



Flight Director: Carpenter / Henning  
Phone #: 863-500-3901

ACAT-4 Version = 7.3

**U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N49RF Manifest**

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20190904N1	FLT #:	19-106	AC:	Twining	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	05:30Z	CP(s):	Nardi		A/C Takeoff	1002.7	Good	Bad	Sent
To:	KLAL	ETA:	13:30Z		MacIntyre		ASOS Takeoff	KLAL 0550Z 1002.8 mb	27	2	27
Block Time		Flight Time		Nav(s):			ASOS Land	1005.3	BTs		
In:	13:20	Land:	13:12	FE(s):			ASOS Land	KLAL 1245Z 1004.8 mb	0	0	0
Out:	5:44	T/O:	5:52	FD(s):	Carpenter	Visitors:	Storm Number ID:		AL052019		
Total:	7.60	Total:	7.33	SEB:	Parrish		(ie: AL072012)				
Sponsoring Org:	NWS			SSA:	Paul		TCPOD/WSPOD Mission		NOAA9 4205A Dorian		
Program:	PHS			AVAPS:	Hartberger		(ie: NOAA2 2418A SANDY)				
Purpose:	Hurricane Dorian Surveillance				Miller		OBSERVATIONS				
					Patel		Fix Number	Obs Number	Fix Time	SLP	
AS REQUIRED BY ORM			Y	N	REMARKS						
VOLCANIC ASH				X							
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							
Gmax:				Gmin:			*Highlighted items must be completed before departure.				
Remarks:											

## G-IV QC Checklist

Flight ID:	20190904N1
Flight Director(s):	Carpenter / Henning
UWZ.d mean:	0.15 post-processing

Pressure Comparison		
	T/O	Land
Aircraft	1002.7	1005.3
Tower	KLAL 0550Z 1002.8 mb	KLAL 1245Z 1004.8 mb

	Raw 1Hz Mean File Parameters				C File Parameters	
✓ Accelerometer	✓ AccAXI.1 ✓ AccAXI.2 ✓ AccAXI.3	✓ AccAYI.1 ✓ AccAYI.2 ✓ AccAYI.3	✓ AccAZI.1 ✓ AccAZI.2 ✓ AccAZI.3		✓ AccZref	
✓ Altitude	✓ AltGPS.1 ✓ AltGPS.2 ✓ AltGPS.3	✓ AltI.1 ✓ AltI.2 ✓ AltI.3	✓ AltPaADDU.1 ✓ AltPaADDU.2 ✓ AltRA.1	✓ AltBCADDU.1 ✓ AltBCADDU.2	✓ ALTref ✓ ALTPA.d ✓ ALTGA.d	
✓ Ground Speed	✓ GsXI.1 ✓ GsXI.2 ✓ GsXI.3 ✓ GsXGPS.1 ✓ GsXGPS.2 ✗ GsXGPS.3	✓ GsYI.1 ✓ GsYI.2 ✓ GsYI.3 ✓ GsYGPS.1 ✓ GsYGPS.2 ✗ GsYGPS.3	✓ GsZI.1 ✓ GsZI.2 ✓ GsZI.3 ✓ GsZGPS.1 ✓ GsZGPS.2 ✗ GsZGPS.3	✓ GsGPS.1 ✓ GsGPS.2 ✗ GsGPS.3	✓ GSXref ✓ GSYref ✓ GSZref	
✓ Lat / Lon	✓ LatGPS.1 ✓ LatGPS.2 ✓ LatGPS.3	✓ LatI.1 ✓ LatI.2	✓ LonGPS.1 ✓ LonGPS.2 ✓ LonGPS.3	✓ LonI.1 ✓ LonI.2	✓ LATref ✓ LONref	
✓ Pressure	✓ PDALPHA.1 ✓ PDALPHA.2 ✓ PDBETA.1 ✓ PDBETA.2	✓ PQALPHA.1 ✓ PQALPHA.2 ✓ PQBETA.1 ✓ PQBETA.2	✓ PQM.1 ✓ PQM.2	✓ PSM.1 ✓ PSM.2	✓ PDLAPHaref ✓ PDBETAref ✓ PQALPHAref ✓ PQBETAref	✓ PQMref ✓ PQ.c ✓ PSMref ✓ PS.c
✓ Air Speed	✓ CasADDU.1	✓ TasADDU.1			✓ IAS.d	✓ TAS.d
✓ Pitch / Roll	✓ PitchI.1 ✓ PitchI.2 ✓ PitchI.3	✓ PitchRateI.1 ✓ PitchRateI.2 ✓ PitchRateI.3	✓ RollI.1 ✓ RollI.2 ✓ RollI.3	✓ RollRateI.1 ✓ RollRateI.2 ✓ RollRateI.3	✓ PITCHref ✓ ROLLref	
✓ Temp / Dewpt	✓ TTM.1 ✗ TTM.2 ✓ TTM.3	✓ TTM.4	✓ TDM.1 ✓ TDM.2		✓ TD.c ✓ TDMref	✓ TTMref ✓ TA.d
✓ Misc. (Must check)					✓ UWZ.d ✓ DPJ_WSZ ✓ HUM	✓ WS.d ✓ WD.d

FLID_Mission_Documents.pdf:	
✓	Error Summary
✓	Crew Manifest
✓	QC Checklist
✓	Dropwindsonde Log(s) - AVAPS and FD if completed
✓	Flight Track
✗	Miscellaneous FD Notes

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

NOTES:
<p>GsGPS.3 unavailable.</p> <p>TTM.2 unavailable.</p> <p>Unrealistic RH spikes periodically.</p>

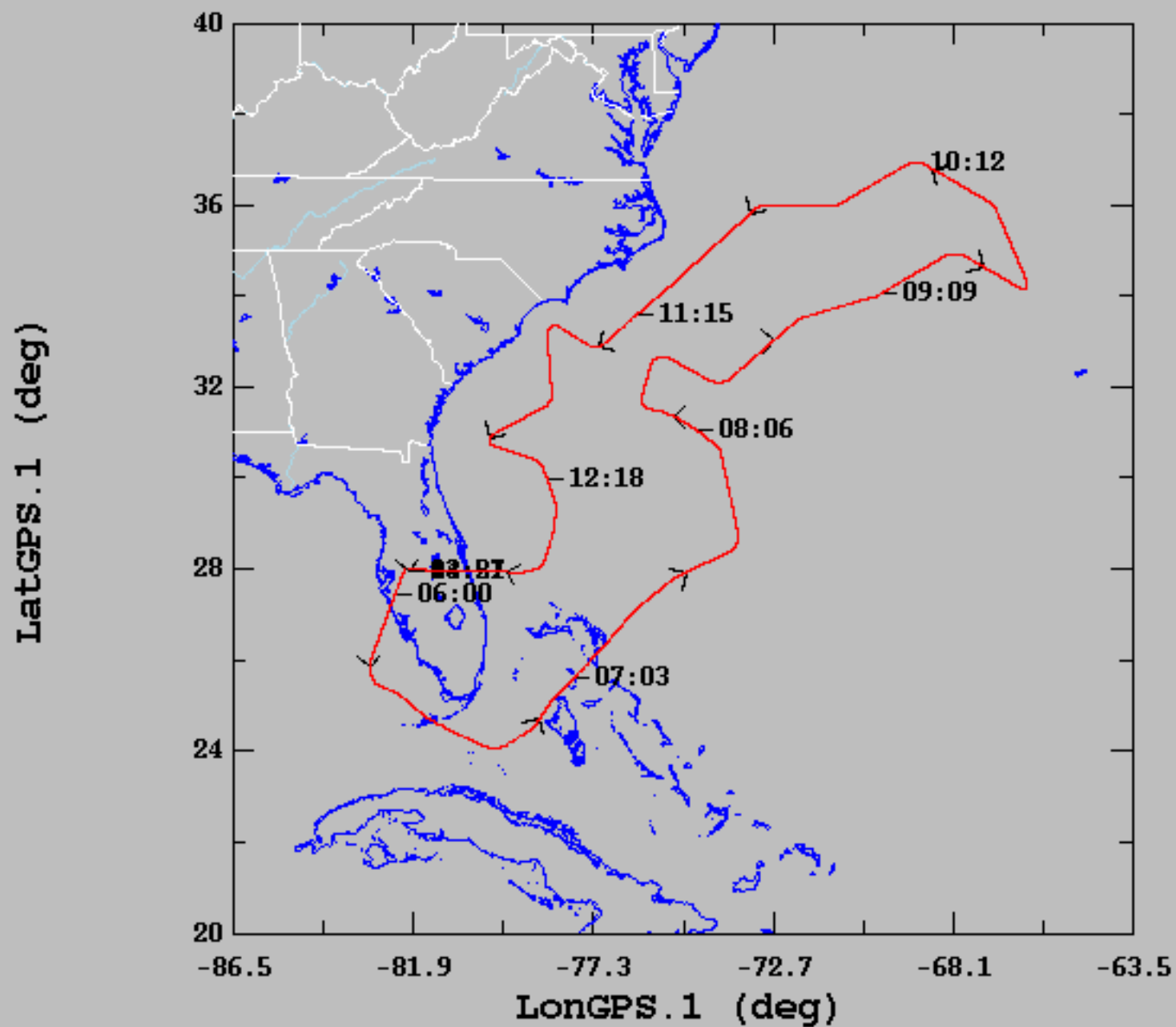
### AVAPS Drop Log

Project: Hurricane Surveillance Mission: Dorian Flight ID: 20190904N1

Take Off: 0130L Landing: \_\_\_\_\_ Fit Dir: Rick M. Launcher S/N: \_\_\_\_\_

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	185130162	1	0	0613	AJP	NWS		✓
2	191040500	2	-0.4	0617				✓
3	185130160	3	0	0640				✓
4	185130648	4	0	0702			Bad Temp Humidity	✓
5	185130111	1	0	0703			Back up 4	✓
6	191050237	2	0	0716				✓
7	191020560	3	-0.5	0729				✓
8	184030515	4	-0.5	0743				✓
9	185130859	1	0	0759				✓
10	191040499	2	0	0817				✓
11	185130113	3	0	0826				✓
12	191050060	4	0	0830			Bad Temp Humidity	✓
13	191050426	1	0	0838			Back up 12	✓
14	191050477	2	0	0855				✓
15	191020900	3	0	0908				✓
16	185130652	4	-0.4	0923				✓
17	191020899	1	0	0936	RGH			✓
18	190930050	2	-0.5	0953	I			✓
19	191040510	3	-0.3	1010	AJP			✓
20	191020498	4	0	1028				✓
21	191040860	1	0	1043				✓
22	185130157	2	0	1105				✓
23	191050475	3	0	1127				✓
24	191050236	4	0	1135				✓
25	191020515	1	-0.4	1150				✓
26	191050476	2	0	1204				✓
27	191050421	3	0	1214				
28	191050478	4	0	1224				
29	191010648	1	0	1234				
30								
31								

09/04/2019, 04:57:06-13:21:17



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	30.85	3.71	24.07	36.95
— LonGPS.1 (deg), 1 s/sec	-75.87	4.71	-83.00	-66.14