N49RF ERROR SUMMARY
20241007N1

Flight ID: 20241007N1

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.1
Differential Sideslip Pressure Probe	PDBETA.1
Dynamic Attack Pressure Probe	PQALPHA.1
Dynamic Sideslip Pressure Probe	PQBETA.1

Flight Directory acdata/2024/MET/20241007N1

Local Met Data Takeoff KLAL (0537Z) Landing KLAL (1237Z)

Dynamic Corrections	Yes
AttackAngleIntercept	4.95911
AttackAngleSlope	5.43613
SlipAngleIntercept	1.06
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.

PDALPHAref, PDBETAref, PQALPHAref, PQBETAref, and DPJ_WSZ are not provided since _BC file is not produced; all other "C" file parameters checked are from the _B file.
TTM.2 not operational.
.1 & .2 parameter data stair steps throughout mission
AltRa.1 & AltRa.c inop
PDBETA.1 inop
PQBETAs inop due to sensor removal
TDM.1 unrepresentative

Expendable Type	# deployed	# good	# transmitted
Dropsondes	34	34	34
Test sondes	0	0	0

AXBTs	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: KALEN / TIMMERS
Phone #: 863-500-3962

ACAT-4 Version = 7.4

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

FLIGHT INFORMATION			
FLT ID:	20241007N1	FLT #:	
From:	KLAL	ETD:	0530Z / 0130L
To:	KLAL	ETA:	1330Z / 0930L
Block Time		Flight Time	
Out:	05:26	T/O:	05:38
In:	12:43	Land:	12:37
Total:	7.3	Total:	7.0
Sponsoring Org:	NWS		
Program:	PHS		
Purpose:	HX MILTON TDR		

CREW MANIFEST		
AC:	Waddington	Other Crew:
CP(s):	Cozart	
NAV(s):		
FE(s):		
FD(s):	Kalen	
	Timmers	
SSA:	S. Paul	
IFT(s):	Kotz	
	Patel	
MX:		

MISSION INFORMATION				
sUAS		Dropsondes		
Type	Released	Good	Bad	Sent
		34	0	34
Other Expendables		Dropsonde Charge Codes		
Type	Released	nws		
		AXBTs		
		Good	Bad	Sent
Pennies				
Storm ID: (i.e., AL072012)		AL142024		
Mission ID: (i.e., NOAA2 2418A SANDY)		NOAA9 0614A MILTON		

AS REQUIRED BY ORM	Y	N
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		

REMARKS

OBSERVATIONS			
Fix Number	Obs Number	Fix Time	SLP
1			
2			
3			
4			

*Highlighted items must be completed before departure.

G-IV QC Checklist

Overall Assessment	Minor instrument issue(s) - no mission impact.

Flight ID:	20241007N1
Flight Director(s):	Kalen / Timmers
Mission:	Tasked/Operational
UWZ.d mean:	0.11

Pressure Comparison		
	Pre-flight	Post-flight
Aircraft	1008.0	1007.0
Airfield	1006.1	1005.1

This form uses:
_B.nc

Parameters	Raw				Derived, Corrected & Reference	
✓ Acceleration	✓ AccAXI.1	✓ AccAYI.1	✓ AccAZI.1	✓ AccZI.1	✓ AccZref	
	✓ AccAXI.2	✓ AccAYI.2	✓ AccAZI.2	✓ AccZI.2		
	✓ AccAXI.3	✓ AccAYI.3	✓ AccAZI.3	✓ AccZI.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		✓ GSZref	
	✓ GsXGPS.1	✓ GsYGPS.1	✓ GsZGPS.1			
	✓ GsXGPS.2	✓ GsYGPS.2	✓ GsZGPS.2			
✓ Location	✓ LatGPS.1	✓ LatI.1	✓ LonGPS.1	✓ LonI.1	✓ LATref	
	✓ LatGPS.2	✓ LatI.2	✓ LonGPS.2	✓ LonI.2	✓ LONref	
	✓ LatGPS.3	✓ LatI.3	✓ LonGPS.3	✓ LonI.3		
✓ Pressure Sensors	✓ PDALPHA.1	✓ PQALPHA.1	✓ PQM.1	✓ PSM.1	✓ PQMref	
	✓ PDALPHA.2	✓ PQALPHA.2	✓ PQM.2	✓ PSM.2	✓ PQ.c	
	x PDBETA.1	x PQBETA.1			✓ PSMref	
	✓ PDBETA.2	x PQBETA.2			✓ 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		
✓ Temperature / Dewpoint	✓ TTM.1	✓ TTM.4	x TDM.1		✓ TD.c	✓ TTMref
	x TTM.2		✓ TDM.2		✓ TDMref	✓ TA.d
	✓ TTM.3				✓ HUM	
✓ Wind					✓ UWZ.d	✓ WS.d
						✓ WD.d

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

QC Key:	
Valid	✓
Errors (see NOTES)	X
Sensor Inoperative	inop

NOTES:

PDALPHAref, PDBETAref, PQALPHAref, PQBETAref, and DPJ_WSZ are not provided since _BC file is not produced; all other "C" file parameters checked are from the _B file.

TTM.2 not operational.

.1 & .2 parameter data stair steps throughout mission

AltRa.1 & AltRa.c inop

PDBETA.1 inop

PQBETAs inop due to sensor removal

TDM.1 unrepresentative

AOC GPS Dropwindsonde Log (updated Mar 2019)

Flight ID: 20241007N1 ASPEN Operator/Flight Director(s): TIMMERS/KALEN

Mission ID: NOAA9 06MA Storm Name/Track: HURRICANE MILTON PG 1 of 1

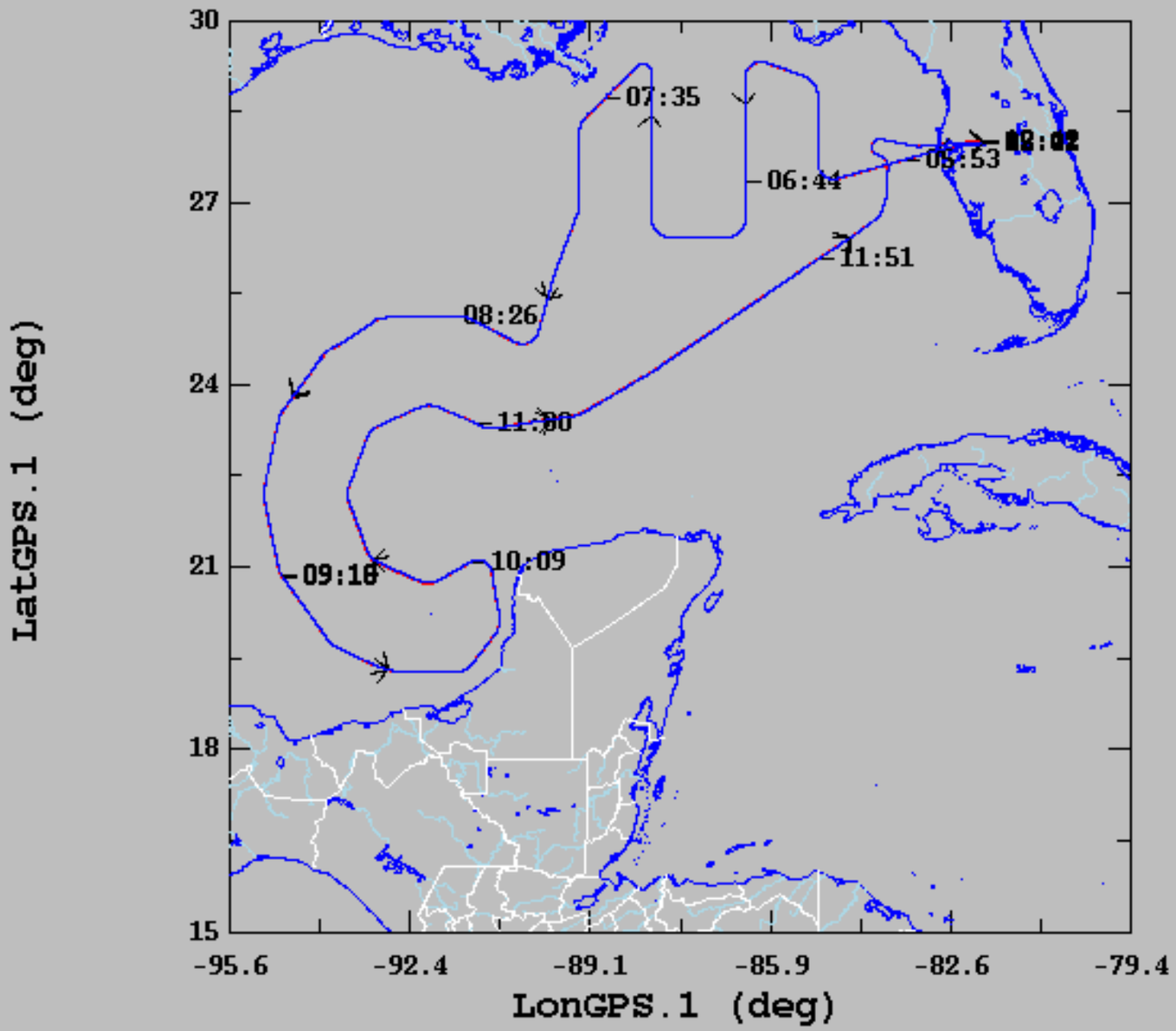
Sonde #	Ob #	Launch Time HHMMSS (Z)	Sonde ID (min last 5)	Ch # used	Lat (°N)	Lon (°E)	Prominent Wx Cond.	SFC Prs (mb)	Comments / Issues / QC / ASPEN Edits	KWBC #	Sonde Issues?
1	1	0605 29	10629	1	27.4	-84.9	—	1006.6	080/25	0627	✓✓
2	2	0618 34	10950	2	29.0	-85.1	—	1009.2	065/27	0636	✓✓
3	3	0628 15	41257	3	29.3	-86.2	—	1009.9	065/32	0649	✓✓
4	4	0639 06	31845	4	28.0	-86.3	—	1007.3	065/27	0656	✓✓
5	5	0651 27	40107	1	26.5	-86.4	—	1001.7	050/18	0709	✓✓
6	6	0704 00	33631	2	26.5	-90.0	—	1006.5	035/20	0722	✓✓
7	7	0716 41	40320	3	28.0	-88.0	—	1008.0	045/24	0733	✓✓
8	8	0727 27	40531	4	29.3	-88.1	—	1010.2	060/22	0753	✓✓
9	9	0740 54	40094	1	28.3	-89.3	—	1009.5	055/22	0802	✓✓
10	10	0752 34	51545	2	26.9	-89.3	—	1007.5	045/23	0813	✓✓
11	11	0802 48	20833	3	25.8	-87.9	—	1007.3	040/21	0832	✓✓
12	12	0813 29	31807	4	24.6	-90.1	—	1006.7	050/17	0834	✓✓
13	13	0823 17	14452	1	25.1	-91.4	—	1006.9	060/24	0853	✓✓
14	14	0833 46	20890	2	25.1	-92.7	—	1007.5	050/24	0855	✓✓
15	15	0844 37	40790	3	24.5	-93.68	—	1006.3	045/23	0903	✓✓
16	16	0855 39	20864	4	23.5	-94.7	—	1006.3	025/29	0923	✓✓
17	17	0906 42	50522	1	22.2	-95.0	—	1005.8	350/20	0930	✓✓
18	18	0917 32	24961	2	20.9	-94.7	—	1005.1	295/20	0941	✓✓
19	19	0928 14	40179	3	19.8	-93.9	—	1005.2	285/28	0946	✓✓
20	20	0939 04	67974	4	19.3	-92.7	—	1005.9	260/24	1000	✓✓
21	21	0949 57	51596	1	19.3	-91.3	—	1005.2	245/27	1020	✓✓
22	22	0957 33	50043	2	20.0	-90.7	—	1004.0	220/27	1022	✓✓
23	23	1007 09	50711	3	21.1	-91.0	—	1001.6	210/29	1025	✓✓
24	24	1015 50	40109	4	20.7	-92.0	—	999.8	220/28	1032	✓✓
25	25	1025 04	40775	1	21.2	-93.0	—	1000.1	290/36	1045	✓✓
26	26	1035 00	31808	2	22.2	-93.5	—	1001.6	360/29	1056	✓✓
27	27	1044 44	50037	3	23.3	-93.0	—	1003.1	035/36	1106	✓✓
28	28	1053 32	50704	4	23.7	-92.0	—	1003.6	055/30	1112	✓✓
29	29	1102 23	20863	1	23.3	-90.9	—	1004.5	060/26	1122	✓✓
30	30	1114 35	40038	2	23.5	-89.3	—	1005.6	010/12	1131	✓✓
31	31	112514	51104	3	24.2	-88.0	BKN	1005.1	295/06	1142	✓✓
32	32	113559	10568	4	24.9	-86.8	BKN	1003.7	255/10	1153	✓✓
33	33	114634	20790	1	25.7	-85.6	BKN	1003.4	285/08	1203	✓✓
34	34	115710	50045	2	26.5	-84.4	OVC	1004.1	085/19 /Last Report	1215	✓✓
35											
36											
37											
38											

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

COMMENTS:

34 Obs Xmitted | 0 Obs Missed | 34 # of sondes launched | 0 # of bad sondes

10/07/2024, 05:01:53-12:42:57



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	25.29	2.93	19.28	29.32
LonGPS.1 (deg), 1 s/sec	-88.38	4.08	-94.99	-81.97
LatI.1 (deg), 1 s/sec	25.28	2.93	19.28	29.31
LonI.1 (deg), 1 s/sec	-88.39	4.08	-95.00	-81.97