

N43RF ERROR SUMMARY
20240629I1

Flight ID: 20240629I1

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/2024/MET/20240629I1

Local Met Data	Takeoff KLAL (1422Z)	Landing TISX (2021Z)
Dynamic Corrections		Yes
AttackAngleIntercept		0.179211
AttackAngleSlope		5.88163
SlipAngleIntercept		0.15
SlipAngleSlope		6.89472

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, TTM.3, and TDM.3 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.
AltGPS.3 and .4 inop
LatGPS.3 and .4, and LonGPS.3 and .4 inop
PQM.1 trending ~10 mb high
SFMR Data inop - REPO flight altitude >20k ft

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 #: 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:	20240629I1	FLT #:		AC:	DOREMUS	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	1400Z	CP(s):	WOOD	ZHANG, J.	A/C Takeoff		Good	Bad	Sent
To:	TISX	ETA:	1800Z		TARABOLETTI	SELLWOOD			-	-	-
Block Time		Flight Time		NAV:	SCHAEFER / MEIER		ASOS Takeoff		BTs		
In:	18:01	Land:	17:58	FE(s):	TYSON		A/C Land		Good	Bad	Sent
Out:	14:09	T/O:	14:23	FD(s):	WYSINGER / RIPP				-	-	-
Total:	3.9	Total:	3.6	SSA:	RICHARDS, T.	Visitors:	ASOS Land				
Sponsoring Org:	NWS			SEB:	PATEL / SANTONI		Storm Number ID:		N/A		
Program:	PRX				CARRION (MX)		(ie: AL072012)				
Purpose:	REPOT TO TISX				GRIMES (MX)		TCPD/WSPD Mission		NOAA3 WXXA TRAIN		
					ANELLO (MX)		(ie: NOAA2 2418A SANDY)				
				MX:	MORENO (MX)		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) - no mission impact.
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Flight ID:	20240629I1
Flight Director(s):	Kalen
Mission:	Ferry
UWZ.d mean:	0.01

Pressure Comparison		
	Pre-flight	Post-flight
Aircraft	1015.9	-
Airfield	1016.4	1014.0

This form uses:
_A.nc

SFMR Serial Unit	3
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Parameters	Raw				Derived, Corrected & Reference	
✓ Acceleration	✓ AccAXI.1	✓ AccAYI.1	✓ AccAZI.1	✓ AccZfilter-GPS.1	✓ AccZref	
	✓ AccAXI.2	✓ AccAYI.2	✓ AccAZI.2	✓ AccZfilter-GPS.2		
	✓ AccAXI-GPS.1	✓ AccAYI-GPS.1	✓ AccAZI-GPS.1			
	✓ AccAXI-GPS.2	✓ AccAYI-GPS.2	✓ AccAZI-GPS.2			
✓ Altitude	✓ AltGPS.1	✓ AltI-GPS.1	✓ AltPaADDU.1	✓ AltRA.1	✓ ALTref	✓ AltRA1.c
	✓ AltGPS.2	✓ AltI-GPS.2	✓ AltBCADDU.1	✓ AltRA.2	✓ ALTPA.d	✓ AltRA2.c
	x AltGPS.3				✓ ALTGA.d	
	x AltGPS.4					
✓ Ground Speed	✓ GsXI-GPS.1	✓ GsYI-GPS.1	✓ GsZI-GPS.1		✓ GSXref	
	✓ GsXI-GPS.2	✓ GsYI-GPS.2	✓ GsZI-GPS.2		✓ GSYref	
✓ Location	✓ LatGPS.1	✓ LatI-GPS.1	✓ LonGPS.1	✓ LonI-GPS.1	✓ LATref	
	✓ LatGPS.2	✓ LatI-GPS.2	✓ LonGPS.2	✓ LonI-GPS.2	✓ LONref	
	x LatGPS.3		x LonGPS.3			
	x LatGPS.4		x LonGPS.4			
✓ Pressure Sensors	✓ PDALPHA.1	✓ PQALPHA.1	✓ PQM.1	✓ PSM.1	✓ PQMref	
	✓ PDALPHA.2	✓ PQBETA.1	✓ PQM.2	✓ PSM.2	✓ PQ.c	
	✓ PDBETA.1		✓ PQM.3	✓ PTM.1	✓ PSMref	
	✓ PDBETA.2		✓ PQM.4		✓ PS.c	
✓ Air Speed	✓ CasADDU.1	✓ TasADDU.1	✓ IasADDU.1		✓ IAS.d	✓ TAS.d
✓ Pitch / Roll	✓ PitchI.1	✓ PitchRatI.1	✓ RollI.1	✓ RollRatI.1	✓ PITCHref	
	✓ PitchI.2	✓ PitchRatI.2	✓ RollI.2	✓ RollRatI.2	✓ ROLLref	
	inop PitchI.3	inop PitchRatI.3	inop RollI.3	inop RollRatI.3		
✓ Temperature, Dewpoint, Radiometers	✓ TTM.1	✓ TDM.1	✓ TRadD.1		✓ TD.c	✓ TTMref
	✓ TTM.2	✓ TDM.2	✓ TRadS.1		✓ TDMref	✓ TA.d
	inop TTM.3	inop TDM.3	inop TRadU.1		✓ HUM	
✓ Wind and Pressure		inop CH 1 TB	inop CH 4 TB		✓ UWZ.d	✓ WS.d
✓ SFMR	SFMR	inop CH 2 TB	inop CH 5 TB		inop PSURF	✓ WD.d
		inop CH 3 TB	inop CH 6 TB		inop WS SFMR	inop RAIN RATE SFMR

FLID_Mission_Documents.pdf:
✓ Error Summary ✓ Crew Manifest ✓ QC Checklist ☐ Dropwindsonde Log(s) - AVAPS and FD, if completed ✓ Flight Track

QC Key:	
Valid	✓
Errors (see NOTES)	x
Sensor Inoperative	inop

NOTES:

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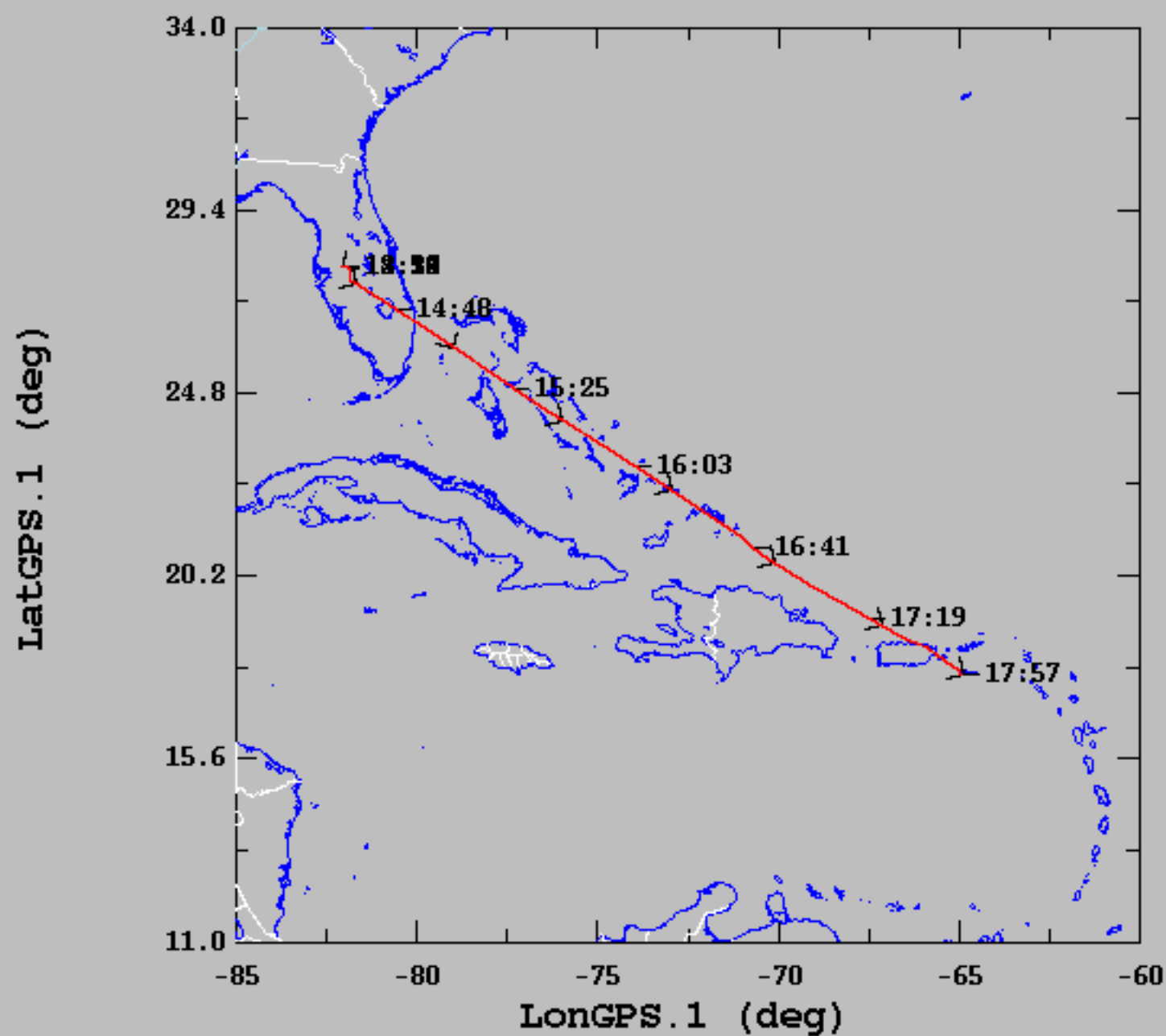
AltGPS.3 and .4 inop

LatGPS.3 and .4, and LonGPS.3 and .4 inop

PQM.1 trending ~10 mb high

SFMR Data inop - REPO flight altitude >20k ft

06/29/2024, 12:16:12-17:57:45



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	24.62	3.58	17.69	27.99
— LongGPS.1 (deg), 1 s/sec	-76.59	5.90	-82.03	-64.81