

N43RF ERROR SUMMARY
20200822I1

Flight ID: 20200822I1

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.2
Vertical Accelerometer	AccZfilterI-
GPS.1	
Altimeter	AltGPS.3
INE Selection	1
Differential Attack Pressure Probe	PDALPHA.1
Differential Sideslip Pressure Probe	PDBETA.1
Dynamic Attack Pressure Probe	PQALPHA.1
Dynamic Sideslip Pressure Probe	PQBETA.1
Flight Directory	acdata/2020/MET/20200822I1

Local Met Data	Takeoff KLAL (2047Z)	Landing KLAL (0445Z)
Dynamic Corrections		Yes
AttackAngleIntercept		0.131251
AttackAngleSlope		6.02327
SlipAngleIntercept		0.23
SlipAngleSlope		7.02537

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.1 and TDM.3 are not representative of environment

Data gap around 5.75 hours into flight.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	12	11	11
Test sondes	0	0	0
AXBTS	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Lundry
Phone #: 863-500-3898

ACAT-4 Version = 7.3

U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N43RF Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	2020082211	FLT #:	1	AC:	Rossi	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	1700L	CP(s):	Doremus		A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	0200L		Legidakes				11	1	11
Block Time		Flight Time		NAV:	Freeman		ASOS Takeoff		BTs		
In:		Land:		FE(s):	Heystek				Good	Bad	Sent
Out:		T/O:		FD(s):	Sanchez		A/C Land		0	0	0
Total:		Total:			Lundry						
				SSA:	Richards	Visitors:					
				AVAPS:	McAlister			Storm Number ID:			
Sponsoring Org:	NHC							(ie: AL072012)		AL132020	
Program:	PRX							TCPOD/WSPOD Mission		0613A LAURA	
Purpose:	NHC/EMC Tasking							(ie: NOAA2 2418A SANDY)			
				SEB:							
				MX:							
AS REQUIRED BY ORM				Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP
VOLCANIC ASH					X			1			
SCIENCE MISSION WITHIN BDRY LAYER					x						
LACK OF PRECIPITATION					x			2			
RELATIVE HUMIDITY ≥ 80%					X						
LARGE AIR-SEA TEMP GRADIENT					X			3			
HIGH SURFACE WINDS					X						
LONG FETCH / DURATION OF SFC WND					X			4			
SEA SALT ACCRETION FORECAST					X						
SEA SALT ACCRETION OBSERVED					x						
								Pennies:			

*Highlighted items must be completed before departure.

Remarks:

P-3 QC Checklist

Overall Assessment	Minor instrument issue(s) - minimal mission impact.
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Flight ID:	2020082211
Flight Director(s):	Lundry
Mission:	Tasked/Operational
UWZ.d mean:	-0.04

Pressure Comparison		
	T/O	Land
Aircraft	1013.5	1013.9
Tower	1010.9	1012.1

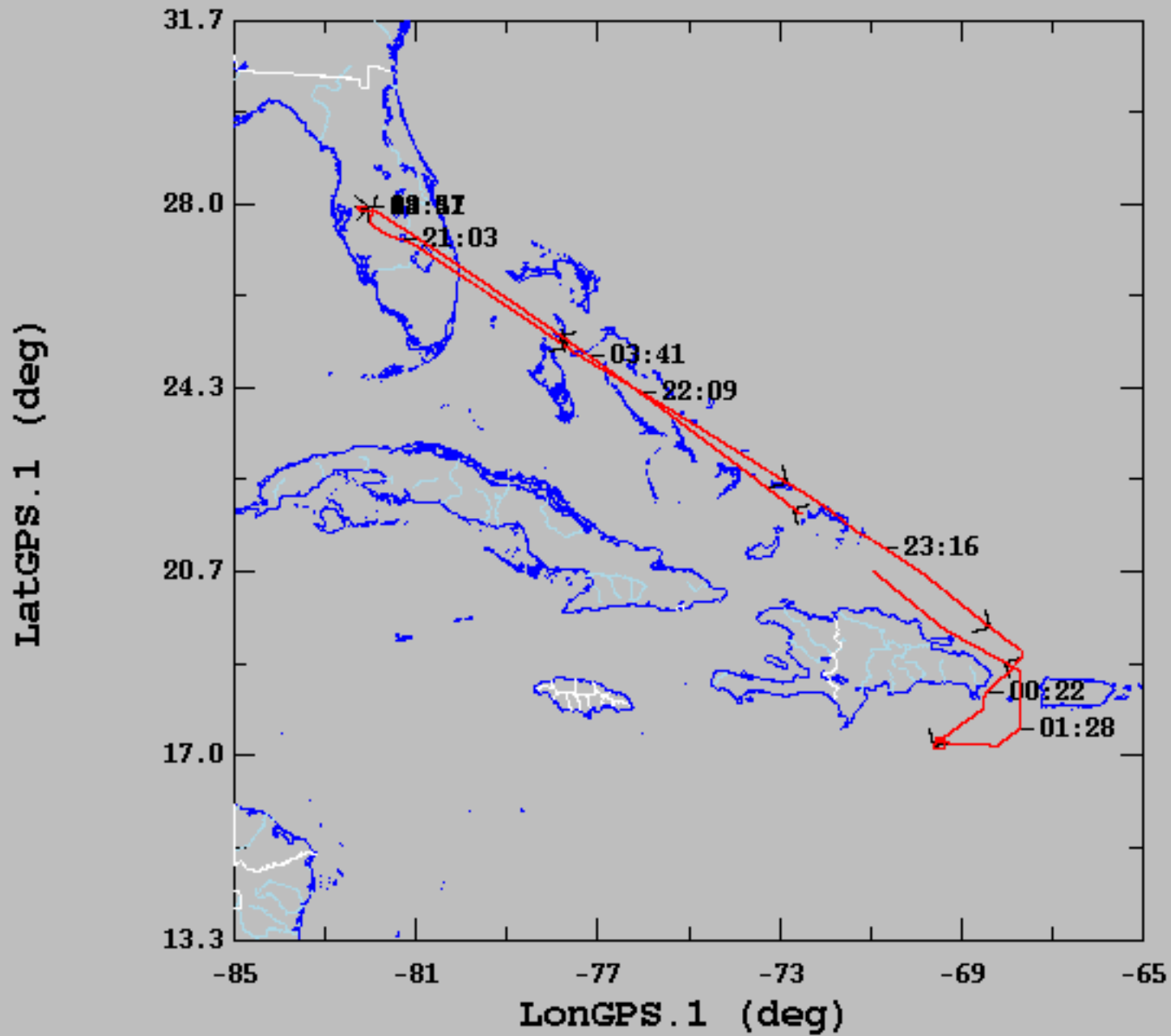
	Raw 1Hz Mean File Parameters				C File Parameters	
✓ Accelerometer	✓ AccAXI.1 ✓ AccAXI.2 ✓ AccAXI-GPS.1 ✓ AccAXI-GPS.2	✓ AccAYI.1 ✓ AccAYI.2 ✓ AccAYI-GPS.1 ✓ AccAYI-GPS.2	✓ AccAZI.1 ✓ AccAZI.2 ✓ AccAZI-GPS.1 ✓ AccAZI-GPS.2	✓ AccZfilter-GPS.1 ✓ AccZfilter-GPS.2	✓ AccZref	
✓ Altitude	✓ AltGPS.1 ✓ AltGPS.2 ✓ AltGPS.3 <input type="checkbox"/> AltGPS.4	✓ Alti-GPS.1 ✓ Alti-GPS.2	✓ AltPaADDU.1 ✓ AltBCADDU.1	✓ AltRA.1 ✓ AltRA.2	✓ ALTref ✓ ALTPA.d ✓ ALTGA.d	✓ AltRA1.c ✓ AltRA2.c
✓ Ground Speed	✓ GsXI-GPS.1 ✓ GsXI-GPS.2	✓ GsYI-GPS.1 ✓ GsYI-GPS.2	✓ GsZI-GPS.1 ✓ GsZI-GPS.2			
✓ Lat / Lon	✓ LatGPS.1 LatGPS.2 ✓ LatGPS.3 <input type="checkbox"/> LatGPS.4	✓ LatI-GPS.1 ✓ LatI-GPS.2	<input type="checkbox"/> LonGPS.1 ✓ LonGPS.2 ✓ LonGPS.3 <input type="checkbox"/> LonGPS.4	✓ LonI-GPS.1 ✓ LonI-GPS.2	✓ LATref ✓ LONref	
✓ Pressure	✓ PDALPHA.1 ✓ PDALPHA.2 ✓ PDBETA.1 ✓ PDBETA.2	✓ PQALPHA.1 ✓ PQBETA.1	✓ PQM.1 ✓ PQM.2 ✓ PQM.3 ✓ PQM.4	✓ PSM.1 ✓ PSM.2 ✓ PTM.1	✓ PDLAPHaref ✓ PDBETAref ✓ PQALPHaref ✓ PQBETAref	✓ PQMref ✓ PQ.c ✓ PSMref ✓ PS.c
✓ Air Speed	✓ CasADDU.1	✓ TasADDU.1	✓ IasADDU.1	✓ IAS.d ✓ TAS.d		
✓ Pitch / Roll	✓ PitchI.1 ✓ PitchI.2 <input type="checkbox"/> PitchI.3	✓ PitchRatel.1 ✓ PitchRatel.2 <input type="checkbox"/> PitchRatel.3	✓ RollI.1 ✓ RollI.2 <input type="checkbox"/> RollI.3	✓ RollRatel.1 ✓ RollRatel.2 <input type="checkbox"/> RollRatel.3	✓ PITCHref ✓ ROLLref	
✓ Temp / Dewpt	✓ TTM.1 ✓ TTM.2 <input type="checkbox"/> TTM.3	<input checked="" type="checkbox"/> TDM.1 ✓ TDM.2 <input checked="" type="checkbox"/> TDM.3	✓ TRadD.1 ✓ TRadS.1 <input type="checkbox"/> TRadU.1	✓ TD.c ✓ TDMref ✓ TTMref ✓ TA.d		
✓ Misc. (Must check)					✓ UWZ.d <input type="checkbox"/> 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
<input type="checkbox"/> Miscellaneous FD Notes

QC Key	
Not checked	<input type="checkbox"/>
Valid	<input checked="" type="checkbox"/>
Errors (note)	<input checked="" type="checkbox"/>

NOTES:
<p>Data gap about 5.75 hours into flight</p> <p>TDM.1 and TDM.3 are not representative</p>

08/22/2020, 18:51:05-28:47:41



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	23.47	3.85	17.11	28.00
LongGPS.1 (deg), 1 s/sec	-75.34	5.45	-82.25	-67.62