

Dropsonde Scientist

Flight ID 2090704H Storm Barry Mission ID 0902A

Dropsonde Scientists Warneke / Moscar

AVAPS Operators ↓ 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 are often 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 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. Download all raw and processed AVAPS files to thumbdrive
3. Brief the LPS on equipment status and turn in completed forms and thumbdrive.
4. Debrief at the base of operations.
5. Determine the status of future missions and notify Field Program Director as to where you can be contacted.

Take off - Lakeland 1948 Z
Land - Lakeland 2048 Z

NOAA P-3 GPS Dropwindsonde Scientist Log (revised March 2019)

Storm 201907242 Flight ID 092A
Mission ID BARRY (exp. 0213A)

Dropsonde Scientist Sellwood
Dropsonde Scientist

AVAPS Operator W. W. W. make
AVAPS Operator Mascara

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ALT
101C
101C
101C
101C
101C
101C
101C
201C
201C

Drop #	Sonde ID	Time UTC	Lat (°N/S)	Long (°E/W)	Sfc Pressure (mb)	Wind closest to		SST (°C)	Eye/Eyewall, Rainband, etc.	Obs #
						Dir/Spd (deg/kt)	Hgt (m)			
1	182530331	2205	28.92	90.94	995.1	85/21	10			1
Comments IPT 15' point over water LLD had end 277.75										
2	182520038	2208	28.75	91.06	994.5	65/11	10			2
Comments Center										
3	182630347	2220	27.91	91.52	996.1	325/25	10			3
Comments mid end 274.75										
4	182520044	2234	27.07	91.99	1001.3	375/21	10			4
Comments end - early to point rainband with radar										
5	182950260	2257	27.02	89.99	1003.6	195/37	10			5
Comments start pass #2 end 281.25 LLD										
6	183010075	2315	28.02	90.57	994.8	200/40	10			6
Comments mid leg 2 inband										
7	182630086	2326	28.73	91.03	993.5	065/11	10			7
Comments center (not really)										
8	182630155	2358	29.22	92.41	1000.1	025/29	10			8
Comments DW leg for SFWZ (mid 5 end over land)										
9	182940753	0016	27.91	92.98	1000.9	330/37	10			9
Comments start final pass at 20,000 ft										
10	182331283	0020	27.89	92.06	999.5	325/18	10			10
Comments mid part leg 3										

NOAA P-3 GPS Dropwindsonde Scientist Log (revised March 2019)

Storm
Mission ID

Flight ID
(exp. 0213A)

Dropsonde Scientist
Dropsonde Scientist

AVAPS Operator
AVAPS Operator

20K
10K
10K
10K
10K

Drop #	Sonde ID	Time UTC	Lat (°N/S)	Long (°E/W)	Sfc Pressure (mb)	Wind closest to		SST (°C)	Eye/Eyewall, Rainband, etc.	Obs #
						Dir/Spd (deg/kt)	Hgt (m)			
11 Comments	182520042	0033	27.88	91.59	996.7	290/28	12			11
12 Comments	182630344	0049	27.90	90.00	1000.5	195/37	10			12
13 Comments	182221124	0100	27.89	89.05	1004.9	180/35	10			15
14 Comments	182630152	0135	28.91	87.37	1010.1	170/20	10			14
15 Comments	182520048	0141	28.54	87.34	1011.0	185/25	10			8
Comments										
Comments										
Comments										
Comments										
Comments										

last drop at altitude W of center

mid WE leg at 10,000 ft

End WE leg

landfill module N drop end 293.5 XFLRIT

landfill module S drop set end 290.0