	Surface Pressure (mb)	Wind closest to surface dir/spd hgt (kt) A/S (m)	BT SST (°C)	Eye, Eyewall, Rainband (direction)	Comments	Ob #	
1		850	2775	7809	980	014/25	10	255	IP (Se mb ~ 890 mb)	3	BT
2		901	2827	7749	973	296/21	8	268	MID (band)	5	BT
3		911	2859	7679				270	E EYE BAND TH	X	BT
4		924	2925	7597	974	116/23	9	266	MID	6	BT
5		936	2986	7545	980	106/16	5	263	end leg 1	8	BT
6		1005	2986	7794	982	131/18	10	265	leg 2 start	10	BT
7		1018	2920	7718	972	91/23	10	268	MID (band)	11	BT
8		1021	2907	7707	970	37/15	9	X	redo first full	14	X
9		1027	2878	7667	961	244/3	8	272	E EYE	12	BT
10		1041	2810	7590	973	215/19	5	241	MID	16	BT
11		1052	2764	7519	979	228/27	12	256	end leg 2	18	BT
12		1110	2898	7472	979	146/16	5	X	start leg 3	19	BT
13		1123	2897	7589	971	122/14	8	268	MID	20	BT
14		1135	2899	7681	961	51/36	0	X	EYE (connection w/ste)	23	X
15		1153	2898	7833	984	200/24	12	264	MID	21	BT
16		1158	2889	7875	986	321/30	10	264	end leg 3	22	BT
17		1230	2735	7666	976	271/36	?	X	start leg 4	25	BT

