

May 12, 1958 Action Level

Dropsonde Scientist

Flight ID 201101121 Storm Grace Mission ID _____

Dropsonde Scientists Selwood

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

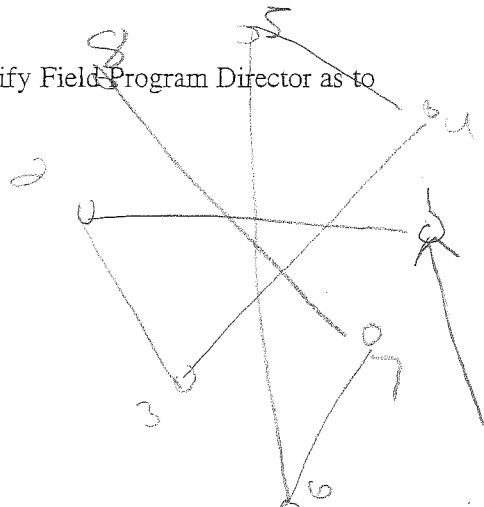
- ☒ 1. Determine the status of the AVAPS and workstation. Report results to the LPS.
- ☒ 2. Confirm the mission and pattern selection with the LPS and assure that enough dropsondes are on board the aircraft.
- ☒ 3. Modify the flight pattern or drop locations if requested by AOC to accommodate changes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



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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	202520290	2149	18.78	-77.17	1010	105/44	12			1
Comments: 1P EW log / end 22505										
2	202610506	2201	18.79	-78.1	1007	090/44	10			2
Comments: mid point inbound / end 22120										
3	202730071	2212	18.77	-79.08	1007	080/25	10			3
Comments: center of leg (nd show center)										
4	X	2202	18.76	-79.17	1009	085/28	10			X
Comments: backup NCD										
5	202610457	2224	18.76	-79.17	1009	085/28	10			4
Comments: mid point outbound end 229.75										
6	202610502	2232	18.76	-80.64	1010	065/24	10	30.0		5
Comments: inbound w center w/ AXBT end 225.22 (AXBT did not observe)										
7	202610500	2256	17.27	-79.97	1007	045/19	10			6
Comments: 1P SW combas with AXBT end 230.25 no GRS at 1000m - no clouds										
8	203431775	2311	17.87	-79.23	1006	050/17	10			7
Comments: mid point										
9	203431813	2317	18.21	-78.88	1005	035/20	10			8
Comments: quarter point for ONR										
10	203431772	2323	18.48	-78.68	1003	070/47	10			9
Comments: center CPA										

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						Dir/Spd (deg/kt)	Hgt (m)			
11	203240545	0307	18.66	-78.52	1005	085/30	10			10
Comments	quarter point outboard for UNK end 045.45 no wind/GPS at top									
12	203240586	0337	19.13	-78.03	1008	105/15	10			11
Comments	midpoint outboard									
13	207721630	2545	19.47	-77.67	1011	105/42	12			12
Comments	end SW/NE leg no wind/GPS at top end 032.75									
14	202620553	0000	20.03	-76.73	1011	095/24	12			13
Comments	IP N end 220.75									
15	203150429	0013	19.23	-78.68	1007	095/50	10			14
Comments	midpoint inbound N/S leg									
16	203431783	0019	18.79	-75.66	1005	100/49	10			15
Comments	quarterpoint inbound ON R 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	215/16	10			16
Comments	center CPA back up									
19	20344042	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 NLD									

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						Dir/Spd (deg/kt)	Hgt (m)			
21	20315091	0045	17.22	-78.76	1008	225/11	10			18
Comments mid point outband end 255.50										
22	191930403	0055	16.65	-78.51	1010	200/09	10			19
Comments end point S end 247.50										
23	192950641	107	17.07	-77.81	1011	135/11	10			20
Comments end point SE no wind at top sed end 237.50										
24	203240580	118	17.68	-78.35	1009	55/25				21
Comments min point SE / mid leg inbound end 254.00										
25	203240571	123	17.51	-78.59	1007	196/19	10			22
Comments quarter point inbound OMR										
26	203201601	133	18.48	-78.77	1002	165/10	12			24
Comments center CPA end 242.25										
27	X	138	X	X	X	X	X	X	X	X
Comments quarter point outband late 6PS mid point										
28	203240095	139	18.77	-79.27	1006	080/48	13			23
Comments quarter point back up late wind										
29	202730062	145	19.06	-79.58	1008	075/24	12			25
Comments mid point outband end 234.25										
30	203520094	158	19.71	-80.33	1010	065/34	10			26
Comments end point last re point combow/AVST end 232.50										