

N42RF ERROR SUMMARY
20240927H1_ES

Flight ID: 20240927H1

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/20240927H1

Local Met Data	Takeoff KEFD (1657Z)	Landing KLAL (1900Z)
Dynamic Corrections		Yes
AttackAngleIntercept		2.32804
AttackAngleSlope		6.09319
SlipAngleIntercept		0.25
SlipAngleSlope		6.641
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.

TRANSIT FLIGHT

Pitch and Roll I.3, TTM.3, TDM.3, and TRadU.1 not operational.

TTM.2 data produced erroneous data throughout the flight and data should not be used.

Suspicious drop in TTM.1, TTMref, TA.d & PSURF at 1709-1711z.

TDM.1 not representative throughout majority of flight including amplifying oscillations beginning at 1843z.

SFMR data (all channel TB, WS, RAIN RATE) under assessment and should be used with caution.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dro sondes	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: Englert/Carpenter

Phone #: 8636066847

ACAT-4 Version = 7.4

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20240927H1	FLT #:		AC:	Abitbol	Other Crew:	sUAS		Dropsondes		
From:	KEFD	ETD:	1200 CT / 1700Z	CP(s):	Wood	Cione (HRD)	Type	Released	Good	Bad	Sent
To:	KLAL	ETA:	1500 ET / 2000Z		Keith	Hazelton (HRD)					
Block Time		Flight Time		NAV(s):	Utama/Dunford	Chang (NESDIS)					
Out:	16:53	T/O:	16:58	FE(s):	Wysinger	Jelenak (NESDIS)	Other Expendables		Dropsonde Charge Codes		
					Tyson		Type	Released			
In:	19:08	Land:	19:00	FD(s):	Englert	Naeher (UAS - AOC)			AXBTs		
					Carpenter				Good	Bad	Sent
Total:	2.3	Total:	2.0	SSA:	McAlister						
					Dykeman						
Sponsoring Org:		NHC		IFT(s):	Paul		Pennies				
Program:		PRX						"Storm ID: (i.e., AL072012)"		N/A	
Purpose:	REPO to KLAL			MX:	Decker		Mission ID: (i.e., NOAA2 2418A SANDY)		WXWXA TRAIN		
					Sans Souci						
AS REQUIRED BY ORM			Y	N	REMARKS		OBSERVATIONS				
VOLCANIC ASH				x			Fix Number	Obs Number	Fix Time	SLP	
SCIENCE MISSION WITHIN BDRY LAYER				x			1				
LACK OF PRECIPITATION			x								
RELATIVE HUMIDITY ≥ 80%				x			2				
LARGE AIR-SEA TEMP GRADIENT				x							
HIGH SURFACE WINDS				x			3				
LONG FETCH / DURATION OF SFC WND				x							
SEA SALT ACCRETION FORECAST				x			4				
SEA SALT ACCRETION OBSERVED											
*Highlighted items must be completed before departure.											

P-3 QC Checklist

Overall Assessment	Minor instrument issue(s) - no mission impact.
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Flight ID:	20240927H1
Flight Director(s):	Englert/Carpenter
Mission:	Ferry
UWZ.d mean:	0.2

Pressure Comparison		
	Pre-flight	Post-flight
Aircraft	1009.9	
Airfield	1009.0	

This form uses:
_A.nc

SFMR Serial Unit	2
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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 ✓ 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	✓ PitchRatI.1 ✓ PitchRatI.2 inop PitchRatI.3	✓ RollI.1 ✓ RollI.2 inop RollI.3	✓ RollRatI.1 ✓ RollRatI.2 inop RollRatI.3	✓ PITCHref ✓ ROLLref	
✓ Temperature, Dewpoint, Radiometers	X TTM.1 ✓ TTM.2 inop TTM.3	X TDM.1 ✓ TDM.2 inop TDM.3	✓ TRadD.1 ✓ TRadS.1 inop TRadU.1		✓ TD.c ✓ TDMref ✓ HUM	X TTMref X TA.d
✓ Wind and Pressure X SFMR	SFMR	X CH 1 TB X CH 2 TB X CH 3 TB	X CH 4 TB X CH 5 TB X CH 6 TB		✓ UWZ.d X PSURF X WS SFMR	✓ WS.d ✓ WD.d 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:

Pitch and Roll I.3, TTM.3, TDM.3, and TRadU.1 not operational.

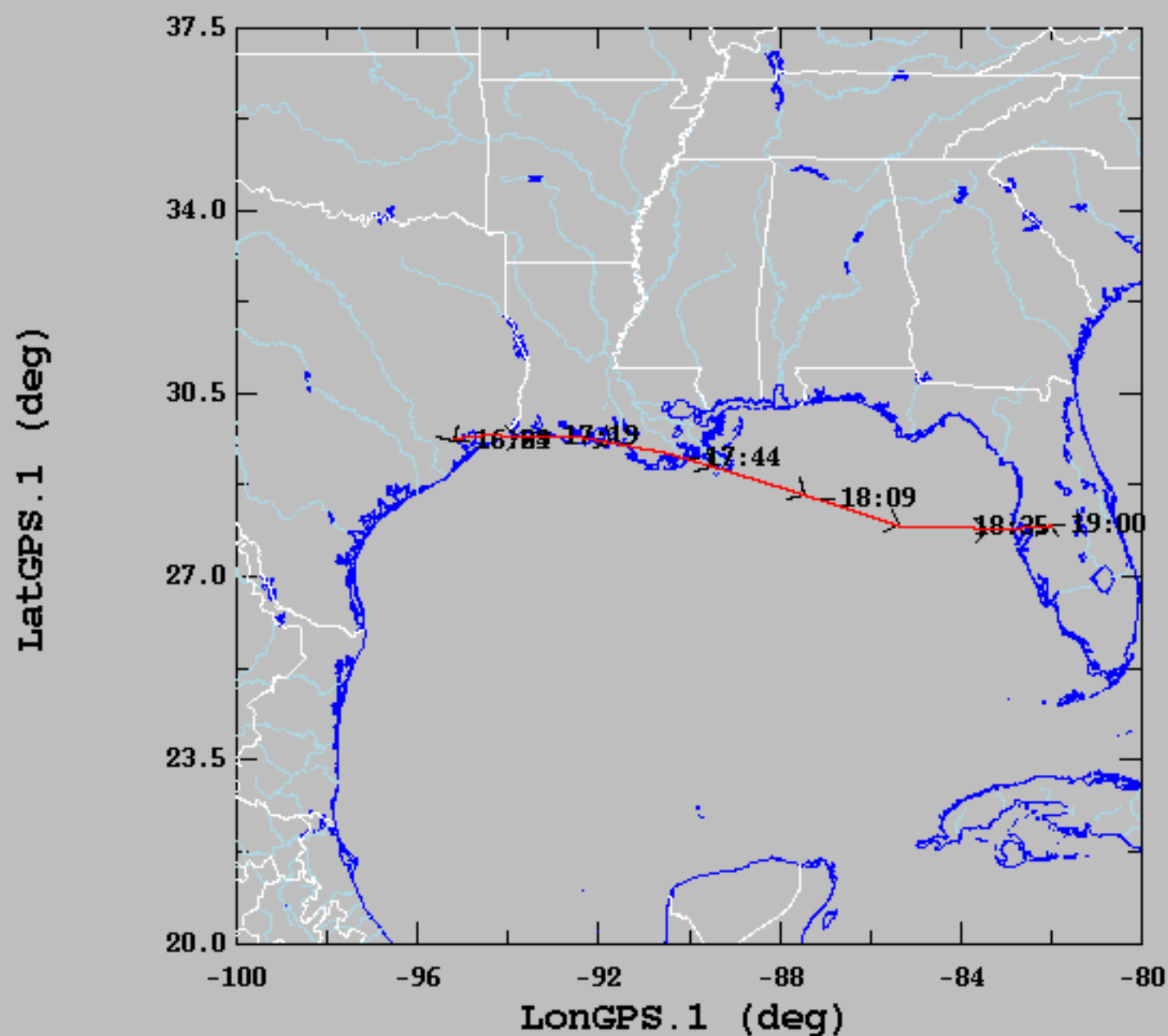
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09/27/2024, 16:04:01-19:00:20



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	29.04	0.71	27.90	29.72
LonGPS.1 (deg), 1 s/sec	-90.46	4.61	-95.17	-81.97