

N43RF ERROR SUMMARY  
20240812I1\_ES

Flight ID: 20240812I1

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.1
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/20240812I1

Local Met Data	Takeoff TBPB (1001Z)	Landing TBPB (1723Z)
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.

Pitch and Roll I.3, TTM.3, TDM.3, and TRadU.1 not operational.  
SFMR data (all channel TB, WS, RAIN RATE) under assessment and should be used with caution.

Expendable Type	# deployed	# good	# transmitted
Dropsondes	0	0	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 #: 863-606-6847

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:	2024081211	FLT #:		AC:	Doremus	Scientists:	Pressure		Dropsondes		
From:	TBPB	ETD:	0545L / 0945Z	CP(s):	Palmer		A/C Takeoff		Good	Bad	Sent
To:	TBPB	ETA:	1100L / 1500Z		Reeves				0	0	0
Block Time		Flight Time		NAV:	Miller / Meier	ASOS Takeoff		BTs			
In:	16:30	Land:	16:26	FE(s):	Tyson / Wysinger			Good	Bad	Sent	
Out:	9:54	T/O:	10:01	FD(s):	Zawislak	A/C Land					
Total:	6.6	Total:	6.4		SSA:						Richards, T
				Sponsoring Org:	NWS			SEB:	Storm Number ID:		PTC5
Program:	PRX			AVAPS:	Paul, S / Hollis	(ie: AL072012)					
Purpose:	INVEST PTC5			MX:		TCPOD/WSP0D Mission			NOAA3 0105A INVEST		
						(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			2			
LACK OF PRECIPITATION				X			3				
RELATIVE HUMIDITY ≥ 80%				X				4			
LARGE AIR-SEA TEMP GRADIENT					X		Pennies:				
HIGH SURFACE WINDS					X						
LONG FETCH / DURATION OF SFC WND					X						
SEA SALT ACCRETION FORECAST					X						
SEA SALT ACCRETION OBSERVED					X						
						*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:	2024081211
Flight Director(s):	Englert/Zawislak
Mission:	Tasked/Operational
UWZ.d mean:	-0.07

Pressure Comparison		
	Pre-flight	Post-flight
Aircraft	1005.7	-
Airfield	1005.9	1005.9

This form uses:	
_A.nc	

SFMR Serial Unit	2
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Parameters	Raw				Derived, Corrected & Reference	
<input checked="" type="checkbox"/> Acceleration	<input checked="" type="checkbox"/> AccAXI.1	<input checked="" type="checkbox"/> AccAYI.1	<input checked="" type="checkbox"/> AccAZI.1	<input checked="" type="checkbox"/> AccZfilter-GPS.1	<input checked="" type="checkbox"/> AccZref	
	<input checked="" type="checkbox"/> AccAXI.2	<input checked="" type="checkbox"/> AccAYI.2	<input checked="" type="checkbox"/> AccAZI.2	<input checked="" type="checkbox"/> AccZfilter-GPS.2		
	<input checked="" type="checkbox"/> AccAXI-GPS.1	<input checked="" type="checkbox"/> AccAYI-GPS.1	<input checked="" type="checkbox"/> AccAZI-GPS.1			
	<input checked="" type="checkbox"/> AccAXI-GPS.2	<input checked="" type="checkbox"/> AccAYI-GPS.2	<input checked="" type="checkbox"/> AccAZI-GPS.2			
<input checked="" type="checkbox"/> Altitude	<input checked="" type="checkbox"/> AltGPS.1	<input checked="" type="checkbox"/> AltI-GPS.1	<input checked="" type="checkbox"/> AltPaADDU.1	<input checked="" type="checkbox"/> AltRA.1	<input checked="" type="checkbox"/> ALTref	<input checked="" type="checkbox"/> AltRA1.c
	<input checked="" type="checkbox"/> AltGPS.2	<input checked="" type="checkbox"/> AltI-GPS.2	<input checked="" type="checkbox"/> AltBCADDU.1	<input checked="" type="checkbox"/> AltRA.2	<input checked="" type="checkbox"/> ALTPA.d	<input checked="" type="checkbox"/> AltRA2.c
	<input checked="" type="checkbox"/> AltGPS.3				<input checked="" type="checkbox"/> ALTGA.d	
	<input checked="" type="checkbox"/> AltGPS.4					
<input checked="" type="checkbox"/> Ground Speed	<input checked="" type="checkbox"/> GsXI-GPS.1	<input checked="" type="checkbox"/> GsYI-GPS.1	<input checked="" type="checkbox"/> GsZI-GPS.1		<input checked="" type="checkbox"/> GSXref	
	<input checked="" type="checkbox"/> GsXI-GPS.2	<input checked="" type="checkbox"/> GsYI-GPS.2	<input checked="" type="checkbox"/> GsZI-GPS.2		<input checked="" type="checkbox"/> GSYref	
<input checked="" type="checkbox"/> Location	<input checked="" type="checkbox"/> LatGPS.1	<input checked="" type="checkbox"/> LatI-GPS.1	<input checked="" type="checkbox"/> LonGPS.1	<input checked="" type="checkbox"/> LonI-GPS.1	<input checked="" type="checkbox"/> LATref	
	<input checked="" type="checkbox"/> LatGPS.2	<input checked="" type="checkbox"/> LatI-GPS.2	<input checked="" type="checkbox"/> LonGPS.2	<input checked="" type="checkbox"/> LonI-GPS.2	<input checked="" type="checkbox"/> LONref	
	<input checked="" type="checkbox"/> LatGPS.3		<input checked="" type="checkbox"/> LonGPS.3			
	<input checked="" type="checkbox"/> LatGPS.4		<input checked="" type="checkbox"/> LonGPS.4			
<input checked="" type="checkbox"/> Pressure Sensors	<input checked="" type="checkbox"/> PDALPHA.1	<input checked="" type="checkbox"/> PQALPHA.1	<input checked="" type="checkbox"/> PQM.1	<input checked="" type="checkbox"/> PSM.1	<input checked="" type="checkbox"/> PQMref	
	<input checked="" type="checkbox"/> PDALPHA.2	<input checked="" type="checkbox"/> PQBETA.1	<input checked="" type="checkbox"/> PQM.2	<input checked="" type="checkbox"/> PSM.2	<input checked="" type="checkbox"/> PQ.c	
	<input checked="" type="checkbox"/> PDBETA.1		<input checked="" type="checkbox"/> PQM.3	<input checked="" type="checkbox"/> PTM.1	<input checked="" type="checkbox"/> PSMref	
	<input checked="" type="checkbox"/> PDBETA.2		<input checked="" type="checkbox"/> PQM.4		<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"/> PitchRatel.1	<input checked="" type="checkbox"/> RollI.1	<input checked="" type="checkbox"/> RollRatel.1	<input checked="" type="checkbox"/> PITCHref	
	<input checked="" type="checkbox"/> PitchI.2	<input checked="" type="checkbox"/> PitchRatel.2	<input checked="" type="checkbox"/> RollI.2	<input checked="" type="checkbox"/> RollRatel.2	<input checked="" type="checkbox"/> ROLLref	
	<span style="color: blue;">inop</span> PitchI.3	<span style="color: blue;">inop</span> PitchRatel.3	<span style="color: blue;">inop</span> RollI.3	<span style="color: blue;">inop</span> RollRatel.3		
<input checked="" type="checkbox"/> Temperature, Dewpoint, Radiometers	<input checked="" type="checkbox"/> TTM.1	<input checked="" type="checkbox"/> TDM.1	<input checked="" type="checkbox"/> TRadD.1		<input checked="" type="checkbox"/> TD.c	<input checked="" type="checkbox"/> TTMref
	<input checked="" type="checkbox"/> TTM.2	<input checked="" type="checkbox"/> TDM.2	<input checked="" type="checkbox"/> TRadS.1		<input checked="" type="checkbox"/> TDMref	<input checked="" type="checkbox"/> TA.d
	<span style="color: blue;">inop</span> TTM.3	<span style="color: blue;">inop</span> TDM.3	<span style="color: blue;">inop</span> TRadU.1		<input checked="" type="checkbox"/> HUM	
<input checked="" type="checkbox"/> Wind and Pressure		<span style="color: red;">X</span> CH 1 TB	<span style="color: red;">X</span> CH 4 TB		<input checked="" type="checkbox"/> UWZ.d	<input checked="" type="checkbox"/> WS.d
<input checked="" type="checkbox"/> SFMR	SFMR	<span style="color: red;">X</span> CH 2 TB	<span style="color: red;">X</span> CH 5 TB		<input checked="" type="checkbox"/> PSURF	<input checked="" type="checkbox"/> WD.d
		<span style="color: red;">X</span> CH 3 TB	<span style="color: red;">X</span> CH 6 TB		<span style="color: red;">X</span> WS SFMR	<span style="color: red;">X</span> RAIN RATE SFMR

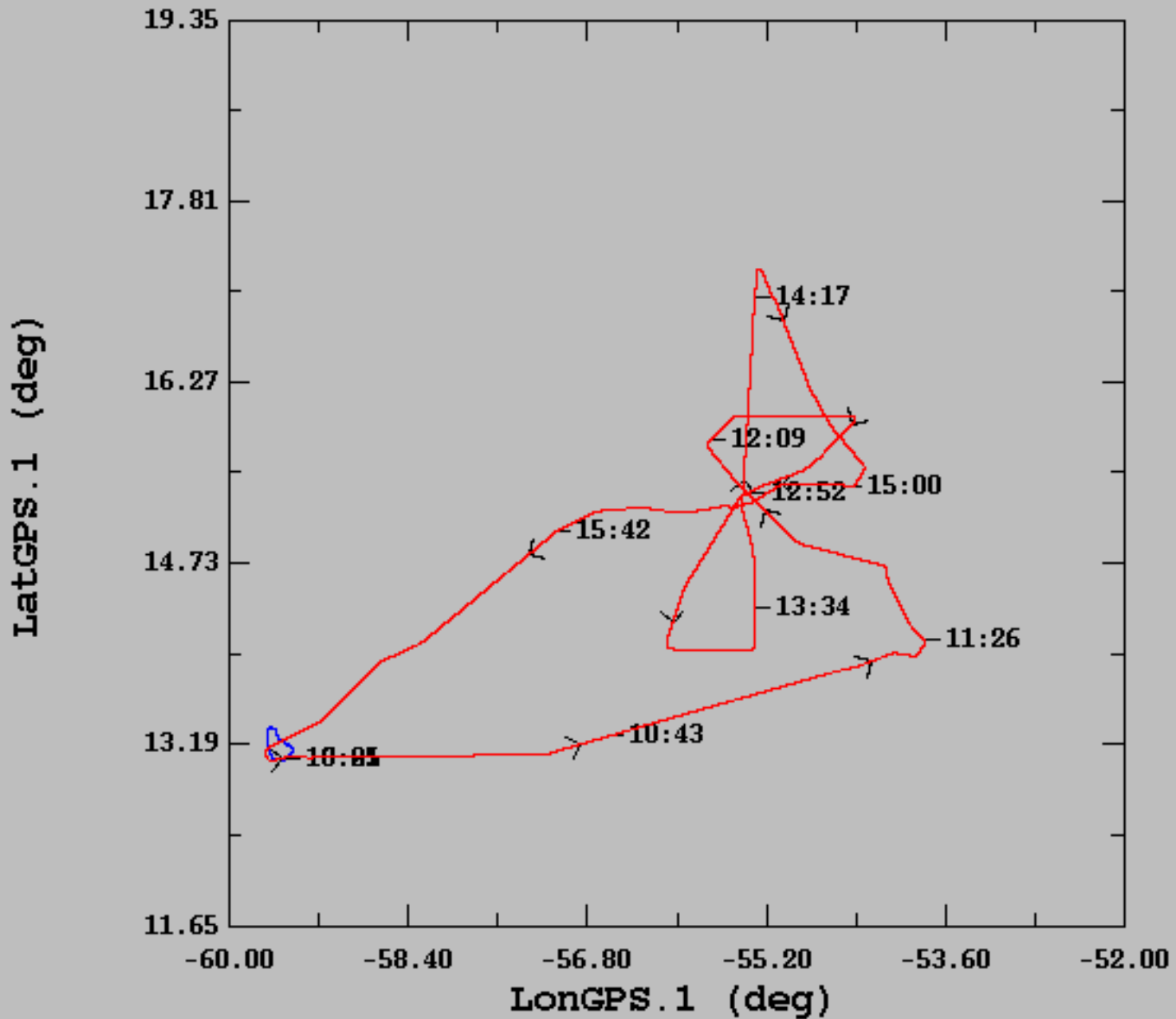
FLID_Mission_Documents.pdf:	
<input checked="" type="checkbox"/>	Error Summary
<input checked="" type="checkbox"/>	Crew Manifest
<input checked="" type="checkbox"/>	QC Checklist
<input type="checkbox"/>	Dropwindsonde Log(s) - AVAPS and FD, if completed
<input checked="" type="checkbox"/>	Flight Track

QC Key:	
Valid	<input checked="" type="checkbox"/>
Errors (see NOTES)	<span style="color: red;">X</span>
Sensor Inoperative	<span style="color: blue;">inop</span>

### NOTES:

Pitch and Roll I.3, TTM.3, TDM.3, and TRadU.1 not operational.  
 SFMR data (all channel TB, WS, RAIN RATE) under assessment and should be used with caution.

08/12/2024, 10:01:07-16:25:43



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	14.79	1.12	13.05	17.23
— LonGPS.1 (deg), 1 s/sec	-55.90	1.45	-59.67	-53.78