

Dropsonde Scientist

Flight ID 2021082741 Storm Ada Mission ID _____

Dropsonde Scientists Jun 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.

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

Storm *Ida*

Flight ID *2040827H1*

Dropsonde Scientist
Dropsonde Scientist

Jim Zhang

AVAPS Operator
AVAPS Operator

Nan Moore

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Mission ID *WADGA* (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,	Ob #
						Dir/Spd (deg/kt)	Hgt (m)			
<i>01</i>	<i>204610672</i>	<i>210623</i>	<i>23.053</i>	<i>84.553</i>	<i>1056.2</i>	<i>070/24</i>	<i>10</i>	<i>29</i>		
	<i>Comments Combo IPNW</i>									
<i>02</i>	<i>2046106102</i>	<i>211425</i>	<i>22.67</i>	<i>84.16</i>	<i>1005.9</i>	<i>052/29</i>	<i>10</i>			
	<i>Comments 1st mid IN NW</i>									
<i>03</i>	<i>2046106600</i>	<i>2124</i>	<i>22.6</i>	<i>83.61</i>	<i>1001.3</i>	<i>025/66</i>	<i>10</i>			
	<i>Comments 1st IN NW RAINW eyewall</i>									
<i>04</i>	<i>204650370</i>	<i>2145</i>	<i>21.44</i>	<i>82.31</i>	<i>1005.8</i>	<i>175/37</i>	<i>60</i>			
	<i>Comments 1st out mid SE</i>									
<i>05</i>	<i>204640593</i>	<i>2157</i>	<i>20.96</i>	<i>81.69</i>	<i>1009.4</i>	<i>180/20</i>	<i>10</i>			
	<i>Comments 1st END SE</i>									
<i>06</i>	<i>204610668</i>	<i>2232</i>	<i>21.85</i>	<i>82.12</i>	<i>1007.2</i>	<i>170/34</i>	<i>10</i>			
	<i>Comments MZmpingns spiral Highers RAINW</i>									
<i>07</i>	<i>204031025</i>	<i>2312</i>	<i>23.62</i>	<i>82.11</i>	<i>1010.2</i>	<i>090/33</i>	<i>10</i>	<i>29.0</i>		
	<i>Comments Combo. 2nd IP NE</i>									
<i>08</i>	<i>204521412</i>	<i>2321</i>	<i>23.196</i>	<i>82.66</i>	<i>1007.4</i>	<i>080/49</i>	<i>10</i>			
	<i>Comments 2nd MID IN NE</i>									
<i>09</i>	<i>204650358</i>	<i>2322</i>	<i>22.09</i>	<i>83.64</i>	<i>1002.9</i>	<i>245/24</i>	<i>10</i>			
	<i>Comments 2nd SW 2P 1st point SW</i>									
<i>10</i>	<i>204260854</i>	<i>2355</i>	<i>21.816</i>	<i>83.984</i>	<i>1006.4</i>	<i>250/19</i>	<i>10</i>			
	<i>Comments 2nd MID 2nd SW</i>									

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Storm IDA

Flight ID 20210827

Dropsonde Scientist J. Zhang

AVAPS Operator Mac

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Mission ID WAO

(exp. 0213A)

Dropsonde Scientist

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	204621002	0000	21.164	84.594	1007.4	300/14	10			
Comments	2nd GND PT SW									
12	204610850	0022	21.04	83.47	1009.3	220/12	10			
Comments	3rd GND IP South									
13	204620040	0033	21.88	83.48	1006	215/18	10			
Comments	3rd MID 1/ South									
14	204626086	0051	23.12	83.76	999.0	055/52	10			
Comments	1st GND burst drop									
15	204627005	0057	23.43	84.14	1005.4	045/50	10			
Comments	2nd GND burst module NW									
16	204620096	0107	23.89	83.807	1009.4	039/44	10			
Comments	3rd GND SW North 1st GND									
17	204626083	0139	24.756	83.87	1011.4	095/27	10			
Comments	3rd GND pt north 87 GND									
18	204620459	0212	23.87	85.00	1007.3	025/22	10			
Comments	4th IP WEST									
19	204631021	0224	23.36	85.10	1007.8	030/39	10			
Comments	2nd MID 2nd WEST									
20	204633671	0238	23.34	84.18	999.8	025/65	10			
Comments	4th MID ROW									

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Storm *IDA*

Flight ID *2021087H1*

Dropsonde Scientist *Jim Zhang*

AVAPS Operator *Mer*

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Mission ID *W1092* (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,	Ob #
						Dir/Spd (deg/kt)	Hgt (m)			
✓ 21	<i>204610809</i>	<i>0244</i>	<i>23.07</i>	<i>83.04</i>	<i>998</i>	<i>135/27</i>	<i>10</i>			
Comments	<i>flight level center - 2000 ft</i>									
✓ 22	<i>204260891</i>	<i>0252</i>	<i>22.99</i>	<i>83.22</i>	<i>1002.0</i>	<i>130/52</i>	<i>10</i>			
Comments	<i>4th down out</i>									
✓ 23	<i>204840594</i>	<i>0258</i>	<i>23.15</i>	<i>82.94</i>	<i>1001.8</i>	<i>145/21</i>	<i>10</i>			
Comments	<i>4th down out</i>									
✓ 24	<i>204530193</i>	<i>0257</i>	<i>23.40</i>	<i>82.30</i>	<i>1006.8</i>	<i>105/39</i>	<i>10</i>			
Comments	<i>4th down out</i>									
✓ 25	<i>20465035</i>	<i>0308</i>	<i>23.43</i>	<i>82.15</i>	<i>1008.0</i>	<i>040/37</i>	<i>10</i>			
Comments	<i>3rd level 2000 ft level 1400</i>									
26										
Comments										
27										
Comments										
28										
Comments										
29										
Comments										
30										
Comments										