

N42RF ERROR SUMMARY
20240811H1

Flight ID: 20240811H1

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/2024/MET/20240811H1

Local Met Data	Takeoff KLAL (1811Z)	Landing TBPB (1704Z)
Dynamic Corrections		Yes
AttackAngleIntercept		2.307
AttackAngleSlope		6.07515
SlipAngleIntercept		0.237
SlipAngleSlope		7.04607
AttackAngleIntercept2		2.06219
AttackAngleSlope2		5.99068
SlipAngleIntercept2		0.125
SlipAngleSlope2		6.9873

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.
GPS.2 parameters "spike" when plane was on the ramp starting up - this impacts UWZ mean - no impacts to FL data.
PTM.1 inop
SFMR data unrepresentative due to transit altitudes

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 - N42RF Manifest												
FLIGHT INFORMATION				CREW MANIFEST				MISSION INFORMATION				
FLT ID:	20240811H1	FLT #:		AC:	Abitbol	Scientists:		Pressure		Dropsondes		
From:	KLAL	ETD:	1400L / 1800Z	CP(s):	Wood	Aberson (HRD)		A/C Takeoff		Good	Bad	Sent
To:	TBPB	ETA:	1900L / 2300Z		Taraboletti	Chang (NESDIS)				-	-	-
Block Time		Flight Time		NAV:	Utama / Dunford	Jelenak (NESDIS)		ASOS Takeoff		BTs		
In:	23:07	Land:	23:01	FE(s):	Stokes	Sapp (NESDIS)					Good	Bad
					Ditoe			A/C Land		-	-	-
Out:	18:04	T/O:	18:12	FD(s):	Kalen							
Total:	5.1	Total:	4.8	SSA:	McAlister	Visitors:		ASOS Land				
Sponsoring Org:		NWS		AVAPS:	Keller / Underwood	Hathaway (PM)		Storm Number ID:		N/A		
Program:		PRX			Decker (MX)			(ie: AL072012)				
Purpose:		REPO TO TBPB		SEB:	Sans Souci (MX)			TCPDD/WSPDD Mission		NOAA2 WXWXA TRAIN		
					McGuier (MX)			(ie: NOAA2 2418A SANDY)				
				MX:	Pericht (MX)			OBSERVATIONS				
AS REQUIRED BY ORM			Y	N	REMARKS			Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH				X				1				
SCIENCE MISSION WITHIN BDYR 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:	20240811H1
Flight Director(s):	Kalen
Mission:	Ferry
UWZ.d mean:	0.25

Pressure Comparison		
	Pre-flight	Post-flight
Aircraft	1013.0	-
Airfield	1013.3	1005.9

This form uses:
_A.nc

SFMR Serial Unit	3
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Parameters	Raw				Derived, Corrected & Reference	
✓ Acceleration	✓ 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	
✓ Location	✓ 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 Sensors	✓ PDALPHA.1 ✓ PDALPHA.2 ✓ PDBETA.1 ✓ PDBETA.2	✓ PQALPHA.1 ✓ PQBETA.1	✓ PQM.1 ✓ PQM.2 ✓ PQM.3 ✓ PQM.4	✓ PSM.1 ✓ PSM.2 x PTM.1	✓ PQMref ✓ PQ.c ✓ PSMref ✓ PS.c	
✓ Air Speed	✓ CasADDU.1	✓ TasADDU.1	✓ IasADDU.1		✓ IAS.d	✓ TAS.d
✓ Pitch / Roll	✓ PitchI.1 ✓ PitchI.2 inop PitchI.3	✓ PitchRateI.1 ✓ PitchRateI.2 inop PitchRateI.3	✓ RollI.1 ✓ RollI.2 inop RollI.3	✓ RollRateI.1 ✓ RollRateI.2 inop RollRateI.3	✓ PITCHref ✓ ROLLref	
✓ Temperature, Dewpoint, Radiometers	✓ TTM.1 ✓ TTM.2 inop TTM.3	✓ TDM.1 ✓ TDM.2 inop TDM.3	✓ TRadD.1 ✓ TRadS.1 inop TRadU.1		✓ TD.c ✓ TDMref ✓ HUM	✓ TTMref ✓ TA.d
✓ Wind and Pressure		x CH 1 TB	x CH 4 TB		✓ UWZ.d	✓ WS.d
✓ SFMR	SFMR	x CH 2 TB	x CH 5 TB		✓ PSURF	✓ WD.d
		x CH 3 TB	x CH 6 TB		x WS SFMR	x 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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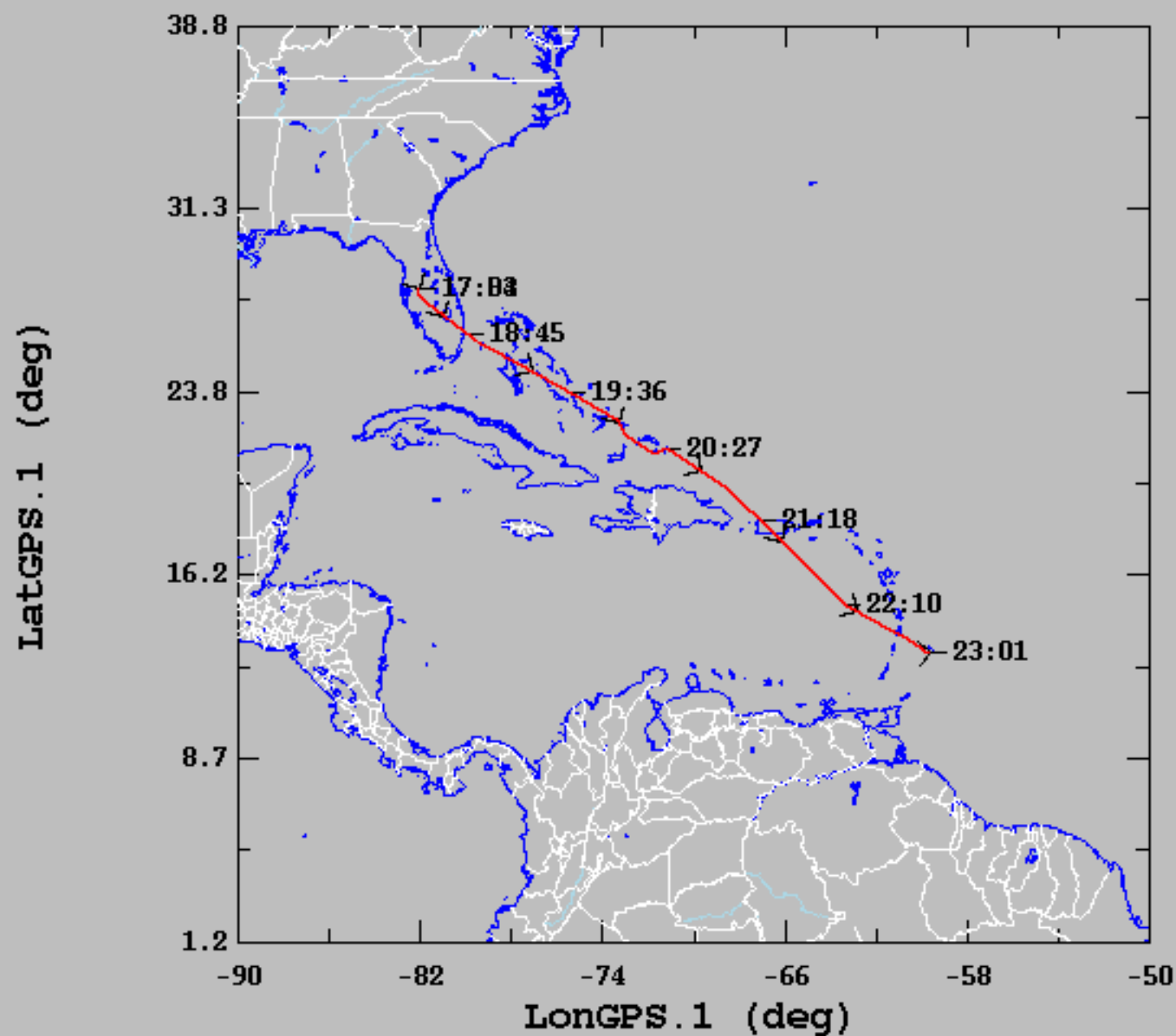
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08/11/2024, 17:03:28-23:01:07



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	21.89	4.97	13.03	27.99
LonGPS.1 (deg), 1 s/sec	-72.79	7.53	-82.06	-59.50