20U0828 I1

Flight ID 20210828H2 **Storm** Ida **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.

0809A   IDA

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

Storm __IDA__ Flight ID __20210824H1__ Dropsonde Scientist __Hazelton__ AVAPS Operator _____

Mission ID __0814A__ (ex. 0101A) Take Off __0757__ 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	20452237	0919	25.19	86.71	1008.7	055/29	10	29.6	—	1	Combo
Comments	IP, endpoint NW										
2	20360335	0931	24.55	86.00	1005.0	130/34	12	29.2	—	2	
Comments	Midpoint NW										
3	20350246	0940	24.28	85.51	—	—	—	28.69	RMW	3	
Comments	RMW NW, no surface										
4	20465038	0944	24.06	85.25	986.7	190/8	10	28.59	Center	4	
Comments	center										
5	20453050H	0950	23.90	85.07	981.8	190/70	10	—	RMW	5	
Comments	RMW SE										
6	20465099	1001	23.93	84.54	1004.0	120/30	10	No Data	—	6	Combo
Comments	Mid SE										
7	20452383	1011	23.11	83.89	1008.5	170/31	10	29.12	—	8	Combo
Comments	End SE										
8	20454708	1042	25.19	84.41	1008.1	115/52	10	29.79	—	9	Combo
Comments	Tiny Late Launch End NE										
9	20452286	1050	24.79	84.80	1003.6	110/42	10	28.99	—	10	
Comments	Mid NE										
10	20452375	1058	24.44	85.27	991.6	106/82	10	29.19	RMW	11	
Comments	Small Late Launch RMW NE Fast Fall Undetected										

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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 #
11	20454386	1102	24.28	85.46	986.3	165/11	10	—	Center	12
Comments Center										
12	20426059	1113	~~24.~~	~~85.~~	1002.0	275/31	10	—	—	13
Comments Qtr SW 23.73										
13	20305027	1121	23.36	86.45	1007.1	295/23	10	2	—	14	Cont
Comments Mid SW, Late Launch Detect										
14	20465003	1127	23.07	86.76	~~~~ 1008.1	295/13	10	—	—	15	Cont
Comments End SW										
15	—	~~~~								
Comments End S ~~~~ BAD, NO UWINDS, NOT SENT										
16	20452377	1144	23.95	85.61	1008.5	275/26	0	—	—	16
Comments End S Backup										
17	20452137S	1154	23.66	85.62	1002.9	238/33	10	~~bad~~	—	17
Comments Midpoint S										
17	20471029	1403	24.29	85.70	—	—	—	—	—	17
Comments Quarterpoint S										
19	20465003S	1205	24.43	85.67	986.4	N/A	N/A	—	Center	19
Comments Center										
20	20452137	1210	24.79	85.72	—	—	—	—	RMW	20
Comments RMW N No surface wind										

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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 #
21	~0452381 ~~230000~~	1122	25.58	85.77	1006.0	080/43	10	28.96	—	1.1
Comments	Midpoint N									
22	—	1227		—	—	—	—	—	—	
Comments	Endpoint N — Bad couple issues (GPS dropouts) — no transmit —									
~~0023~~	~0945 30194~ ~~0024~~	1228	26.00	85.80	1007.3	070/35	10	—	—	22
Comments	Backup Endpoint N									
24	~04530743	1236	25.67	86.92	1007.6	040/31	10	—	—	
Comments	Rainband sonde NW, Late Launch, Post Splash BAD DATA NO SEND									
25	~0452382	1246	25.07	86.82	1007.6	00/32	12	—	—	23
Comments	Rainband sonde WW									
26	~0452 0776	1301	24.68	87.90	1010.5	015/27	0	—	—	24
Comments	Endpoint W									
27	~0452384	1334	24.68	87.87	1009.8	020/27	12	—	—	25
Comments	Endpoint W									
28	~0452 0758	1347	24.69	86.86	1003.7	035/38	10	29.19	—	26
Comments	Midpoint W									
29	~0452 0795	1358	24.62	85.99		—	—	—	Eyewall late	27
Comments	Rnw W, No Surface, Late Launch									
30		1401	24.79	85.83		—	—	28.27	Center	28
Comments	Center, Fast Fall Not Caught, No Surface									

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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 #
31	204680036	1405	24.79	85.62	—	—	+0—	—	Eyewall	29
Comments	Late launch RMW E									
32	204520777	1415	24.75	84.94	1002.0	155/5	10	—	—	30
Comments	Midpoint E									
33	204680398	1429	24.70	83.97	1046.9	150/44	12	28.87	—	31
Comments	Enpoint E (Combo)									
Comments										
Comments										
Comments										
Comments										
Comments										
Comments										