

Dropsonde Scientist

Flight ID 20191018H Storm PTCLP Mission ID 0316A

Dropsonde Scientists Schwab

AVAPS Operators mae

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 PTC14 Flight ID 0316A
Mission ID 201910184 (exp. 0213A)

Dropsonde Scientist Selward
Dropsonde Scientist

AVAPS Operator Mac
AVAPS Operator

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Drop #	Sonde ID	Time UTC	Lat (°N/S)	Long (°E/W)	Sfc Pressure (mb)	Wind closest to		SST (°C)	Eye/Eyewall, Rainband, etc.	Ob #
						Dir/Spd (deg/kt)	Hgt (m)			
1	19205877	1326	25.00	-88.01	1008	155/31	12		IP	1
Comments em 277.0 removed ball/ban 3 no sats										
M1	150545114	1327							mini	X
Comments mini sonde										
2	191720799	1348	25.13	-8943	1001	205/40	10		1/3	2
Comments kept left 3 winds										
3	191740199	1412	25.00	-91.00	1004	335/9	10	28	1/3	3
Comments point 2 / DT's (2) comms 1 ball DT										
M2	150545047	1413							mini	
Comments mini										
4	19260507	1432	25.04	-92.49	1006	335/18	12		EPW14	
Comments end 297.25										
M3	161545004	1433							mini	
Comments										
5	192741786	1444	25.99	-92.47	1004	05/15	12		EPW25	
Comments end 301.25										
M4	161635176	1445							mini	
Comments										
6	Ball Sonde	1459							1/3	
Comments										

mini 738

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

Storm PTC 16

Flight ID 20191018H1

Dropsonde Scientist

Sellwood

AVAPS Operator

Mac

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Mission ID 0316A (exp. 0213A)

Dropsonde Scientist

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)			
m5	161545180	1500							mini	1
Comments										
7	192540922	1500	26.00	-90.88	1004	60/19	10		1/3 W→E	6
Comments backup for #6 end 283.75										
8	192620682	1519	26.03	-89.06	1001	135/35	12		2/3 W→E	7
Comments										
m6	16150522	1519							mini	
Comments										
9	192621049	1533	26.13	-87.99	—	170/40	10		CPE1	8
Comments Set weirus missing stopped 904										
m7	152325000	1533							mini	
Comments										
10	192540691	1549	27.01	-87.04	1009	150/14	10		EPE2	9
Comments										
m8	150835063	1549							mini	
Comments										
11	192620505	1609	27.00	-88.51	1005	100/31	10		1/3 E→W	10
Comments end 281.25										
m9		1609							mini	
Comments last mini										

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

Storm PTC16

Flight ID 20191018H1

Dropsonde Scientist
Dropsonde Scientist

Sellwood

AVAPS Operator
AVAPS Operator

Mac

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Mission ID 0316A

(exp. 0213A)

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)			
12	192620510	1628	27.00	-90.01	1004	100/25	10		2/3 E→W	11
Comments BT combo (2-1 bad)										
13	192620520	1644	27.05	-91.50	1006	80/29	10		EP W/1	12
Comments										
14	192540702	1654	27.97	-91.46	1007	60/29	12		EP W/2	13
Comments										
15	192740657	1711	27.99	-90.0	1006	55/26	10		1/3 N→E	14
Comments										
16	192750285	1735	28.10	-88.24	1006	n/a	—			15
Comments no T or RH data no GPIT										
17	192620508	1751	28.12	-86.90	1007	125/27	10	27.6		16
Comments BT combo end 291.00										
Comments										
Comments										
Comments										
Comments										