

N43RF ERROR SUMMARY
20230222I1

Flight ID: 20230222I1

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.1
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/20230222I1

Local Met Data	Takeoff PANC (1805Z)	Landing PANC (0000Z)
Dynamic Corrections		Yes
AttackAngleIntercept		0.126754
AttackAngleSlope		5.36078
SlipAngleIntercept		0.2
SlipAngleSlope		6.67769

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.

Intermittent failures PDAlpha.2 and PDBeta.2 periodically unrepresentative. Possible due to icing. PQM.1 and PQM.4 unreliable. PSM.1 and PSM.2 exhibit 10-20 mb difference. PTM.1 failed. TRadU.1 inoperative.

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: Carpenter / Zawislak

Phone #: 863-500-3901

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:	20230222I1	FLT #:	23-	AC:	Rannenberg	Scientists:	Pressure		Dropsondes		
From:	PANC	ETD:	0900L / 1800Z	CP(s):	Keith	Chang, Paul	A/C Takeoff	1027.1 mb	Good	Bad	Sent
To:	PANC	ETA:	1500L / 0000Z		Palmer	Sapp, Joe			0	0	0
Block Time		Flight Time		NAV:	Miller	Jelenak, Zorana	ASOS Takeoff	PANC 1753Z 1026.4 mb	BTs		
In:	0:11	Land:	0:03	FE(s):	Darby		A/C Land	N/A	Good	Bad	Sent
Out:	17:57	T/O:	18:06	FD(s):	Carpenter		ASOS Land	PANC 2353Z 1024.4 mb	0	0	0
Total:	6.2	Total:	6.0	SSA:	Richards	Visitors:	Storm Number ID:		N/A		
Sponsoring Org:		NESDIS		AVAPS:	Mascaro		(ie: AL072012)				
Program:		PED		SEB:			TCP0D/WSP0D Mission		NOAA3 WXWXC OCEANWINDS01		
Purpose:		OCEANWINDS01		MX:			(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:	N/A			
						*Highlighted items must be completed before departure.					
Remarks:											

P-3 QC Checklist

Overall Assessment	Major instrument issue(s) - significant mission impact.
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Flight ID:	2023022211	Pressure Comparison		
Flight Director(s):	Carpenter / Zawislak		T/O	Land
Mission:	Non-tasked Science Collection/Research	Aircraft	1027.1	N/A
UWZ.d mean:	0.11	Tower	PANC 1753Z 1026.4 mb	PANC 2353Z 1024.4 mb

	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	✓ PDLAPHAref ✓ PDBETAref ✓ PQALPHAref ✓ 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 ✗ PitchI.3	✓ PitchRatel.1 ✓ PitchRatel.2 ✗ PitchRatel.3	✓ RollI.1 ✓ RollI.2 ✗ RollI.3	✓ RollRatel.1 ✓ RollRatel.2 ✗ RollRatel.3	✓ PITCHref ✓ ROLLref	
✓ Temp / Dewpt	✓ TTM.1 ✓ TTM.2 ✗ TTM.3	✓ TDM.1 ✓ TDM.2 ✗ TDM.3	✓ TRadD.1 ✓ TRadS.1 ✗ TRadU.1		✓ TD.c ✓ TDMref	✓ TTMref ✓ TA.d
✓ Misc. (Must check)					✓ UWZ.d ✓ 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	☐
Valid	☒
Errors (note)	✗

NOTES:

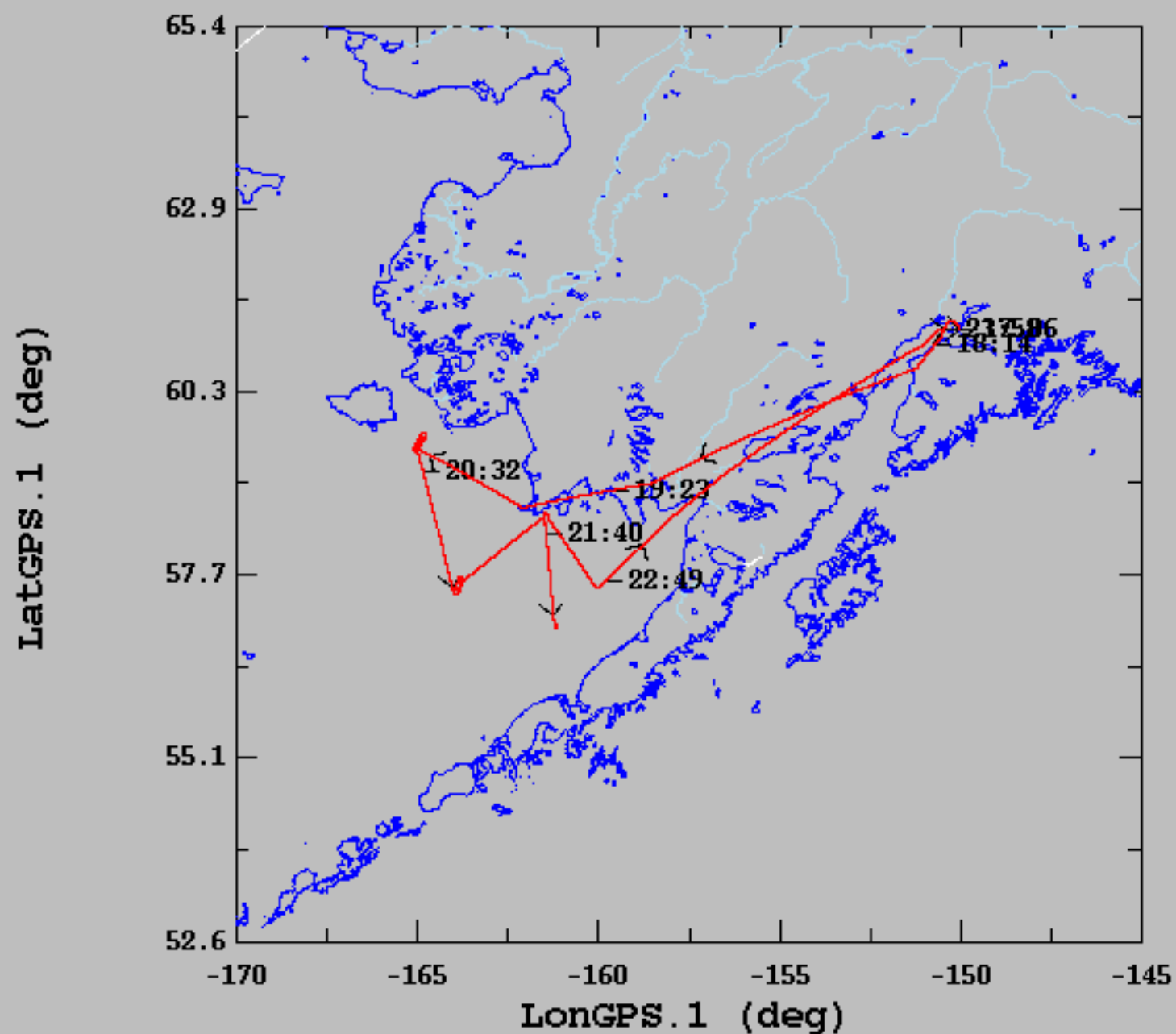
Intermittent failures PDAlpha.2 and PDBeta.2 periodically unrepresentative. Possibly due to icing.

PQM.1 and PQM.4 unreliable.

PSM.1 and PSM.2 exhibit continued 10-20 mb difference. PTM.1 failed.

TRadU.1 inoperative.

02/22/2023, 17:06:19-23:58:14



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	59.24	1.25	56.96	61.30
LongGPS.1 (deg), 1 s/sec	-158.14	5.27	-165.09	-149.98