

N43RF ERROR SUMMARY
20200920I1

Flight ID: 20200920I1

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/20200920I1
Local Met Data	Takeoff TISX (1442Z) Landing KLAL (1830Z)
Dynamic Corrections	Yes
AttackAngleIntercept	0.122351
AttackAngleSlope	6.0273
SlipAngleIntercept	0.214857
SlipAngleSlope	7.10815

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.

Return ferry flight to KLAL from TISX following 2 Hurricane Teddy research missions. GPS.4 unavailable. 10-15 mb discrepancy between PSM.1 and PSM.2 at higher altitudes. PitchI.3 and RollI.3 unavailable. TTM.3 inoperative. TDM.1 and TDM.3 inoperative. TDM.2 reinitialized ~1445Z, data beforehand unusable. TRadU.1 inoperative.

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: Carpenter / Parrish
Phone #: 863-500-3901

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:	2020092011	FLT #:	20-82	AC:	Rossi	Scientists:	Pressure		Dropsondes		
From:	TISX	ETD:	1500Z	CP(s):	Doremus	Dunion, Jason	A/C Takeoff	1012.0	Good	Bad	Sent
To:	KLAL	ETA:	1900Z		ASOS Takeoff		TISX 1440Z 1010.9 mb	0	0	0	
Block Time		Flight Time		NAV:	Freeman	Visitors:	A/C Land	1008.4	Good	Bad	Sent
In:	18:36	Land:	18:31	FE(s):	Heystek		ASOS Land	KLAL 1850Z 1009.6 mb	0	0	0
Out:	14:37	T/O:	14:43	FD(s):	Sanchez	SansSouci (MX)	Storm Number ID:		N/A		
Total:	4.0	Total:	3.8	SSA:	Richards/T		(ie: AL072012)				
Sponsoring Org:	HRD			SEB:		TCPOD/WSPOD Mission		NOAA3 WXWXA TRAIN			
Program:	PHX					(ie: NOAA2 2418A SANDY)					
Purpose:	Reposition to KLAL.			MX:	Kregelka	OBSERVATIONS					
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:	2020092011
Flight Director(s):	Carpenter / Parrish
Mission:	Ferry
UWZ.d mean:	-0.09

Pressure Comparison		
	T/O	Land
Aircraft	1012.0	1008.4
Tower	TISX 1440Z 1010.9 mb	KLAL 1850Z 1009.6 mb

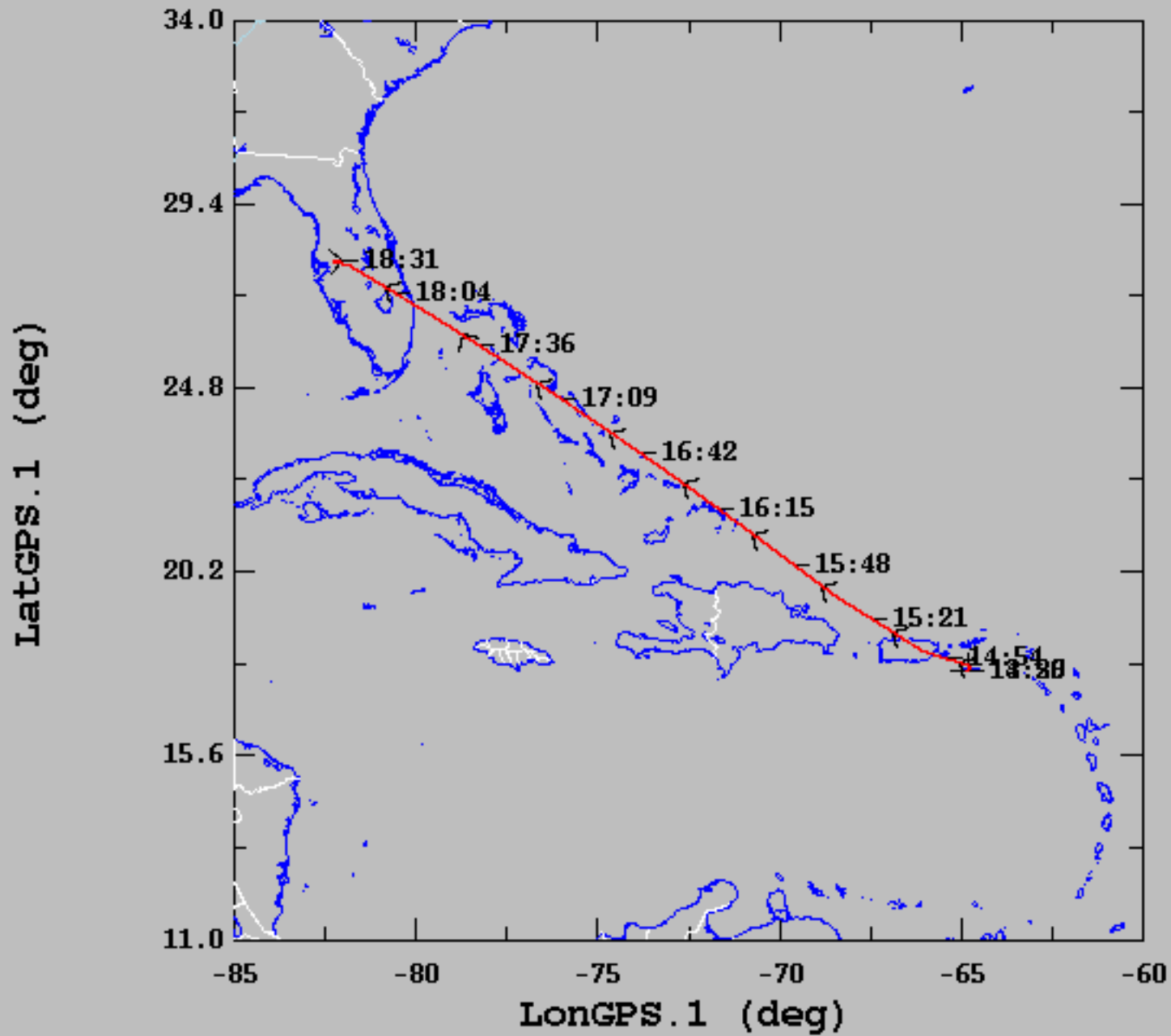
	Raw 1Hz Mean File Parameters				C File Parameters	
✓ Accelerometer	✓ AccAXI.1 ✓ AccAXI.2 ✓ AccAXI-GPS.1 ✓ AccAXI-GPS.2	✓ AccAYI.1 ✓ AccAYI.2 ✓ AccAYI-GPS.1 ✓ AccAYI-GPS.2	✓ AccAZI.1 ✓ AccAZI.2 ✓ AccAZI-GPS.1 ✓ AccAZI-GPS.2	✓ AccZfilter-GPS.1 ✓ AccZfilter-GPS.2	✓ AccZref	
✓ Altitude	✓ AltGPS.1 ✓ AltGPS.2 ✓ AltGPS.3 X 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 X LatGPS.4	✓ LatI-GPS.1 ✓ LatI-GPS.2	✓ LonGPS.1 ✓ LonGPS.2 ✓ LonGPS.3 X 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	✓ lasADDU.1			
✓ Pitch / Roll	✓ PitchI.1 ✓ PitchI.2 X PitchI.3	✓ PitchRateI.1 ✓ PitchRateI.2 X PitchRateI.3	✓ RollI.1 ✓ RollI.2 X RollI.3	✓ RollRateI.1 ✓ RollRateI.2 X RollRateI.3	✓ PITCHref ✓ ROLLref	
✓ Temp / Dewpt	✓ TTM.1 ✓ TTM.2 X TTM.3	X TDM.1 ✓ TDM.2 X TDM.3	✓ TRadD.1 ✓ TRadS.1 X TRadU.1	✓ 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
X Dropwindsonde Log(s) - AVAPS and FD if completed
✓ Flight Track
X Miscellaneous FD Notes

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

NOTES:
<p>GPS.4 unavailable.</p> <p>10-15 mb discrepancy between PSM.1 and PSM.2, most pronounced at higher altitudes.</p> <p>PitchI.3 and RollI.3 unavailable.</p> <p>TTM.3 inoperative.</p> <p>TDM.1 and TDM.3 inoperative. TDM.2 reinitialized ~1445Z, data beforehand unusable.</p> <p>TRadU.1 inoperative.</p>

2020-09-20, 13:59:45-18:31:16



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	22.05	3.53	17.70	27.99
— LongGPS.1 (deg), 1 s/sec	-72.10	5.78	-82.22	-64.73