

N49RF ERROR SUMMARY
 20190915N1

Flight ID: 20190915N1

Sensor or System	Number or Name
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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/20190915N1

Local Met Data	Takeoff KLAL (1437Z)	Landing TBPB (1816Z)
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. TTM.2 unavailable. Unrealistic moisture quantities measured on ground by TDM.1. TDM.2 tracks well with TDM.1 but values generally unrealistic at lower levels.

Expendable Type	# deployed	# good	# transmitted
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Dro sondes	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: 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:	20190915N1	FLT #:	19-113	AC:	Mansour	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	14:30Z	CP(s):	Waddington	Kaplan, John	A/C Takeoff	1009.8	Good	Bad	Sent
To:	TBPB	ETA:	18:30Z		Nardi		ASOS Takeoff	KLAL 14:50Z 1009.9 mb	0	0	0
Block Time		Flight Time		Nav(s):					BTs		
In:	18:20	Land:	18:17	FE(s)	Negron		A/C Land	1004.5	Good	Bad	Sent
Out:	14:27	T/O:	14:37	FD(s):	Carpenter	Visitors:	ASOS Land	TBPB 18:00Z 1003.8 mb	0	0	0
Total:	3.88	Total:	3.67		Henning						
Sponsoring Org:	HRD			SEB:	Lynch/C		Storm Number ID:		AL97		
Program:	PHX				Paul		(ie: AL072012)				
Purpose:	TBPB Repo for AL94 Genesis Missions			SSA:	Miller		TCPOD/WSPOD Mission		NOAA9 WXWXA TRAIN		
				AVAPS:	Underwood		(ie: NOAA2 2418A SANDY)				
AS REQUIRED BY ORM				Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					X						
SCIENCE MISSION WITHIN BDYR 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:	20190915N1
Flight Director(s):	Carpenter / Henning
UWZ.d mean:	0.17 post-processing

Pressure Comparison		
	T/O	Land
Aircraft	1009.8	1004.5
Tower	KLAL 14:50Z 1009.9 mb	TBPB 18:00Z 1003.8 mb

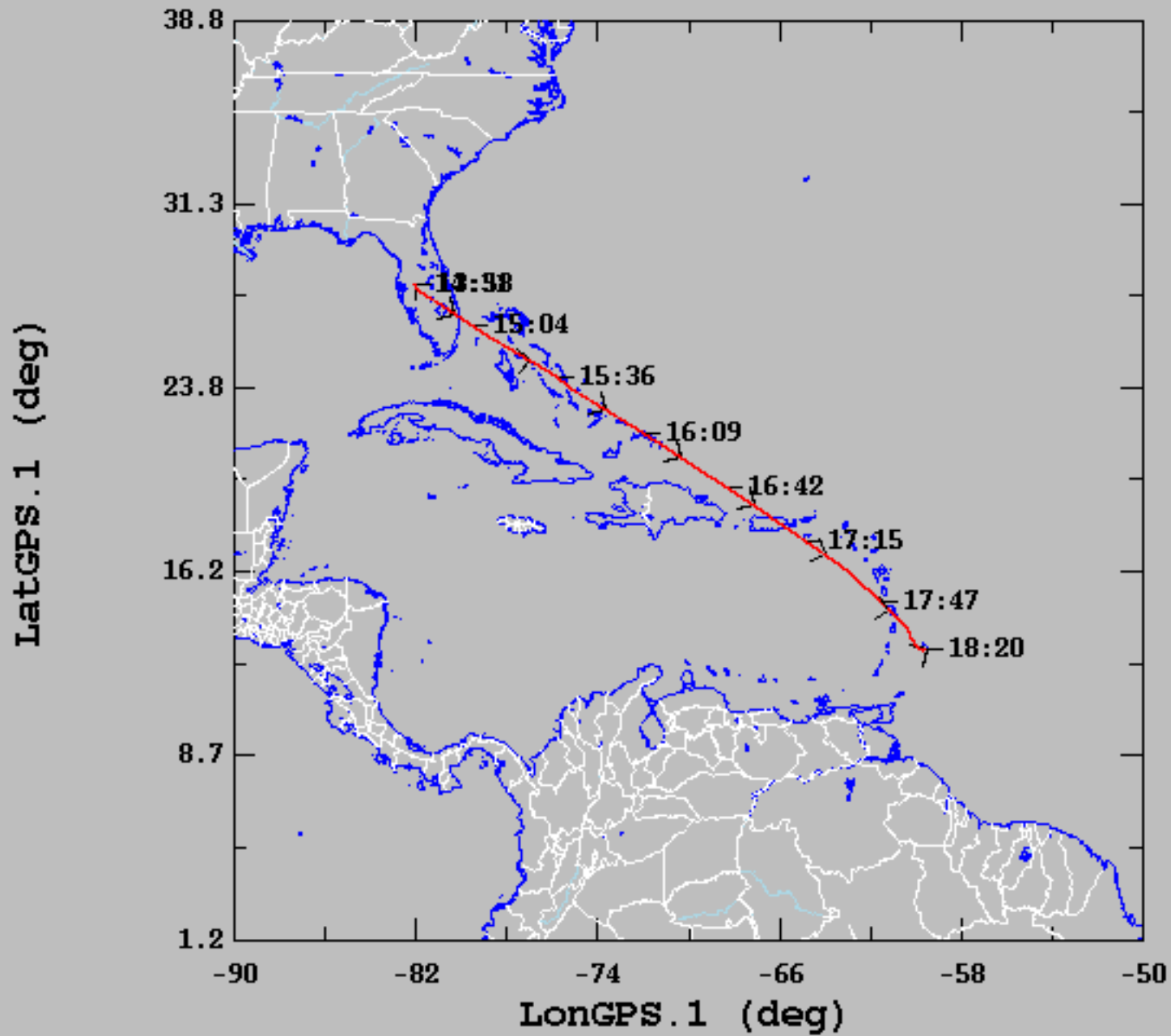
	Raw 1Hz Mean File Parameters					C File Parameters	
✓ Accelerometer	✓ AccAXI.1 ✓ AccAXI.2 ✓ AccAXI.3	✓ AccAYI.1 ✓ AccAYI.2 ✓ AccAYI.3	✓ AccAZI.1 ✓ AccAZI.2 ✓ AccAZI.3			✓ AccZref	
✓ Altitude	✓ AltGPS.1 ✓ AltGPS.2 ✓ AltGPS.3	✓ AltI.1 ✓ AltI.2 ✓ AltI.3	✓ AltPaADDU.1 ✓ AltPaADDU.2 ✓ AltRA.1	✓ AltBCADDU.1 ✓ 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 supersaturations calculated due to anomalously high measured values on TDM.1, particularly on-ground. Measured quantities on TDM.2 are 10-20 degrees too low at low levels.</p>

09/15/2019, 13:58:35-18:20:32



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	21.56	4.89	13.02	27.99
— LongGPS.1 (deg), 1 s/sec	-71.74	7.70	-82.03	-59.48