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

Flight ID__20240703I1____Storm_____Beryl_____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.

__x__ 2. Confirm the mission and pattern selection with the LPS and assure that enough dropsondes are on board the aircraft.

__x__ 3. Modify the flight pattern or drop locations if requested by AOC to accommodate changes in storm location or closeness to land.

__x__ 4. Complete the appropriate preflight set-up and checklists.

In-Flight

__x__ 1. Operate the system as specified in the operator's manual.

__x__ 2. Ensure the AOC flight director is aware of upcoming drops.

__x__ 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.

__x__ 4. Report the transmission of each drop and fill in the Dropwindsonde Scientist Log.

Post flight

__x__ 1. Complete Dropwindsonde Scientist Log.

__x__ 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.]

__x___3. Copy all raw and processed dropsonde files to portable drive for archival

__x__ 4. Debrief at the base of operations.

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

Storm _Beryl____Flight ID___20240703I1___ Dropsonde Scientist__Sellwood____AVAPS Operator__Patel/Santorini_____

Mission ID___1302A_____ Take Off __0805 STX_____ 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	221811171	1052	18.29	-75.16	1008	060/29	10		IP	1
Comments: IP N										
2	222010097	1105	17.53	-75.14	1005	060/57	10		MP	2
Comments: Midpoint N										
3	222030372	1115	16.91	-75.06	963	025/106	10		RMW	3
Comments: RMW N streamsonde combo set end 3 frames up removed first 23s of Temp										
4	222030331	1118	16.76	-75.13	953	100/11	10		Center	4
Comments: Center										
5	222010064	1121	16.53	-75.14	988	225/70	10		RMW	5
Comments: RMW S streamsonde combo open eyewall markded maxwind										
6	221820017	1129	16.06	-75.14	1004	240/22	10		MP	6
Comments: Midpoint S set end 2 frames up										
7	222030364	1141	15.29	-75.13	1007	205/09	10		EP	8
Comments: Endpoint S set end 227.75										
8	222010109	1156	15.99	-74.49	1006	185/28	10		IP	9
Comments: IP SE set end 232.75										
9	221750632	1202	16.29	-74.8	1003	185/39	10		MP	10
Comments: Midpoint SE										
10	221721178	1210	16.74	-75.26	962	155/81	10		RMW	11
Comments: RMW SE set end 188.75										
11	221730341	1212	16.84	-75.38	953	040/16`	10		Center	12
Comments: Center										
12	221730636	1215	16.95	-75.52	947(lowest)	122/357	~245		RMW	14

Comments:RMW NW ended at 245m set height missing

Storm _____TEST_____Flight ID_____ Dropsonde Scientist_____AVAPS Operator_____

Mission ID_____ 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 #
13	221721268	1220	17.17	-75.81	999	020/57	10		MP	15
Comments: Midpoint NE										
14	221730635	1228	17.55	-7629.	1008	050/31	10		EP	16
Comments: Endpoint NE cut short to avoid Jamaica										
15	222030342	1254	15.90	-76.77	1008	025/14	10		IP	17
Comments: IP SW										
15	222010056	1304	16.39	-76.26	1005	340/38	10		MP	18
Comments: Midpoint SW										
16	221730003	1316	16.85	-75.76	966	285/64	10		RMW	19
Comments: RMW SW										
17		1318								
Comments: Center-geometric center not marked as center – bad sonde not able to process or send										
18	222020995	1320	17.04	-75.52	975	080/98	10		RMW	20
Comments: RMW NE slow fall at bottom but doesn't appear to be a floater										
19	222030363	1329	17.41	-75.15	1005	095/55	10		MP	21
Comments: Midpoint NE set end 2 frames up										
20	222050539	1341	17.96	-74.59	1011	095/40	10		EP	22
Comments: Endpoint NE last report										
Comments:										
Comments:										

[redacted]

Comments:										