

**Dropsonde Scientist**

Flight ID 20210829141 Storm Ida Mission ID WCO9A

Dropsonde Scientists Jun Zhang

AVAPS Operators Mac

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 Iola

Flight ID 20210820-1

Dropsonde Scientist  
Dropsonde Scientist

Jun Zhang

AVAPS Operator  
AVAPS Operator

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Mission ID WCO14 (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)			
1 ✓	0099	1836	29.56	88.67	1008.7	135/43	10			
Comments	W-E coastal run									
2 ✓	0091	1844	29.54	89.24	1003.6	145/48	10			
Comments	GPS late									
3 ✓	50049	1845	29.52	89.31	1003.2	140/41	10			
Comments	W-E 2nd drop									
4 ✓	50316	1847	29.507	89.436	1000.7	140/47	10			
Comments	W-E run inbound									
5 ✓	70005	1907	29.147	90.902	982	295/85	10			
Comments	W-E run eyewall									
6 ✓	70048	1911	29.108	91.197	990.7	305/58	10			
Comments	W-E run mid after W eyewall drop									
7 ✓	0359	1915	29.15	91.426	998.9	320/46	10			
Comments	W-E mid									
8 ✓	0415	1928	29.33	92.41	1005.9	335/52				
Comments	W-E end point IP for next run									
9	50320	1937	28.76	92.22	1004.6	320/48		30.6		
Comments	down wind mid 7 samples									
10	40483	1949	28.01	91.87	1005.6	295/25		30.6		
Comments	incl IP End downwind (forward)									

BT receiver: New Mark 21/755  
broken - mention and 50000 receivers

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

Storm *Ida*

Flight ID *2020820-1*

Dropsonde Scientist *Jun Zhou*

AVAPS Operator

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Mission ID *WLG0A* (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)			
<i>1</i> ✓	<del><i>0670</i></del>	<i>1957</i>	<i>28.42</i>	<i>91.48</i>	<i>1000.1</i>	<i>285/43</i>	<i>10</i>	<i>30.3</i>		
Comments	<i>Miss in NW (low)</i>									
<i>2</i> ✓	<del><i>0308</i></del>	<i>2000</i>	<i>28.79</i>	<i>91.12</i>	<i>1000.5</i>	<i>280/58</i>	<i>10</i>			
Comments	<i>Miss in NW Eyewall region</i>									
<i>3</i> ✓	<del><i>0484</i></del>	<i>2026</i>	<i>29.25</i>	<i>90.95</i>	<i>988.0</i>	<i>185/72</i>	<i>10</i>			
Comments	<i>Miss - Close to Eyewall</i>									
<i>4</i> ✓	<del><i>0503</i></del>	<i>2029</i>	<i>28.92</i>	<i>89.80</i>	<i>996.7</i>	<i>195/24</i>	<i>10</i>	<i>28.2</i>		
Comments	<i>Miss in <u>Corridor</u> - R-4 - busy storm - ~ 2-4000 ft</i>									
<i>5</i> ✓	<del><i>0013</i></del>	<i>2034</i>	<i>28.74</i>	<i>89.49</i>	<i>1000</i>	<i>150/62</i>	<i>10</i>	<i>28.9</i>		
Comments	<i>End of <u>Corridor</u></i>									
<i>6</i> ✓	<del><i>0061</i></del>	<i>2045</i>	<i>28.22</i>	<i>89.09</i>	<i>1007</i>	<i>150/22</i>	<i>10</i>	<i>29.8</i>		
Comments	<i>End of <u>Corridor</u></i>									
<i>7</i> ✓	<del><i>00100</i></del>	<i>2118</i>	<i>28.24</i>	<i>88.318</i>	<i>1002.0</i>	<i>155/22</i>	<i>10</i>	<i>28.2</i>		
Comments	<i>First Sonde for <u>Corridor</u> module</i>									
<i>8</i>	<del><i>0140</i></del>	<i>2121</i>	<i>28.098</i>	<i>88.421</i>	<i>1009.9</i>	<i>155/28</i>	<i>10</i>			
Comments	<i>2nd Sonde <u>outside</u> for <u>Corridor</u> module</i>									
<i>9</i>										
Comments										
<i>20</i>										
Comments										

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

Storm *Ira*

Flight ID *20210829M1*

Dropsonde Scientist *J Zhang*  
 Dropsonde Scientist

AVAPS Operator  
 AVAPS Operator

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Mission ID *WLog* (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>21</i>										
Comments										
<i>22</i>										
Comments										
<i>23</i>										
Comments										
<i>24</i>										
Comments										
<i>25</i>										
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<i>30</i>										
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