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

Flight ID__20240704I1____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

__x__ 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___20240704I1_Dropsonde Scientist__Sellwood_____AVAPS Operator___Patel/Santoni_____

Mission ID__1902A_____Take Off _____0800_____KLAL_____ 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	222030369	938	20.39	-81.42	1008	060/30	10			1
Comments: IP N removed first 10 sec of Temp										
2	N/A	950								X
Comments: Midpoint N bad sonde unable to backup due to land below										
3	222030381	1004	18.77	-81.13	981	030/93	10			2
Comments:RMW N										
4	222010813	1007	18.58	-81.14	970	155/33	10			3
Comments: Center										
5	222030375	1009	18.42	-81.15	985	210/78	10			4
Comments: RMW S titled vortex big temperature inversion										
6	222030334	1020	17.74	-81.16	1005	215/15	10			5
Comments: Midpoint S										
7	222959545	1032	17.00	-81.18	1005	175/05	10			6
Comments: Endpoint S										
8	222060087	1046	17.49	-80.37	1006	160/26	10			7
Comments: IP SE										
9	222010088	1057	18.11	-80.93	1004	180/27	10			8
Comments: Midpoint										
10	222050555	1106	18.56	-81.35	983	170/63	10			9
Comments: RMW SE open eyewall marked maxwind										
11	202030341	1108	18.73	-81.46	970	120/24	10			10
Comments: Center										
12	222010045	1114	19.03	-81.72	997	030/65	10			11
Comments: RMW NW a little late										

Storm _____TEST_____Flight ID_____ Dropsonde Scientist_____AVAPS Operator_____

Mission ID_____ Take Off _____ La.nding_ _____

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	222050551	1120	19.41	-82.07	1005	050/35	10		MP	13
Comments: Midpoint NW										
14	222060061	1133	19.92	-82.89	1009	045/35	10		EP	14
Comments: Endpoint NW										
15	222010089	1207	17.67	-83.15	1008	010/13	10		IP	15
Comments IP SW										
16	222010055	1219	18.24	-82.57	1005	360/17	10		MP	16
Comments: Midpoint SW										
17	222030377	1231	18.74	-81.92	980	255/42	10		RMW	17
Comments: RMW SW										
18	222060086	1233	18.85	-81.83	972	150/28	10		Center	18
Comments: Center set end 219.75										
19	222030368	1236	19.05	-81.71	989	075/84	10		RMW	20
Comments: RMW NE										
20	221530950	1241	19.28	-81.54	1002	090/40	10		MP	19
Comments: Midpoint early due to land wind dropouts at top set end 1 frame up										
21	222030366	1300	20.07	-80.59	1008	080/30	10		EP	22
Comments: EP last report										
Comments:										
Comments:										

Comments:

Storm ______TEST___________Flight ID________________ Dropsonde Scientist__________________AVAPS Operator__________________________

Mission ID_______________ Take Off __________________________________ Landing_ ___________________________________

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