

N43RF ERROR SUMMARY
20241006I2

Flight ID: 20241006I2

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	AccZfilterI-GPS.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/20241006I2

Local Met Data	Takeoff KLAL (2109Z)	Landing KLAL (0419Z)
Dynamic Corrections		Yes
AttackAngleIntercept		0.179211
AttackAngleSlope		5.88163
SlipAngleIntercept		0.15
SlipAngleSlope		6.89472

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.

SFMR TB, WS SFMR, and RAIN RATE SFMR data should be used with caution as additional assessment occurs

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	16	15	15
Test sondes	0	0	0
AXBTs	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Zawislak
Phone #: 305-707-4359

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:	20241006I2	FLT #:	FY25-	AC:	Wood	Other Crew:	sUAS		Dropsondes		
From:	KLAL	ETD:	1600L / 2000Z	CP(s):	Keith	Kethryn Sellwood (HRD)	Type	Released	Good	Bad	Sent
To:	KLAL	ETA:	0000L / 0400Z		Ellis	Sim Aberson (HRD)			15	1	15
Block Time		Flight Time		NAV(s):	Meier	Susie Feliz (DOC VIP)					
Out:	20:59	T/O:	21:09	FE(s):	Tyson		Other Expendables		Dropsonde Charge Codes		
					Wysinger		Type	Released	16 NWS		
In:	04:27	Land:	04:19	FD(s):	Zawislak				AXBTs		
									Good	Bad	Sent
Total:	7.5	Total:	7.2	SSA:	Mascaro						
				IFT(s):	Dykeman						
Sponsoring Org:		NHC					Pennies		3 x CAT 1		
Program:		PRX		Storm ID: (i.e., AL072012)			AL142024				
Purpose:		TDR Mission		MX:			Mission ID: (i.e., NOAA2 2418A SANDY)		NOAA3 0414A MILTON		
AS REQUIRED BY ORM			Y	N	REMARKS		OBSERVATIONS				
VOLCANIC ASH				X	Feliz first pennies		Fix Number	Obs Number	Fix Time	SLP	
SCIENCE MISSION WITHIN BDRY LAYER				X			1	0B02	23:45:32 22.50N, 93.43W	982 mb 310 / 09 kt	
LACK OF PRECIPITATION				X							
RELATIVE HUMIDITY ≥ 80%			X				2	0B07	00:51:29 22.51N, 93.34W	981 mb 025 / 20 kt	
LARGE AIR-SEA TEMP GRADIENT				X							
HIGH SURFACE WINDS			X				3	0B16	01:57:19 22.48N, 93.29W	979 mb 080 / 12 kt	
LONG FETCH / DURATION OF SFC WND				X							
SEA SALT ACCRETION FORECAST				X			4				
SEA SALT ACCRETION OBSERVED											
*Highlighted items must be completed before departure.											

P-3 QC Checklist

Overall Assessment	Minor instrument issue(s) - no mission impact.
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Flight ID:	20241006I2
Flight Director(s):	Zawislak
Mission:	Tasked/Operational
UWZ.d mean:	0.11

Pressure Comparison		
	Pre-flight	Post-flight
Aircraft	1006.1	Not reported
Airfield	1006.4	1006.4

This form uses:
_A.nc

SFMR Serial Unit	1
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Parameters	Raw				Derived, Corrected & Reference	
✓ Acceleration	✓ AccAXI.1 ✓ AccAXI.2 ✓ AccAXI-GPS.1 ✓ AccAXI-GPS.2	✓ AccAYI.1 ✓ AccAYI.2 ✓ AccAYI-GPS.1 ✓ AccAYI-GPS.2	✓ AccAZI.1 ✓ AccAZI.2 ✓ AccAZI-GPS.1 ✓ AccAZI-GPS.2	✓ AccZfilter-GPS.1 ✓ AccZfilter-GPS.2	✓ AccZref	
✓ Altitude	✓ AltGPS.1 ✓ AltGPS.2 ✓ AltGPS.3 ✓ AltGPS.4	✓ AltI-GPS.1 ✓ AltI-GPS.2	✓ AltPaADDU.1 ✓ AltBCADDU.1	✓ AltRA.1 ✓ AltRA.2	✓ ALTref ✓ ALTPA.d ✓ ALTGA.d	✓ AltRA1.c ✓ AltRA2.c
✓ Ground Speed	✓ GsXI-GPS.1 ✓ GsXI-GPS.2	✓ GsYI-GPS.1 ✓ GsYI-GPS.2	✓ GsZI-GPS.1 ✓ GsZI-GPS.2		✓ GSXref ✓ GSYref ✓ GSZref	
✓ Location	✓ LatGPS.1 ✓ LatGPS.2 ✓ LatGPS.3 ✓ LatGPS.4	✓ LatI-GPS.1 ✓ LatI-GPS.2	✓ LonGPS.1 ✓ LonGPS.2 ✓ LonGPS.3 ✓ LonGPS.4	✓ LonI-GPS.1 ✓ LonI-GPS.2	✓ LATref ✓ LONref	
✓ Pressure Sensors	✓ PDALPHA.1 ✓ PDALPHA.2 ✓ PDBETA.1 ✓ PDBETA.2	✓ PQALPHA.1 ✓ PQBETA.1	✓ PQM.1 ✓ PQM.2 ✓ PQM.3 ✓ PQM.4	✓ PSM.1 ✓ PSM.2 ✓ PTM.1	✓ PQMref ✓ PQ.c ✓ PSMref ✓ PS.c	
✓ Air Speed	✓ CasADDU.1	✓ TasADDU.1	✓ IasADDU.1		✓ IAS.d ✓ TAS.d	
✓ Pitch / Roll	✓ PitchI.1 ✓ PitchI.2 inop PitchI.3	✓ PitchRatI.1 ✓ PitchRatI.2 inop PitchRatI.3	✓ RollI.1 ✓ RollI.2 inop RollI.3	✓ RollRatI.1 ✓ RollRatI.2 inop RollRatI.3	✓ PITCHref ✓ ROLLref	
✓ Temperature, Dewpoint, Radiometers	✓ TTM.1 ✓ TTM.2 inop TTM.3	✓ TDM.1 ✓ TDM.2 inop TDM.3	✓ TRadD.1 ✓ TRadS.1 inop TRadU.1		✓ TD.c ✓ TDMref ✓ HUM	✓ TTMref ✓ TA.d
✓ Wind and Pressure X SFMR	SFMR	X CH 1 TB X CH 2 TB X CH 3 TB	X CH 4 TB X CH 5 TB X CH 6 TB		✓ UWZ.d ✓ PSURF X WS SFMR	✓ WS.d ✓ WD.d X RAIN RATE SFMR

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:

SFMR TB, WS SFMR, and RAIN RATE SFMR data should be used with caution as additional assessment occurs

AVAPS Drop Log

Project: HX 2024

Mission: HX Milton

Flight ID: 20241006I2

Take Off: 2109Z

Landing: _____

Flt Dir: _____

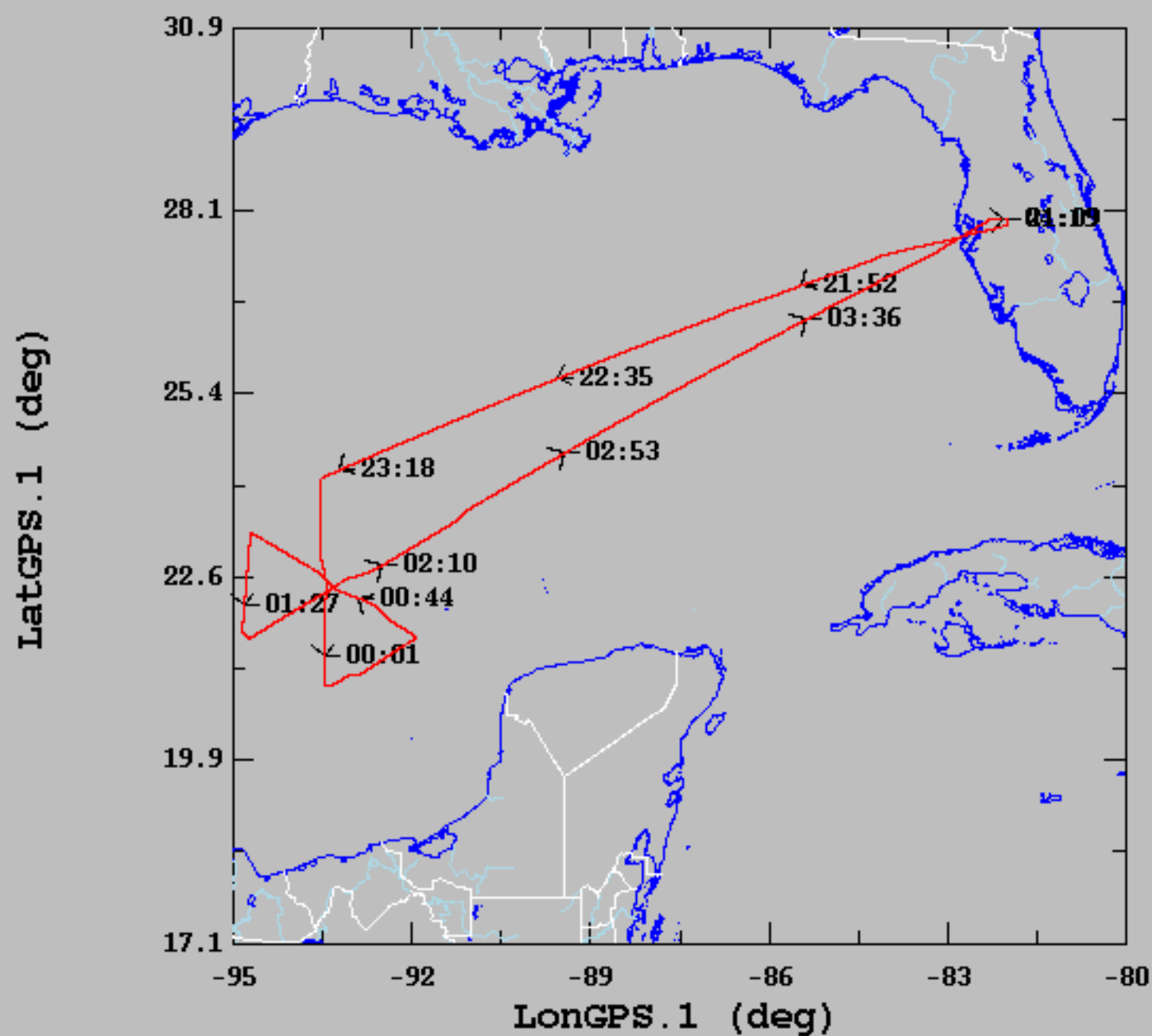
Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	234220107	1	-0.1	2322	RK	NWS	IP1	✓
2	234220709	2	-0.2	2335	RK	NWS	MP1	✓
3	233410952	3	Ø	2345	RK	NWS	CP	✓
4	233814454	4	-0.9	2355	RK		MP2	✓
5	233331510	5	-0.4	0008	RK		EPI	✓
6	233541331	10	-0.10	0029	RK		IP2	✓
7	233814632	1	-0.5	0039	RK		MP11	✓
8	233610125	2	-0.6	0051	RK		NO LD CP2-1	✗
9	23350163	3	-0.1	0052	RK		CP2-2	✓
10	233441223	4	-0.5	0101	RK		MP02	✓
11	233221002	5	-0.5	0112	RK		EP2	✓
12	233950569	6	-0.5	0134	RK		IP3	✓
13	233441223	1	-0.6	0148	RK		MP	✓
14	233650535	2	-0.6	0157	RK		CP3	✓
15	233950713	3	-0.4	0211	RK		MP	✓
16	233221006	4	-0.3	0225	RK		EP3	✓
17								
18								
19		1						
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								

no signal
ACS
ACS
ACS

- ACS needed a Reboot → No signal
ACS first
AVAPS Drop Log
rev: 2024-06-21

10/06/2024, 21:09:00-04:19:00



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	24.46	2.10	20.99	27.99
LongGPS.1 (deg), 1 s/sec	-89.85	3.98	-94.83	-81.97