NOAA P-3 GPS Dropwindsonde Scientist Log (MS Word version 2020)

Flight ID_____Storm_____Dropsonde Scientist_____

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.]

_____3. Copy all raw and processed dropsonde files to portable drive for archival

_____ 4. Debrief at the base of operations.

_____ 5. Determine the status of future missions and notify MGOC as to where you can be contacted.

Storm _____Flight ID_____ Dropsonde Scientist_____ AVAPS Operator_____
Mission ID_____ (ex. 0101A) Take Off _____ Landing_ _____

Drop #	Sonde ID	Time UTC	Lat (°N/S)	Lon (°E/W)	Sfc Pressure (mb)	Lowest Wind Dir/Spd (deg/kt)	Lowest Wind Hgt (m)	SST (°C)	Eye, Eyewall, Rainband, etc.	Ob #
1	2342220167	2322	24.06	93.51	1005	050/27	10	IP N		1
Comments										
2	234220764	2335	23.15	93.52	1001	035/32	10	MID N		3
Comments										
3	233410952	2345	22.49	93.43	982	031/09	10	Center		4
Comments set end 2 frames up										
4	233814454	2355	21.85	93.43	1001	260/34	10	MID S		5
Comments										
5	233331510	0008	21.00	93.34	1005	260/31	10	EP S		6
Comments										
8	233640125	0014	22.52	93.35				Center		
Comments fast fall, early launch detect plus data dropouts not sent										
6	233541331	0029	21.77	91.98	1005	190/27	10	IP SE		8
Comments set end 1 frame up										
7	233814632	0039	22.19	92.60	1002	190/30	10	MID SE		9
9	233350163	0052	22.55	93.38	981	025/20	10	Center		10
Comments Backup for bad center drop did not mark as center										

10	233441223	0101	22.91	93.96	1002	020/44	13	MID NW		11
Comments set end 2 frames up										

11	233221002	0112	23.26	94.62	1006	015/27	10	EP NW		12
Comments										

12	233950569	0134	21.72	94.68	1006	305/24	10	IP SW		13
Comments set end 1 frame up										

13	234520335	0145	22.08	94.02	1003	335/44	10	MID SW		14
Comments set end 1 frame up										

14	233550535	0157	22.48	93.29	979	080/12	10	Center		15
Comments										

15	233950713	0211	22.84	92.40	1003	135/30	10	MID NE		17
Comments										

16	233221006	0225	23.32	91.50	1007	060/23	10	EP NE		18
Comments set end 2 frames up Last Report										