



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:	20190903N1	FLT #:	19-105	AC:	Twining	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	05:30Z	CP(s):	Waddington		A/C Takeoff	1004.6	Good	Bad	Sent
To:	KLAL	ETA:	13:30Z		Nardi		ASOS Takeoff	KLAL 0455Z 1004.1 mb	29	2	29
Block Time		Flight Time		Nav(s):			ASOS Land	1004.6	BTs		
In:	13:25	Land:	13:20	FE(s)			A/C Land	1004.6	Good	Bad	Sent
Out:	5:21	T/O:	5:28	FD(s):	Henning	Visitors:	ASOS Land	KLAL 1350Z 1004.9 mb	0	0	0
Total:	8.07	Total:	7.87		Carpenter		Norman	Storm Number ID: (ie: AL072012)		NOAA9 3605A Dorian	
Sponsoring Org:	NWS			SEB:	Paul		TCPOD/WSPOD Mission (ie: NOAA2 2418A SANDY)		AL052019		
Program:	PHS			SSA:	Hartberger		OBSERVATIONS				
Purpose:	Hurricane Dorian Surveillance			AVAPS:	Miller						
					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:	20190903N1
Flight Director(s):	Carpenter / Henning

Pressure Comparison		
	T/O	Land
Aircraft	1004.6	1004.6
Tower	KLAL 0455Z 1004.1 mb	KLAL 1350Z 1004.9 mb

UWZ.d mean:	0.14 post-processing
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	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:

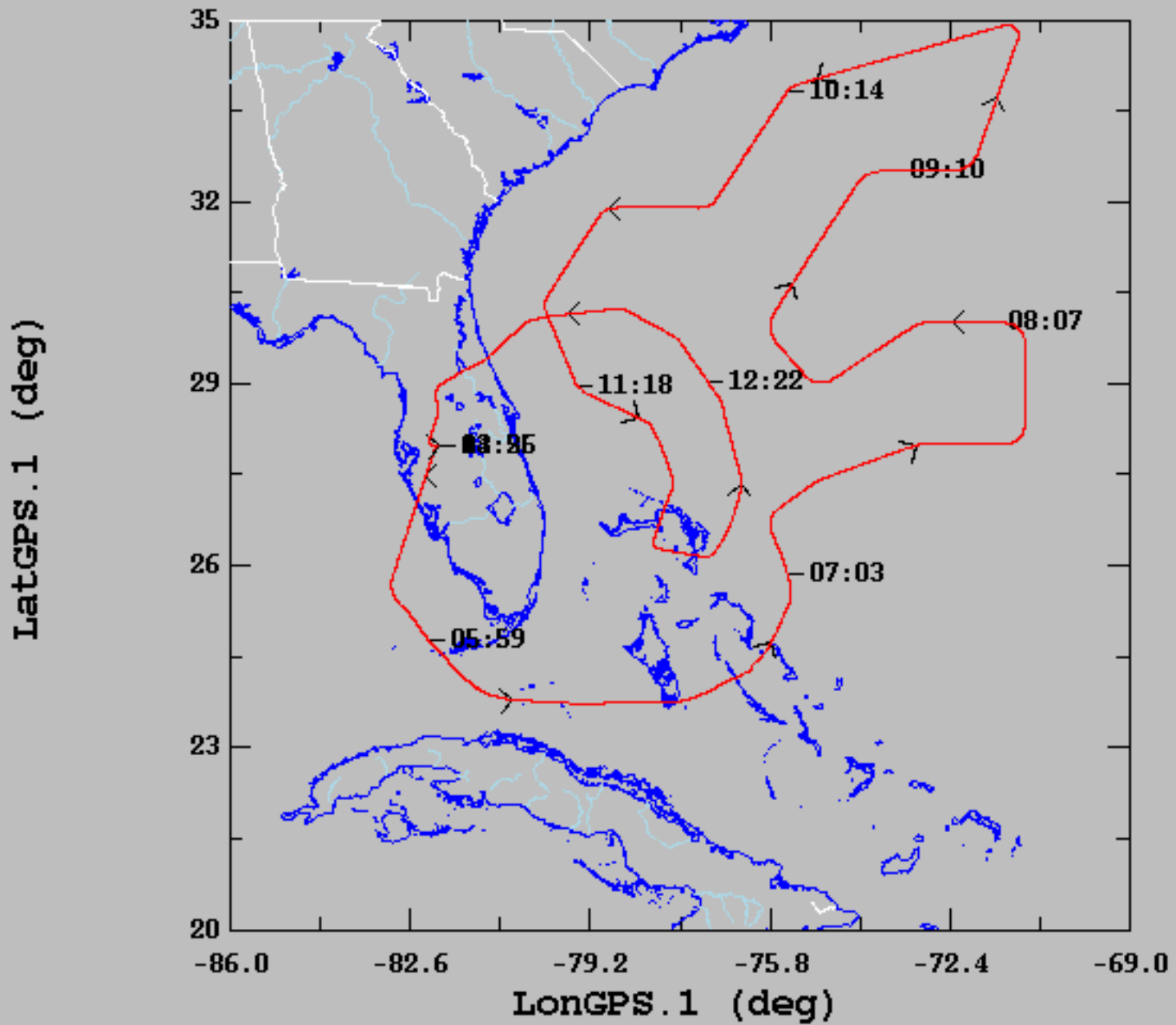
GsGPS.3 unavailable.  
 Temporary fault in PQBeta.1 1200-1245Z.  
 TTM.2 unavailable.

# AVAPS Drop Log

Project: Hurricane Surveillance Mission: Dorian Flight ID: 20190903N1  
 Take Off: 0100Z Landing: \_\_\_\_\_ Flt Dir: Rib H Launcher S/N: \_\_\_\_\_

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	183320953	1	-0.7	0551	AJP	NWS		✓
2	184030506	2	-0.7	0615				✓
3	183320253	3	-0.7	0628				✓
4	184030505	4	-0.5	0648				✓
5	184030944	1	-0.7	0702				✓
6	184030945	2	-0.5	0719				✓
7	184050894	3	-0.7	0733			Temp. humidity no good	✗
8	184040037	4	-0.5	0734			Back up 7	✓
9	183311129	1	-0.6	0746				✓
10	183330827	2	-0.3	0802				✓
11	183140453	3	-0.6	0817				✓
12	183321010	4	-0.5	0834				✓
13	184030513	1	0	0845	RGH			✓
14	183330531	2	-0.4	0908	RGH			✓
15	183330839	3	-0.8	0920	RGH			✓
16	183320977	4	-0.4	0940	AJP			✓
17	184020759	1	-0.5	0954				✓
18	184030947	2	0	1013				✓
19	184030516	3	0	1034				✓
20	185120645	4	0	1049				✓
21	191040001	1	0	1106				✓
22	185130873	2	0	-			No launch detect	✗
23	185120871	3	0	1119				✓
24	185130860	4	0	1127				✓
25	191050425	1	0	1138				✓
26	183320975	2	0	1148				✓
27	183120755	3	-0.3	1157				✓
28	183120754	4	-0.5	1208				✓
29	184030824	1	0	1218				✓
30	191010462	2	0	1229				✓
31	185130147	3	0	1239				✓

09/03/2019, 04:56:04-13:25:47



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	29.01	2.94	23.72	34.91
— LonGPS.1 (deg), 1 s/sec	-77.04	3.54	-82.91	-71.00