

Dropsonde Scientist

Flight ID 20190827H1 Storm Dorian (ALOS) Mission ID 0705A

Dropsonde Scientists Hazelbn

AVAPS Operators Todd 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.

USB
Broken

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

Storm Mission ID **0705A**

Flight ID **20190827H1**
(exp. 0213A)

Dropsonde Scientist **Hazelton**
Dropsonde Scientist

AVAPS Operator **Richards**
AVAPS Operator

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HHH

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	D20190827-22103	22103	16.5N	64.8W	1012	55/17	10	—		02
Comments										
2	D20190827-22321	22320	16.0N	64.1W	1011.6	40/20	10	—		03
Comments										
3	D20190827-22338	22320	16.0N	64.1W	1011.5	35/20	10	—		—
Comments Mini										
4	D20190827-22343	2234	15.5N	63.5W	1010.5	35/17	10	—		04
Comments										
5	D20190827-22350	2234	15.5N	63.5W	1011.5	62/20	10	—		—
Comments Mini										
6	D20190827-22431	22438						—		—
Comments DID NOT SEND BAD FAST FALL										
7	D20190827-22448	22440	15.1	62.83	1010.4	335/14	10	—		—
Comments Mini										
8	D20190827-2254	225438	14.75	62.33	1011.8	145/06	10	—		06
Comments										
9	D20190827-2309	230918	15.77	61.91W	—	140/29	10	—		07
Comments										
10	D20190827-23239	232235	15.8	62.82W	1009.3	10/16	10	—		08
Comments										

Sub for this 09

SONDE

Hazelton

Flight Number 20190827H Storm Dorian (ALOS) Storm Direction/Speed _____

Take-Off Time _____ Landing Time _____

Drop #	Channel Number	Drop Time (HHMMSS)	Latitude (Decimal)	Longitude (Decimal)	Splash Time (HHMMSS)	Sfc Temp. AXBT	MHD (m) (#sec x 1.5)	Comments
DROP	SONDE ID	TIME	LAT	CON	PRES	WS/DTK		
10	2333-06	2330	15.75	63.6	1011.1	045/18		
11	2333-08	2330	15.75	63.6	1011.7	040/15		
11	D233253	2330-06	15.75	63.6	1011.1	045/18		
12	D20190827-23310	2333-10	15.75	63.6	1011.7	040/15		
13	2343-30	2343	15.78	64.71	1012	050/17		
13	D20190827-2343	2343-30	15.78	64.71	1012	050/17		
14	D20190828-00004	2400-10	16.73	63.91	1011	330/08		
15	D20190828-001139	2400-45	15.28	63.35	1011	10/08		
16	D20190828-001156	2411-57	15.29	63.33	1010	370/08		
17	D20190828-003544	2435-50	16.72	62.2	1011	085/28		
18	D20190828-003601	2435-00	16.73	62.19	1011	085/32		
19	D20190828-004412	2441-55	16.87	61.79	1012	—	Missing Z 19	
20	D20190828-005009	2454-09	17.21	62.83	1012	070/20		
21	D20190828-010052	2509-00	16.59	62.89	1010	070/23		
22	D20190828-10916	2509-11	16.52	62.89	1012	078/22		

OB #

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