

N43RF ERROR SUMMARY
20220909I1

Flight ID: 20220909I1

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	AccZfilterI-GPS.1
Altimeter	AltI-GPS.1
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/2022/MET/20220909I1

Local Met Data	Takeoff TISX (1940Z)	Landing KLAL (0346Z)
Dynamic Corrections		Yes
AttackAngleIntercept		0.126754
AttackAngleSlope		5.36078
SlipAngleIntercept		0.2
SlipAngleSlope		6.67768

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.

AltGPS.1 and AltGPS.2 have a slight (~10mb) offset from ALTref or AltGPS.3.

PDAlpha.1 and PDAlpha.2 have a ~40 mb offset

PQM.1 has a ~15mb offset from PQMref or PQM.2

PSM.1 has a ~15mb offset from PSM.2 or PSMref

PSM.1 is significantly noisier than PSM.2 or PSMref

TTM.2 is significantly noisier than TTM.1 or TTMref

TDM.2 has significant deviation from TDM.1 or TDMref.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
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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: Kalen/Holmes
Phone #: 8635003962

ACAT-4 Version = 7.4

P-3 QC Checklist

Overall Assessment	Minor instrument issue(s) - minimal mission impact.
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Flight ID:	20220909/1
Flight Director(s):	Kalen/Holmes
Mission:	Ferry
UWZ.d mean:	

Pressure Comparison		
	T/O	Land
Aircraft		
Tower	1011.6 (TISX)	1006.2 (KLAL)

	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 ☐ 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		☒ GSXref ☒ GSYref ☒ GSZref	
☐ Lat / Lon	☒ LatGPS.1 ☒ LatGPS.2 ☒ LatGPS.3 ☐ LatGPS.4	☒ LatI-GPS.1 ☒ LatI-GPS.2	☒ LonGPS.1 ☒ LonGPS.2 ☒ LonGPS.3 ☐ 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	☐ PDALPHAref ☐ 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 ☐ PitchI.3	☒ PitchRatel.1 ☒ PitchRatel.2 ☐ PitchRatel.3	☒ RollI.1 ☒ RollI.2 ☐ RollI.3	☒ RollRatel.1 ☒ RollRatel.2 ☐ RollRatel.3	☒ PITCHref ☒ ROLLref	
☐ Temp / Dewpt	☒ TTM.1 ☒ TTM.2 ☐ TTM.3	☒ TDM.1 ☒ TDM.2 ☐ TDM.3	☒ TRadD.1 ☒ TRadS.1 ☐ 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
☐	Dropwindsonde Log(s) - AVAPS and FD if completed
☒	Flight Track
☒	Miscellaneous FD Notes

QC Key	
Not checked	☐
Valid	☒
Errors (note)	X

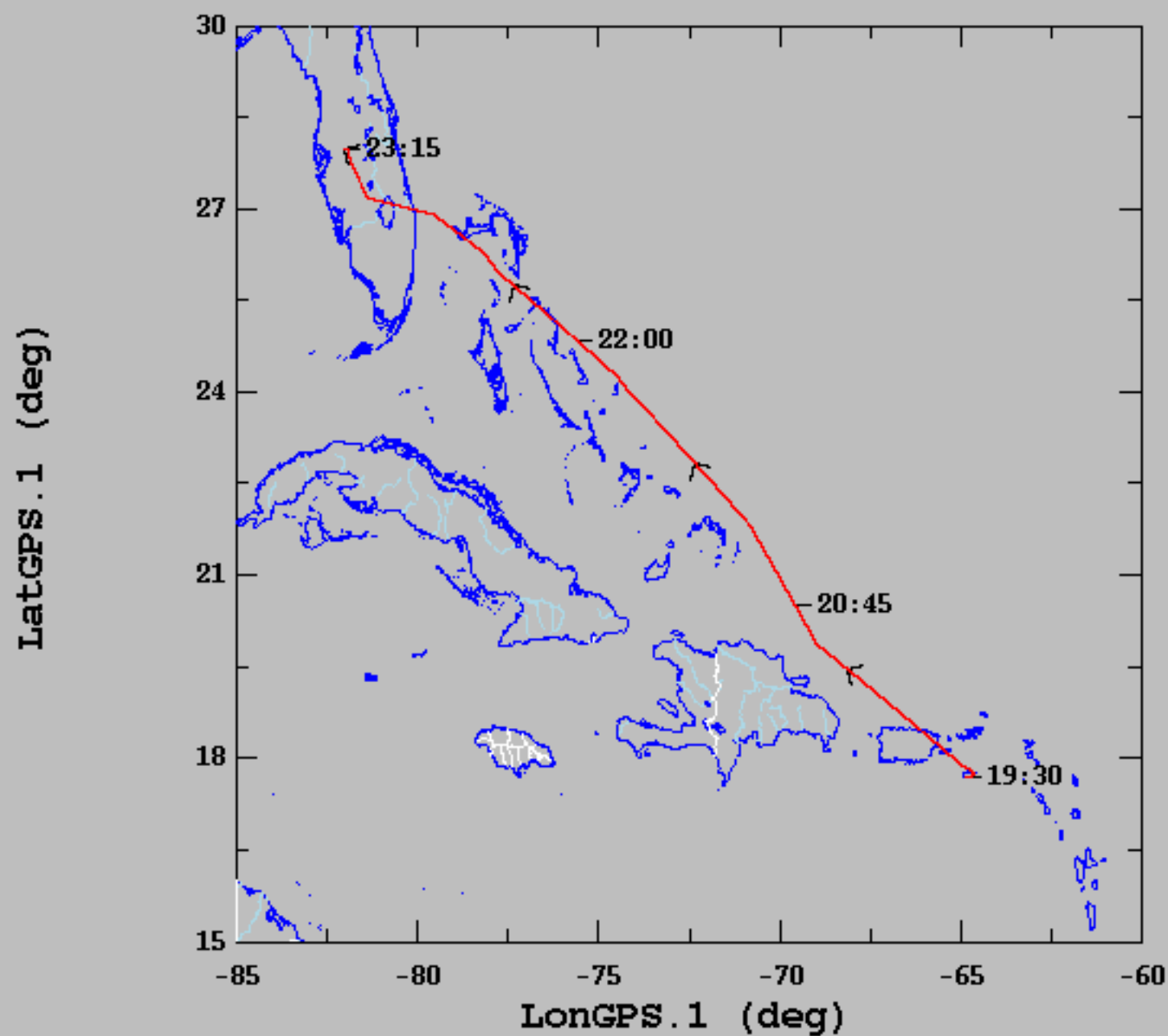
NOTES:

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20220909I1	FLT #:		AC:	Doremus	Scientists:	Pressure		Dropsondes		
From:	TISX	ETD:	2030Z	CP(s):	Copare	Holbach	A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	0030Z		Wood	Aberson			0	0	0
Block Time		Flight Time		NAV:	Utama	Chang	ASOS Takeoff		BTs		
In:	2325Z	Land:	2316Z	FE(s):	Darby	Jelenak					
Out:	1926Z	T/O:	1940Z	FD(s):	Pittman	Sapp	A/C Land		Good	Bad	Sent
					Holmes				0	0	0
Total:	4.0	Total:	3.6	SSA:	Richards	Visitors:	ASOS Land		0	0	0
				AVAPS:	Warnecke						
Sponsoring Org:	EMC			SEB:	Kregelka		Storm Number ID:		N/A		
Program:	PRX				Sans Souci		(ie: AL072012)				
Purpose:	Repo to KLAL				MX:	LaLonde		TCPOD/WSPOD Mission		NOAA3 WXWXA TRAIN	
							(ie: NOAA2 2418A SANDY)				
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:											

2022-09-09, 19:30:47-23:15:01



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	22.68	3.32	17.70	27.99
LongGPS.1 (deg), 1 s/sec	-72.70	5.37	-81.99	-64.62