

take off: 1958 Amber Land

Dropsonde Scientist

Flight ID 2021081717 Storm Grace Mission ID _____

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

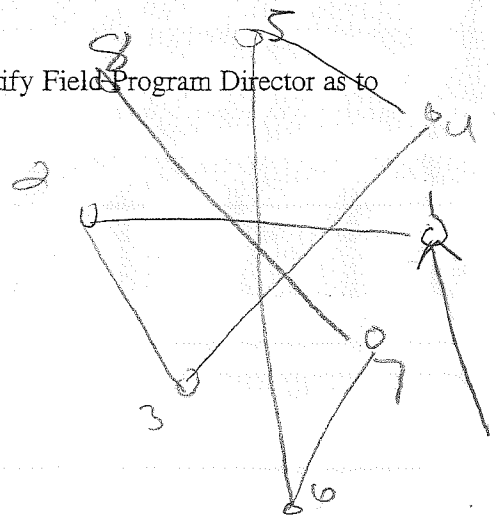
- 1. Determine the status of the AVAPS and workstation. Report results to the LPS.
- 2. Confirm the mission and pattern selection with the LPS and assure that enough dropsondes are on board the aircraft.
- 3. Modify the flight pattern or drop locations if requested by AOC to accommodate changes in storm 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 20210817T
Dropsonde Scientist Schwab
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)			
1	20206290	2149	18.78	-77.17	1010	165/44	12			1
Comments	1P E/W leg / end 2250Z									
2	20206506	2201	18.79	-78.15	1007	090/44	10			2
Comments	Midpoint inbound / end 2260Z									
3	20273007	2222	18.77	-79.08	1007	080/25	10			3
Comments	Center of leg (not storm center)									
4	X	22	X	X	X	X	X	X	X	X
Comments	backup NLD									
5	202061457	2224	18.76	-79.97	1009	055/28	10			4
Comments	Midpoint outbound end 2257Z									
6	202060502	2232	18.76	-80.64	1010	065/24	10	30.0		5
Comments	Endpoint w compass with AXBT end 213.25 (Ascom didn't capture)									
7	2020610500	2254	17.27	-79.97	1007	05/19	10			6
Comments	1P SW compass with AXBT end 230.25 no GPS at top so no winds									
8	202061775	2311	17.87	-79.23	1006	350/10	10			7
Comments	Midpoint									
9	202061813	2317	18.21	-78.88	1005	035/20	10			8
Comments	quarterpoint for UMR									
10	2020613773	2323	18.48	-78.68	1003	070/47	10			9
Comments	center CPA									

Sum over

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

Storm Mission ID: _____ Flight ID: _____ Dropsonde Scientist: _____ AVAPS Operator: _____ Page# _____
 (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.	Ob #
						Dir/Spd (deg/kt)	Hgt (m)			
11	203240575	2327	18.66	-78.52	1005	085/30	10			10
Comments	quarterpoint outboard for ONR end 245.75 no wind/GPS at top									
12	203240586	2337	19.13	-78.03	1008	105/57	10			11
Comments	midpoint outboard									
13	20721630	2545	19.47	-77.67	1011	105/42	12			12
Comments	end SW/NE leg no wind/GPS at top end 232.75									
14	202620553	0000	20.03	-78.73	1101	095/29	12			13
Comments	IP N end 220.75									
15	203150429	0013	19.23	-78.68	1007	095/50	10			14
Comments	midpoint inboard N/S leg									
16	203431783	0019	18.79	-75.86	1005	100/49	10			15
Comments	quarterpoint inboard ONR drop									
17	X	0028	X	X	X	X	X	X	X	X
Comments	center CPA no PTH									
18	203520213	0029	18.31	-78.72	1003	015/10	10			16
Comments	center CPA backup									
19	203440012	0037	17.73	-78.75	1007	205/13	12			17
Comments	quarterpoint outboard									
20	X	0040	X	X	X	X	X	X	X	X
Comments	midpoint outboard MLD									

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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/Wall, Rainband, etc.	Ob #
						Dir/Spd (deg/kt)	Hgt (m)			
21	20315091	0045	17.22	-78.76	1008	225/11	10			18
Comments: midpoint outbound end 255.50										
22	191930403	0105	16.65	-78.51	1010	200/09	10			19
Comments: endpoint S end 297.50										
23	19295064107	17.07	17.81	-77.81	1011	135/11	10			20
Comments: endpoint SE no wind at top set end 257.50										
24	203240580	118	17.68	-78.35	1009	155/25				21
Comments: midpoint SE/NW leg inbound end 239.00										
25	203290571	123	17.91	-78.59	1007	190/19	10			22
Comments: quarter point inbound ONR										
26	203520160	133	18.48	-78.99	1002	145/16	12			24
Comments: center CPA end 292.25										
27	X	138	X	X	X	X	X	X	X	X
Comments: quarter point outbound late GPS don't start										
28	203240095	139	18.77	-79.27	1006	080/48	13			23
Comments: quarter point backup late wind										
29	202730662	145	19.06	-79.58	1008	075/24	12			25
Comments: midpoint outbound end 234.25										
30	203520094	158	19.91	-80.33	1010	065/34	10			26
Comments: endpoint last rep part combo w/AXST end 233.25										