



AXBTS	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Lundry, Holmes  
Phone #: 863-500-3898

ACAT-4 Version = 7.3

**U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N42RF Manifest**

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20190905H1	FLT #:		AC:	Kibbey	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	0800Z	CP(s):	Mitchell	Rob Rogers	A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	1600Z		Doremus	Jason Dunion			<b>20</b>	<b>1</b>	<b>20</b>
Block Time		Flight Time		Nav(s):	Freeman	Brittany Dahl	ASOS Takeoff		BTs		
In:	<b>15:48</b>	Land:	<b>15:41</b>			Paul Chang				Good	Bad
Out:	<b>8:05</b>	T/O:	<b>8:21</b>	FE(s):	Sanchez		A/C Land				
Total:	<b>7.7</b>	Total:	<b>7.3</b>	FD(s):	Heystek		ASOS Land		<b>0</b>	<b>0</b>	<b>0</b>
					Holmes						
Sponsoring Org:		EMC		SEB:	Lynch T	Visitors:	Storm Number ID:		AL052019		
Program:		PRX				McCausland, Phil	(ie: AL142018)				
Purpose:		TDR		SSA:	Underwood	Ou, Ed	TCPOD/WSPOD Mission		NOAA2 4805A DORIAN		
						Serrano, Edgar	(ie: NOAA2 0614A MICHAEL)				
				AVAPS:	Warnecke	OBSERVATIONS					
AS REQUIRED BY ORM			Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH				X	8 Cat 3 Hurricane Pennies						
SCIENCE MISSION WITHIN BDRY LAYER				X							
LACK OF PRECIPITATION				X							
RELATIVE HUMIDITY ≥ 80%			X								
LARGE AIR-SEA TEMP GRADIENT				X							
HIGH SURFACE WINDS			X								
LONG FETCH / DURATION OF SFC WND			X								
SEA SALT ACCRETION FORECAST				X							
SEA SALT ACCRETION OBSERVED				x							
							*Highlighted items must be completed before departure.				
Remarks:											

## P-3 QC Checklist

Flight ID:	20190905H1
Flight Director(s):	Lundry, Holmes
UWZ.d mean:	0.02

Pressure Comparison		
	T/O	Land
Aircraft	1007.0	1008.5
Tower	1007.6	1009.4

	Raw 1Hz Mean File Parameters				C File Parameters	
<input checked="" type="checkbox"/> Accelerometer	<input checked="" type="checkbox"/> AccAXI.1 <input checked="" type="checkbox"/> AccAXI.2 <input checked="" type="checkbox"/> AccAXI-GPS.1 <input checked="" type="checkbox"/> AccAXI-GPS.2	<input checked="" type="checkbox"/> AccAYI.1 <input checked="" type="checkbox"/> AccAYI.2 <input checked="" type="checkbox"/> AccAYI-GPS.1 <input checked="" type="checkbox"/> AccAYI-GPS.2	<input checked="" type="checkbox"/> AccAZI.1 <input checked="" type="checkbox"/> AccAZI.2 <input checked="" type="checkbox"/> AccAZI-GPS.1 <input checked="" type="checkbox"/> AccAZI-GPS.2	<input checked="" type="checkbox"/> AccZfilter-GPS.1 <input checked="" type="checkbox"/> AccZfilter-GPS.2	<input checked="" type="checkbox"/> AccZref	
<input checked="" type="checkbox"/> Altitude	<input checked="" type="checkbox"/> AltGPS.1 <input checked="" type="checkbox"/> AltGPS.2 <input checked="" type="checkbox"/> AltGPS.3 <input checked="" type="checkbox"/> AltGPS.4	<input checked="" type="checkbox"/> AltI-GPS.1 <input checked="" type="checkbox"/> AltI-GPS.2	<input checked="" type="checkbox"/> AltPaADDU.1 <input checked="" type="checkbox"/> AltBCADDU.1	<input checked="" type="checkbox"/> AltRA.1 <input checked="" type="checkbox"/> AltRA.2	<input checked="" type="checkbox"/> ALTref <input checked="" type="checkbox"/> ALTPA.d <input checked="" type="checkbox"/> ALTGA.d	<input checked="" type="checkbox"/> AltRA1.c <input checked="" type="checkbox"/> AltRA2.c
<input checked="" type="checkbox"/> Ground Speed	<input checked="" type="checkbox"/> GsXI-GPS.1 <input checked="" type="checkbox"/> GsXI-GPS.2	<input checked="" type="checkbox"/> GsYI-GPS.1 <input checked="" type="checkbox"/> GsYI-GPS.2	<input checked="" type="checkbox"/> GsZI-GPS.1 <input checked="" type="checkbox"/> GsZI-GPS.2		<input checked="" type="checkbox"/> GSXref <input checked="" type="checkbox"/> GSYref <input checked="" type="checkbox"/> GSZref	
<input checked="" type="checkbox"/> Lat / Lon	<input checked="" type="checkbox"/> LatGPS.1 <input checked="" type="checkbox"/> LatGPS.2 <input checked="" type="checkbox"/> LatGPS.3 <input checked="" type="checkbox"/> LatGPS.4	<input checked="" type="checkbox"/> LatI-GPS.1 <input checked="" type="checkbox"/> LatI-GPS.2	<input checked="" type="checkbox"/> LonGPS.1 <input checked="" type="checkbox"/> LonGPS.2 <input checked="" type="checkbox"/> LonGPS.3 <input checked="" type="checkbox"/> LonGPS.4	<input checked="" type="checkbox"/> LonI-GPS.1 <input checked="" type="checkbox"/> LonI-GPS.2	<input checked="" type="checkbox"/> LATref <input checked="" type="checkbox"/> LONref	
<input checked="" type="checkbox"/> Pressure	<input checked="" type="checkbox"/> PDALPHA.1 <input checked="" type="checkbox"/> PDALPHA.2 <input checked="" type="checkbox"/> PDBETA.1 <input checked="" type="checkbox"/> PDBETA.2	<input checked="" type="checkbox"/> PQALPHA.1 <input checked="" type="checkbox"/> PQBETA.1	<input checked="" type="checkbox"/> PQM.1 <input checked="" type="checkbox"/> PQM.2 <input checked="" type="checkbox"/> PQM.3 <input checked="" type="checkbox"/> PQM.4	<input checked="" type="checkbox"/> PSM.1 <input checked="" type="checkbox"/> PSM.2 <input checked="" type="checkbox"/> PTM.1	<input checked="" type="checkbox"/> PDLAPHAref <input checked="" type="checkbox"/> PDBETAref <input checked="" type="checkbox"/> PQALPHAref <input checked="" type="checkbox"/> PQBETAref	<input checked="" type="checkbox"/> PQMref <input checked="" type="checkbox"/> PQ.c <input checked="" type="checkbox"/> PSMref <input checked="" type="checkbox"/> PS.c
<input checked="" type="checkbox"/> Air Speed	<input checked="" type="checkbox"/> CasADDU.1	<input checked="" type="checkbox"/> TasADDU.1	<input checked="" type="checkbox"/> lasADDU.1		<input checked="" type="checkbox"/> IAS.d	<input checked="" type="checkbox"/> TAS.d
<input checked="" type="checkbox"/> Pitch / Roll	<input checked="" type="checkbox"/> PitchI.1 <input checked="" type="checkbox"/> PitchI.2 <input type="checkbox"/> PitchI.3	<input checked="" type="checkbox"/> PitchRateI.1 <input checked="" type="checkbox"/> PitchRateI.2 <input type="checkbox"/> PitchRateI.3	<input checked="" type="checkbox"/> RollI.1 <input checked="" type="checkbox"/> RollI.2 <input type="checkbox"/> RollI.3	<input checked="" type="checkbox"/> RollRateI.1 <input checked="" type="checkbox"/> RollRateI.2 <input type="checkbox"/> RollRateI.3	<input checked="" type="checkbox"/> PITCHref <input checked="" type="checkbox"/> ROLLref	
<input type="checkbox"/> Temp / Dewpt	<input checked="" type="checkbox"/> TTM.1 <input checked="" type="checkbox"/> TTM.2 <input type="checkbox"/> TTM.3	<input checked="" type="checkbox"/> TDM.1 <input checked="" type="checkbox"/> TDM.2 <input checked="" type="checkbox"/> TDM.3	<input checked="" type="checkbox"/> TRadD.1 <input checked="" type="checkbox"/> TRadS.1 <input type="checkbox"/> TRadU.1		<input checked="" type="checkbox"/> TD.c <input checked="" type="checkbox"/> TDMref	<input checked="" type="checkbox"/> TTMref <input checked="" type="checkbox"/> TA.d
<input type="checkbox"/> Misc. (Must check)					<input checked="" type="checkbox"/> UWZ.d <input checked="" type="checkbox"/> DPJ_WSZ <input checked="" type="checkbox"/> HUM	<input checked="" type="checkbox"/> WS.d <input checked="" type="checkbox"/> WD.d

FLID_Mission_Documents.pdf:
<input checked="" type="checkbox"/> Error Summary
<input checked="" type="checkbox"/> Crew Manifest
<input checked="" type="checkbox"/> QC Checklist
<input checked="" type="checkbox"/> Dropwindsonde Log(s) - AVAPS and FD if completed
<input checked="" type="checkbox"/> Flight Track
n/a Miscellaneous FD Notes

QC Key	
Not checked	<input type="checkbox"/>
Valid	<input checked="" type="checkbox"/>
Errors (note)	<input checked="" type="checkbox"/> X

NOTES:
<p>PQM.1 is the outlier of PQM sensors - not used operationally or in post processing</p> <p>PDALPHA.2 and PDBETA.2 are INOP</p> <p>TDM.3 unrepresentative - not used operationally or in post processing</p> <p>A few periods where HUM_REL.d is above 100%</p> <p>QC by Ashley Lundry</p>

# AVAPS Drop Log

Project: 2019 Hurricane

Mission: Hurricane Dorian

Flight ID: 20190905H1

Take Off: \_\_\_\_\_

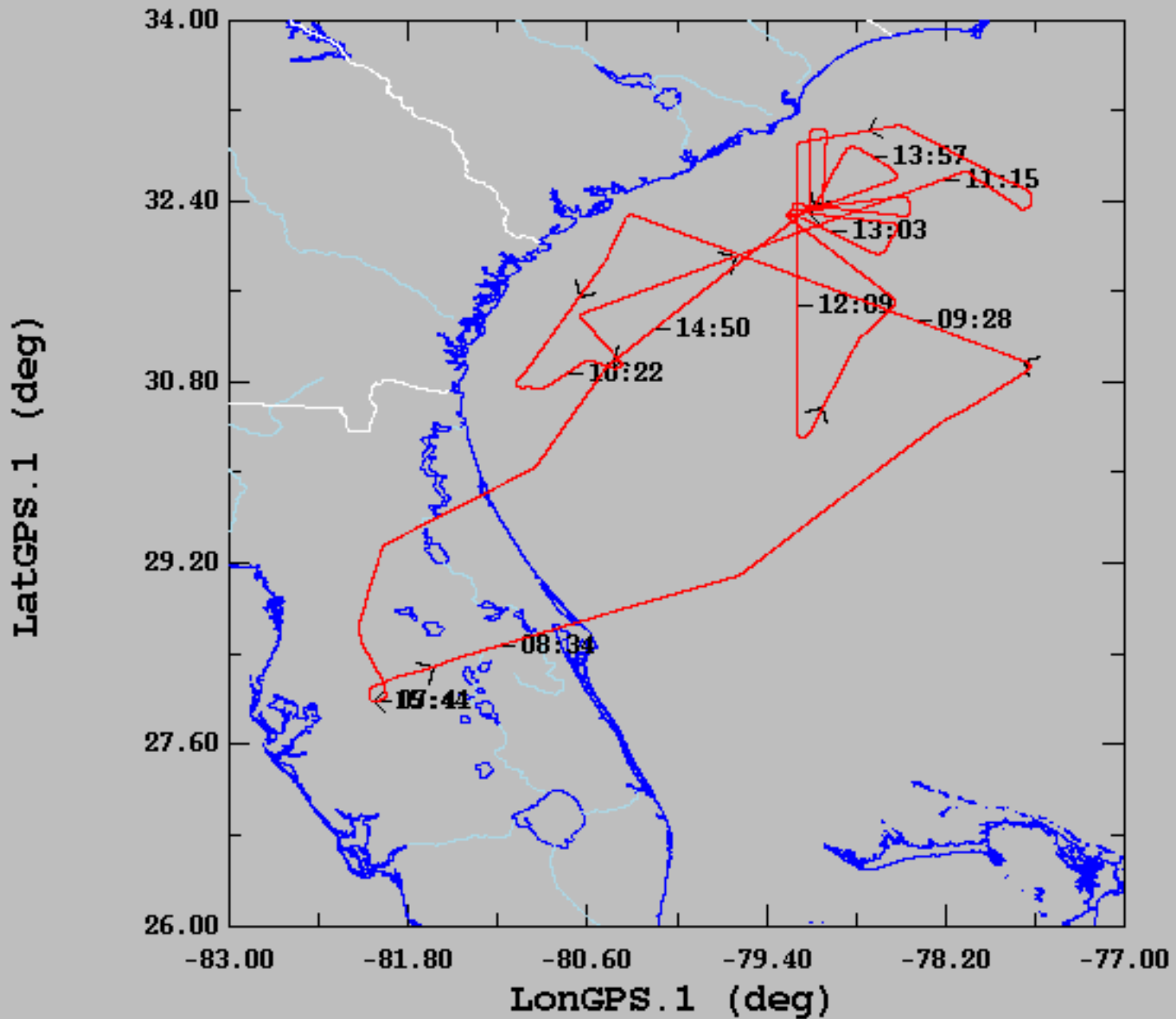
Landing: \_\_\_\_\_

Flt Dir: Holmes

Launcher S/N: \_\_\_\_\_

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	184750434	1	-0.7	0917Z	NGU	NWS	EP, IB	✓
2	185130641	2	-0.9	0930Z			Mid, IB	✓
3	185120856	3	-0.5	0955Z			EP, OB	✓
4	185120861	4	-0.7	1020Z			EP, IB, No launch data	X
5	185150427	5	-0.2	1020Z			EP, IB, back up	✓
6	185050632	6	-0.3	1049Z			MP, IB	✓
7	191740234	7	-0.1	1117Z			MP, OB	✓
8	185170402	8	-0.3	1117Z			FP, OB	✓
9	190140099	1	-0.3	1136Z		HRD	HRD, TDR work	✓
10	185150317	2	-0.3	1139Z		HRD	HRD, TDR work	✓
11	185120781	3	-0.7	1148Z		NWS	EP, IB, <sup>suspect</sup> humidity	✓
12	191050433	4	+0.2	1218Z		NWS	MP, OB	✓
13	185150315	5	-0.2	1225Z		NWS	EP, OB	✓
14	191010391	6	-0.5	1251Z		Nesda	IB	✓
15	190140131	7	-0.4	1253Z			IB	✓
16	191040494	8	-0.1	1314Z			IB	✓
17	185140368	1	-0.3	1336Z			IB	✓
18	185110405	2	-0.3	1400Z			IB	✓
19	190140097	3	-0.3	1401Z			IB	✓
20	191050434	4	-0.1	1415Z			OB	✓
21	125150431	5	-0.4	1433Z			OB	✓
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								

2019-09-05, 07:41:02-15:44:31



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	31.02	1.57	27.98	33.06
— LonGPS.1 (deg), 1 s/sec	-79.75	1.28	-82.13	-77.62