

N49RF ERROR SUMMARY
20220930N1

Flight ID: 20220930N1

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	AccZI.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/2022/MET/20220930N1

Local Met Data	Takeoff KEFD (1354Z)	Landing KLAL (1537Z)
Dynamic Corrections		Yes
AttackAngleIntercept		4.95911
AttackAngleSlope		5.43613
SlipAngleIntercept		1.06667
SlipAngleSlope		6.97813
AttackAngleIntercept2		5.05753
AttackAngleSlope2		5.52397
SlipAngleIntercept2		0.931
SlipAngleSlope2		6.57562

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.

TTM.3 is noisy throughout much of flight.

TDM.1 and TDM.2 are unrepresentative. Consider all flight level humidity to be suspect.

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: de Solo
Phone #: 8635003982

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:	20220930M	FLT #:		AC:	Mansour	Scientists:		Pressure		Dropsondes		
From:	KEFD	ETD:	1300Z	CP(s):	Waddington			A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	1530Z							☒	☒	☒
Block Time		Flight Time		NAV:				ASOS Takeoff		BTs		
In:	1544	Land:	1537	FE(s):				A/C Land		Good	Bad	Sent
Out:	1339	T/O:	1353	FD(s):	de solo							
Total:		Total:		SSA:	DeFeo	Visitors:		ASOS Land				
Sponsoring Org:				AVAPS:	Patel	Lambert		Storm Number ID:				
Program:				SEB:				(ie: AL072012)				
Purpose:		REPO		MX:	Roche			TCPD/WSPD Mission		WXN XA TRAIN		
								(ie: NOAA2 2418A SANDY)				
AS REQUIRED BY ORM				Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH								1				
SCIENCE MISSION WITHIN BDY LAYER								2				
LACK OF PRECIPITATION								3				
RELATIVE HUMIDITY ≥ 80%								4				
LARGE AIR-SEA TEMP GRADIENT												
HIGH SURFACE WINDS												
LONG FETCH / DURATION OF SFC WND												
SEA SALT ACCRETION FORECAST												
SEA SALT ACCRETION OBSERVED								Pennies:				

*Highlighted items must be completed before departure.

Remarks:

Repo from EFD to LAL

G-IV QC Checklist

Flight ID:	20220930N1
Flight Director(s)	de Solo
UWZ.d mean:	-0.02

Pressure Comparison		
	T/O	Land
Aircraft	1016.7	N/a
Tower	1017.1 (KEFD)	1005.4 (KLAL)

	Raw 1Hz Mean File Parameters					C File Parameters	
✓ Accelerometer	✓ AccAXI.1	✓ AccAYI.1	✓ AccAZI.1			✓ AccZref	
	✓ AccAXI.2	✓ AccAYI.2	✓ AccAZI.2				
	✓ AccAXI.3	✓ AccAYI.3	✓ AccAZI.3				
✓ Altitude	✓ AltGPS.1	✓ AltI.1	✓ AltPaADDU.1	✓ AltBCADDU.1	✓ ALTref		
	✓ AltGPS.2	✓ AltI.2	✓ AltPaADDU.2	✓ AltBCADDU.2	✓ ALTPA.d		
	✓ AltGPS.3	✓ AltI.3	AltRA.1		✓ ALTGA.d		
✓ Ground Speed	✓ GsXI.1	✓ GsYI.1	✓ GsZI.1	✓ GsGPS.1	✓ GSXref		
	✓ GsXI.2	✓ GsYI.2	✓ GsZI.2	✓ GsGPS.2	✓ GSYref		
	✓ GsXI.3	✓ GsYI.3	✓ GsZI.3	GsGPS.3	✓ GSZref		
	✓ GsXGPS.1	✓ GsYGPS.1	✓ GsZGPS.1				
	✓ GsXGPS.2	✓ GsYGPS.2	GsZGPS.2				
	GsXGPS.3	GsYGPS.3	GsZGPS.3				
✓ Lat / Lon	✓ LatGPS.1	✓ LatI.1	✓ LonGPS.1	✓ LonI.1	✓ LATref		
	✓ LatGPS.2	✓ LatI.2	✓ LonGPS.2	✓ LonI.2	✓ LONref		
	✓ LatGPS.3		✓ LonGPS.3				
✓ Pressure	✓ PDALPHA.1	✓ PQALPHA.1	✓ PQM.1	✓ PSM.1	✓ PDLAPHaref	✓ PQMref	
	✓ PDALPHA.2	✓ PQALPHA.2	✓ PQM.2	✓ PSM.2	✓ PDBETAref	✓ PQ.c	
	✓ PDBETA.1	✓ PQBETA.1			✓ PQALPHaref	✓ PSMref	
	✓ PDBETA.2	✓ PQBETA.2			✓ PQBETAref	✓ PS.c	
✓ Air Speed	✓ CasADDU.1	✓ TasADDU.1			✓ IAS.d	✓ TAS.d	
✓ Pitch / Roll	✓ PitchI.1	✓ PitchRateI.1	✓ RolI.1	✓ RollRateI.1	✓ PITCHref		
	✓ PitchI.2	✓ PitchRateI.2	✓ RolI.2	✓ RollRateI.2	✓ ROLLref		
	✓ PitchI.3	✓ PitchRateI.3	✓ RolI.3	✓ RollRateI.3			
✓ Temp / Dewpt	✓ TTM.1	✓ TTM.4	X TDM.1		X TD.c	✓ TTMref	
	TTM.2		X TDM.2		X TDMref	✓ TA.d	
	✓ TTM.3						
✓ Misc. (Must check)					✓ UWZ.d	✓ WS.d	
					✓ DPJ_WSZ	✓ WD.d	
					X HUM		

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

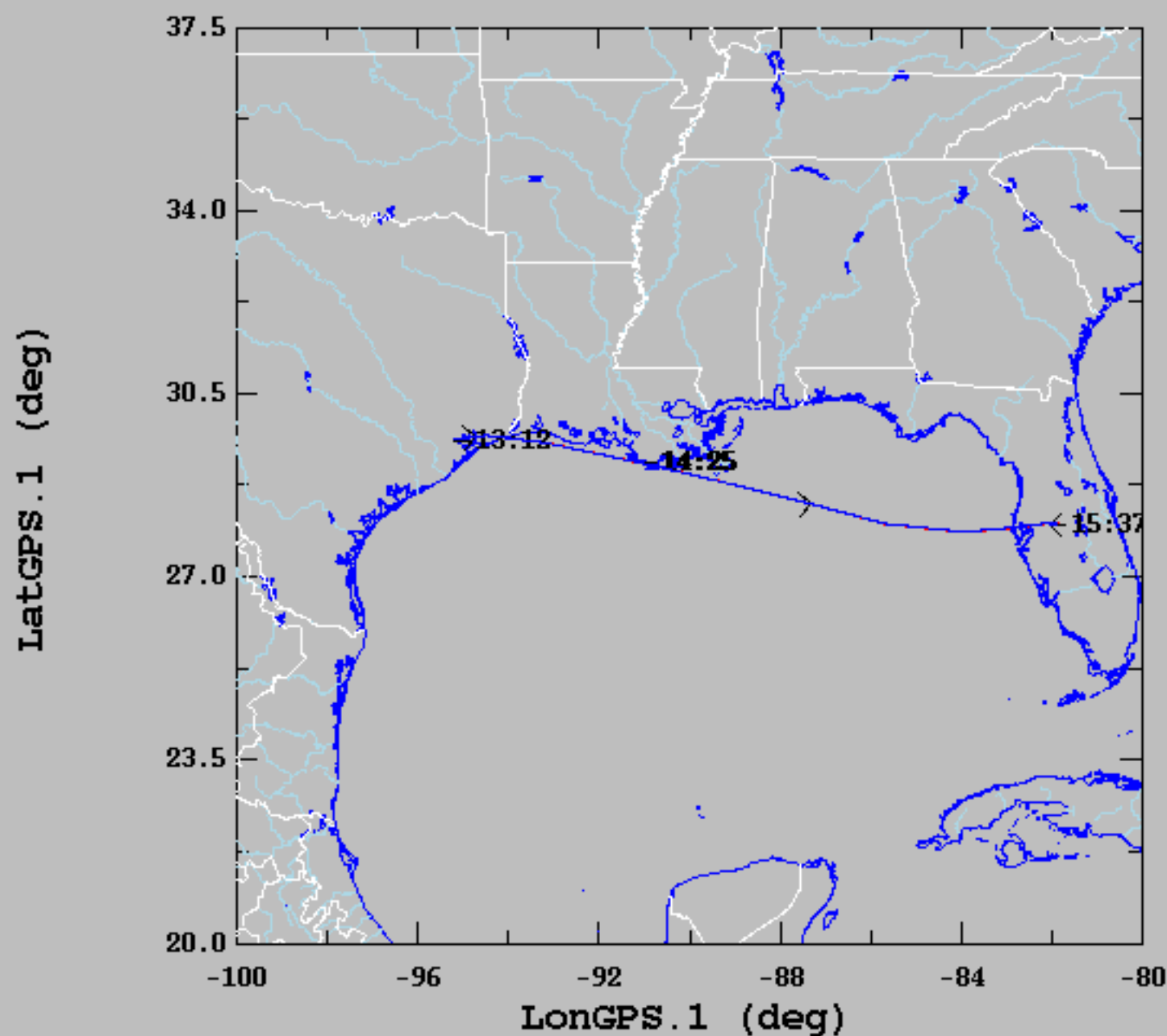
QC Key	
Not checked	☐
Valid	☒
Errors (note)	☒

NOTES:

TTM.3 is noisy throughout much of flight.

TDM.1 and TDM.2 are unrepresentative. Consider all flight level humidity to be suspect.

09/30/2022, 13:12:11-15:37:49



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	28.91	0.71	27.86	29.70
— LongGPS.1 (deg), 1 s/sec	-89.98	4.88	-95.17	-81.86
— LatI.1 (deg), 1 s/sec	28.90	0.72	27.85	29.70
— LonI.1 (deg), 1 s/sec	-89.95	4.88	-95.17	-81.85