

N43RF ERROR SUMMARY
20230922I1

Flight ID: 20230922I1

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/20230922I1

Local Met Data	Takeoff TXKF (1411Z)	Landing KLAL (0024Z)
Dynamic Corrections		Yes
AttackAngleIntercept		0.050058
AttackAngleSlope		5.32015
SlipAngleIntercept		0.165
SlipAngleSlope		6.66754

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.

I.3 for Pitch and Roll is not operational.
 TRadU.1 has erroneous data throughout the flight and should not be used.
 Data system restart before take off.
 PDALPHAref, PDBETAref, PQALPHAref, PQBETAref, and DPJ_WSZ are not provided since _BC file is not produced; all other "C" file parameters checked are from the _B file.
 TTM.3 and TDM.3 inop
 GPS.3 & .4 parameters end at 16:15
 PQM.1 trending ~20 mb high
 PQM.4 and TTM.1 unrepresentative between 14:57 - 15:53
 TTM.2 should be used for analysis due to TTMref pulling from TTM.1
 Humidity parameters suspect

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 / LUNDRY
Phone #: 863-500-3962

ACAT-4 Version = 7.4

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

FLIGHT INFORMATION				CREW MANIFEST				MISSION INFORMATION				
FLT ID:	2023092211	FLT #:		AC:	RANNENBERG	Scientists:		Pressure		Dropsondes		
From:	TXKF	ETD:	1230Z	CP(s):	KEITH	ALAKA		A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	1630Z		PALMER	SIPPEL				0	0	0
Block Time		Flight Time		NAV:	MILLER			ASOS Takeoff		BTs		
In:	17:25	Land:	17:20	FE(s):	DARBY					Good	Bad	Sent
Out:	14:06	T/O:	14:11	FD(s):	STOKES			A/C Land		0	0	0
Total:	3.3	Total:	3.2		SSA:	RICHARDS	Visitors:					
Sponsoring Org:	HRD			SEB:	UNDERWOOD			Storm Number ID:		N/A		
Program:	PRX				CARRION (MX)			(ie: AL072012)				
Purpose:	REPO KLAL				SANS SOUCI (MX)			TCPOD/WSPOD Mission		WXWXA TRAIN		
					MX:	TYSON			(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:

P-3 QC Checklist

Overall Assessment	Minor instrument issue(s) - no mission impact.
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Flight ID:	2023092211
Flight Director(s):	KALEN / LUNDRY
Mission:	Ferry
UWZ.d mean:	-0.23

Pressure Comparison		
	T/O	Land
Aircraft	1020.1	-
Tower	1019.3	-

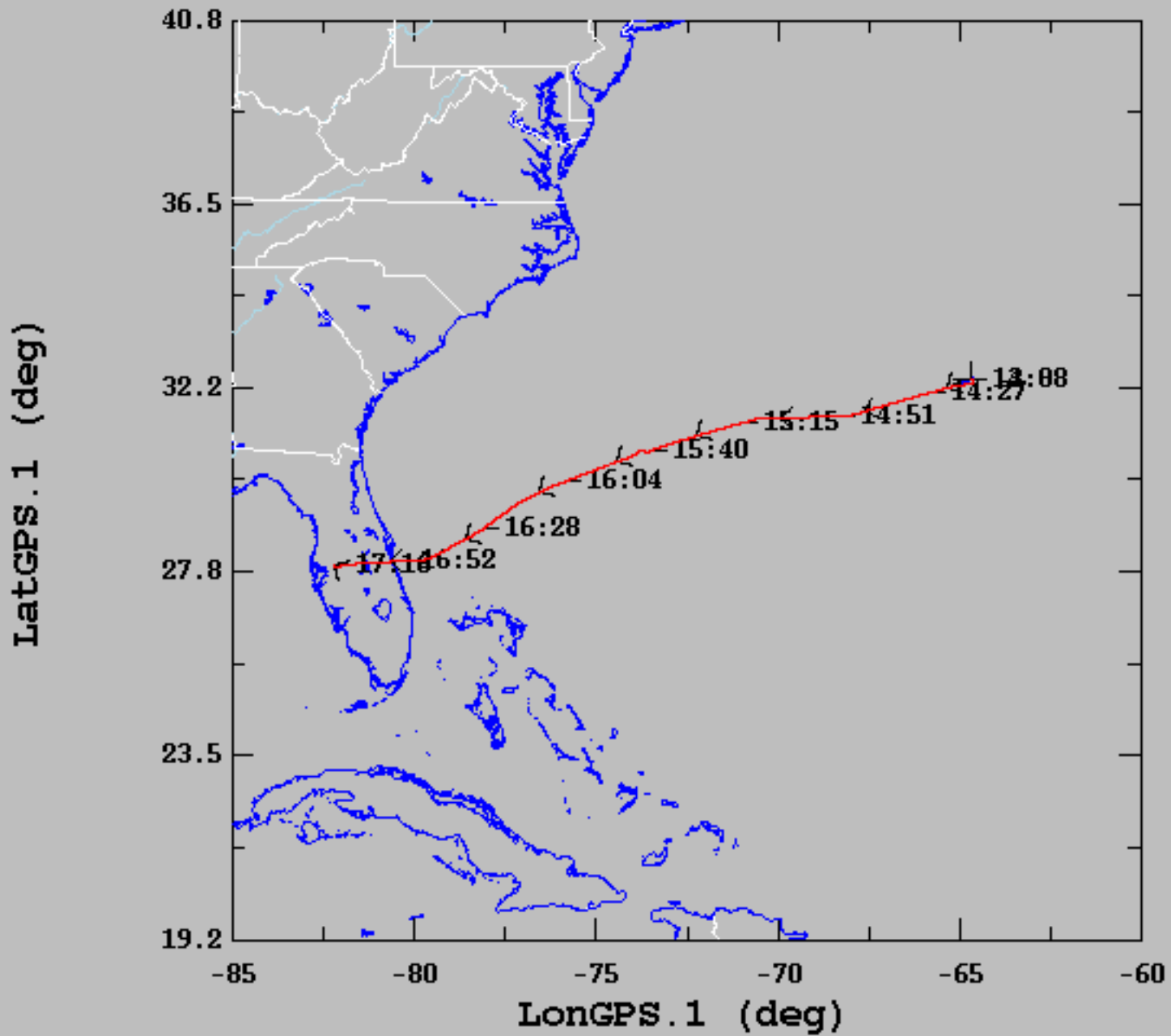
	Raw 1Hz Mean File Parameters				C File Parameters	
✓ Accelerometer	✓ AccAXI.1 ✓ AccAXI.2 ✓ AccAXI-GPS.1 ✓ AccAXI-GPS.2	✓ AccAYI.1 ✓ AccAYI.2 ✓ AccAYI-GPS.1 ✓ AccAYI-GPS.2	✓ AccAZI.1 ✓ AccAZI.2 ✓ AccAZI-GPS.1 ✓ AccAZI-GPS.2	✓ AccZfilter-GPS.1 ✓ AccZfilter-GPS.2	✓ AccZref	
✓ Altitude	✓ AltGPS.1 ✓ AltGPS.2 x 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		✓ GSXref ✓ GSYref ✓ GSZref	
✓ Lat / Lon	✓ LatGPS.1 ✓ LatGPS.2 x LatGPS.3 x LatGPS.4	✓ LatI-GPS.1 ✓ LatI-GPS.2	✓ LonGPS.1 ✓ LonGPS.2 x 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 x PQM.4	✓ PSM.1 ✓ PSM.2 ✓ PTM.1	x PDLAPHaref x PDBETAref x PQALPHaref x 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 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	x TTM.1 ✓ TTM.2 x TTM.3	✓ TDM.1 ✓ TDM.2 x TDM.3	✓ TRadD.1 ✓ TRadS.1 x TRadU.1		✓ TD.c ✓ TDMref	x TTMref ✓ TA.d
✓ Misc. (Must check)					x UWZ.d x DPJ_WSZ x 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)	X

NOTES:
<p>I.3 for Pitch and Roll is not operational.</p> <p>TRadU.1 has erroneous data throughout the flight and should not be used.</p> <p>Data system restart before take off.</p> <p>PDALPHaref, PDBETAref, PQALPHaref, PQBETAref, and DPJ_WSZ are not provided since _BC file is not produced; all other "C" file parameters checked are from the _B file.</p> <p>TTM.3 and TDM.3 inop</p> <p>GPS.3 & .4 parameters end at 16:15</p> <p>PQM.1 trending ~20 mb high</p> <p>PQM.4 and TTM.1 unrepresentative between 14:57 - 15:53</p> <p>TTM.2 should be used for analysis due to TTMref pulling from TTM.1</p> <p>Humidity parameters suspect</p>

09/22/2023, 13:38:59-17:16:59



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	30.54	1.54	27.94	32.37
— LongGPS.1 (deg), 1 s/sec	-72.39	5.84	-82.17	-64.59