

### Dropsonde Scientist

Flight ID 20190712H1 Storm AL022019 Mission ID NOAAZ 0702A Bamy

Dropsonde Scientists Dize Abersen

AVAPS Operators Patel Lynch

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 ALORA  
Mission ID NORAZ

Flight ID 20190712H1  
(exp. 0213A)

Dropsonde Scientist Dize  
Dropsonde Scientist Abercrombie

AVAPS Operator Patel  
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.	Ob #
						Dir/Spd (deg/kt)	Hgt (m)			
1	182621200	091632	29.3896	88.9477	1003.7	135.2/18.6	10			3
Comments										
2	182221212	092544	28.8120	89.6072	<del>1000.0</del> 999.3	103.6/10.9	10			4
Comments										
3	182630072	093524	28.1927	90.3079	<del>1000.0</del> 997.7	24.0/4.0	10			5
Comments CENTER										
4	183040088	094525	27.5618	91.0120	999.7	330.2/12.7	10			6
Comments										
5	182640558	095634	26.8940	91.5910	1004.6	283.5/10.2	10			7
Comments RAINBAND										
6	183010076	101155	26.9033	90.2610	1001.9	239.5/16.6	10			8
Comments RAINBAND, Extra data at end removed										
7	182630154	102814	27.1094	88.9475	1003.8	187.4/20.4	10			9
Comments										
8	182640549	103932	27.6441	89.6432	999.8	204.6/15.2	12			10
Comments										
9	182630099	104950	28.2065	90.3062	997.5	9.8/4.6	10			11
Comments CENTER										
10	182221210	110024	28.8228	91.0117	1000.0	12.8/12.4	10			12
Comments										

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

Storm AL022019  
Mission ID NOAA

Flight ID 20190712 H1  
(exp. 0213A)

Dropsonde Scientist Steve D'az  
Dropsonde Scientist Siame Abersen

AVAPS Operator Patel  
AVAPS Operator Lynch

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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,	Ob #
						Dir/Spd (deg/kt)	Hgt (m)			
11	182520045	111106	29.3323	91.7644	1004.1	14.5/13.0	10			13
Comments										
12	182630091	112545	28.1878	92.1749	1003.7	355.0/11.9	10			14
Comments										
13	182221209	113500	28.1962	91.2898	1000.7	339.2/14.1	10			15
Comments										
14	182940546	114718	28.1997	90.2908	997.1	11.1/8.3	10			16
Comments CENTER; Renewed extra end data										
15	182940545	115840	28.1960	89.2897	999.7	167.6/17.3	10			17
Comments										
16	182210278	120945	28.2854	88.4256	1004.3	181.0/21.6	10			18
Comments										
17	182520037	121930	28.9065	89.1124	1002.1	149.8/17.8	10			19
Comments										
18	182940549	124537	28.9912	90.3005	999.9	31.1/9.2	10			20
Comments										
19	182940754	125516	28.1930	90.3005	998.9	3.7/5.0	12			21
Comments CENTER										
20	182940544	130520	27.3265	90.3009	998.1	225.5/23.4	10			22
Comments RAIN BAND										

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

Storm *ALO2019*  
Mission ID

Flight ID *20190712H*  
(exp. 0213A)

Dropsonde Scientist *Steve Ditz*  
Dropsonde Scientist *Sim. Abern*

AVAPS Operator *Patel*  
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,	Ob #
						Dir/Spd (deg/kt)	Hgt (m)			
21	182940550	131740	26.4264	90.2488	1005.2	217.1/20.9	10			23
Comments <i>RAIN BAND</i>										
22	182940755	133615	27.0104	88.9734	1006.5	201.5/23.1	10			24
Comments <i>RAIN BAND; removed extra data at end</i>										
23	182520030	135306	27.9216	89.8490	998.9	180.6/16.4	10			25
Comments <i>RAIN BAND; sent corrected. - strange dewpoint at top</i>										
24	182530292	143255	28.2295	86.4943	1011.4	186.7/10.2	12			26
Comments <i>LAST</i>										
Comments										
Comments										
Comments										
Comments										
Comments										