

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

Flight ID 20210609HRF ^{20210828 I1} Storm Sara ^{Isla} Dropsonde Scientist Sethwood ^{Huxelton}

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

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Storm

Flight ID

Dropsonde Scientist

AVAPS Operator

Mission ID 03091A (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 #
1	20952137	0919	25.19	86.71	1008.7	055/29	10	29.6	—	1
Comments TP, endpoint NW										
2	20360335	0931	24.55	86.00	1005.0	030/39	12	29.2	—	2
Comments midpoint NW										
3	203350246	0940	24.28	85.51	—	—	—	28.99	RMW	3
Comments RMW NW, no surface										
4	209650038	0944	24.06	85.25	976.7	019/08	10	28.99	Center	4
Comments center										
5	209530504	0950	23.90	85.07	978.8	010/70	10	—	RMW	5
Comments RMW SE										
6	209650399	1001	23.73	84.54	1004.0	120/30	10	no data	—	6
Comments mid SE										
7	209521333	1011	23.11	83.89	1008.5	120/31	10	29.12	—	7
Comments End SE										
8	209521108	1041	25.19	84.41	1008.1	115/52	10	29.79	—	8
Comments TP, late land End NE										
9	20952186	1050	24.79	84.80	1003.6	110/42	10	29.99	—	10
Comments mid NE										
10	209521375	1158	24.44	85.27	991.6	106/62	10	29.19	RMW	11
Comments Small late land RMW NE Fast Fall Undetected										

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 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	20426454	1113	24.48	85.23	1002.0	135/31	10	—	—	13
Comments Qtr SW 23.73										
13	20338024	1121	23.36	86.45	1007.1	295/23	10	2	—	14
Comments Mid SW 1 Lute Lumar Detct										
14	204650034	1127	23.07	86.76	1000.0	215/13	10	—	—	15
Comments End SW 1001.1										
15	—	1103	—	—	—	—	—	—	—	—
Comments End S 1001.1										
16	20454371	1144	22.95	85.61	1008.5	251/16	0	—	—	16
Comments End 2 Backup										
17	204521385	1154	23.66	85.62	1002.9	235/33	10	2.0	—	17
Comments Midpoint S										
18	204710244	1203	24.29	85.70	—	—	—	—	—	18
Comments Quarterpoint S										
19	204650035	1205	24.43	85.67	986.4	NA	NA	—	Center	19
Comments Center										
20	20454374	1210	24.74	85.72	—	—	—	—	RMW	20
Comments RMW N No surface wind										

-6mbs

-6mbs

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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	20452381 20452381	1226	25.58	85.77	1006.0	080/43	10	28.96	—	21
Comments	Midpoint N									
22	20452381 20452381	1227	—	—	—	—	—	—	—	—
Comments	Endpoint N - Back, couple issues (GPS dropout) - no transmit									
2013 2045301941	1228	26.60	85.80	1007.3	070/35	10	—	—	—	22
Comments	Backstop Endpoint N									
23	204530713	1236	25.67	86.92	1007.6	090/31	10	—	—	—
Comments	Rainband Sonde NW, late launch, Post splash BAD DATA No SEND									
25	20452382	1246	25.07	86.82	1007.6	001/32	12	—	—	23
Comments	Rainband Sonde NW									
26	204520776	1301	24.68	87.90	1010.5	065/27	0	—	—	24
Comments	Endpoint N									
27	20452389	1339	24.68	87.82	1009.8	020/27	12	—	—	25
Comments	Endpoint N									
28	204520758	1347	24.69	86.86	1003.9	035/38	10	29.14	—	26
Comments	Midpoint W									
29	204520745	1358	24.62	85.99	—	—	—	—	eyewall center	27
Comments	RW W, No surface, late launch									
30	—	1401	24.74	85.83	—	—	—	28.27	Center	28
Comments	Center, First Fall Not caught, No surface									

204520745

Storm _____ Flight ID _____ Dropponde Scientist _____ AVAPS Operator _____
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[illegible]