

N49RF ERROR SUMMARY
20241007N2

Flight ID: 20241007N2

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/2024/MET/20241007N2

Local Met Data	Takeoff KLAL (1721Z)	Landing KLAL (2319Z)
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 -----
Dropsondes	28	27	27
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 - Flight Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION					
FLT ID:	20241007N1	FLT #:		AC:	Varwig	Other Crew:	sUAS		Dropsondes			
From:	KLAL	ETD:		CP(s):	Pawklenko		Type	Released	Good	Bad	Sent	
To:	KLAL	ETA:							27	1	28	
Block Time		Flight Time		NAV(s):								
Out:	17:13	T/O:	17:22	FE(s):			Other Expendables		Dropsonde Charge Codes			
In:	23:25	Land:	23:19	FD(s):	Flaherty		Type	Released	AXBTs			
					de Solo				Good	Bad	Sent	
Total:	6.2	Total:	6.0	SSA:	Defeo							
				IFT(s):	Vargas							
					Hollis							
Sponsoring Org:	NWS						Pennies		-			
Program:	PHS						Storm ID: (i.e., AL072012)		AI142024			
Purpose:	HX Milton			MX:			Mission ID: (i.e., NOAA2 2418A SANDY)		NOAA9 0914A MILTON			
AS REQUIRED BY ORM			Y	N	REMARKS		OBSERVATIONS					
VOLCANIC ASH							Fix Number	Obs Number	Fix Time	SLP		
SCIENCE MISSION WITHIN BDRY LAYER							1					
LACK OF PRECIPITATION							2					
RELATIVE HUMIDITY ≥ 80%							3					
LARGE AIR-SEA TEMP GRADIENT							4					
HIGH SURFACE WINDS												
LONG FETCH / DURATION OF SFC WND												
SEA SALT ACCRETION FORECAST												
SEA SALT ACCRETION OBSERVED												
*Highlighted items must be completed before departure.												

G-IV QC Checklist

Overall Assessment	No instrument issues noted.
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Flight ID:	20241007N2
Flight Director(s):	Flaherty/de Solo
Mission:	Tasked/Operational
UWZ.d mean:	-0.13

Pressure Comparison		
	Pre-flight	Post-flight
Aircraft		
Airfield	1004.0	1003.0

This form uses:
_A.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	INOP 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	✓ LongGPS.1	✓ LonI.1		✓ LATref	
	✓ LatGPS.2	✓ LatI.2	✓ LongGPS.2	✓ LonI.2		✓ LONref	
	✓ LatGPS.3	✓ LatI.3	✓ LongGPS.3	✓ LonI.3			
✓ Pressure Sensors	✓ PDALPHA.1	✓ PQALPHA.1	✓ PQM.1	✓ PSM.1		✓ PQMref	
	✓ PDALPHA.2	✓ PQALPHA.2	✓ PQM.2	✓ PSM.2		✓ PQ.c	
	INOP PDBETA.1	✗ PQBETA.1				✓ PSMref	
	✓ PDBETA.2	✗ PQBETA.2				✓ PS.c	
✓ Air Speed	✓ CasADDU.1	✓ TasADDU.1				✓ IAS.d	✓ TAS.d
✓ Pitch / Roll	✓ PitchI.1	✓ PitchRatel.1	✓ RollI.1	✓ RollRatel.1		✓ PITCHref	
	✓ PitchI.2	✓ PitchRatel.2	✓ RollI.2	✓ RollRatel.2		✓ ROLLref	
	✓ PitchI.3	✓ PitchRatel.3	✓ RollI.3	✓ RollRatel.3			
✓ Temperature / Dewpoint	✓ TTM.1	✓ TTM.4	✗ TDM.1			✓ TD.c	✓ TTMref
	INOP 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)	✗
Sensor Inoperative	INOP

NOTES:
Flight level winds are removed due to known inconsistencies. PQBeta.1 and PQBeta.2 are inoperable due to use of spare radome.

AOC GPS Dropwindsonde Log (updated June 2023)

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

Mission ID: _____ Storm Name/Track: _____ 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?
1											
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9											
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38											

AVAPS Drop Log

Project: HX MILTON

Mission: P45

Flight ID: 20241007N2

Take Off: 1321 / 1721Z

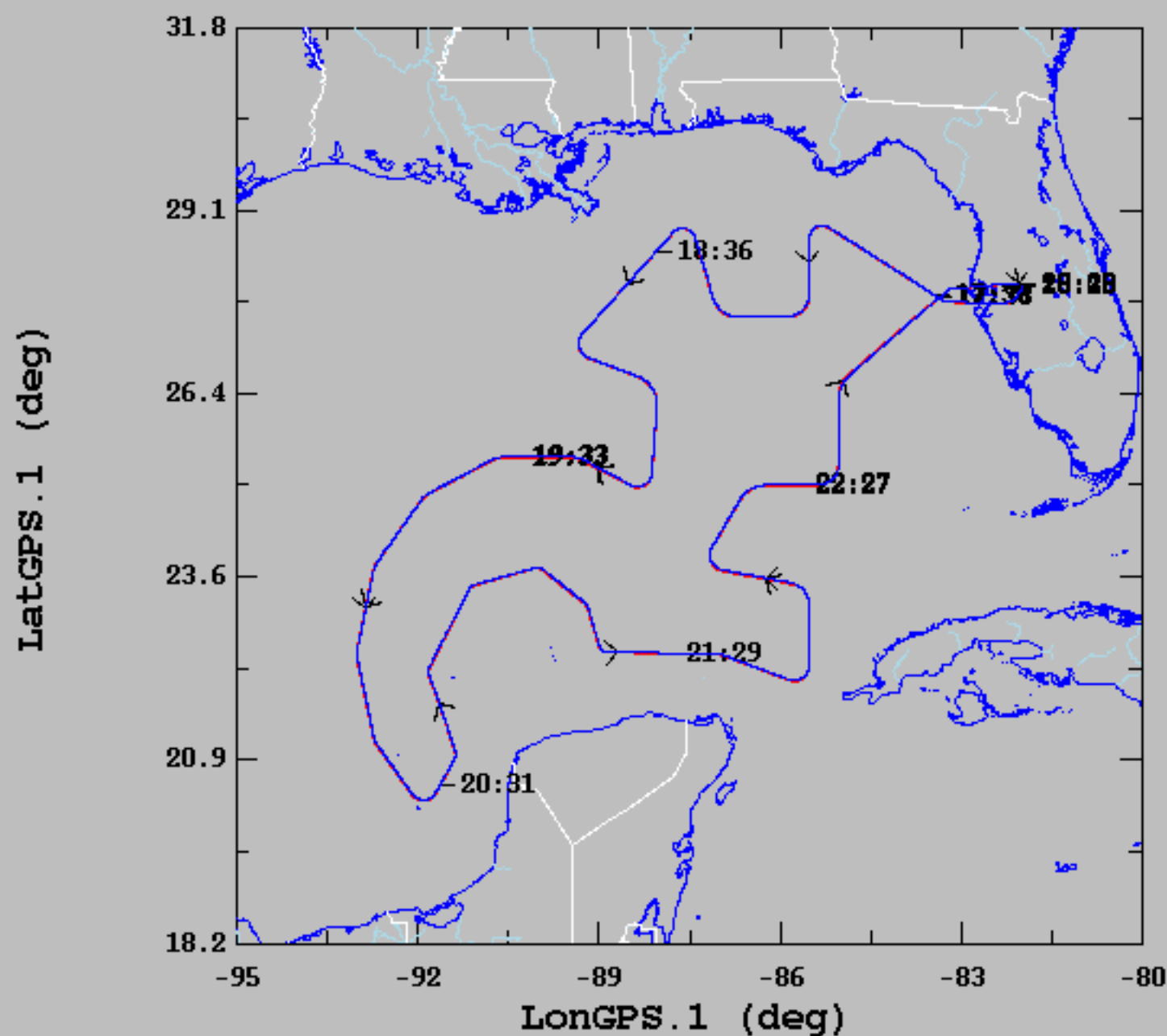
Landing: 1919

Flt Dir: Sofia

Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	233640849	1	-0.1	1756	DSH	NWS	ACS - NO	✓
2	232030848	2	0.0	1807	DSH			✓
3	233814453	3	-0.3	1819	DSH			✓
4	230650050	4	-0.4	1831	DSH			✓
5	233824685	1	-0.4	1841	DSH			✓
6	243150029	2	-0.4	1852	DSH			✓
7	233950714	3	-0.2	1902	DSH			✓
8	233950709	4	-0.1	1915	DSH			✓
9	234820917	1	-0.2	1925	DSH			✓
10	234830495	2	-0.3	1935	DSH			✓
11	233830537	3	-0.2	1946	DSH			✓
12	230740050	4	-0.1	1957	DSH			✓
13	233641241	1	-0.2	2008	DSH			✓
14	233814608	2	-0.1	2010	DSH			✓
15	233220903	3	-0.2	2029	DSH			✓
16	233221008	4	-0.2	2036	JV			✓
17	234830429	1	-0.4	2044	JV		Humidity? FD ^{LOST} SIGNAL	X
18	233830621	2	-0.2	2100	JV			✓
19	233667965	3	-0.5	2108	JV			✓
20	233220242	4	-0.4	2114	JV			✓
21	233640110	1	0.0	2121	JV			✓
22	233814456	2	-0.2	2136	JV			✓
23	233641240	3	-0.2	2147	JV			✓
24	225240098	4	-0.7	2158	JV			✓
25	232210134	1	-0.5	2212	JV			✓
26	230650670	2	-0.4	2222	JV			✓
27	234830543	3	-0.3	2232	JV			✓
28	234830503	4	-0.4	2244	JV			✓
29								
30								
31								

10/07/2024, 16:40:22-23:25:20



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	25.47	2.46	20.33	28.85
LongGPS.1 (deg), 1 s/sec	-87.12	3.45	-92.99	-81.97
LatI.1 (deg), 1 s/sec	25.46	2.46	20.31	28.84
LonI.1 (deg), 1 s/sec	-87.13	3.45	-93.00	-81.97