

0309A IDA

20210827I Ica Hazelton

Flight ID ~~20210827I~~ Storm ~~ICA~~ Dropsonde Scientist ~~5/1/2021~~

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.

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

Storm IDA Flight ID 20210821L Dropsonde Scientist Hazelton AVAPS Operator _____
 Mission ID 0309A (ex. 0101A) Take Off 0747 UTC 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	203810276	0941	20.67	83.19 W	1007.0	050/19	10	29.62	—	01
Comments <u>Good</u> <u>End NW</u>										
2		0952	20.16	82.61 W	1005.7	030/22	10	—	—	02
Comments <u>Good</u> <u>Mid NW</u>										
4	202520187	0957 1007	19.99	81.59 W	997.9	090/20	12	—	Center	03
Comments <u>Good</u> <u>Center</u>										
3	203810269	0958 1008	20.03	82.15	1004.7	035/39	10	—	Center	04
Comments <u>Good</u> <u>atr NW</u>										
5	203630323	1014	19.57	81.19	1001.4	190/39	10	—	—	05
Comments <u>Good</u> <u>atr SE</u>										
6	202630526	1020	19.29	80.89	1004.1	190/30	10	—	—	07
Comments <u>Some Post Splash Not Detected</u> <u>Mid SE</u>										
7	20263072	1031	18.79	80.18	1006.5	190/26	10	29.2	—	08
Comments <u>Some Post Splash Not Detected</u> <u>End SE</u>										
8	203810262	1110	21.09	81.20	1006.0	095/45	10	—	—	09
Comments <u>End NE</u>										
9	20335029	1113	20.89	81.37	1007.8	065/41	10	—	—	10
Comments <u>Post Splash Data</u> <u>Mid SE</u>										
10	20330198	1119	20.52	81.60	1000.9	055/40	10	—	—	11
Comments <u>Late Launch Detect, Had to Fix some data</u> <u>atr NE</u>										

NWS sondes: |||| ||| ONR Sondes: |||| ONR BTs: || NE

ONR BT
29.62

~~29.21~~

29.22

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

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	20350100	1137	19.67	81.98	1002.0	310/20	10	—	—	12
Comments Good Sonde Qtr SW SW										
11	20350277	1141	19.78	82.18	1002.5	305/13	10	—	—	13
Comments mid SW SW										
13	203510303	1154	18.87	82.82	1008.4	325/07	10	—	—	14
Comments SW End SW										
14	203631817	1210	18.24	81.73	1007.0	225/14	10	21.0	—	15
Comments Good Sonde SW End S										
15	20360523	1221	19.55	81.75	1004.6	240/21				16
Comments SW mid S										
16	20335032	1228	20.05	81.74	—	—	—	—	—	17
Comments No surface (Close) Qtr S										
17	203350410	1232	20.33	81.75	997.7	10/13	12	—	center	18
Comments Good center										
18	203320169	1242	21.90	81.98	1003.6	105/14	10	—	—	19
Comments Good Qtr N										
19	20320327	1147	21.23	81.98	1006.4	065/147	0	—	—	20
Comments (fail) mid N										
20	20335020	1150	20.03	82.04	1008.4	070/33		29.03	—	21
Comments Good 1159 1157 no launch End N										

Combo

Combo
 CW

ONR: 111

NWS: 111 111
 111

BTs: 111

