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

Flight ID __20240906I1__   Storm __LARRY__   Dropsonde Scientist __Hazelton__

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.]

_____ 4.   Debrief at the base of operations.

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

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Storm **LARRY**   Flight ID **20210906 I1**   Dropsonde Scientist **Hazelton**   AVAPS Operator _____

Mission ID **W812 A** (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 Higt (m)	SST (°C)	Eye, Eyewall, Rainband, etc.	Ob #	
1	212350113	1703	20.96	53.19	1001.6	220/40	10	27.5	—	1	Combo
Comments	Late launch , post splash , endpoint S										
2	204524421	1718	21.56	53.23	977.6	210/71	10	—	—	2	
Comments	~~Endpoint~~ Midpoint S										
3	204520770	1726	22.10	53.45	957.5	070/09	10	—	Eye	3	
Comments	Eye sonde (center)										
4	204520759	1744	23.33	53.76	995.7	050/72	10	—	—	5	
Comments	Midpoint N										
5	211924029	1754	23.97	54.96	1005.0	065/38	10	28.31	—	6	Combo
Comments	Endpoint N										
6	212250268	1852	23.16	55.33	1002.8	010/41	10	28.61	—	7	Combo
Comments	Endpoint NW Post Splash Data										
7	211924032	1905	22.72	51.51	989.9	355/67	10	—	—	8	
Comments	Midpoint NW Post Splash Not Detected										
8	211921052	1912	22.52	54.11	~~960.2~~ 960.2	37/108 125/05	10	—	Rmw NW	9	
Comments	RMW NW										
9	203850390	1911	22.33	53.67	955.8	~~~~	10	27.46	Center	10	Combo
Comments	Center, Splash data not detected										
10	211910519	1933	21.83	52.81	990.8	180/81	10	~~~~	—	11	
Comments	Midpoint SE										

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11	2122 SOL76	1975	21.78	52.00	—	—	—	26.92	—	13	Combo
Comments	Endpoint SE										
12	212 SOL06	1959	22.58	51.98	1003.5	130/44	12	27.11	—	14	Combo
Comments	Downwind legs										
13	—	2011	—	—	—	—	—	27.96	—	—	
Comments	Endpoint NE Sonde died										
17	2123S0119	2015	23.18	52.50	1000.6	105/61	10	—	—	15	
Comments	Endpoint NE Backup										
15	712101022	2023	~~22.11~~ 22.11	~~52.05~~ 53.05	977.2	110/60	10	—	—	16	
Comments	midpoint NE										
16	2123SOL21	2028	22.73	53.31	969.5	105/79	10	—	Eyewall NE	17	
Comments	Eyewall NE										
17	2192 1030	2036	22.38	53.81	958.5	240/23	10	—	Center	18	
Comments	Center										
18	712C50L77	2106	22.31	53.89	959.8	290/19	10	—	—	19	
Comments	Eyewall/mixing sonde										
19	203740550	2116	22.17	54.17	969.8	290/65	10	—	Eyewall SW	20	
Comments	Eyewall SW										
20	2122	2122	21.95	54.59	982.9	280/51	10	—	—	21	
Comments	Midpoint SW										

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Mission ID _____ (ex. 0101A)   Take Off _____ Landing _____

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21	4225067	236	21.52	55.90	1002.6	295/37	10	—	—	23
Comments	Endpoint SW									
Comments										
Comments										
Comments										
Comments										
Comments										
Comments										
Comments										
Comments										
Comments										