

N49RF ERROR SUMMARY
20240910N1

Flight ID: 20240910N1

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.2
Differential Sideslip Pressure Probe	PDBETA.2
Dynamic Attack Pressure Probe	PQALPHA.2
Dynamic Sideslip Pressure Probe	PQBETA.2

Flight Directory acdata/2024/MET/20240910N1

Local Met Data	Takeoff KLAL (1718Z)	Landing KLAL (2315Z)
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 -----
Drosondes	24	21	24
Test sondes	0	0	0
AXBTs	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Flaherty
Phone #: 8635003980

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:	20240910N1	FLT #:		AC:	Bhatnagar	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:		CP(s):	Cozart		A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:							21	3	24
Block Time		Flight Time		NAV:			ASOS Takeoff		BTs		
In:	23:23	Land:	23:14	FE(s):					Good	Bad	Sent
Out:	17:06	T/O:	17:18	FD(s):	Flaherty		A/C Land				
Total:	6.3	Total:	5.9	SSA:	Defeo	Visitors:	ASOS Land				
				AVAPS:	Kotz						
Sponsoring Org:		NWS		SEB:	Vargas		Storm Number ID:		AL062024		
Program:		PHS					(ie: AL072012)				
Purpose:		TS FRANCINE		MX:			TCPOD/WSPOD Mission		NOAA9 0906A FRANCINE		
							(ie: NOAA2 2418A SANDY)				
AS REQUIRED BY ORM				Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP
VOLCANIC ASH								1			
SCIENCE MISSION WITHIN BDRY LAYER											
LACK OF PRECIPITATION								2			
RELATIVE HUMIDITY ≥ 80%											
LARGE AIR-SEA TEMP GRADIENT								3			
HIGH SURFACE WINDS											
LONG FETCH / DURATION OF SFC WND								4			
SEA SALT ACCRETION FORECAST											
SEA SALT ACCRETION OBSERVED								Pennies:			
							*Highlighted items must be completed before departure.				
Remarks:											

G-IV QC Checklist

Overall Assessment	No instrument issues noted.
--------------------	-----------------------------

Flight ID:	20240910N1
Flight Director(s):	Flaherty/de Solo
Mission:	Tasked/Operational
UWZ.d mean:	-0.01

Pressure Comparison		
	Pre-flight	Post-flight
Aircraft		
Airfield	1009.3	1008.3

This form uses:
[A.nc](#)

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

FLID_Mission_Documents.pdf:
<input checked="" type="checkbox"/> Error Summary
<input checked="" type="checkbox"/> Crew Manifest
<input checked="" type="checkbox"/> QC Checklist
<input checked="" type="checkbox"/> Dropwindsonde Log(s) - AVAPS and FD, if completed
<input checked="" type="checkbox"/> Flight Track

QC Key:	
Valid	<input checked="" type="checkbox"/>
Errors (see NOTES)	<input checked="" type="checkbox"/>
Sensor Inoperative	inop

NOTES:

Flight level winds are removed due to known inconsistencies.
 PQBeta.1 and PQBeta.2 diverge mid-flight.

AOC GPS Dropwindsonde Log (updated June 2023D)

Flight ID: _____ ASPEN Operator/Flight Director(s): _____

Mission ID: _____ Storm Name/Track: _____ PG ____ of ____

Sonde #	Ob #	Šæ } &@Time PPT T ÚÚÁZ	Sonde ID <small>(I 4 Aspen ID)</small>	ChÄ <small>•^äÄ</small>	Lat (°N)	Lon (°W)	Prominent Wx Cond.	SFC Prs (mb)	Comments / Issues / QC / ASPEN Edits	KWBC #	Sonde Issues?
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											

COMMENTS:

ASPEN Operator will ensure this form is delivered to the AOC Flight Director to be archived

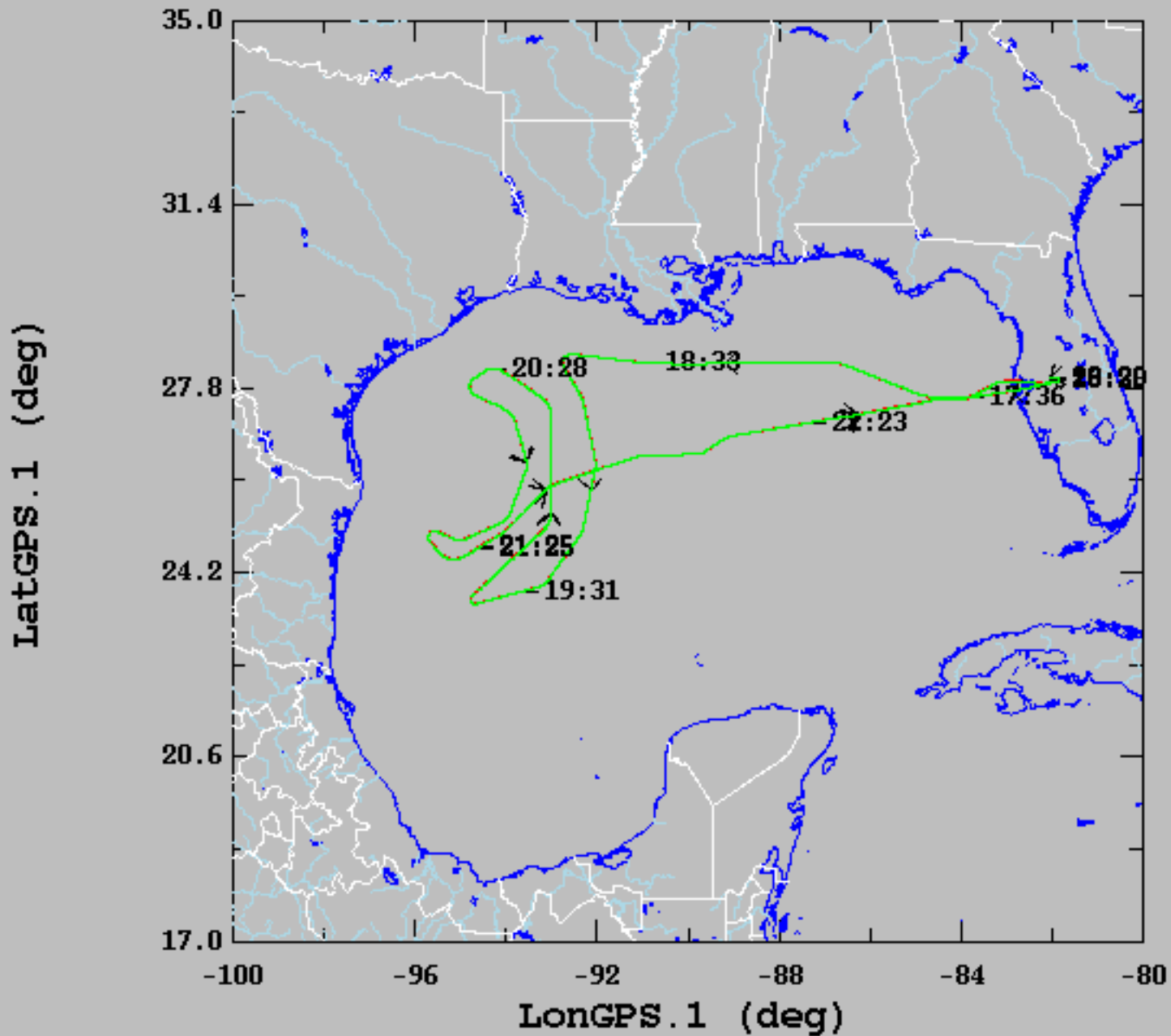
Obs
Xmitted

Obs
Missed

of sondes
launched

of bad
sondes

09/10/2024, 16:39:02-23:20:42



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	26.86	1.39	23.58	28.46
— LonGPS.1 (deg), 1 s/sec	-89.30	4.67	-95.68	-81.83
— LatGPS.1 (deg), 1 s/sec	26.86	1.39	23.58	28.46
— LonGPS.1 (deg), 1 s/sec	-89.30	4.67	-95.68	-81.83
— LatI.1 (deg), 1 s/sec	26.86	1.38	23.59	28.47
— LonI.1 (deg), 1 s/sec	-89.29	4.68	-95.69	-81.82