

Take off: 1958

Lakehead

Land

**Dropsonde Scientist**

Flight ID 20210819HI

Storm Grace

Mission ID 1607A

Dropsonde Scientists Sellwood

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)

Storm Grace  
Mission ID 1607A

Flight ID 2210819 #1  
(exp. 0213A)

Dropsonde Scientist Sellwood  
Dropsonde Scientist AVAPS Operator

Page# Under review

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	192540933	2145	22.04	-89.92	1007	105	19	10	29.4	1
Comments	1P NE AXBI Combo end 297.0									
2	192620161	2157	21.32	-90.33	1000	80	57	10		2
Comments	midpoint inbound									
3	204420099	2201	21.06	-90.44	998	075	47	10		3
Comments	quarter point inbound end 270.45 (ONK)									
4	204530609	2206	20.72	-90.63	996	350	15	10		7
Comments	center #1 end 292.0									
5	20470036	2210	20.45	-90.81	999	285	34	10		4
Comments	quarter point outbound (ONK)									
6	204860859	2219	19.97	-91.18	1003	275	17	10		5
Comments	midpoint outbound end 307.5									
7	204551426	2226	19.61	-91.27	1004	285	22	10		6
Comments	endpoint Pass 1									
8	204521397	2248	20.32	-90.55	1001	210	28	12		8
Comments	first offshore point pass 2 ~ midpoint end 277.0									
9	204770034	2255	20.75	-90.71	995	195	11	10		9
Comments	center #2 unbrgs 7 at bottom to get heights									
10	204521387	2304	21.27	-91.03	1000	050	49	10		10
Comments	quarter point inbound pass 2 (ONK)									

# 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 Page#

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)			
11	204260876	2308	21.53	-91.20	1003	055	48	10		11
Comments: Midpoint outboard										
12	204441108	2319	22.25	-91.65	1007	070	39	10		12
Comments: endpoint NW AXBT Combo										
13	192940309	2343	20.85	-92.84	1006	010	19	10		14
Comments: TP SW AXBT Combo										
14	192940095	2357	20.71	-91.95	1004	360	24	10		15
Comments: Midpoint inboard W/E end 295.0										
15	204420100	0003	20.72	-91.51	1000	345	33	10		16
Comments: quarterpoint inboard end 274.25										
16	204310004	0010	20.89	-91.02	994	110	09	10		17
Comments: center #3 end 295.25										
17	193120733	0015	21.02	-90.65	1000	110	55	10		18
Comments: quarterpoint outboard 1002										
18	204260887	0023	21.24	-90.17	1006	080	37	13		19
Comments: midpoint outboard (track more SW/NE) by draft near sfc										
19	204260883	0038	21.88	-89.53	1009	105	34	10		20
Comments: endpoint outboard last report (LLO -89.330796 21.882570)										
Comments:										

NOAA P-3 GPS Dropwindsonde Scientist Log

