

N49RF ERROR SUMMARY
20240825N2

Flight ID: 20240825N2

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	AccZI.1
Altimeter	AltGPS.3
INE Selection	1
Differential Attack Pressure Probe	PDALPHA.2
Differential Sideslip Pressure Probe	PDBETA.2
Dynamic Attack Pressure Probe	PQALPHA.2
Dynamic Sideslip Pressure Probe	PQBETA.2

Flight Directory acdata/2024/MET/20240825N2

Local Met Data	Takeoff KLGB (0001Z)	Landing KLAL (0426Z)
Dynamic Corrections		Yes
AttackAngleIntercept		6.4652
AttackAngleSlope		7.59375
SlipAngleIntercept		0.925
SlipAngleSlope		6.56381
AttackAngleIntercept2		4.97461
AttackAngleSlope2		5.40351
SlipAngleIntercept2		0.71
SlipAngleSlope2		6.22549

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.

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: Carpenter
Phone #: 8635003901

ACAT-4 Version = 7.4

U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N49RF Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20240825N2	FLT #:	24-	AC:	Varwig	Scientists:	Pressure		Dropsondes		
From:	KLGB	ETD:	1730L / 0030Z	CP(s):	Mayo		A/C Takeoff	1015.4	Good	Bad	Sent
To:	KLAL	ETA:	0100L / 0500Z		Pawlenko		ASOS Takeoff	KLGB 2353Z 1013.5 mb	0	0	0
Block Time		Flight Time		NAV:			ASOS Land	1017.2	BTs		
Out:	23:51	T/O:	0:01	FE(s):					Good	Bad	Sent
In:	4:35	Land:	4:27	FD(s):	Carpenter		ASOS Land	KLAL 0435Z 1015.0 mb	0	0	0
					de Solo						
Total:	4.7	Total:	4.4	SSA:	Defeo	Visitors:	Storm Number ID:		N/A		
Sponsoring Org:		NWS / CPHC		AVAPS:	Brannigan	(ie: AL072012)					
Program:		PHS		SEB:	Ohsiek	TCPD/WSPD Mission		NOAA9 WXXE TRAIN			
Purpose:		Repo to KLAL (leg 2 of 2)			Mazur	(ie: NOAA2 2418A SANDY)					
				MX:	Roche	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:	N/A			
						*Highlighted items must be completed before departure.					
Remarks:											

G-IV QC Checklist

Overall Assessment	Major instrument issue(s) - significant mission impact.
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Flight ID:	20240825N2
Flight Director(s):	Carpenter / de Solo
Mission:	Ferry
UWZ.d mean:	-0.15

Pressure Comparison		
	Pre-flight	Post-flight
Aircraft	1015.4	1017.2
Airfield	1013.5	1015.0

This form uses:
_A.nc

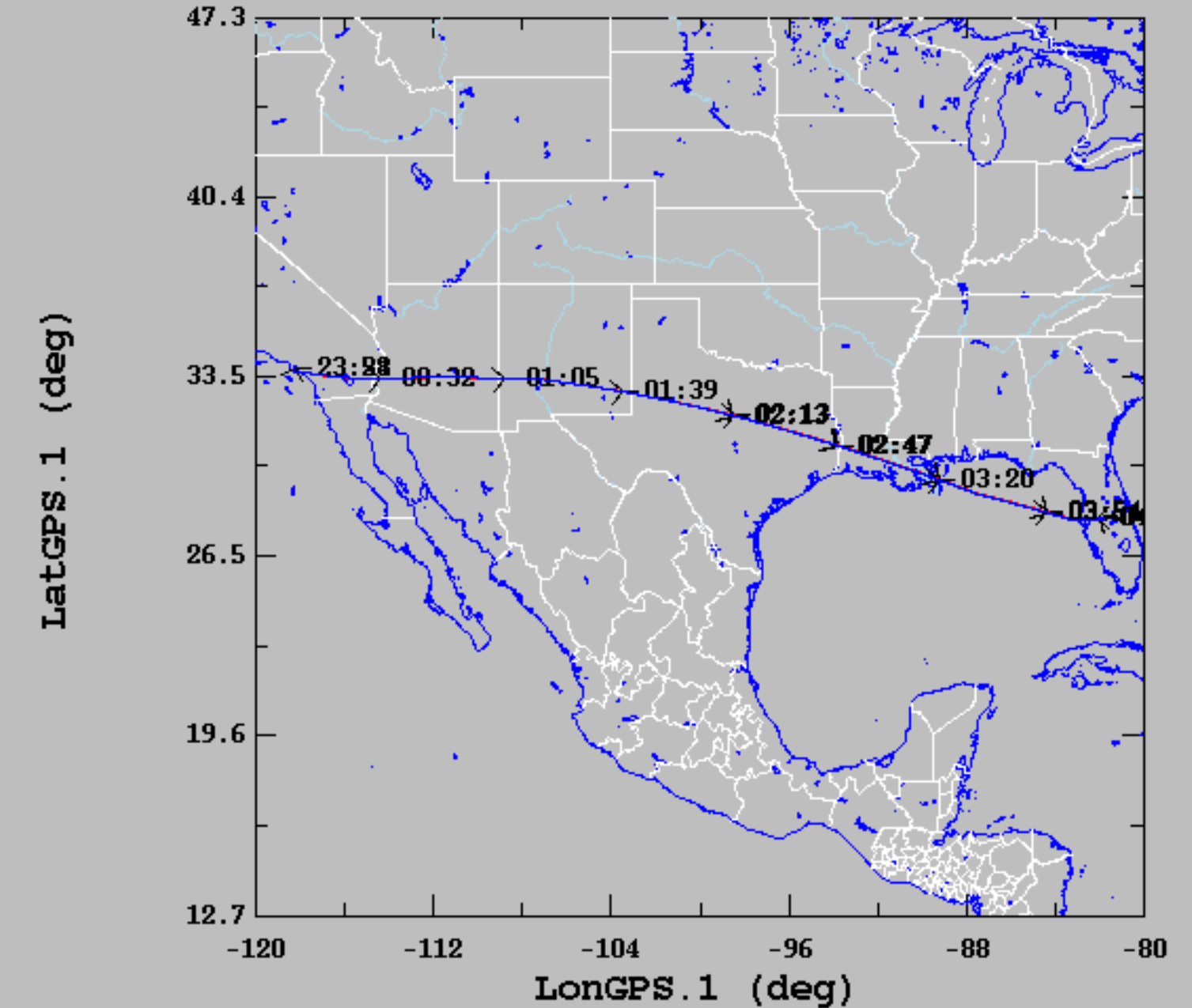
Parameters	Raw				Derived, Corrected & Reference	
✓ Acceleration	✓ AccAXI.1	✓ AccAYI.1	✓ AccAZI.1	✓ AccZI.1	✓ AccZref	
	✓ AccAXI.2	✓ AccAYI.2	✓ AccAZI.2	✓ AccZI.2		
	✓ AccAXI.3	✓ AccAYI.3	✓ AccAZI.3	✓ AccZI.3		
✓ Altitude	✓ AltGPS.1	✓ AltI.1	✓ AltPaADDU.1	✓ AltBCADDU.1	✓ ALTref ✓ ALTPA.d ✓ ALTGA.d	
	✓ AltGPS.2	✓ AltI.2	✓ AltPaADDU.2	✓ AltBCADDU.2		
	✓ AltGPS.3	✓ AltI.3	✗ AltRA.1			
✓ Ground Speed	✓ GsXI.1	✓ GsYI.1	✓ GsZI.1	✓ GsGPS.1	✓ GSXref ✓ GSYref ✓ GSZref	
	✓ GsXI.2	✓ GsYI.2	✓ GsZI.2	✓ GsGPS.2		
	✓ GsXI.3	✓ GsYI.3	✓ GsZI.3			
	✓ GsXGPS.1	✓ GsYGPS.1	✓ GsZGPS.1			
	✓ GsXGPS.2	✓ GsYGPS.2	✓ GsZGPS.2			
✓ Location	✓ LatGPS.1	✓ LatI.1	✓ LongGPS.1	✓ LonI.1	✓ LATref ✓ LONref	
	✓ LatGPS.2	✓ LatI.2	✓ LongGPS.2	✓ LonI.2		
	✓ LatGPS.3	✓ LatI.3	✓ LongGPS.3	✓ LonI.3		
✓ Pressure Sensors	✓ PDALPHA.1	✓ PQALPHA.1	✓ PQM.1	✓ PSM.1	✓ PQMref ✓ PQ.c ✓ PSMref ✓ PS.c	
	✓ PDALPHA.2	✓ PQALPHA.2	✓ PQM.2	✓ PSM.2		
	✓ PDBETA.1	✓ PQBETA.1				
	✓ PDBETA.2	✓ PQBETA.2				
✓ Air Speed	✓ CasADDU.1	✓ TasADDU.1			✓ IAS.d	✓ TAS.d
✓ Pitch / Roll	✓ PitchI.1	✓ PitchRatel.1	✓ RollI.1	✓ RollRatel.1	✓ PITCHref ✓ ROLLref	
	✓ PitchI.2	✓ PitchRatel.2	✓ RollI.2	✓ RollRatel.2		
	✓ PitchI.3	✓ PitchRatel.3	✓ RollI.3	✓ RollRatel.3		
✓ Temperature / Dewpoint	✓ TTM.1	✓ TTM.4	✗ TDM.1		✗ TD.c	✓ TTMref
	inop TTM.2		✗ TDM.2		✗ TDMref	✓ TA.d
	✓ TTM.3				✗ HUM	
✗ Wind					✓ UWZ.d	✗ WS.d ✗ WD.d

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)	✗
Sensor Inoperative	inop

NOTES:
AltRa.1 failure.
TDM.1 and TDM.2 are biased low and require calibration. All moisture quantities and derivatives should be considered suspect.
Wind calibration needed. All flight level wind quantities and derivatives should be considered suspect.

08/25/2024, 23:24:30-28:28:20



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	31.62	2.08	27.89	33.84
LonGPS.1 (deg), 1 s/sec	-101.12	12.21	-118.26	-81.80
LatI.1 (deg), 1 s/sec	31.63	2.07	27.91	33.84
LonI.1 (deg), 1 s/sec	-101.06	12.21	-118.24	-81.76