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

Flight ID_20240630I1_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___0202A_____Dropsonde Scientist__Sellwood_____AVAPS Operator__Patel/Santorini_____

Mission ID__20240630I1_____ Take Off ___1400 St. Croix_____ 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	222070572	0951	16.68	-60.86	1016	85/20	10		Ferry	1
Comments: ONR Drop 1 of 3 in transit to storm										
2	222021022	1002	16.29	-59.96	1015	95/19	10		Ferry	2
Comments: ONR Drop 2										
3	204270886	1039	14.60	-56.99	1014	45/22	10		Ferry	3
Comments: ONR Drop 3										
4	221640561	1127	12.75	-53..90	1012	65/20	10	28.49	IP North	4
Comments: BT combo post splash end 221.75										
5	221750196	1135	12.23	-53.90	1011	65/29	10		QP1 N	5
Comments: ONR quarter point post splash end 233.50										
6	221740651	1141	11.80	-53.90	1009	55/35	10		MID N	6
Comments: Midpoint N set end 1 frame up										
7	22150206	1149	11.90	-53.90	1007	85/35	10		QP	7
Comments: ONR quarter point										
8	221750577	1201	10.52	-53.96	969	110/13	10	28.74	Center	8
Comments: Center BT combo set end 191.00										
9	221640990	1204	10.38	-53.96	985	190/88	10		RMW S	9
Comments: RMW S NWS set end 229.75 to get surface wind										
10	221420511	1215	9.66	--53.96	1008	000/72	10		MID	10
Comments: Midpoint S BT Combo										
11	222520311	1227	8.9	-53.96	1011	235/16	10		EP S	11
Comments: Endpoint S										
12	221210172	1243	9.78	-53.27	1011	195/39	10		DWL mid	13

Comments: Midpoint of downwind leg BT combo removed 10s T at top for slow EQ

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	222520317	1259	10.55	-52.58	1011	185/30	10		IP E	14
Comments: IP Combo E set end 246..50										
14 (7)	221730325	1159	10.67	-52.92	977	55/78	10		RMW	12
Comments: missed N RMW should have been ob 7										
15	221531107	1313	10.58	-52.53	1007	170/44	10		MID	15
Comments: Midpoint E										
16	221640974	1322	10.62	-54.22	997	125/113	10		RMW	16
Comments: RMW E										
17	221750687	1325	10.56	-54.36	966	240/17	10		CENTER	17
Comments: Center										
18	221531108	1330	10.63	-54.58	984	295/84	10		RMW	18
Comments: RMW W										
19	222010799	1334	10.63	-54.82	1002	340/33	10		QP	20
Comments: ONR quarterpoint 1 W										
20	222050558	1340	10.63	-55.26	1007	335/26	10		MID	21
Comments: MID W										
21	222520365	1347	10.62	-55.74	1009	310/27	10		QP	22
Comments: ONR quarterpoint 2 W										
22	222021024	1353	10.54	-56.17	1010	325/20	10		EP	23
Comments: EP W BT combo										
23	222010790	1404	10.84	-56.88	1011	040/16	10		FAM	35
Comments: Start module SE corner ELD overrode launch lat/lon										
24	221350540	1408	11.15	-57.09	1011	015/25	10		FAM	24

Comments: module mid

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 #
25	221740802	1413	11.39	-57.25	1011	025/22		10	FAM	25
Comments: module SW corner										
26	221750205	1417	11.54	-57.1	1012	025/19		10	FAM	26
Comments: module midpoint 1 SW-NW										
27	221430440	1422	11.75	-56.89	1011	010/19		10	FAM	27
Comments: module midpoint 2 SW-NW										
28	221740663	1426	11.93	-56.71	1011	015/23		10	FAM	28
Comments: EP NW										
29	222120865	1430	11.74	-56.48	1010	015/23		10	FAM	29
Comments: module midpoint NW-NE										
30	222020514	1434	11.55	-56.30	1009	360/20		10	FAM	30
Comments: module endpoint NE										
31	221530533	1439	11.30	-56.50	1010	355/24		10	FAM	31
Comments module midpoint 1 NE – SE Set end 226.25 removed first 10s of Temp										
32	222020986	1443	11.07	-56.73	1011	360/23		10	FAM	32
Comments module midpoint 2 NE-SE										
33	222021021	1452	11.16	-57.27	1011	025/19		10	Ferry	33
Comments : ONR Ferry drop 1										
34	211750195	1526	12.88	-59.90	1013	065/22		10	Ferry	34
Comments: ONR Ferry drop2 set end 580.75										

35	222010102	16.01	14.79	-61.92	1014	080/20		10	Ferry	36
Comments: ONR Ferry drop 3 last report										
Comments:										