N49RF ERROR SUMMARY

20230828N1

Flight ID: 20230828N1

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/2023/MET/20230828N1

Local Met Data	Takeoff KLAL (0630Z)	Landing KLAL (1254Z)
Dynamic Corrections		Yes
AttackAngleIntercept		4.95911
AttackAngleSlope		5.43613
SlipAngleIntercept		1.06
SlipAngleSlope		6.97813
AttackAngleIntercept2		5.01255
AttackAngleSlope2		5.40932
SlipAngleIntercept2		0.72

SlipAngleSlope2 7.0494

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
Dropsondes	31	31	31
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 #: 8635003986

ACAT-4 Version = 7.4

U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N49RF Manifest

FLIGHT INFORMATION

FLT ID:	20230828N1	FLT #:	
From:	KLAL	ETD:	0530Z 130L
To:	KLAL	ETA:	1330Z 930L
Block Time		Flight Time	
Out:	0623Z	T/O:	0631Z
In:	1302Z	Land:	1254Z
Total:	6.7	Total:	6.4

Sponsoring Org:	PHS
Program:	HX - NHC
Purpose:	Synoptic Surveillance

CREW MANIFEST

		Scientists:
AC:	Nardi	
CP(s):	Varwig	
NAV:		
FE(s):		
FD(s):	Flaherty	
	Timmers	
SSA:	Lynch	Visitors:
AVAPS:	Weinmann	
SEB:		
MX:		

MISSION INFORMATION

Pressure		Dropsondes		
		Good	Bad	Sent
A/C Takeoff	1003	31	Ø	31
ASOS Takeoff	1006	BTs		
		Good	Bad	Sent
A/C Land	1004	Ø	Ø	Ø
ASOS Land	1010			

Storm Number ID: (ie: AL072012)	AL102023
TCPOD/WSPOD Mission (ie: NOAA2 2418A SANDY)	NOAA9 0410A IDALIA

OBSERVATIONS

Fix Number	Obs Number	Fix Time	SLP
1			
2			
3			
4			
Pennies:			

AS REQUIRED BY ORM	Y	N	REMARKS
VOLCANIC ASH		X	
SCIENCE MISSION WITHIN BDRY LAYER		X	
LACK OF PRECIPITATION		X	
RELATIVE HUMIDITY ≥ 80%	X		
LARGE AIR-SEA TEMP GRADIENT		X	
HIGH SURFACE WINDS		X	
LONG FETCH / DURATION OF SFC WND		X	
SEA SALT ACCRETION FORECAST		X	
SEA SALT ACCRETION OBSERVED		X	

*Highlighted items must be completed before departure.

Remarks:

AOC GPS Dropwindsonde Log (updated June 2023)

Flight ID: 20230828N1 ASPEN Operator/Flight Director(s): TIMMERS/FLAHERTY

Mission ID: 0410A IDALIA Storm Name/Track: TS IDALIA PG 1 of 1

Sonde #	Ob #	Launch Time HHMMSS (Z)	Sonde ID (min last 5)	Ch # used	Lat (°N)	Lon (°E)	Prominent Wx Cond.	SFC Prs (mb)	Comments / Issues / QC / ASPEN Edits	KWBC #	Sonde Issues?
1	1	0646 45	30733	1	28.9	-83.5	N/A	1006.8	120/12	0702	✓✓
2	2	0657 24	60215	2	29.0	-85.0	N/A	1006.0	115/10	0717	✓✓
3	3	0708 33	30184	3	29.0	-86.5	N/A	1007.4	235/01	0731	✓✓
4	4	0719 25	50615	4	28.9	-88.0	N/A	1007.4	240/04	0741	✓✓
5	5	0734 20	50725	1	27.5	-89.1	N/A	1006.4	275/05	0752	✓✓
6	6	0742 26	30192	2	27.5	-88.0	N/A	1007.1	335/02	0803	✓✓
7	7	0752 58	20257	3	27.5	-86.5	N/A	1006.1	080/03	0812	✓✓
8	8	0803 24	40649	4	27.5	-85.0	N/A	1006.4	065/06	0825	✓✓
9	9	0813 23	30721	1	27.4	-83.6	N/A	1006.0	090/10	0834	✓✓
10	10	0824 44	50592	2	26.1	-83.6	N/A	1006.2	100/09	0845	✓✓
11	11	0836 06	50397	3	26.0	-85.0	N/A	1005.8	100/09	0858	✓✓
12	12	0848 04	40148	4	26.0	-86.5	N/A	1005.6	055/08	0907	✓✓
13	13	0900 01	50011	1	26.0	-88.0	N/A	1006.9	035/05	0929	✓✓
14	14	0911 19	10149	2	25.9	-89.4	N/A	1007.1	080/03	0932	✓✓
15	15	0922 19	40760	3	24.5	-89.5	N/A	1006.8	////	0943	✓✓
16	16	0934 09	10056	4	23.1	-89.4	N/A	1004.2	355/13	0958	✓✓
17	17	0943 58	30709	1	23.1	-88.1	N/A	1004.5	030/09	1003	✓✓
18	18	0955 04	60017	2	24.4	-87.9	N/A	1004.6	045/09	1017	✓✓
19	19	1002 27	40390	3	24.7	-86.9	N/A	1005.7	060/15	1023	✓✓
20	20	1016 56	50222	4	23.0	-86.7	N/A	1004.0	080/09	1041	✓✓
21	21	1024 30	20056	1	23.3	-85.8	N/A	1004.8	100/19	1048	✓✓
22	22	1033 03	50719	2	22.8	-84.7	N/A	1004.5	115/20	1055	✓✓
23	23	1045 14	60401	3	21.5	-84.1	N/A	1003.2	145/30	1105	✓✓
24	24	1053 05	50417	4	20.7	-84.6	N/A	999.5	160/38	1120	✓✓
25	25	1100 54	70997	1	19.9	-84.1	OVCST	1001.8	200/46	1123	✓✓
26	26	1108 51	10145	2	19.4	-83.4	UCST	1005.8	210/27	1130	✓✓
27	27	1121 59	60045	3	20.9	-82.8	UCST	1004.8	165/26	1146	✓✓
28	28	1143 36	20058	4	23.5	-82.9	UCST	1007.2	135/15	1208	✓✓
29	29	1152 27	50027	1	24.0	-83.8	UCST	1006.0	140/19	1212	✓✓
30	30	1201 29	10457	2	24.7	-84.6	UCST	1006.5	160/15	1220	✓✓
31	31	1212 14	20537	3	24.9	-83.1	UCST	1006.7	155/15	1231	✓✓
32											
33											
34											
35											
36											
37											
38											

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

31 Obs Xmitted 2 Obs Missed 31 # of sondes launched 0 # of bad sondes

G-IV QC Checklist

Flight ID:	**20230828N1**
Flight Director(s)	**Flaherty/Timmers**

UWZ.d mean:	**-0.08**

Pressure Comparison		
	T/O	**Land**
Aircraft	**1003 mb**	**1004 mb**
Tower	**1006 mb**	**1010 mb**

	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	X PDLAPHAref	☑ PQMref
	☑ PDALPHA.2	☑ PQALPHA.2	☑ PQM.2	☑ PSM.2	X PDBETAref	☑ PQ.c
	☑ PDBETA.1	☑ PQBETA.1			X PQALPHAref	☑ PSMref
	☑ PDBETA.2	☑ PQBETA.2			X 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		
☐ Temp / Dewpt	☑ TTM.1	☑ TTM.4	☑ TDM.1		☑ TD.c	☑ TTMref
	☑ TTM.2		X TDM.2		☑ TDMref	☑ TA.d
	☑ TTM.3					
☐ Misc. (Must check)					☑ UWZ.d	☑ WS.d
					☐ DPJ_WSZ	☑ WD.d
					☑ 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)	X

NOTES:

AltRA.1 is at 0.0 for the duration of the flight, please use ALTref for altitude data.

TDM.2 is not valid for the duration of the flight. Please reference TDM.1 for dewpoint temperature.

PDALPHAref, PDBETAref, PQALPHAref, and PQBETAref are not generated in this file; please reference 1Hz sensors for all flight

08/28/2023, 05:48:15-13:01:52