Dropsonde Scientist

Flight ID 20210426H1 **Storm** Sam **Mission ID** 0218A

Dropsonde Scientists Jun zhang

AVAPS Operators Mu

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.

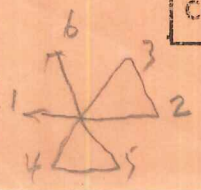
Post flight

- ☑ 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 Sam
Mission ID 0218A (exp. 0213A)
Flight ID 20210926 H1 WMO fmt
Dropsonde Scientist Jun zhang
Dropsonde Scientist
AVAPS Operator Mac
AVAPS Operator
Page# 1

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 #
1 ✓	-20374	2215	14.433	52.098	1012	03023	10	28.4		1
Comments	W-IP combo PT									
2 ✓	-30335	2226	14.432	51.316	~~1005~~ 1008	~~00540~~ 36040	10			2 corrected
Comments	W-Mid									
3 ✓	-40785	223514	14.428	50.706	977	31099	10			3
Comments	W-RMW1									
4 ✓	30475	223555	14.427	50.665	964	30098	10			4
Comments	W-RMW2									
5 ✓	30477	2236	14.428	50.617	994	24069	10			5
Comments	W-RMW3									
6 ✓	50060	2237	14.428	50.545	932	12031	10			6
Comments	Center									
7 ✓	50427	2238	14.427	50.454	960	02117	10			7
Comments	E-RMW1									
8 ✓	50429	223917	14.428	50.421	963	06627	10			8
Comments	E-RMW2									
9 ✓	20411	223924	14.428	50.413	964	07111	10			9-10
Comments	E-RMW3									
10 ✓	20376	2249	14.426	49.735	1004	13051	10			10
Comments	E-Mid PT									



GW module at 6

20210926H1

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

Storm SAM | Flight ID 20210926H1 | Dropsonde Scientist Jun zhang | AVAPS Operator | Page# 2

Mission ID 02814 (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)	EyeEyewall, Rainband,etc,	Ob #
11 ✓	55430	2259	14.248	48.99	1010	11534	10			11
Comments	E-Eyed Combo									
12 ✓	30331	2329	15.802	49.91	1010	09531	10			12
Comments	NE-IP									
13 ✓	11158	2339	15.169	50.298	1007	07053	10			13
Comments	NE-Mid									
14 ✓	30525	2347	14.704	50.539	987	05587	10			14
Comments	NE-RMW1									
15 ✓	20390	2350	14.554	50.611	956	00615	10			15
Comments	NE-RMW2									
16 ✓	20375	232944	14.567	50.604	958	01605	10			16
Comments	NE-RMW3									
17 ✓	11546	2351	14.493	50.648	943	15523	10			17
Comments	CENter									
18 ✓	50530	2352	14.405	50.704	963	23075	10			18
Comments	SW-RMW1									
19 ✓	30527	235302	14.387	50.715	968	22089	10			19
Comments	SW-RMW2									
20 ✓	20414	235325	14.367	50.728	976	235188	10			20
Comments	SW-RMW3									

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

Storm SAM
Mission ID 0248A

Flight ID 20240926H1
(exp. 0213A)

Dropsonde Scientist J. Zhang
Dropsonde Scientist

AVAPS Operator
AVAPS Operator

Page# 4

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 #
31 ✓	30340	055910	14.695	50.808	976	01080	10			31
Comments	NW-RMW3	—			—					
32 ✓	30341	0103	14.909	51.044	1001	01555	10			32
Comments	NW-Mid	—			—					
33	11255	0111	15.302	51.487	1011	05541	10			33
Comments	NW-End. comb				—					
34	20369	0119	15.652	51.878	1014	05028	10			34.
Comments	Low drop - GW module - final report.									
Comments										
Comments										
Comments										
Comments										
Comments										
Comments										

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

Storm SAM
Mission ID 0218A (exp. 0213A)
Flight ID 20240926H1
Dropsonde Scientist J. Zhang
Dropsonde Scientist
AVAPS Operator Mike
AVAPS Operator
Page# 3

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 #
21 ✓	11154	0003	13.819	51.068	1008	28531	10			21
Comments	SW-Mid									
22 ✓	40141	0013	13.203	51.445	1011	27518	10			22
Comments	SW-End									
23 ✓	20388	0036	13.285	49.983	1010	20527	10			23
Comments	SE-IP									
24 ✓	20389	0047	13.955	50.342	1006	21537	10			24
Comments	SE-Mid									
25 ✓	30344	0053	14.333	50.526	992	18560	10			25
Comments	SE-RMW1									
26 ✓	20421	0055	14.516	50.625	965	10607	10			26
Comments	SE-RMW2									
27 ✓	11156	0056	14.525	50.631	962	10128	10			27
Comments	SE-RMW3									
28 ✓	11155	0057	14.621	50.725	947	07536	10			28
Comments	CENTER									
29 ✓	30493	0058	14.678	50.789	972	35111	10			29
Comments	NW-RMW1									
30 ✓	20385	0059	14.684	50.801	975	00106	10			30
Comments	NW-RMW2									

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Dropsonde Scientist

Flight ID 20210926H1 **Storm** SAM **Mission ID** 0218A

Dropsonde Scientists Jun Zhang

AVAPS Operators _____ _____

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