

N42RF ERROR SUMMARY
20240124H1

Flight ID: 20240124H1

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/2024/MET/20240124H1

Local Met Data	Takeoff PANC (2135Z)	Landing PANC (0432Z)
Dynamic Corrections		Yes
AttackAngleIntercept		2.305
AttackAngleSlope		6.07576
SlipAngleIntercept		0.235
SlipAngleSlope		7.01112
AttackAngleIntercept2		2.06219
AttackAngleSlope2	5.99068	
SlipAngleIntercept2		0.125
SlipAngleSlope2		6.9873

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 (including rate) is not operational.

PQM.1 unrepresentative.

TDM.1 unrepresentative, TTM.3 and TDM.3 inop.

TRadU.1 inop.

PDALPHAref, PDBETAref, PQALPHAref, PQBETAref, DPJ_WSZ are not provided since the _AC file is not produced; all other "C" file parameters checked are from the _A file.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
--------------------------	---------------------	-----------------	------------------------

Dropsondes	1	1	0
Test sondes	0	0	0
AXBTs	1	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Carpenter/Englert
 Phone #:

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:	20240124H1	FLT #:	24-	AC:	Keith	Scientists:	Pressure		Dropsondes		
From:	PANC	ETD:	1030L / 1930Z	CP(s):	Wood	Chang, Paul	A/C Takeoff		Good	Bad	Sent
To:	PANC	ETA:	1730L / 0230Z		Palmer	Sapp, Joe			1	0	0
Block Time		Flight Time		NAV:	Miller	Jelenak, Zorana	ASOS Takeoff		BTs		
Out:	21:27	T/O:	21:36	FE(s):	Tyson		A/C Land		Good	Bad	Sent
					Wysinger						
In:	4:37	Land:	4:32	FD(s):	Carpenter		ASOS Land		0	1	0
					Englert						
Total:	7.2	Total:	6.9	SSA:	McAlister	Visitors:					
Sponsoring Org:		NESDIS		AVAPS:	Richards		Storm Number ID:		N/A		
					Dunford (NAV)		(ie: AL072012)				
Program:		PED		SEB:	Ripp (FE)		TCPD/WSPD Mission		NOAA2 WXWXC OCEANWINDS02		
								(ie: NOAA2 2418A SANDY)			
Purpose:		OWW Mission 2		MX:			OBSERVATIONS				
AS REQUIRED BY ORM			Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH				X			1				
SCIENCE MISSION WITHIN BDYR 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	Minor instrument issue(s) - no mission impact.
--------------------	--

Flight ID:	20240124H1	Pressure Comparison		
Flight Director(s):	Carpenter / Englert		T/O	Land
Mission:	Non-tasked Science Collection/Research	Aircraft	1001.5	-
UWZ.d mean:	-0.08	Tower	999.0	-

	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	✓ PitchRateI.1 ✓ PitchRateI.2 ✗ PitchRateI.3	✓ RollI.1 ✓ RollI.2 ✗ RollI.3	✓ RollRateI.1 ✓ RollRateI.2 ✗ RollRateI.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:

I.3 for Pitch and Roll (including rate) is not operational.

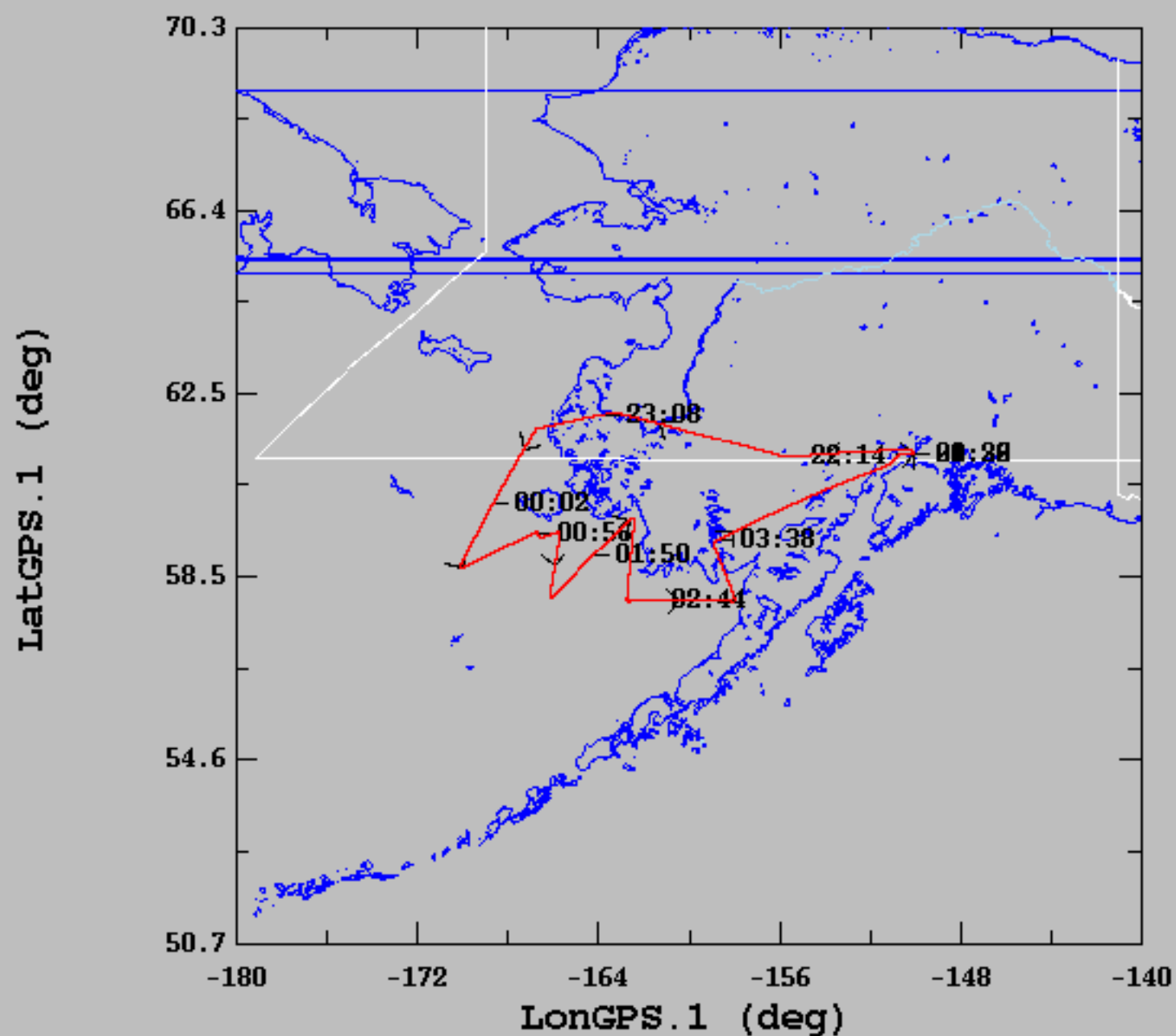
PQM.1 unrepresentative.

TDM.1 unrepresentative, TTM.3 and TDM.3 inop.

TRadU.1 inop.

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

01/24/2024, 20:26:06-28:32:33



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	60.10	1.28	58.00	62.06
LongGPS.1 (deg), 1 s/sec	-159.89	6.54	-170.10	-149.98