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Dropsonde Scientist

Flight ID 2019082641 Storm Dorian Mission ID 0305A Dorian

Dropsonde Scientists Jun Zhang

AVAPS Operators T. Richards

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.

Dropsonde Scientist

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Flight ID 20190826H1 Storm Dorian Mission ID 0305A

Dropsonde Scientists Jun Zhang

AVAPS Operators Tod Richards

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

Storm *Dorian*
Mission ID *0305A*Flight ID *20190826H1*
(exp. 0213A)Dropsonde Scientist *Jun Zhang*
Dropsonde ScientistAVAPS Operator *Tom Richards*
AVAPS OperatorPage# *1*

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/kts)	Hgt (m)			
1	182310557	221312	21.2	-69.975	1014.2	88/5.7	10			01
Comments	PD									
2	161635115	221333	21.01	-69.94	1015.0	86.8/5.5	10			
Comments	mini sonde distance send									
3	182530334	223437	20.28	-67.98	1015.1	104/7.1	10			02
Comments										
4	182310557	004249	13.99	-58.10	1012.4	93/13.2	10			04
Comments	IP									
5	182340109	005056	13.50	-58.60	1011.8	94.4/12.7	10			05
Comments										
6	151255008	005114	13.46	-58.61	1011.3	102/12.6	10			
Comments	mini sonde no sent									
7	182740540	010159	13.01	-59.11	1011.2	103/11.8	10			06
Comments	center sonde									
8	151325159	010219	13.00	-59.13	1008.4	145/12.3	10			
Comments	mini sonde - no send									
9	182630153	011356	12.45	-59.20	1010.8	4.4/4.2				08
Comments										
10	161635111	011412	12.44	-59.71	1011.6	9.6/3.6	12			
Comments	mini sonde - no send									

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

Storm *Dorian*
Mission ID *0305A*

Flight ID *20190826H*
(exp. 0213A)

Dropsonde Scientist *Jun Zhang*
Dropsonde Scientist

AVAPS Operator *Tom*
AVAPS Operator

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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/kts)	Hgt (m)			
<i>11</i>	<i>182221088</i>	<i>012428</i>	<i>11.93</i>	<i>-60.25</i>	<i>1012.3</i>	<i>349/1.9</i>	<i>10</i>			<i>09</i>
Comments										
<i>12</i>	<i>182530411</i>	<i>015520</i>	<i>11.93</i>	<i>-58.14</i>	<i>1012.8</i>	<i>170/7.9</i>	<i>10</i>			<i>11</i>
Comments										
<i>13</i>	<i>18234024</i>	<i>020632</i>	<i>12.52</i>	<i>-58.64</i>	<i>1012.0</i>	<i>158/9.5</i>	<i>10</i>			<i>12</i>
Comments										
<i>14</i>	<i>160745033</i>	<i>020649</i>	<i>12.53</i>	<i>-58.65</i>	<i>1011.7</i>	<i>167/10.8</i>	<i>10</i>			
Comments <i>Wrong sonde no send</i>										
<i>15</i>	<i>182630061</i>	<i>022705</i>	<i>13.64</i>	<i>-59.64</i>	<i>1010.8</i>	<i>74/14.3</i>	<i>10</i>			<i>14</i>
Comments										
<i>16</i>	<i>151255039</i>	<i>022720</i>	<i>13.65</i>	<i>-59.66</i>	<i>1011.8</i>	<i>81/17.5</i>	<i>10</i>			
Comments <i>Wrong sonde no send</i>										
<i>17</i>	<i>182340903</i>	<i>023152</i>	<i>14.08</i>	<i>-60.34</i>	<i>1012.9</i>	<i>65/11.4</i>	<i>10</i>			<i>15</i>
Comments <i>Long sonde</i>										
Comments										
Comments										
Comments										