

N49RF ERROR SUMMARY
20190903N1

Flight ID: 20190903N1

Sensor or System -----	Number or Name -----
Static Pressure Probe	PSM.2
Dynamic Pressure Probe	PQM.2
Total Temperature Probe	TTM.4
Dewpoint Temp. Probe	TDM.1
Vertical Accelerometer	AccZI.2
Altimeter	AltGPS.2
INE Selection	2
Differential Attack Pressure Probe	PDALPHA.2
Differential Sideslip Pressure Probe	PDBETA.2
Dynamic Attack Pressure Probe	PQALPHA.2
Dynamic Sideslip Pressure Probe	PQBETA.2

Flight Directory acdata/2019/MET/20190903N1

Local Met Data	Takeoff KLAL (0527Z)	Landing KLAL (1320Z)
Dynamic Corrections		Yes
AttackAngleIntercept		3.97801
AttackAngleSlope		3.86172
SlipAngleIntercept		1.258
SlipAngleSlope		6.69941
AttackAngleIntercept2		5.04641
AttackAngleSlope2		5.41847
SlipAngleIntercept2		0.905
SlipAngleSlope2		6.78464

Notes:

There were no edits made in the measured parameters used to calculate meteorological and navigational parameters.

Takeoff/Landing data: Data during landing and takeoff are potentially suspect. It is recommended that ground data not be used for scientific analysis.

GsGPS.3 unavailable. Temporary fault in PQBeta.1 from 1200-1245Z.
TTM.2 unavailable. Unrealistic supersaturations calculated periodically.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	31	29	29
Test sondes	0	0	0
AXBTS	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

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						
Sponsoring Org:		NWS		SEB:	Paul	Norman	Storm Number ID:		NOAA9 3605A Dorian		
Program:		PHS			Hartberger		(ie: AL072012)				
Purpose:		Hurricane Dorian Surveillance		SSA:	Miller		TCPD/WSPD Mission		AL052019		
							(ie: NOAA2 2418A SANDY)				
				AVAPS:	Patel		OBSERVATIONS				
AS REQUIRED BY ORM			Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP	
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

UWZ.d mean:	0.14 post-processing
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Pressure Comparison		
	T/O	Land
Aircraft	1004.6	1004.6
Tower	KLAL 0455Z 1004.1 mb	KLAL 1350Z 1004.9 mb

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

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

QC Key	
Not checked	☐
Valid	☒
Errors (note)	☒

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

AVAPS Drop Log

Project: Hurricane Surveillance Mission: Dorian

Flight ID: 20190903 NJ

Take Off: 0130L

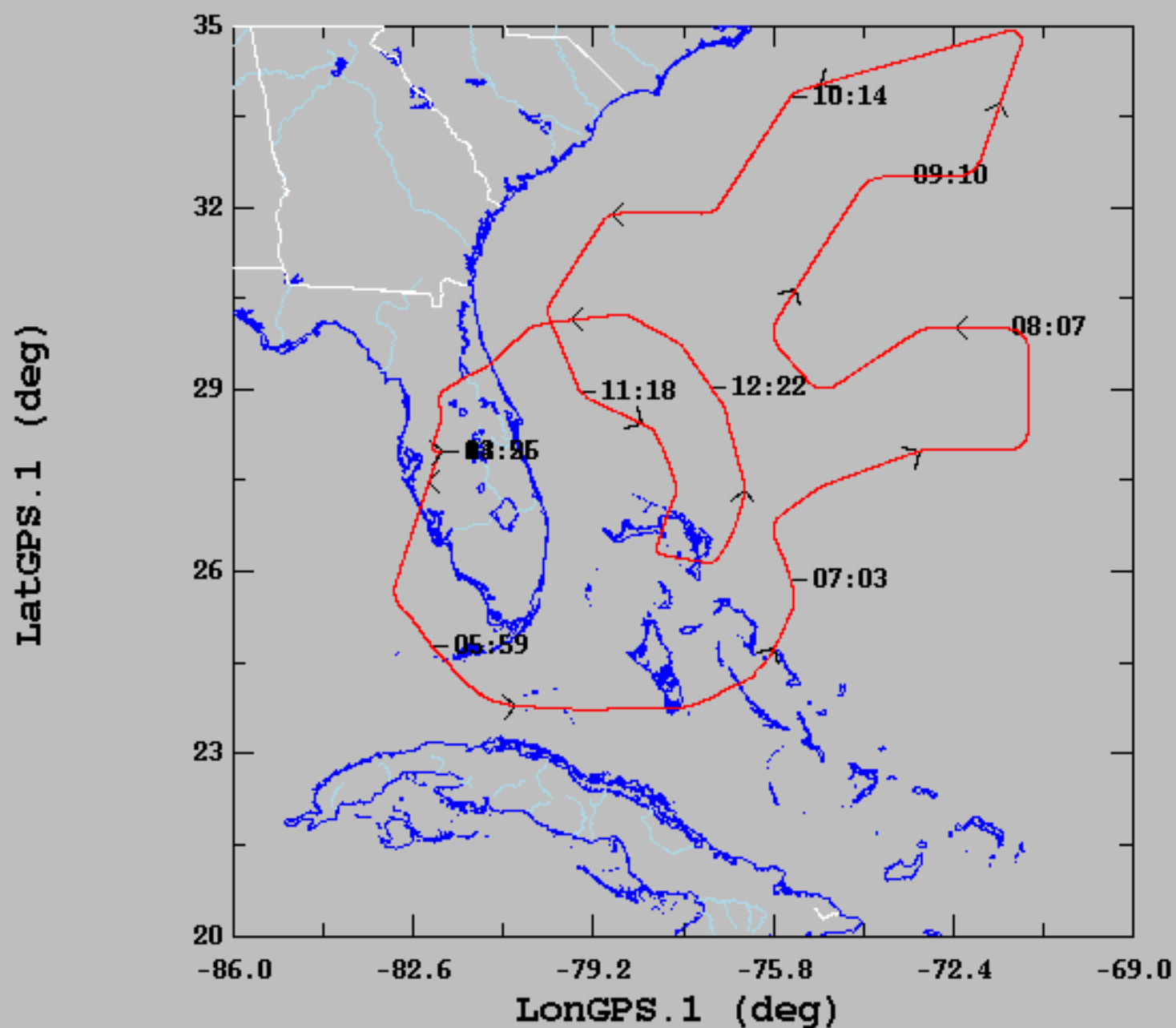
Landing: _____

Flt Dir: Rich 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
LongGPS.1 (deg), 1 s/sec	-77.04	3.54	-82.91	-71.00