

Dropsonde Scientist

Flight ID 2021082741 Storm Ada Mission ID _____

Dropsonde Scientists Jim Zhang

AVAPS Operators Max

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.

Storm	Ida	Flight ID	2040827H1	Dropsonde Scientist	Jun Zhang	AVAPS Operator	Mar McArthur	Page#
Mission ID	WAGGA	(exp. 0213A)		Dropsonde Scientist		AVAPS Operator		

Mission ID WAG A

Flight ID 20240827H
(exp. 0213A)

Dropsonde Scientist
Dropsonde Scientist

Jim Zary

AVAPS Operator
AVAPS Operator

Mac Media Page#

Drop #	Sonde ID	Time UTC	Lat (°N/S)	Long (°E/W)	Sfc Pressure (mb)	Wind closest to		SST (°C)	Eye/Eyewall, Rainband, etc,	Obs #
						Dir/Spd (deg/kt)	Hgt (m)			
1	204810672	210623	23.053	84.593	1056.2	070/29	10	24		
Comments	Combo IP NW									
2	2048106102	211425	22.65	84.16	1005.9	050/39	10			
Comments	1st mid IN NW									
3	2048106666	2124	22.66	83.61	1007.3	025/46	10			
Comments	1st IN NW RAINW eyewall									
4	204810650370	2145	21.44	82.31	10005.8	175/37	60			
Comments	1st out midp SE									
5	204810640593	2157	20.96	81.69	1009.4	180/29	10			
Comments	1st END SE									
6	2048106668	2232	21.85	82.12	1007.2	170/34	10			
Comments	M200phases spiral Highers point									
7	2048106031005	2312	23.62	82.11	1010.2	090/33	10	29.4		
Comments	Combo - 2nd IP NE									
8	204810621412	2321	23.196	82.66	1007.4	080/49	10			
Comments	2nd MID IN NE									
9	204810650358	2344	22.09	83.69	1002.9	245/29	10			
Comments	2nd out OP 1/4 Point SW									
10	2048106260854	2350	21.816	83.984	1006.4	250/19	10			
Comments	2nd MID PT out SW									

(revised March 2019)

Storm 12A

Flight ID 20210821141

Dropsonde Scientist

J. Zhang

AVAPS Operator

Mar

Page# 2

Mission ID WADGB

(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.	Obs #
						Dir/Spd (deg/kt)	Hgt (m)			
11	204620024	0004	21.144	84.694	1007.4	350/19	10			
Comments	2nd END PT SW									
12	204610854	0022	21.04	83.47	1009.3	220/12	10			
Comments	3rd End IP South.									
13	204420044	0033	21.88	83.48	1006	215/18	10			
Comments	3rd MID IN South									
14	204260861	0051	23.12	83.76	999.6	030/52	10			
Comments	1st CONW burg drop									
15	204270045	0057	23.43	84.14	1005.9	040/50	10			
Comments	2nd CONW burg module NW									
16	20462026	0127	23.89	83.807	1009.4	055/44	10			
Comments	3rd MID out North, 1st CONW									
17	204260873	0139	24.756	83.817	1011.4	095/27	10			
Comments	3rd End PT North BT CONW									
18	204640459	0212	23.37	86.00	1007.3	055/22	10			
Comments	4th IP WEST									
19	20431021	0224	23.36	85.14	1007.8	030/39	10			
Comments	4th MID IN WEST									
20	204330271	0238	23.34	84.18	999.8	025/65	10			
Comments	4th INBD RNN									

(revised March 2019)

Flight ID 2024087H1

Dropsonde Scientist *Jim Chavez*
Dropsonde Scientist

AVAPS Operator
AVAPS Operator

Page# 3

Mission ID

(exp. 0213A)

Drop #	Sonde ID	Time UTC	Lat (°N/S)	Long (°E/W)	Sfc Pressure (mb)	Wind closest to		SST (°C)	Eye/Eyewall, Rainband, etc,	Obs #
						Dir/Spd (deg/kt)	Hgt (m)			
21	204610809	0244	23.07	83.94	99.8	135/27	10			
Comments	flight level center - surface wind high - no information or H4									
22	204260891	0252	22.99	83.42	1002.0	130/52	10			
Comments	4th kmw out 500ft									
23	204840594	0258	23.15	82.946	1004.8	125/21	10			
Comments	4th MID out East									
24	204530193	0307	23.40	82.301	1006.8	105/39	10			
Comments	4th MID END PT - Low 6PS									
25	204650360	0308	22.43	82.25	1008.7	095/43	10			
Comments	4th End point second drop									
26										
Comments										
27										
Comments										
28										
Comments										
29										
Comments										
30										
Comments										