

N49RF ERROR SUMMARY
20190930N1

Flight ID: 20190930N1

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/20190930N1

Local Met Data	Takeoff TBPB (1337Z)	Landing KLAL (1712Z)
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.

PQBETA.1 unrepresentative beginning at 15:35 through 17:06
TDM.2 trending 25 degrees lower
Moisture quantities unrepresentative
Wind speed and direction remain suspect
QC performed by Quinnn Kalen

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Drosondes	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 #: 863-500-901

ACAT-4 Version = 7.3

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20190930N1	FLT #:	19-123	AC:	Twining	Scientists:	Pressure		Dropsondes		
From:	TBPB	ETD:	13:30Z	CP(s):	Waddington	Dunion, Jason	A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	17:30Z		Norman		ASOS Takeoff		0	0	0
Block Time		Flight Time		Nav(s):			TBPB 14:00Z 1005.8 mb	BTs			
In:	17:40	Land:	17:12	FE(s):	Negron		A/C Land	Good	Bad	Sent	
Out:	13:30	T/O:	13:37	FD(s):	Carpenter	Visitors:	ASOS Land	KLAL 16:50Z 1013.0 mb	0	0	0
Total:	4.17	Total:	3.58	SEB:	Warnecke			Storm Number ID:		AL132019	
Sponsoring Org:	HRD			SSA:	Miller		(ie: AL072012)		NOAA9 WXWXA TRAIN		
Program:	PHX			AVAPS:	Patel		TCPOD/WSP0D Mission (ie: NOAA2 2418A SANDY)				
Purpose:	Repo. to KLAL						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:	20190930N1
Flight Director(s):	Carpenter / Henning
UWZ.d mean:	0.18

Pressure Comparison		
	T/O	Land
Aircraft	1006.5	1013.4
Tower	1006.0	1013.7

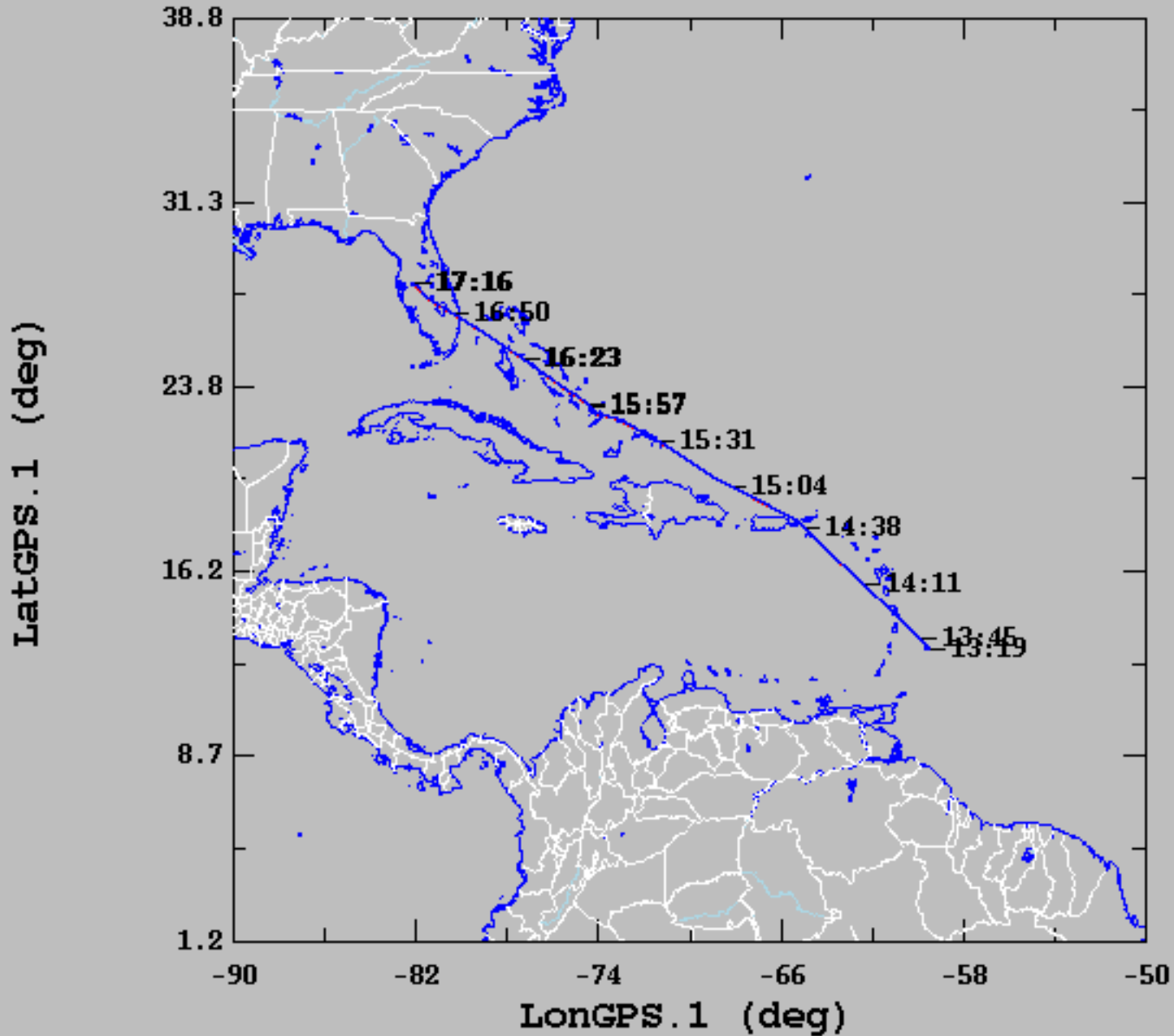
	Raw 1Hz Mean File Parameters					C File Parameters	
✓ Accelerometer	✓ AccAXI.1 ✓ AccAXI.2 ✓ AccAXI.3	✓ AccAYI.1 ✓ AccAYI.2 ✓ AccAYI.3	✓ AccAZI.1 ✓ AccAZI.2 ✓ AccAZI.3			✓ AccZref	
✓ Altitude	✓ AltGPS.1 ✓ AltGPS.2 ✓ AltGPS.3	✓ AltI.1 ✓ AltI.2 ✓ AltI.3	✓ AltPaADDU.1 ✓ AltPaADDU.2 ✓ AltRA.1	✓ AltBCADDU.1 ✓ AltBCADDU.2		✓ ALTref ✓ ALTPA.d ✓ ALTGA.d	
✓ Ground Speed	✓ GsXI.1 ✓ GsXI.2 ✓ GsXI.3 ✓ GsXGPS.1 ✓ GsXGPS.2 <input type="checkbox"/> GsXGPS.3	✓ GsYI.1 ✓ GsYI.2 ✓ GsYI.3 ✓ GsYGPS.1 ✓ GsYGPS.2 <input type="checkbox"/> GsYGPS.3	✓ GsZI.1 ✓ GsZI.2 ✓ GsZI.3 ✓ GsZGPS.1 ✓ GsZGPS.2 <input type="checkbox"/> GsZGPS.3	✓ GsGPS.1 ✓ GsGPS.2 <input type="checkbox"/> 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 <input style="background-color: #f8d7da;" type="checkbox"/> PQBETA.1 ✓ PQBETA.2	✓ PQM.1 ✓ PQM.2	✓ PSM.1 ✓ PSM.2		✓ PDLAPHAref ✓ PDBETAref ✓ PQALPHAref ✓ PQBETAref ✓ PQMref ✓ 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 <input type="checkbox"/> 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
<input type="checkbox"/>	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 style="background-color: #f8d7da;" type="checkbox"/> X

NOTES:
<p>PQBETA.1 unrepresentative beginning at 15:35 through 17:06</p> <p>TTM.2 trending 25 degrees lower</p> <p>Moisture quantities unrepresentative</p> <p>Wind speed and direction remain suspect</p> <p>QC performed by Quinnn Kalen</p>

2019-09-30, 13:19:13-17:16:37



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	20.50	4.69	13.07	27.99
— LonGPS.1 (deg), 1 s/sec	-70.06	7.43	-82.13	-59.42
— LatI.1 (deg), 1 s/sec	20.49	4.69	13.07	27.96
— LonI.1 (deg), 1 s/sec	-70.06	7.43	-82.14	-59.42