Dropsonde Scientist

Flight ID 20210811H1 **Storm** Fred **Mission ID** _____

Dropsonde Scientists Sellwood Take off 1947 Land 0315

AVAPS Operators Underwood _____

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

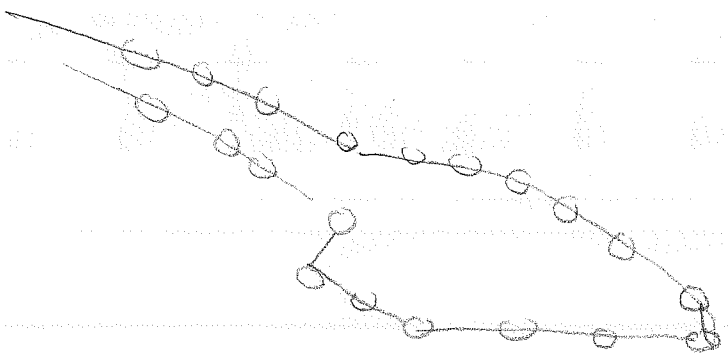
- ☑ 1. Determine the status of the AVAPS and workstation. Report results to the LPS.
- ☑ 2. Confirm the mission and pattern selection with the LPS and assure that enough dropsondes are on board the aircraft.
- ☑ 3. Modify the flight pattern or drop locations if requested by AOC to accommodate changes 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)

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Mission ID 0406A (exp. 0213A) | Dropsonde Scientist | AVAPS Operator

Drop #	Sonde ID	Time UTC	Lat (°N/S)	Long (°E/W)	Sfc Pressure (mb)	Wind closest to Dir/Spd (deg/kt)	Wind closest to Hgt (m)	SST (°C)	Eye/Eyewall, Rainband,etc,	Ob #
1	20335025Y	2106	~	~	~	~	~			X
Comments	slow fall – do not transmit – no launch detect									
2	20263057B	2108	28.86	-76.85	1016	060/16	10			1
Comments	back up for drop #1									
3	20363032-7	2119	~	~	~	~	~			X
Comments	no launch detect									
4	19295666	2120	23.13	-75.93	1015	075/13	10			2
Comments	back up for drop #2 – dry < 800 mb									
5	20335080	2133	22.33	-74.[illegible]	1014	040/18	10			3
Comments	really dry – removed 163 secs of wind at top (fall speed)									
6	20552017Z	2148	21.49	-73.96	1013	055/14	10			4
Comments	turn to north leg over Hispaniola									
7	20345143Z	2201	21.22	-72.87	1012	095/18	10			5
Comments	EW leg #1									
8	20515028Y	2211	21.00	-71.99	1014	100/19	12			6
Comments	EW leg #2									
9	20264007S	2222	20.75	-70.99	1013	140/24	10			7
Comments	EW leg #3 we have a cloud!									
10	20264003Z	2234	20.47	-69.96	1014	110/19	10			8
Comments	turn to NW/SE leg wetter + windier									

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(exp. 0213A)

Dropsonde Scientist
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AVAPS Operator
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Drop #	Sonde ID	Time UTC	Lat (°N/S)	Long (°E/W)	Sfc Pressure (mb)	Wind closest to Dir/Spd (deg/kt)	Wind closest to Hgt (m)	SST (°C)	EyeEyewall, Rainband,etc,	Ob #
11	20173018 2	2247	19.75	-68.99	1013	115/15	10			9
Comments	NW/SE									
12	19275141	2302	1897	-6800	1016	115/09	12			10
Comments	turn to N/S set end 2 frames up									
13	19510551	2318	1752	-6800	1014	105/14	10			11
Comments	SE point									
14	19302244	2341	19,42	-70.02	1013	140/17	10			12
Comments	19,000 ft E/W leg									
15	20364026 4	0008	17.42	-72.03	1012	190/10	10			13
Comments	EW leg 15000 ft									
16	19260167	0052	17.48	-79.04	1013	245/07	10			14
Comments	EW leg 23000 ft									
17	20250089	0042	18.25	-74.53	1012	100/08	10			15
Comments	SE/NW leg 26000ft dry → onspg									
18	20262052 4	0053	19.06	-74.92	1013	090/22	10			16
Comments	SE/NW leg east ends all legs — turn point									
19	20382018 4	0108	19.90	-7375	1013	055/27	10			17
Comments	SW/NE turn point									
20	20264007 1	125	21.10	-74.71	1014	060/16	10			18
Comments	SE/NW final leg									

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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)	EyeEyewall, Rainband,etc,	Ob #
						Dir/Spd (deg/kt)	Hgt (m)			
21	20345135 3	142	22.03	-75.87	1015	055/16	10			19
Comments	SE/NW leg									
22	20264 0085	157	23.02	-77.02	1015	060/20	10			20
Comments	Last Report									
Comments										
Comments										
Comments										
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