

Dropsonde Scientist

Flight ID 20190711H2 Storm Barry Mission ID 0502A

Dropsonde Scientists Sellwood

AVAPS Operators Warneke

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.

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

Storm 20190711H2
Mission ID

Flight ID OSO2A
(exp. 0213A) BARRY

Dropsonde Scientist Sellwood
Dropsonde Scientist

AVAPS Operator W. W. Wake
AVAPS Operator



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	182610123	2123	29.04	87.89	1005.0	130/24	10			1
Comments IP surface T 28c consistent with Prev day										
2	182531177	2135	28.31	88.74	1003.2	80/21	12			2
Comments mid LEG 1 in										
3	182520046	2144	27.79	89.30	1001.5	70/8	10			3
Comments center (from 20K ft)										
4	182621212	2155	27.13	90.05	1003.4	315/31	12			4
Comments mid leg 1 out										
5	182630088	2207	26.50	90.71	1005.2	280/30	10			5
Comments EP SW backup sonde before sonde started transmitting										
6	182630334	2208	26.54	90.69	1005.1	275/27	10			6
Comments LLD (original drop at EPSW) x'd winds to 40S x FL										
7	182940761	2244	26.56	87.92	1007.0	215/30	10			7
Comments mid leg 2 in EP leg 2 in										
8	182640534	2258	27.25	88.68	1005.7	215/28	?			8
Comments mid leg 2 out in LLD (only 10S kept FL) no heights bottom haul										
9	182640529	2322	28.43	90.02	1005.0	45/18	10			9
Comments mid leg 2 out back down to 20K ft										
10	182640455	2331	28.57	90.65	1004.4	50/25	10			10
Comments end leg 2 XFLRH										

20,000 ft

15,000 ft

10,000 ft

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AVAPS Operator
AVAPS Operator

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						Dir/Spd (deg/kt)	Hgt (m)			
11	182630066	2344	27.80	90.97	1003.0	305/03	10			11
Comments	start leg 3 end 290 75 junk at bottom									
12	182610179	2357	27.76	90.27	1003.2	360/17	12			12
Comments	mid inboard leg 3 x FLRH									
13	182640553	0008	27.77	89.28	1002.1	330/4	10			13
Comments	center - agrees with USAT center a few minutes prior									
14	182630101	0020	27.78	88.23	1002.6	155/40	10			14
Comments	mid out leg 3									
15	183010078	0030	27.77	87.36	1007.8	190/38	12			15
Comments	EP East set end 567.75 x FLRH									
14	182630332	0042	28.52	88.03	1004.3	190/33	10			14
Comments	Supplemental drop East									
17	182640531	0109	28.57	89.50	1002.0	55/27	10			17
Comments	mid N/S leg 4 (slapped end due to lanel)									
18	182630887	0118	27.79	89.30	1001.8	305/08	10			18
Comments	center can see wind shift in Stewart									
19	182630333	0129	26.94	89.30	1005.2	250/34	10			19
Comments	mid South									
20	182221123	0142	26.03	89.50	1006.4	250/25	10			20
Comments	and South last dropsonde									

10,000 ft
 20,000 ft
 10,000 ft