

N43RF ERROR SUMMARY 20230819I1

Flight ID: 20230819I1

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	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/2023/MET/20230819I1

Local Met Data	Takeoff KLAL (1611Z)	Landing TNCA (0000Z)
Dynamic Corrections	Yes	
AttackAngleIntercept	0.050058	
AttackAngleSlope	5.32015	
SlipAngleIntercept	0.165	
SlipAngleSlope	6.66754	

Notes:

I.3 for Pitch and Roll is not operational.

TRadU.1 has erroneous data throughout the flight and should not be used.

PDALPHAref, PDBETAref, PQALPHAref, PQBETAref, and DPJ_WSZ are not provided since _AC file is not produced; all other "C" file parameters checked are from the _A file.

TTM.3 and TDM.3 inop

PDApha 1 and 2 have a ~40 mb offset from each other.

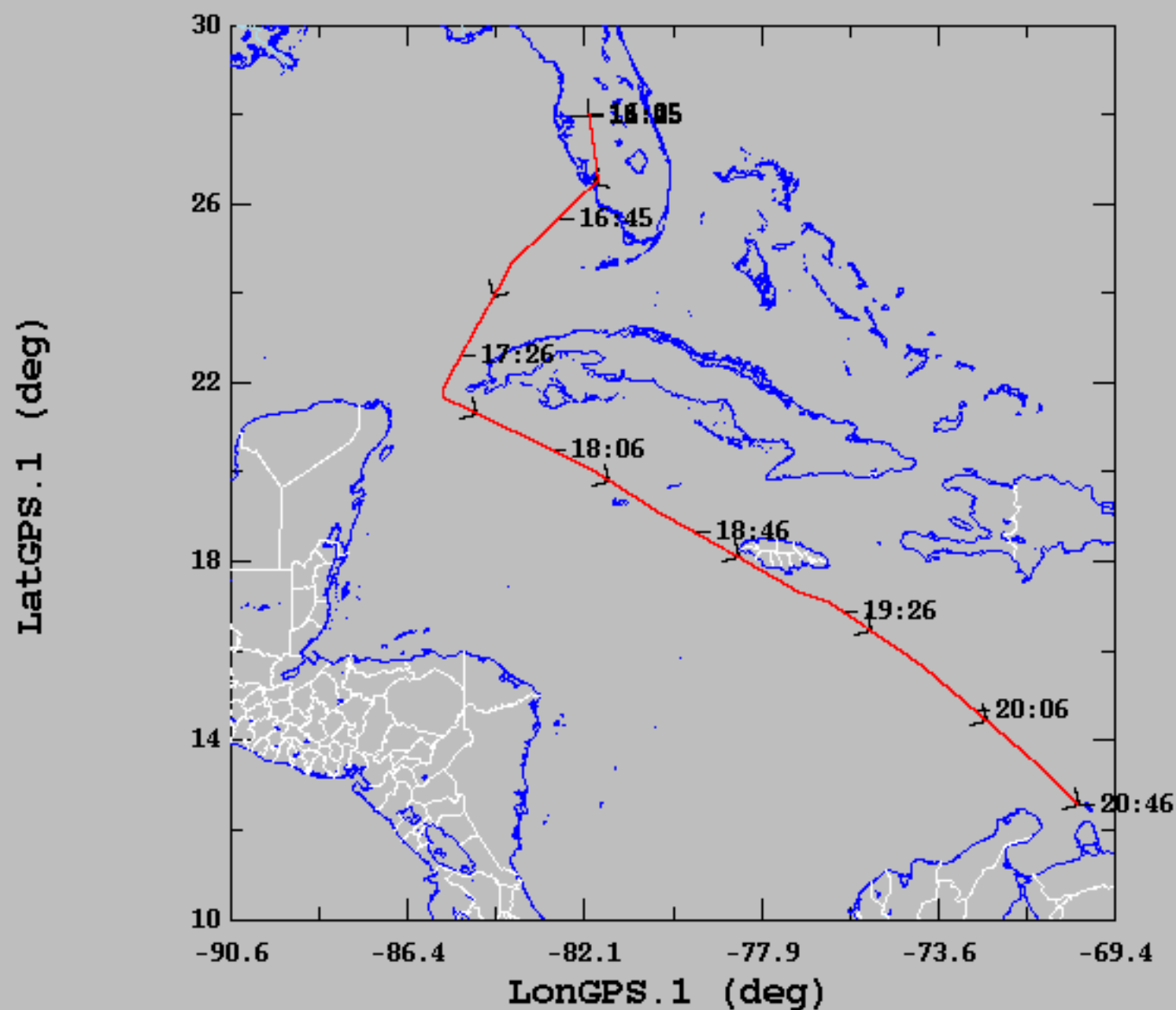
Takeoff/Landing data: Data during landing and takeoff are potentially suspect. It is recommended that ground data not be used for scientific analysis.

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: Kalen
Phone #: 8635003962

ACAT-4 Version = 7.4

08/19/2023, 14:45:50-20:46:16



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	21.64	5.14	12.54	27.99
LongGPS.1 (deg), 1 s/sec	-79.87	4.34	-85.53	-70.19

P-3 QC Checklist

Overall Assessment	Minor instrument issue(s) - no mission impact.
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Flight ID:	2023081911	Pressure Comparison		
Flight Director(s):	Kalen / Parrish / Timmers		T/O	Land
Mission:	Ferry	Aircraft	1011.07 mb	N/A
UWZ.d mean:	-0.32	Tower	1015 mb	1009 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 ☒ 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	☒ 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 ☒ 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)	☒

NOTES:

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20230819I1	FLT #:		AC:	Copare	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	1600Z	CP(s):	Wood		A/C Takeoff	1011	Good	Bad	Sent
To:	TNCA	ETA:	2100Z		Palmer						
Block Time		Flight Time		NAV:	Miller / Schaefer		ASOS Takeoff	1015	0	0	0
In:	20:54	Land:	20:51	FE(s):	Darby				BTs		
					Tyson						
Out:	16:01	T/O:	16:12	FD(s):	Kalen		A/C Land	N/A	Good	Bad	Sent
					Parrish/Timmers						
Total:	4.9	Total:	4.7	SSA:	Richards	Visitors:	ASOS Land	1009	0	0	0
Sponsoring Org:		NHC		SEB:			Storm Number ID:		N/A		
Program:		PRX					(ie: AL072012)				
Purpose:		Repo to TNCA			MX:		Sans Souci (MX)	TCPOD/WSPOD Mission		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:											