

N49RF ERROR SUMMARY
20180909N1

Flight ID: 20180909N1

Sensor or System -----	Number or Name -----
Static Pressure Probe	PSM.2
Dynamic Pressure Probe	PQM.2
Total Temperature Probe	TTM.1
Dewpoint Temp. Probe	TDM.1
Vertical Accelerometer	AccZI.1
Altimeter	AltGPS.3
INE Selection	1
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/2018/MET/20180909N1

Local Met Data	Takeoff TISX (1719Z)	Landing KLAL (0137Z)
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.

TDM.2 unrepresentative for duration of flight

GsXI.3, GsYI.3 inop beyond 20:52

Moisture quantities remain suspect

Wind quantities remain suspect

QC performed by Quinn Kalen

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

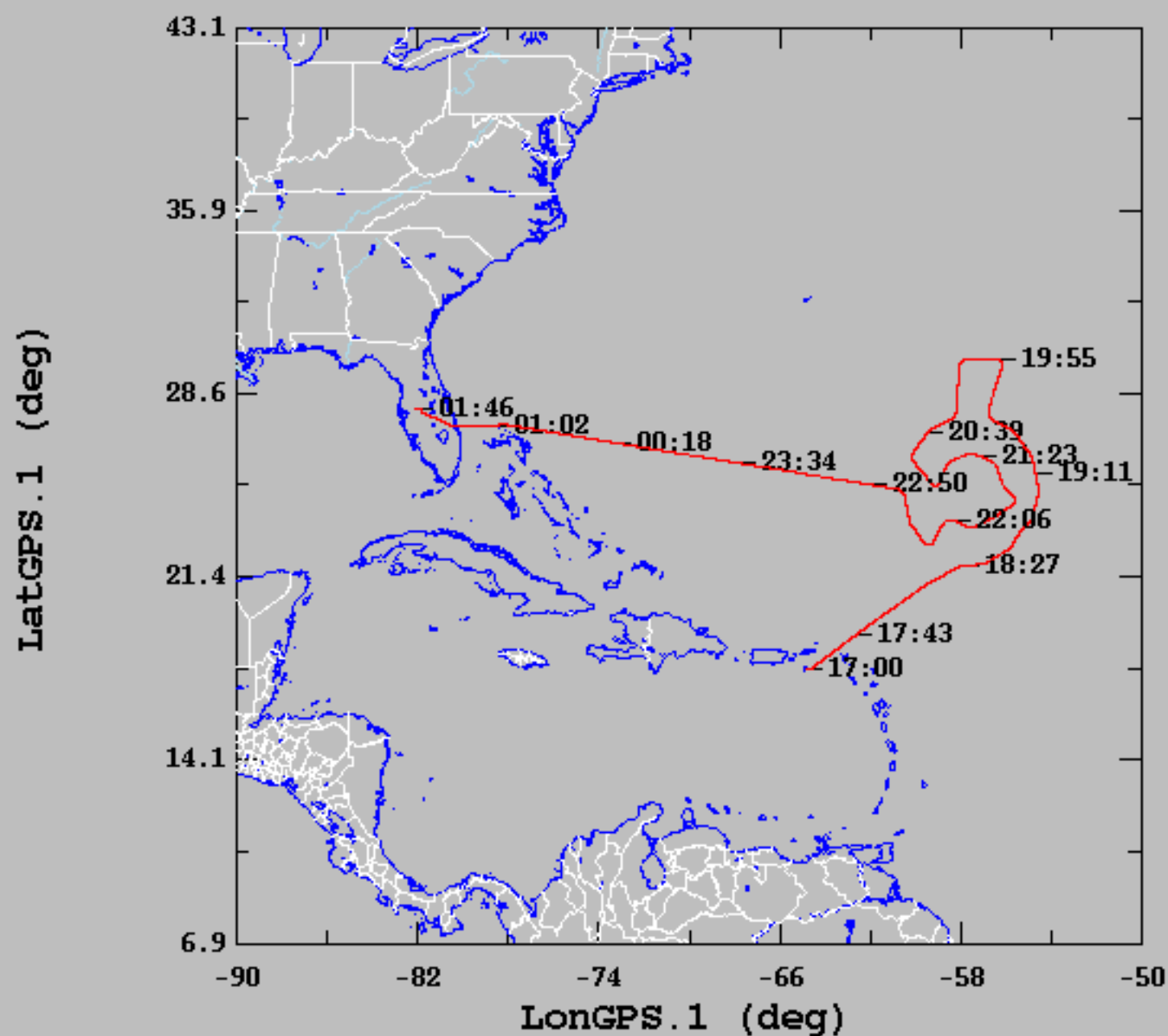
Flight Director: Flaherty / Morgan
Phone #: 863-500-3980

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:	20180909N1	FLT #:		AC:	Twining, Kristie	Scientists:	Pressure		Dropsondes		
From:	TISX	ETD:		CP(s):	Waddington, Rebecca		A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:									
Block Time		Flight Time		Nav(s):	McAlister, Michael		ASOS Takeoff		BTs		
In:	1:46	Land:	1:37	FE(s):	Rotteveel, Alexander		A/C Land		Good	Bad	Sent
Out:	17:11	T/O:	17:19								
Total:	8.60	Total:	8.30	FD(s):	Flaherty, Paul	Visitors:	ASOS Land				
					Morgan, Nick						
Sponsoring Org:				SEB:	Smith, Jeff		Storm Number ID:				
Program:					Patel, Akshar		(ie: AL072012)				
Purpose:		TS Florence Recon		SSA:	Defeo, Gabriel		TCPD/WSPD Mission				
							(ie: NOAA2 2418A SANDY)				
				AVAPS:	Fritzler, Brad		OBSERVATIONS				
AS REQUIRED BY ORM			Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH											
SCIENCE MISSION WITHIN BDRY LAYER											
LACK OF PRECIPITATION											
RELATIVE HUMIDITY ≥ 80%											
LARGE AIR-SEA TEMP GRADIENT											
HIGH SURFACE WINDS											
LONG FETCH / DURATION OF SFC WND											
SEA SALT ACCRETION FORECAST											
SEA SALT ACCRETION OBSERVED											
Gmax:				Gmin:	*Highlighted items must be completed before departure.						
Remarks:											

2018-09-09, 17:00:03-25:46:11



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	24.91	3.10	17.69	30.00
LongGPS.1 (deg), 1 s/sec	-63.48	8.01	-82.02	-54.51

G-IV QC Checklist

Flight ID:	20180909N1
Flight Director(s):	Flaherty / Morgan
UWZ.d mean:	-0.01

Pressure Comparison		
	T/O	Land
Aircraft	1012.9	1009.2
Tower	1012.0	1009.2

	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	
	x GsXI.3	x GsYI.3	✓ GsZI.3	□ GsGPS.3		✓ GSZref	
	✓ GsXGPS.1	✓ GsYGPS.1	✓ GsZGPS.1				
	✓ GsXGPS.2	✓ GsYGPS.2	✓ GsZGPS.2				
	□ GsXGPS.3	□ GsYGPS.3	□ 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	✓ 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	✓ PitchRateI.1	✓ RollI.1	✓ RollRateI.1		✓ PITCHref	
	✓ PitchI.2	✓ PitchRateI.2	✓ RollI.2	✓ RollRateI.2		✓ ROLLref	
	✓ PitchI.3	✓ PitchRateI.3	✓ RollI.3	✓ RollRateI.3			
✓ Temp / Dewpt	✓ TTM.1	✓ TTM.4	✓ TDM.1			✓ TD.c	✓ TTMref
	□ 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
✓	Miscellaneous FD Notes

QC Key	
Not checked	□
Valid	✓
Errors (note)	x

NOTES:
TDM.2 unrepresentative for duration of flight GsXI.3, GsYI.3 inop beyond 20:52 Moisture quantities remain suspect Wind quantities remain suspect QC performed by Quinn Kalen

N49RF AVAPS DROP LOG

Lead Tech: Gabe Defeo

Project: Hurricane 2018

Mission: FlorenceFlight ID: 20180909N1

Take Off: _____

Landing: _____

Flt Dir: Nick

Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	181650847	1	0	17:48	AJP	NWS		✓
2	181930612	2	-0.3	18:00	↓	↓		✓
3	181720106	3	-0.2	18:13	↓	↓		✓
4	183010945	4	0	18:25	↓	↓		✓
5	181840613	1	0	18:35				✓
6	181650851	2	-0.1	18:45				✓
7	183010934	3	-0.1	18:56				✓
8	183011016	4	0	19:05				✓
9	181920757	1	-0.1	19:16				✓
10	181720544	2	-0.7	19:27				✓
11	181720104	3	0	-			No launch detect ^{bad}	✗
12	182340149	4	-0.1	19:37			Back up 11	✓
13	182050026	1	0	19:54			Drop Point 12	✓
14	181920768	2	0	20:08			DP 13	✓
15	181920758	3	0	20:27			DP 14	✓
16	182041153	4	0	20:38			Bad Temp. humidity	✗
17	182010444	1	-0.2	20:39			Back up DP 15	✓
18	182040994	2	-0.1	20:48			DP 16	✓
19	182010160	3	-0.2	21:04				✓
20	183010944	4	-0.1	21:11				✓
21	182010462	1	-0.2	21:19				✓
22	183011017	2	-0.1	21:28				✓
23	181930015	3	0	21:38				✓
24	182930497	4	-0.1	21:52				✓
25	181650850	1	0	22:01				✓
26	183011015	2	-0.1	22:09				✓
27	181720543	3	0	22:21				✓
28	182010455	4	-0.1	22:29				✓
29	182340145	1	-0.2	22:40				✓
30	183010866	2	-0.1	22:50				✓
31	181920780	3	0	23:02				✓
32	18201071	4	-0.1	23:12			GPS Data late	✗
33	181920932	1	0	23:13			Back up DP 30	✓
34	181920760	2	0.1	23:23			Drop Point 31	✓