

N49RF ERROR SUMMARY  
 TS IDALIA 0210A

Flight ID: 20230827N1

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/2023/MET/20230827N1

Local Met Data	Takeoff KLAL (1716Z)	Landing KLAL (0014Z)
Dynamic Corrections		Yes
AttackAngleIntercept		6.4652
AttackAngleSlope		7.59375
SlipAngleIntercept	0.925	
SlipAngleSlope		6.56381
AttackAngleIntercept2		4.97461
AttackAngleSlope2	5.403512	
SlipAngleIntercept2		0.71
SlipAngleSlope2		6.22545

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.

Data system crash at approx 1959z. NetCDF files split up a A.nc and B.nc for before and after system was reset.

Expendable Type	# deployed	# good	# transmitted
Dropsondes	34	32	32
Test sondes	0	0	0
AXBTS	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Henning  
 Phone #: (850) 499-0151

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:	20230821N1	FLT #:		AC:	de Triquet	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:		CP(s):	Bhatnagar		A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:		NAV:					32	2	32
Block Time		Flight Time		FE(s):			ASOS Takeoff		BTs		
In:	0020	Land:	0014	FD(s):			A/C Land		Good	Bad	Sent
Out:	1707	T/O:	1716	SSA:	Henning		ASOS Land		/	/	/
Total:	7.2	Total:	7.0	AVAPS:	de Solo	Visitors:					
Sponsoring Org:	NHC(NWS?)			SEB:	DeFerd		Storm Number ID:		0210A Idalia		
Program:	PRX			MX:	Dykeman		(ie: AL072012)				
Purpose:	TS Idalia				pavl		TCPOD/WSPOD Mission				
							(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							2				
LACK OF PRECIPITATION							3				
RELATIVE HUMIDITY ≥ 80%							4				
LONG FETCH / DURATION OF SFC WND											
SEA SALT ACCRETION FORECAST											
SEA SALT ACCRETION OBSERVED											
							Pennies:	N/A			

\*Highlighted items must be completed before departure.

Remarks:

TS Idalia

## G-IV QC Checklist

<b>Flight ID:</b>	<b>20230827N1</b>
<b>Flight Director(s)</b>	<b>Henning / de Solo</b>
<b>UWZ.d mean:</b>	<b>-0.07</b>

Pressure Comparison		
	T/O	Land
<b>Aircraft</b>	<b>1004.3</b>	<b>1003.4</b>
<b>Tower</b>	<b>1004.8</b>	<b>1003.7</b>

	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	x 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	✓ RolLI.1	RollRateI.1	✓ PITCHref		
	✓ PitchI.2	✓ PitchRateI.2	✓ RolLI.2	✓ RollRateI.2	✓ ROLLref		
	✓ PitchI.3	✓ PitchRateI.3	✓ RolLI.3	✓ RollRateI.3			
x Temp / Dewpt	✓ TTM.1	✓ TTM.4	x TDM.1		x TD.c	✓ TTMref	
	✓ TTM.2		x TDM.2		x TDMref	✓ TA.d	
	✓ TTM.3						
x 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
<input type="checkbox"/>	Miscellaneous FD Notes

QC Key	
Not checked	<input type="checkbox"/>
Valid	<input checked="" type="checkbox"/>
Errors (note)	<input checked="" type="checkbox"/>

NOTES:
<p><b>Radar Altitude INOP. GPS 3 (Novatel) is used for absolute altitude in calculation of all MET parameters.</b></p> <p><b>All FL humidity data is suspect above 25,000 feet. TDM2 is fairly accurate at lower altitudes</b></p> <p><b>DATA SYSTEM CRASHED AT ABOUT 19:59Z so netCDF files are divided into <a href="#">A.nc</a> and <a href="#">B.nc</a> before and after system reset</b></p>

AOC GPS Dropwindsonde Log (updated June 2023)

Flight ID: 20230827N1

ASPEN Operator/Flight Director(s): HENNING/de SOLO

Mission ID: 0210A IDALIA

Storm Name/Track: Synoptic surveillance for NHC

Sonde #	Ob #	Launch Time HHMMSS (Z)	Sonde ID (min last 5)	Ch # used	Lat (°N)	Lon (°W)	Prominent Wx Cond.	SFC Prs (mb)	Comments / Issues / QC / ASPEN Edits	KWBC #	Sonde Issues?
1	1	174038	20238	1	29.0	84.0	SCT	1009.0	<u>SURFACE WIND</u> 105/3	1801	✓✓
2	2	175156	50551	2	29.0	85.5	SCT	1008.9	020/14	1813	✓✓
3	3	180257	40688	3	29.0	87.0	SCT	1007.7	065/2	1829	✓✓
4	4	181353	10407	4	28.8	88.5	SCT	1008.3	005/6	1832	✓✓
5		1823		1			NO PTH				
6	5	182405	10164	2	27.7	88.5	OVC	1008.5	020/6	1851	✓✓
7	6	183158	20376	3	27.5	87.5	SCT	1006.7	020/3	1854	✓✓
8	7	184159	20055	4	27.5	86.0	SCT	1008.0	045/5	1903	✓✓
9	8	185202	40130	1	27.5	84.5	BKN	1007.5	100/13	1913	✓✓
10	9	190150	70673	2	27.4	83.1	SCT	1008.1	340/8	1920	✓✓
11	10	191252	40046	3	26.1	83.1	SCT	1007.1	155/4	1938	✓✓
12	11	192424	10621	4	26.0	84.5	SCT	1007.3	065/12	1947	✓✓
13	12	193644	31334	1	26.0	86.0	SCT	1007.6	035/17	2003	✓✓
14		1948		2			NO PTH				
15	13	194932	40041	3	26.0	87.6	SCT	1007.7	350/8	2021	✓✓
16	14	200056	70706	4	25.9	88.9	SCT	1007.4	355/18	2024	✓✓
17	15	201203	50734	1	24.6	88.9	SCT	1006.6	015/11	2030	✓✓
18	16	202148	40299	2	24.5	87.5	SCT	1006.3	030/17	2052	✓✓
19	17	203222	20396	3	24.5	86.0	SCT	1006.2	075/12	2054	✓✓
20	18	204845	40129	4	24.4	83.7	SCT	1006.2	100/12	2108	✓✓
21	19	205852	10007	1	23.5	84.5	SCT	1005.7	095/16	2120	✓✓
22	20	211126	10161	2	23.6	86.1	SCT	1004.9	065/19 weak telemetry	2136	✓✓ GAPS
23	21	212646	30271	3	23.5	88.0	SCT	1006.0	030/16	2153	✓✓
24	22	213804	30750	4	22.4	88.8	BKN	1005.2	025/20	2201	✓✓
25	23	215040	10436	1	22.6	87.2	BKN	1004.9	040/16	2214	✓✓
26	24	220640	40033	2	22.5	85.1	CDO	1003.6	095/15	2226	✓✓
27	25	221603	40132	3	21.5	84.6	CDO	1003.9	135/16	2238	✓✓
28	26	222528	20039	4	20.4	84.9	CDO	1001.6	120/30	2247	✓✓
29	27	223123	10159	1	20.0	84.4	CDO	1002.4	155/27 weak	2253	✓✓
30	28	223653	40045	2	19.5	83.8	CDO	1004.1	155/24 weak telemetry	2256	✓✓ ← 560-835 mb many gaps
31	29	224313	50425	3	19.2	83.1	CDO	1004.7	195/14	2312	✓✓
32	30	225009	50414	4	19.9	82.8	CDO	1005.0	170/18	2322	✓✓
33	31	225532	30707	1	20.5	82.6	BKN	1005.4	195/19	2324	✓✓
34	32	232545	40297	2	24.0	82.0	BKN	1007.3	145/6	2347	✓✓
35											
36											
37											
38											

COMMENTS:

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

Obs Xmitted 32 Missed 0 # of sondes launched 34 # of bad sondes 2

2023-08-27, 16:35:18-24:20:20

