N49RF ERROR SUMMARY
TS IDALIA 0710A

Flight ID: 20230828N2

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.2
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/20230828N2

Local Met Data	Takeoff KLAL (1723Z)	Landing KLAL (0053Z)
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		6.22545

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.

Expendable Type	# deployed	# good	# transmitted
Dropsondes	37	36	36
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

FLT ID:	20230828N2	FLT #:	
From:	KLAL	ETD:	
To:	KLAL	ETA:	

Block Time		Flight Time	
In:	0103	Land:	0053
Out:	1712	T/O:	1723
Total:	7.9	Total:	7.5

Sponsoring Org:	~~OAR~~ WHC
Program:	~~AAR~~ PRX
Purpose:	~~AR mission #3~~ TS Idalia

CREW MANIFEST

AC:	de Triquet	Scientists:
CP(s):	Bhatnagar	
	Pawlenko	
NAV:		
FE(s):		
FD(s):	Henning	
	de Solo	
SSA:	DeFeo	Visitors:
AVAPS:	Dykeman	
SEB:	Paul	
MX:		

MISSION INFORMATION

Pressure		Dropsondes		
		Good	Bad	Sent
A/C Takeoff		36	1	36
ASOS Takeoff		BTs		
		Good	Bad	Sent
A/C Land				
ASOS Land				

Storm Number ID: (ie: AL072012)	07101A Idalia
TCPOD/WSPOD Mission (ie: NOAA2 2418A SANDY)	

AS REQUIRED BY ORM

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

REMARKS

OBSERVATIONS

Fix Number	Obs Number	Fix Time	SLP
1			
2			
3			
4			
Pennies:	N/A		

*Highlighted items must be completed before departure.

Remarks:

G-IV QC Checklist

Flight ID:	20230828N2
Flight Director(s)	Henning / de Solo

UWZ.d mean:	-0.01

Pressure Comparison		
	T/O	Land
Aircraft	1004.7	1005.5
Tower	1005.3	1005.2

	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
☐ Miscellaneous FD Notes

QC Key	
Not checked	☐
Valid	✓
Errors (note)	x

NOTES:

Radar Altitude INOP. GPS 3 (Novatel) is used for absolute altitude in calculation of all MET parameters.

All FL humidity data is suspect above 25,000 feet. TDM2 is fairly accurate at lower altitudes

AOC GPS Dropwindsonde Log (updated June 2023)

Flight ID: 20230828N1 ASPEN Operator/Flight Director(s): HENNING / de SOLO

Mission ID: 07IDA IDALIA Storm Name/Track: NHC TASKED SYN SURV PG __ of __

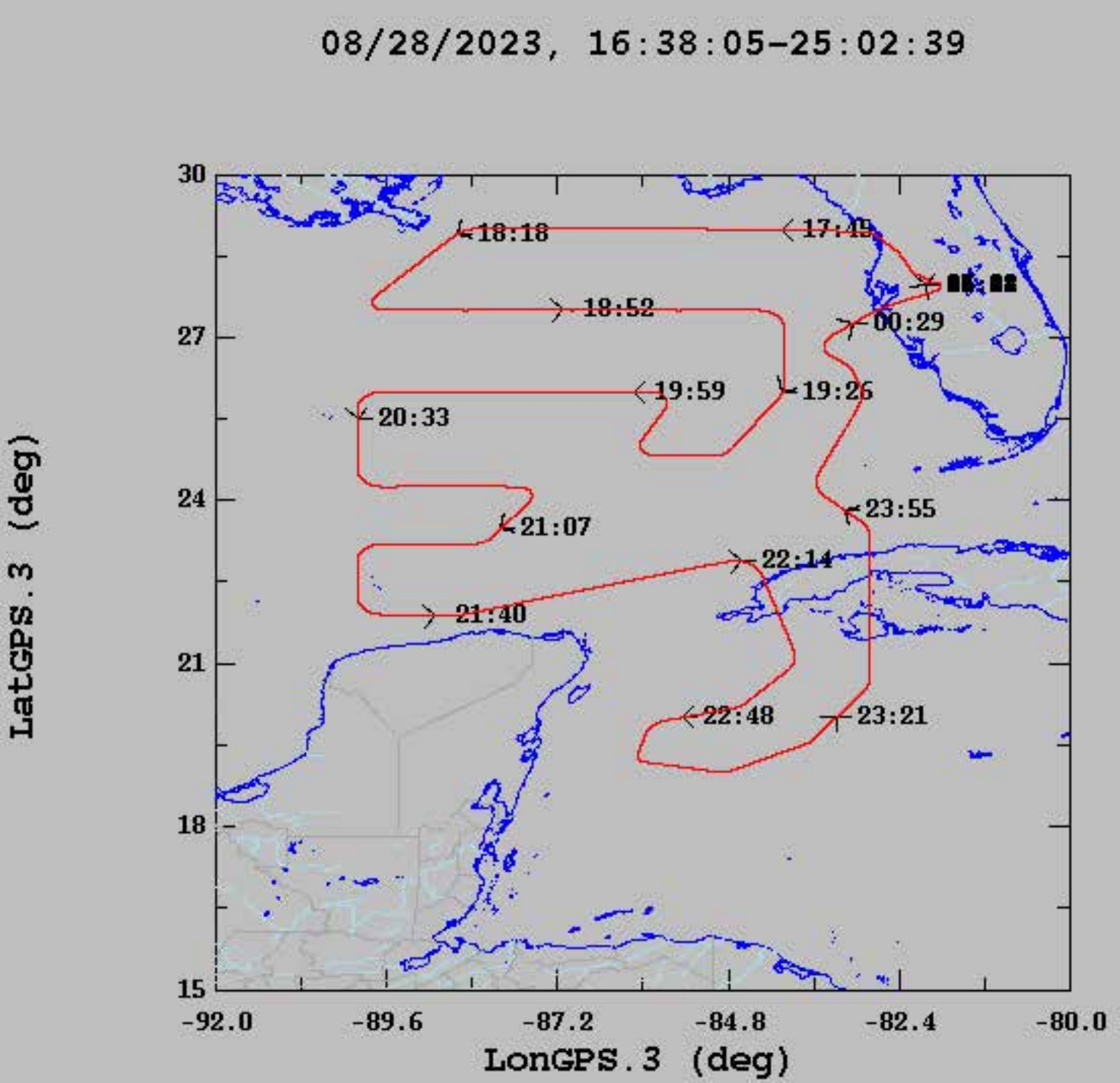
Sonde #	Ob #	Launch Time HHMMSS (Z)	Sonde ID (min last 5)	Ch # used	Lat (°N)	Lon (°W)	Prominent Wx Cond.	SFC Prs (mb)	Comments / Issues / QC / ASPEN Edits	KWBC #	Sonde Issues?
									SURFACE WIND		
1	1	174516	40195	1	29.0	84.0	SCT	1007.3	120/10	1807	✓✓
2	2	175620	20028	2	29.0	85.5	SCT	1009.2	065/7	1822	✓✓
3	3	180718	60521	3	29.0	87.0	SCT	1007.9	105/9	1834	✓✓
4	4	181820	21107	4	29.0	88.5	SCT	1009.0	090/11	1841	✓✓
5	5	183413	60520	1	27.5	89.7	SCT	1007.8	065/11	1853	✓✓ F
6	—	1843	——	2	——	——	EAST	FELL	——	——	——
7	6	184352	40234	3	27.5	88.4	BKN	1006.5	100/10	1914	✓✓
8	7	185322	20606	4	27.5	87.0	BKN	1007.9	055/10	1917	✓✓
9	8	190343	30197	1	27.5	85.5	BKN	1007.8	095/13	1928	✓✓ F
10	9	191339	40650	2	27.4	84.1	UCAST	1008.1	120/6	1941	✓✓
11	10	192613	10326	3	26.0	84.0	UCAST	1007.8	150/9	1952	✓✓
12	11	193835	50450	4	24.9	84.9	UCAST	1007.0	115/29	2003	✓✓
13	12	194824	30189	1	25.0	86.0	SCT	1006.3	110/20	2007	✓✓
14	13	195618	40282	2	25.9	85.7	SCT	1006.9	130/15	2024	✓✓
15	14	200704	20026	3	26.0	87.0	SCT	1006.3	075/9	2030	✓✓ F
16	15	201856	70705	4	26.0	88.5	SCT	1005.7	055/13	2044	✓✓
17	16	203002	30760	1	25.9	89.9	SCT	1006.9	115/4	2054	✓✓
18	17	204312	31234	2	24.3	89.9	SCT	1006.9	030/16	2116	✓✓
19	18	210028	40647	3	24.1	87.6	BKN	1004.5	060/13	2123	✓✓
20	19	211000	40603	4	23.3	88.2	SCT	1004.8	010/12	2133	✓✓ F
21	20	212346	40871	1	23.1	89.9	SCT	1006.2	360/13	2148	✓✓
22	21	213316	60052	2	22.0	89.9	SCT	1006.8	005/10	2158	✓✓
23	22	214400	60050	3	21.9	88.5	SCT	1004.1	340/17	2204	✓✓
24	23	215510	30517	4	22.3	87.1	SCT	1003.2	030/18	2219	✓✓
25	24	220522	10156	1	22.6	85.8	CDO	1002.3	085/26	2231	✓✓
26	25	221511	30757	2	22.8	84.5	CDO	1004.4	125/22	2235	✓✓
27	26	222859	10586	3	21.5	83.9	CDO	1002.0	185/46	2248	✓✓
28	28	223156	40194	4	21.0	83.8	CDO	1003.1	185/34	2257	✓✓✓
29	27	224115	40708	1	20.2	84.6	CDO	——	PTH died at 825 mb	2302	✓✓
30	29	225214	10133	2	19.8	85.9	CDO	1004.4	265/23	2314	✓✓ F
31	30	225717	10079	3	19.2	86.0	CDO	1006.2	260/18	2324	✓✓
32	31	230648	50583	4	19.0	84.8	CDO	1005.8	195/26	2345	✓✓
33	32	231711	10113	1	19.5	83.6	CDO	1006.2	185/28	2352	✓✓
34	33	232715	20313	2	20.6	82.8	CDO	1006.3	165/32	2356	✓✓
35	34	235138	10106	3	23.5	82.8	BKN	1006.9	145/17	0015	✓✓
36	35	000047	50585	4	24.3	83.5	UCAST	1007.3	135/18	0020	✓✓
37	36	001036	10151	1	25.5	83.1	UCAST	1008.3	LAST REPORT 160/23	0029	✓✓
38											

Sent out of order

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

COMMENTS:

Obs Xmitted 36 Obs Missed 0 # of sondes launched 37 # of bad sondes 1


08/28/2023, 16:38:05-25:02:39
18:18
17:45
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-87.2
-84.8
-82.4
-80.0
LatGPS.3 (deg)
LonGPS.3 (deg)