

Dropsonde Scientist

Flight ID 2090905H2 Storm Dorian Mission ID 4905A

Dropsonde Scientists Sellwood

AVAPS Operators Jeff Smith

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.

8 mini (7 good)
15 nosels (1 transm. bad)
11 EMC (1 bad 10 transmitted)

34 total

Take off: 1930 Lakeland

Landed, 0258 Lakeland

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

Storm *Dorian*
Mission ID *20190905H*
Flight ID *4905A*
(Exp. 0213A)

Dropsonde Scientist *Sellwood*
Dropsonde Scientist

AVAPS Operator *Smith*
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/kt)	Hgt (m)			
1	185140367	205512	3219	80.18	1002	305/43	10	X	IP(SW)	2
Comments end 219.00										
2	161635110	2102	3242	79.70	995	295/49	10	X		X
Comments mini sonde end 195.25 no sats < 40 seconds										
3	19140151	2108	3257	79.79	994	295/53	12	X	Mid (sw)	3
Comments 32.614112 -79.279866 LLD end 199.25 Partial FF 240s										
4	160745021	210817	32.63	79.28	993	290/52	12	X	Mid (sw)	X
Comments mini sonde end 198.25										
5	151325166	2147	3222	78.30	994	245/51	12	X	Mid (S)	X
Comments mini sonde ELD 32.2192 -78.3027 end 192.75 Partial FF										
6	190140297	2147	3223	78.30	993	245/57	10	X	Mid (S)	X
Comments (initial NLD recovered but not transmitted)										
7	191740233	2149	32.12	78.30	995	245/46	10	X	Mid (S)	4
Comments backup										
8	161545039	2200	31.06	78.87	1002	250/43	10	X	END (S)	X
Comments mini sonde:										
9	190140184	2200	31.37	78.31	1002	250/35	10	X	END (S)	5
Comments end 233.25										
10	152325018	2226	32.44	76.50	1001	210/43	12	X	END (SE)	X
Comments mini sonde end 196.25										

eye circle 1st pass

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Mission ID

(exp. 0213A)

20190512

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/kt)	Hgt (m)			
11	190140306	2226	32.44	7650	1000	210/42	10		END (SE)	7
Comments	LLD 32.4/9544-76.5/3374 FF < 20									
12	161545167	2235	32.91	77.23	989	185/38	10		MID (SE)	X
Comments	mini sonde									
13	185150258	2239	32.92	77.26	988	180/47	10		MID (SE)	8
Comments										
14	190140304	225844	33.49	77.89	966	95/63	10		RMW (NE)	9
Comments										
15	161545117	225856	33.50	77.87	968	100/69	10		RMW (NE)	X
Comments	mini sonde end 179.50									
16	190140113	2307	33.78	77.50	989	120/48	10		MID (NE)	10
Comments	end 219.50 noisy winds caught by WE parameter									
17	15225290	2308	33.79	77.28	990	110/53	10		MID (NE)	X
Comments	mini sonde (lost mini) end 193.25									
18	190140130	2320	34.21	76.41	999	150/31	10		END (NE)	11
Comments	end 241.00									
19	185150329	2237	34.17	77.65	991	75/36	10		END (NNE)	12
Comments	end 207.00									
20	185150452	000006	33.43	78.39	978	320/71	10		residual (W)	13
Comments	end 203.00									

* = MIS

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

Storm 201905HA Flight ID 4905A
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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	191740232	00250	33.42	78.19	967	340/62	10		nesdis (RMW) W	X
Comments	end 186.25 inbound from W									
22	185150313	0032	33.42	78.15	964	344/34*	21		nesdis (W)	X
Comments	inbound from W									
23	185140370	00192	33.31	78.31	978	311/41*	13		nesdis	X
Comments	end 194.25 inbound from WSW									
24	185150430	001940	33.31	78.29	976	305/68	10		nesdis	X
Comments	inbound from WSW									
25	185150314	002119	33.33	78.16	969	315/65	10		nesdis	X
Comments	inbound from WSW									
26	185140519	002140	33.33	78.12	969	327/41*	17		nesdis	X
Comments	inbound from WSW									
27	191050455	0102	33.49	78.34	982	315/53	10		nesdis	X
Comments	inbound from W									
28	191050436	0103	33.49	78.21	976	310/69	10		nesdis	X
Comments	inbound from W									
29	185140369	0105	33.49	78.06	967	320/64	10		nesdis	X
Comments	inbound from W									
30	191050435	0106	33.49	78.01	962	330/75	10		nesdis	X
Comments	inbound from W									

31	191740237	012326	33.50	-78.24	980	315/66	12	needs	x
→ end 191.50 inbound from W									
32	191040504	012451	33.50	-78.13	974	315/70	12	needs	x
→ end 215.00 inbound from W									
33	191740230	012540	33.50	-78.06	971	319/48*	17	needs	x
→ end 192.25 inbound from west									
34	185140323	012628	33.50	-78.00	963	315/79	10	needs	x
→ inbound from west									

