

Expendable Type	# deployed	# good	# transmitted
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Dropsondes	3	3	0
Test sondes	0	0	0
AXBTs	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Zawislak / Englert
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:	20231108H1	FLT #:	FY24-	AC:	Doremus	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	0500L / 1000Z	CP(s):	Keith		A/C Takeoff	1012.9	Good	Bad	Sent
To:	KLAL	ETA:	0900L / 1400Z							3	0
Block Time		Flight Time		NAV:			ASOS Takeoff	1012.8	BTs		
Out:	9:41	T/O:	9:49	FE(s):	Wysinger		A/C Land		Good	Bad	Sent
In:	13:35	Land:	13:29	FD(s):	Zawislak		ASOS Land	1014.8	0	0	0
Total:	3.9	Total:	3.7		SSA:	McAlister			Visitors:		
Sponsoring Org:		AOC		SEB:			Storm Number ID:		N/A		
Program:		PSM					(ie: AL072012)				
Purpose:		SFMR Calibration		MX:			TCPOD/WSPOD Mission		NOAA2 WXWXA TRAIN		
						(ie: NOAA2 2418A SANDY)					
AS REQUIRED BY ORM				Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					x	10000 ft -- 4 (5 min legs)	1				
SCIENCE MISSION WITHIN BDRY LAYER					x	5000 ft -- 2 (5 min legs)					
LACK OF PRECIPITATION				x		1500 ft -- 2 (5 min legs)	2				
RELATIVE HUMIDITY ≥ 80%					x	20000 ft -- 3 (5 min legs)					
LARGE AIR-SEA TEMP GRADIENT					x	15000 ft -- 2 (5 min legs)	3				
HIGH SURFACE WINDS					x	10000 ft -- 2 (5 min legs)					
LONG FETCH / DURATION OF SFC WND					x		4				
SEA SALT ACCRETION FORECAST					x						
SEA SALT ACCRETION OBSERVED					x		Pennies:				
*Highlighted items must be completed before departure.											
Remarks:	Shallow scattered cloud layer below aircraft for 10 kft legs for first 4 legs, so repeated 10 kft at end of cal flight with clear below										
	Some RFI during 20 kft legs (3rd leg had less RFI), with also a few potential RFI spikes during the 15 kft legs										
	Surface winds in sondes were ~5-9 kt										

P-3 QC Checklist

Overall Assessment	Minor instrument issue(s) - minimal mission impact.
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Flight ID:	20231108H1
Flight Director(s):	Zawislak / Englert
Mission:	Equipment Checkout
UWZ.d mean:	0.04

Pressure Comparison		
	T/O	Land
Aircraft	1012.9	No good measurement
Tower	1012.8	1014.8

	Raw 1Hz Mean File Parameters				C File Parameters	
✓ Accelerometer	✓ 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	
✓ Lat / Lon	✓ 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	✓ 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	X PDLAPHAref X PDBETAref X PQALPHAref X PQBETAref	✓ PQMref ✓ PQ.c ✓ PSMref ✓ PS.c
✓ Air Speed	✓ CasADDU.1	✓ TasADDU.1	✓ IasADDU.1		✓ IAS.d	✓ TAS.d
✓ Pitch / Roll	✓ PitchI.1 ✓ PitchI.2 X PitchI.3	✓ PitchRatel.1 ✓ PitchRatel.2 X PitchRatel.3	✓ RollI.1 ✓ RollI.2 X RollI.3	✓ RollRatel.1 ✓ RollRatel.2 X RollRatel.3	✓ PITCHref ✓ ROLLref	
✓ Temp / Dewpt	✓ TTM.1 ✓ TTM.2 X TTM.3	X TDM.1 ✓ TDM.2 X TDM.3	✓ TRadD.1 ✓ TRadS.1 X TRadU.1		✓ TD.c ✓ TDMref	✓ TTMref ✓ TA.d
✓ Misc. (Must check)					✓ UWZ.d X DPJ_WSZ ✓ HUM	✓ WS.d ✓ WD.d

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	<input type="checkbox"/>
Valid	<input checked="" type="checkbox"/>
Errors (note)	X

NOTES:
<p>I.3 for Pitch and Roll is not operational</p> <p>TTM.3 is not operational</p> <p>TRadU.1 is not operational</p> <p>TDM.1 deviates from TDM.2 several degrees lower frequently during the legs at 10 kft and above, and then reports erroneously beginning at 1225 UTC for the remainder of the flight</p> <p>TDM.2, TD.c, and HUM values from takeoff through the 10 kft legs until 1051 UTC should be used with caution; appears erroneously low</p> <p>Overall, TDM.2 is the better (consistently) behaving sensor and TDMref is set to TDM.2; TDM.3 has erroneous data throughout the flight and should not be used</p> <p>PDALPHAref, PDBETAref, PQALPHAref, PQBETAref, and DPJ_WSZ are not provided since _AC file is not produced; all other 'C' file parameters checked are from the _A file</p>

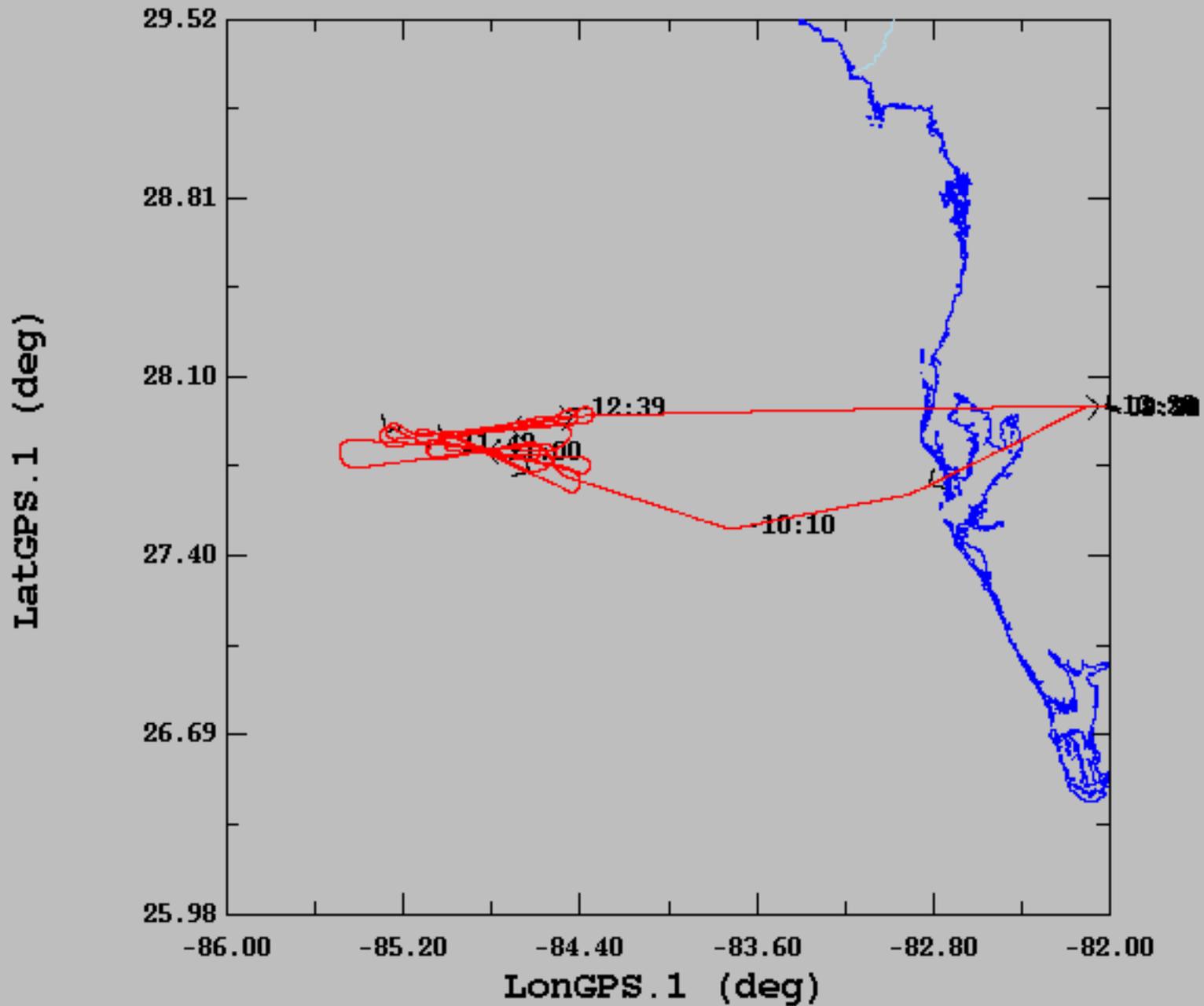
AVAPS Drop Log

Project: SFMR CAL Mission: _____ Flight ID: 20231108H1

Take Off: 0949Z Landing: _____ Flt Dir: JZ Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	221950518	1	-1.2	1025	LW	AOC		✓
2	220950327	2	-1.8	1151	LW	AOC		✓
3	220910353	3	-1.5	1245	LW	AOC		✓
4								
5								
6								
7								
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11/08/2023, 08:31:06-13:28:55



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	27.87	0.11	27.50	27.99
— LongGPS.1 (deg), 1 s/sec	-83.75	1.26	-85.49	-82.01