

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

Expendable Type	# deployed	# good	# transmitted
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Dropsondes	4	4	0
Test sondes	0	0	0
AXBTs	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

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

ACAT-4 Version = 7.4

U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N42RF Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20240815H1	FLT #:	FY24-	AC:	Doremus	Scientists:	Pressure		Dropsondes		
From:	TBPB	ETD:	0700L / 1100Z	CP(s):	Palmer	Chang (NESDIS)	A/C Takeoff	1008.4	Good	Bad	Sent
To:	KLAL	ETA:	1300L / 1700Z		Reeves	Jelenak (NESDIS)			4	0	4
Block Time		Flight Time		NAV:	Miller / Meier	Sapp (NESDIS)	ASOS Takeoff	1007.9	BTs		
In:	17:37	Land:	17:04	FE(s):	Tyson / Wysinger			-	Good	Bad	Sent
Out:	10:53	T/O:	11:00	FD(s):	Zawislak		A/C Land		0	0	0
Total:	6.7	Total:	6.1	SSA:	Richards, T	Visitors:	ASOS Land	1009.8			
Sponsoring Org:	AOC			AVAPS:	Paul, S / Hollis		Storm Number ID:		AL052024		
Program:	PSM				Decker (MX)		(ie: AL072012)				
Purpose:	Transit to Lakeland with SFMR Validation in Ernesto			SEB:	Sans Souci (MX)		TCPOD/WSPOD Mission		NOAA2 WXWXA TRAIN		
				MX:	McGuire (MX)		(ie: NOAA2 2418A SANDY)				
AS REQUIRED BY ORM				Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					X		1	2455.28N / 6908.05W	14:16:25Z	extrap 975 mb	
SCIENCE MISSION WITHIN BDRY LAYER					X						
LACK OF PRECIPITATION					X						
RELATIVE HUMIDITY ≥ 80%				X							
LARGE AIR-SEA TEMP GRADIENT					X		2				
HIGH SURFACE WINDS				X							
LONG FETCH / DURATION OF SFC WND					X		3				
SEA SALT ACCRETION FORECAST					X						
SEA SALT ACCRETION OBSERVED					X		4				
							Pennies:	1 x HU (Cat1)			
							*Highlighted items must be completed before departure.				
Remarks:											

P-3 QC Checklist

Overall Assessment	Minor instrument issue(s) - minimal mission impact.
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Flight ID:	20240815H1
Flight Director(s):	Englert / Zawislak
Mission:	Non-tasked Science Collection/Research
UWZ.d mean:	0.14

Pressure Comparison		
	Pre-flight	Post-flight
Aircraft	1008.4	Not reported
Airfield	1007.9	1009.8

This form uses:	
_A.nc	

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

FLID_Mission_Documents.pdf:
<input checked="" type="checkbox"/> Error Summary
<input checked="" type="checkbox"/> Crew Manifest
<input checked="" type="checkbox"/> QC Checklist
<input checked="" type="checkbox"/> Dropwindsonde Log(s) - AVAPS and FD, if completed
<input checked="" type="checkbox"/> Flight Track

QC Key:	
Valid	<input checked="" type="checkbox"/>
Errors (see NOTES)	X
Sensor Inoperative	inop

NOTES:

PTM.1 is erroneous throughout the flight

TDM.1 (TDMref) experiences erroneous oscillations for much of the remainder of the flight beginning around 1305 UTC after experiencing an initial spike

At around 1600 UTC, TDM.1 essentially becomes inoperative; TDM.2 is overall the better behaving sensor throughout the flight

This oscillation also causes erroneous TD.c, TDMref, and HUM

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AVAPS Drop Log

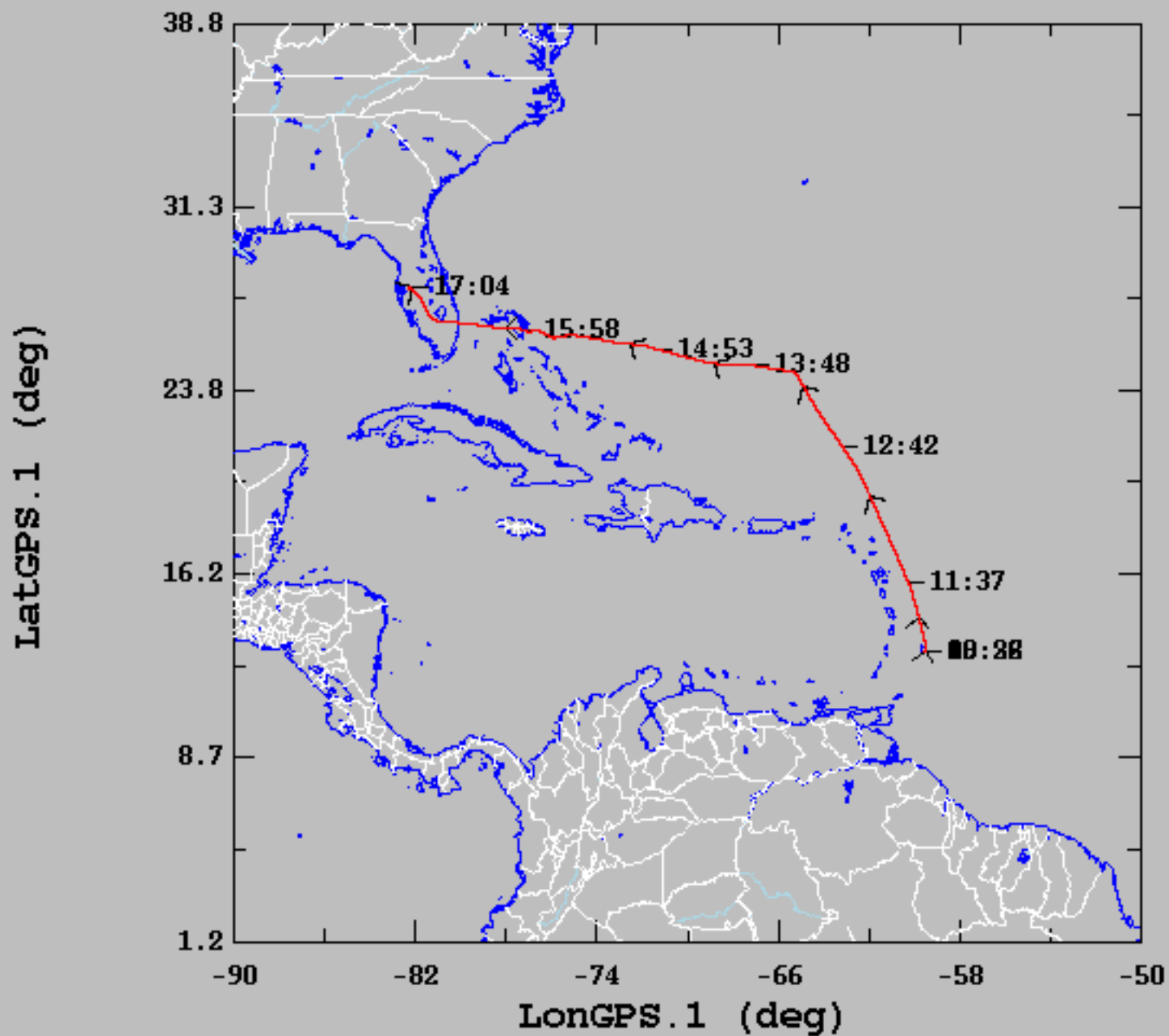
Project: HX 2M Mission: Enslv Flight ID: 20240815M

Take Off: _____ Landing: _____ Flt Dir: ENGL021/JZ Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	240530778	1	Ø	1350	SCP	Gomo	ACS	✓
2	233641233	2	-0.3	1356	SCP	AOC	ACS	✓
3	240650079	3	-0.1	1441	SCP	AOC	ACS	✓
4	240610523	4	-0.3	1457	SCP	AOC	ACS	✓
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Gomo
1441Z

08/15/2024, 09:26:56-17:04:01



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	21.10	5.39	13.07	27.99
— LonGPS.1 (deg), 1 s/sec	-67.12	7.40	-82.27	-59.40