

N43RF ERROR SUMMARY
20230405I1

Flight ID: 20230405I1

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/20230405I1

Local Met Data	Takeoff KLAL (1420Z)	Landing KEGG (0000Z)
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, 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.
All PSM parameters unrepresentative until 1431z therefore a/c pressure comparison unavailable.
All GPS.4 parameters inop.
PQM.1 trending signif. higher than other PQMs, ~30mb.
TDM.2 & TD.c unrep from 1910-2041z. Refer to TDM.1 as TDMRef.

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

Flight Director: CARPENTER/ZAWISLAK
Phone #: 8635003960

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:	2023040511	FLT #:	FY23-	AC:	Doremus	Scientists:	Pressure		Dropsondes			
From:	KLAL	ETD:	1400Z	CP(s):	Keith	Downey	A/C Takeoff		Good	Bad	Sent	
To:	KGEG	ETA:	2100Z		Palmer	Dahlberg			0	0	0	
Block Time		Flight Time		NAV:	Hough		ASOS Takeoff		BTs			
Out:	14:03	T/O:	14:20	FE(s):	Gee		A/C Land			Good	Bad	Sent
In:	21:46	Land:	21:41	FD(s):	Tyson					0	0	0
Total:	7.7	Total:	7.4	SSA:	Richards	Visitors:	ASOS Land					
Sponsoring Org:		NGS		AVAPS:	Waggoner	Crane (MX)	Storm Number ID:		N/A			
Program:		PGR		SEB:	Paul (PM)		(ie: AL072012)					
Purpose:		Reposition to KGEG			Utama (PM)		TCPOD/WSPOD Mission	NOAA3 WXWXA TRAIN				
				MX:	Sans Souci							
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:	N/A				
						*Highlighted items must be completed before departure.						
Remarks:												

P-3 QC Checklist

Overall Assessment	
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Flight ID:	2023040511
Flight Director(s):	Zawislak / Carpenter
Mission:	Ferry
UWZ.d mean:	0.01

Pressure Comparison		
	T/O	Land
Aircraft	-	-
Tower	1016.0	-

	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:

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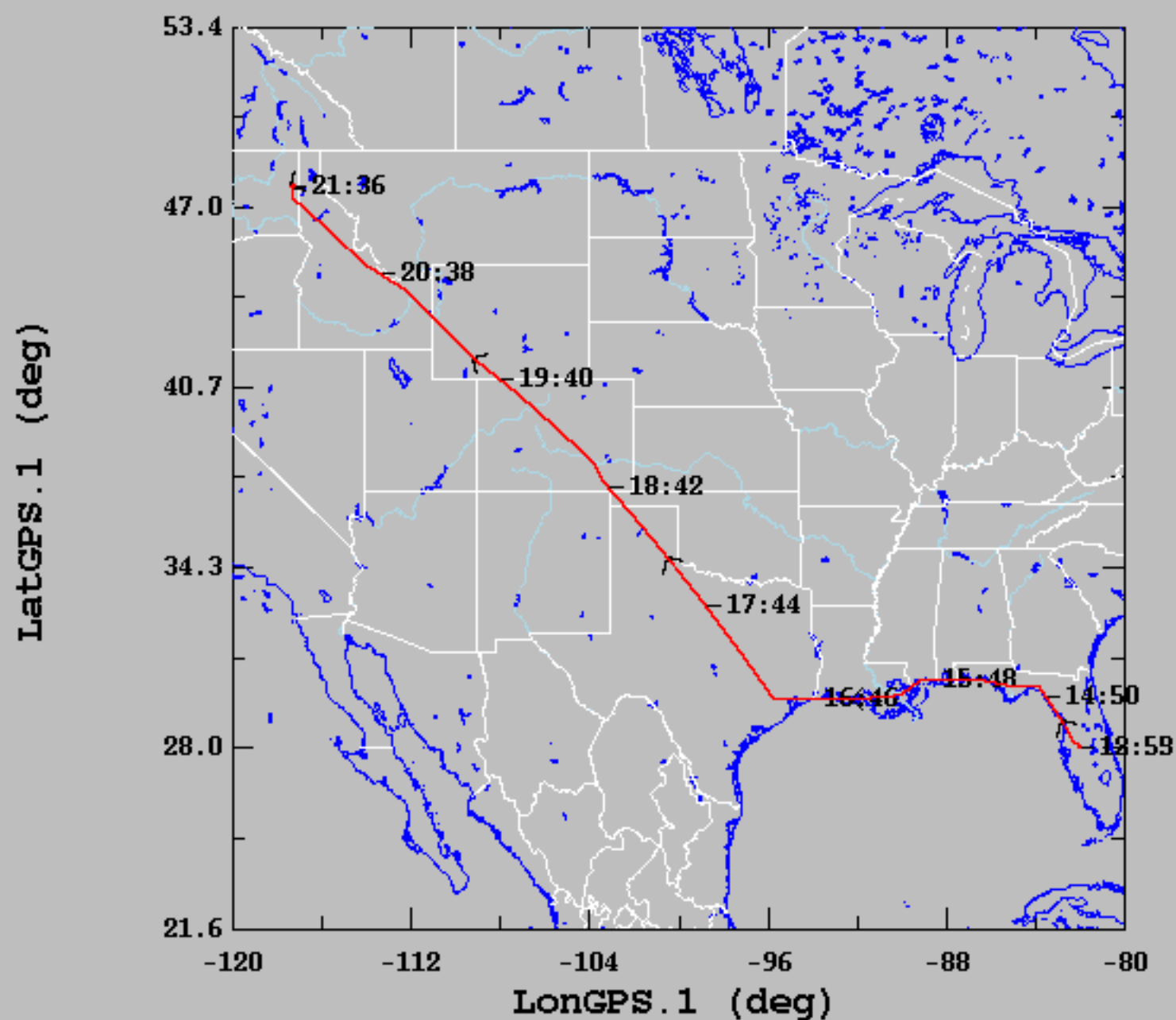
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04/05/2023, 12:55:08-21:36:30



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	34.59	6.42	27.98	47.83
LongGPS.1 (deg), 1 s/sec	-96.93	11.66	-117.36	-81.98