

N43RF ERROR SUMMARY
20231021I1

Flight ID: 20231021I1

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/2023/MET/20231021I1

Local Met Data	Takeoff TBPB (0951Z)	Landing TBPB (1747Z)
Dynamic Corrections		Yes
AttackAngleIntercept		0.050058
AttackAngleSlope		5.32015
SlipAngleIntercept		0.165
SlipAngleSlope		6.66754

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.

I.3 for Pitch and Roll is not operational

TTM.3 is not operational

TRadU.1 has erroneous data throughout the flight and should not be used
TDM.1 and TDM.2 (so, also TDMref) spikes between 1558 and 1603 UTC after the stratiform spiral, but otherwise tracks well with one another;

overall, both checked good

TDM.3 has erroneous data throughout the flight and should not be used
PDALPHArefer, PDBETArefer, PQALPHArefer, PQBETArefer, and DPJ_WSZ are not provided since _AC file is not produced; all other 'C' file parameters checked are from the _A file

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	28	28	28
Test sondes	0	0	0
AXBTs	2	2	2
AXCPs	0	0	0
AXCTDs	0	0	0

UAS

0

0

0

Flight Director: Zawislak / Lundry

Phone #: 305-707-4359

ACAT-4 Version = 7.4

U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N43RF Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	2023102111	FLT #:	FY24-	AC:	Doremus	Scientists:	Pressure		Dropsondes		
From:	TBPB	ETD:	0530L / 0930Z	CP(s):	Wood	Frank Marks (HRD)	A/C Takeoff	1002.9	Good	Bad	Sent
To:	TBPB	ETA:	1330L / 1730Z		Keith	Jun Zhang (HRD)			28	0	28
Block Time		Flight Time		NAV:	Miller		ASOS Takeoff	1003.9	BTs		
Out:	9:22	T/O:	9:52	FE(s):	Tyson		A/C Land			Good	Bad
In:	17:51	Land:	17:47	FD(s):	Zawislak		ASOS Land	1002.9	2	0	2
Total:	8.5	Total:	7.9	SSA:	Richards		Visitors:				
Sponsoring Org:		HX - NHC/EMC			SEB:		Storm Number ID:		AL202023		
Program:		PRX					(ie: AL072012)				
Purpose:		TDR Mission + HRD Modules				MX:		TCPOD/WSPOD Mission		NOAA3 0920A TAMMY	
							(ie: NOAA2 2418A SANDY)				
AS REQUIRED BY ORM				Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					x		1				
SCIENCE MISSION WITHIN BDRY LAYER					x						
LACK OF PRECIPITATION					x		2				
RELATIVE HUMIDITY ≥ 80%				x							
LARGE AIR-SEA TEMP GRADIENT					x		3				
HIGH SURFACE WINDS				x							
LONG FETCH / DURATION OF SFC WND				x			4				
SEA SALT ACCRETION FORECAST					x						
SEA SALT ACCRETION OBSERVED					x		Pennies:	6 x CAT 1			

*Highlighted items must be completed before departure.

Remarks:

P-3 QC Checklist

Overall Assessment	No instrument issues noted.
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Flight ID:	20231021I1
Flight Director(s):	Zawislak / Lundry
Mission:	Tasked/Operational
UWZ.d mean:	-0.04

Pressure Comparison		
	T/O	Land
Aircraft	1002.9	No good measurement
Tower	1003.9	1002.9

	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	✓ 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:

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TDM.3 has erroneous data throughout the flight and should not be used

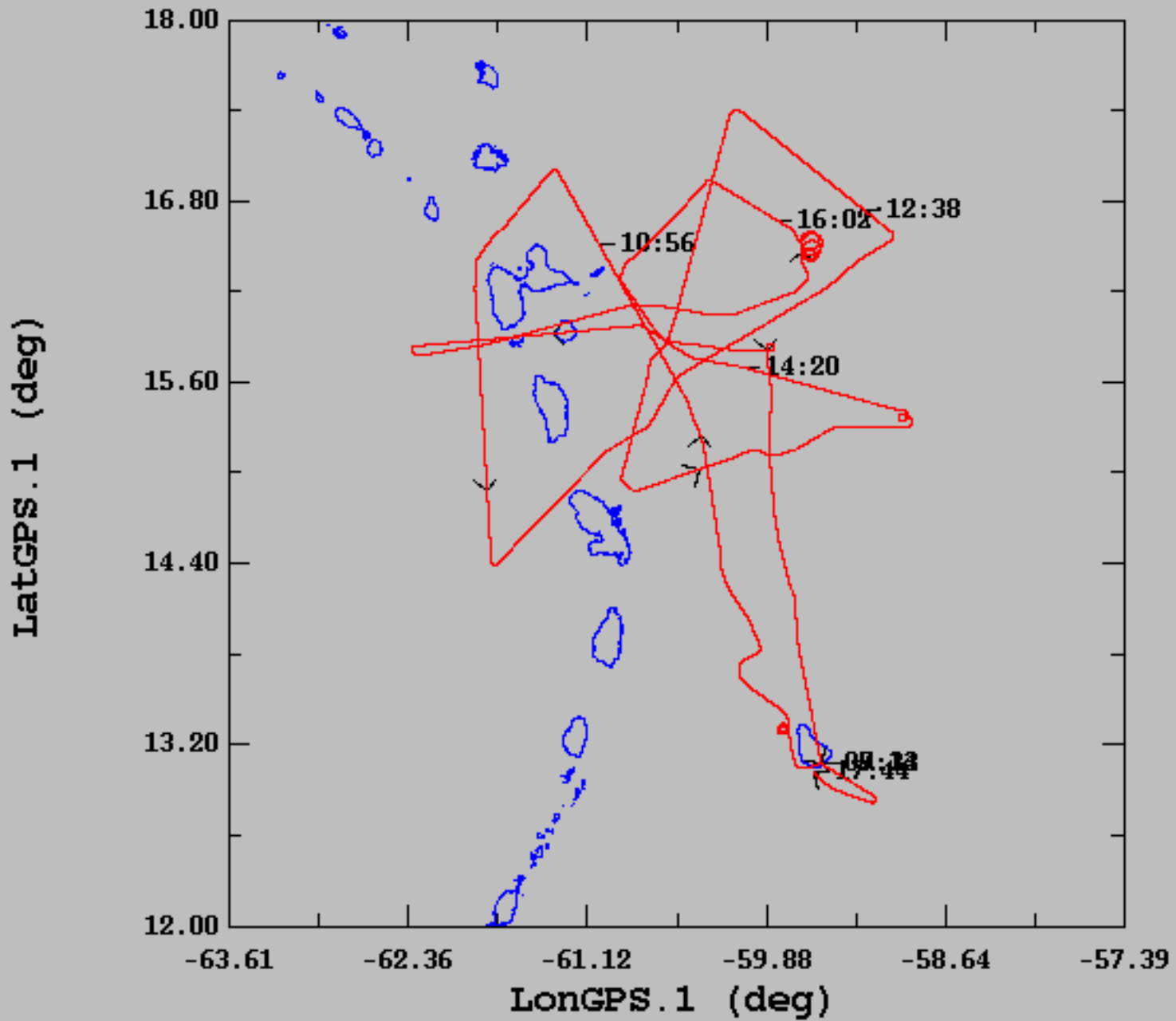
PDALPHaref, PDBETAref, PQALPHaref, PQBETAref, and DPJ_WSZ are not provided since _AC file is not produced; all other 'C' file parameters checked are from the _A file

AVAPS Drop Log

Project: TAMMY Mission: 3 Flight ID: 21 31021T2
Take Off: 0952Z Landing: Flt Dir: Launcher S/N:

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	221750526	1	-0.9	1015	LW	NWS	IP1 COMBO	✓
2	222520309	2	-0.2	1027	LW	NWS	MP LATE WINDS	✓
3	221950419	3	-1.4	1039	LW	NWS	CTR	✓
4	220430728	4	-1.4	1041	LW	ONR	RMW	✓
5	222010845	5	-1.3	1052	LW	NWS	MP	✓
6	222010844	6	-1.2	1104	LW	NWS	EP1 COMBO	✓
7	221930428	7	-1.1	1145	LW	NWS	IP2	✓
8	221740653	8	-1.1	1200	LW	NWS	MP	✓
9	221950417	1	-0.9	1207	LW	ONR	RMW	✓
10	221950414	2	-0.7	1209	LW	NWS	CTR	✓
11	222030365	3	-0.7	1213	LW	ONR	RMW	✓
12	221810041	4	-1.1	1222	LW	NWS	MP	✓
13	221810097	5	-0.9	1235	LW	NWS	EP2	✓
14	222030352	6	-1.1	1254	LW	NWS	IP3	✓
15	221740808	7	-0.8	1305	LW	NWS	MP LATE WINDS	✓
16	222010842	8	-0.8	1315	LW	ONR	RMW	✓
17	221930078	1	-0.8	1319	LW	NWS	CTR	✓
18	221950517	2	-0.6	1322	LW	ONR	RMW	✓
19	221950398	3	-0.9	1331	LW	NWS	MP	✓
20	221430163	4	-0.6	1406	ASP	NWS	IP4	✓
21	222021291	5	-1.2	1418	ASP	NWS	MP	✓
22	222050536	6	-1.2	1426	ASP	ONR	RMW	✓
23	221430174	7	-0.8	1429	ASP	ONR	RMW	✓
24	221740821	8	-1.0	1432	ASP	NWS	CTR	✓
25	221740664	1	-1.0	1436	ASP	NWS	RMW/MP	✓
26	221740662	2	-1.0	1454	ASP	NWS	EP4	✓
27	221830686	3	-1.0	1548	ASP	ONR	Spiral	✓
28	221950420	4	-0.7	1610	ASP	ONR		
29								
30								
31								

10/21/2023, 07:33:01-17:44:49



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	14.97	1.38	12.81	17.41
— LongGPS.1 (deg), 1 s/sec	-60.16	0.81	-62.34	-58.86