

Takeoff: 19:53 Lakeland
Lond:

Dropsonde Scientist

Flight ID 20210518H1 Storm Grace Mission ID 1407A

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)

StormSpace
Mission ID 1407A

Flight ID 20210818 H1
(exp. 0213A)

Dropsonde Scientist Sellwood
Dropsonde Scientist AVAPS Operator Underwood

Page# 1

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	20352090	2127	21.10	-85.05	1012	085/01	12	50		1
Comments AXIST combo IT NW end 243.25										
2	203451514	2136	20.65	-84.77	1009	060/42	10			2
Comments midpoint inbound (early) removed RH at top										
3	203451374	2145	20.19	-84.47	1003	060/58	10			3
Comments quarterpoint inbound ONR										
4	202630410	2152	19.78	-84.21	990	095/10	10			4
Comments center - fairly clear										
5	202640668	2201	19.27	-83.88	1004	200/28	10			5
Comments quarterpoint outbound ONR										
6	203520226	2208	18.88	-83.64	1007	180/25	10			6
Comments midpoint end 232.50										
7	203550335	2224	18.21	-82.85	1010	165/25	10			7
Comments endpoint SE										
8	203440003	2248	19.95	-82.99	1011	105/53	10			8
Comments endpoint E										
9	202610578	2257	19.86	-83.55	1008	125/49	10			9
Comments midpoint inbound										
10	203431524	2305	19.86	-89.04	1003	130/47	10			10
Comments quarterpoint inbound										

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Dropsonde Scientist
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AVAPS Operator
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Page#

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						Dir/Spd (deg/kt)	Hgt (m)			
11	203550260	2306	19.86	-84.18	1002	130/44	10			11
Comments: Rnw (ONR) end 212.25										
12	203451384	2314	19.83	-84.66	991	010/33	10	29.9		12
Comments: centerish AXBT combo end 215.25										
13	203420255	2320	19.81	-84.99	1001	010/39	10			13
Comments: Rnw (ONR) Eyewall W outband - most winds band										
14	203631771	2325	19.81	-85.21	1004	005/28	12			14
Comments: quarter point (ONR) outband end 215.75										
15	203451383	2328	19.82	-85.52	1006	020/31	10			15
Comments: mid point outband										
16	203451272	2338	19.85	-86.39	1009	030/31	10	30.0		16
Comments: End point W AXBT combo										
17	203431520	0001	18.57	-85.66	1008	310/04	10			A
Comments: 1P SW AXBT combo										
18	203451418	0010	19.08	-85.35	1005	305/20	10			18
Comments: mid point inband SW/NE										
19	203520505	0018	19.51	-85.11	999	255/33	10			19
Comments: quarter point inband										
20	203600571	0021	19.64	-85.05	993	270/35	10			20
Comments: Eyewall SW end 237.75										

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(exp. 0213A) Dropsonde Scientist AVAPS Operator
AVAPS Operator

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						Dir/Spd (deg/kt)	Hgt (m)			
21	202610675	0023	19.75	-84.99	988	200/03	10			21
Comments: Center end 230.25										
22	X	0026	X	X	X	X	X	X	X	X
Comments: eyewall NE NLP										
23	203820052	0027	19.98	-84.85	998	105/3	10			22
Comments: backup for 22 remove lat/lon 210 - 220 seconds										
24	20561821	0029	20.11	-84.76	1003	055/48	10			25
Comments: quarter point outboard										
25	204420101	0037	20.56	-84.43	1009	100/56	12			24
Comments: midpoint outboard end 221.00										
26	192610892	0509	21.25	-84.01	1013	115/40	10			25
Comments: end point NE combo AVRT 1st report										
Comments:										
Comments:										
Comments:										
Comments:										
Comments:										