

Dropsonde Scientist

Flight ID 2021092641 Storm Sam Mission ID 0218A

Dropsonde Scientists Jun Zhang

AVAPS Operators None

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 *SUM*
Mission ID *D0218A*

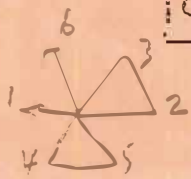
Flight ID *20210926 H1*
(exp. 0213A)

Dropsonde Scientist *Jun Zhang*
Dropsonde Scientist *COLE*

AVAPS Operator *MAC*
AVAPS Operator

Page# *1*

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> ✓	<i>-20374</i>	<i>2215</i>	<i>14.433</i>	<i>52.098</i>	<i>1012</i>	<i>03023</i>	<i>10</i>	<i>28.4</i>		<i>1</i>
Comments	<i>W-IP COMBAT</i>									
<i>2</i> ✓	<i>-30335</i>	<i>2226</i>	<i>14.432</i>	<i>51.316</i>	<i>1005</i> <i>1005</i>	<i>00540</i> <i>35040</i>	<i>10</i>			<i>2</i> <i>connected</i>
Comments	<i>W-Mid</i>									
<i>3</i> ✓	<i>-40788</i>	<i>223514</i>	<i>14.428</i>	<i>50.706</i>	<i>977</i>	<i>31099</i>	<i>10</i>			<i>3</i>
Comments	<i>W-RMW 1</i>									
<i>4</i> ✓	<i>30475</i>	<i>223555</i>	<i>14.427</i>	<i>50.665</i>	<i>964</i>	<i>30098</i>	<i>10</i>			<i>4</i>
Comments	<i>W-RMW 2</i>									
<i>5</i> ✓	<i>30477</i>	<i>2236</i>	<i>14.428</i>	<i>50.617</i>	<i>994</i>	<i>24069</i>	<i>10</i>			<i>5</i>
Comments	<i>W-RMW 3</i>									
<i>6</i> ✓	<i>50060</i>	<i>2237</i>	<i>14.428</i>	<i>50.545</i>	<i>932</i>	<i>12031</i>	<i>10</i>			<i>6</i>
Comments	<i>Center</i>									
<i>7</i> ✓	<i>50427</i>	<i>2238</i>	<i>14.427</i>	<i>50.454</i>	<i>960</i>	<i>02117</i>	<i>10</i>			<i>7</i>
Comments	<i>E-RMW 1</i>									
<i>8</i> ✓	<i>50429</i>	<i>223917</i>	<i>14.428</i>	<i>50.421</i>	<i>963</i>	<i>06627</i>	<i>10</i>			<i>8</i>
Comments	<i>E-RMW 2</i>									
<i>9</i> ✓	<i>20411</i>	<i>223924</i>	<i>14.428</i>	<i>50.413</i>	<i>964</i>	<i>07111</i>	<i>10</i>			<i>9</i> <i>(10)</i>
Comments	<i>E-RMW 3</i>									
<i>10</i> ✓	<i>20376</i>	<i>2249</i>	<i>14.426</i>	<i>49.735</i>	<i>1004</i>	<i>13051</i>	<i>10</i>			<i>10</i>
Comments	<i>E-Mid PT</i>									



GW module at 6

20210926 H1

page 1

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

Storm *SAM*
Mission ID *021814*

Flight ID *20210926H1*
(exp. 0213A)

Dropsonde Scientist
Dropsonde Scientist

Jun Zhang
AVAPS Operator
AVAPS Operator

Page# *2*

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>11</i> ✓	<i>50430</i>	<i>2259</i>	<i>14.218</i>	<i>48.99</i>	<i>1010</i>	<i>11534</i>	<i>10</i>			<i>11</i>
Comments	<i>E-End Combo</i>									
<i>12</i> ✓	<i>30331</i>	<i>2329</i>	<i>15.802</i>	<i>49.91</i>	<i>1010</i>	<i>09531</i>	<i>10</i>			<i>12</i>
Comments	<i>NE-IP</i>									
<i>13</i> ✓	<i>11158</i>	<i>2339</i>	<i>15.169</i>	<i>50.298</i>	<i>1007</i>	<i>07053</i>	<i>10</i>			<i>13</i>
Comments	<i>NE-MTD</i>									
<i>14</i> ✓	<i>30525</i>	<i>2347</i>	<i>14.704</i>	<i>50.539</i>	<i>987</i>	<i>05587</i>	<i>10</i>			<i>14</i>
Comments	<i>NE-RMW1</i>									
<i>15</i> ✓	<i>20390</i>	<i>2350</i>	<i>14.554</i>	<i>50.611</i>	<i>956</i>	<i>00615</i>	<i>10</i>			<i>15</i>
Comments	<i>NE-RMW2</i>									
<i>16</i> ✓	<i>20375</i>	<i>2349</i>	<i>14.567</i>	<i>50.604</i>	<i>958</i>	<i>01605</i>	<i>10</i>			<i>16</i>
Comments	<i>NE-RMW3</i>									
<i>17</i> ✓	<i>11546</i>	<i>2351</i>	<i>14.493</i>	<i>50.648</i>	<i>943</i>	<i>15523</i>	<i>10</i>			<i>17</i>
Comments	<i>CENTER</i>									
<i>18</i> ✓	<i>50530</i>	<i>2352</i>	<i>14.405</i>	<i>50.704</i>	<i>963</i>	<i>23015</i>	<i>10</i>			<i>18</i>
Comments	<i>SW-RMW1</i>									
<i>19</i> ✓	<i>30527</i>	<i>2353</i>	<i>14.387</i>	<i>50.715</i>	<i>968</i>	<i>22089</i>	<i>10</i>			<i>19</i>
Comments	<i>SW-RMW2</i>									
<i>20</i> ✓	<i>20414</i>	<i>2353</i>	<i>14.367</i>	<i>50.728</i>	<i>976</i>	<i>23518</i>	<i>10</i>			<i>20</i>
Comments	<i>SW-RMW3</i>									

20210926H1

page #2

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

Storm SAM
Mission ID 02184

Flight ID 2021092641
(exp. 0213A)

Dropsonde Scientist J. Zhang
Dropsonde Scientist

AVAPS Operator
AVAPS Operator

Page# 3

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 ✓ Comments	11154 SW - MID	0003	13.819	51.068	1008	28531	10			21
22 ✓ Comments	40141 SW - ENE	0013	13.203	51.445	1011	27518	10			22
23 ✓ Comments	20388 SE - IP	0036	13.285	49.983	1010	20527	10			23
24 ✓ Comments	20389 SE - MID	0047	13.955	50.342	1006	21537	10			24
25 ✓ Comments	30344 SE - RMW1	0053	14.333	50.526	992	18560	10			25
26 ✓ Comments	20421 SE - RMW2	0055	14.516	50.625	965	10607	10			26
27 ✓ Comments	11156 SE - RMW3	0056	14.525	50.631	962	10128	10			27
28 ✓ Comments	11155 CENTER	0057	14.621	50.725	947	07836	10			28
29 ✓ Comments	30493 NW - RMW1	0058	14.678	50.789	972	35111	10			29
30 ✓ Comments	20385 NW - RMW2	0059	14.684	50.801	975	00106	10			30

2021092641

page # 3

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

Storm *SAM*

Flight ID *20210926H1*

Dropsonde Scientist *J. Zhang*

AVAPS Operator
AVAPS Operator

Page# *4*

Mission ID *02484*

(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>31</i> ✓	<i>20340</i>	<i>010410</i>	<i>14.695</i>	<i>50.808</i>	<i>976</i>	<i>01080</i>	<i>10</i>			<i>31</i>
Comments	<i>NW-RNW3</i>									
<i>32</i> ✓	<i>20341</i>	<i>0103</i>	<i>14.909</i>	<i>51.044</i>	<i>1001</i>	<i>01555</i>	<i>10</i>			<i>32</i>
Comments	<i>NW-Mid</i>									
<i>33</i>	<i>1125T</i>	<i>0111</i>	<i>15.303</i>	<i>51.487</i>	<i>1011</i>	<i>05541</i>	<i>10</i>			<i>33</i>
Comments	<i>NW - End cont.</i>									
<i>34</i>	<i>20369</i>	<i>0119</i>	<i>15.652</i>	<i>51.878</i>	<i>1014</i>	<i>05028</i>	<i>10</i>			<i>34</i>
Comments	<i>Last drop - GW module - final report.</i>									
Comments										
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