

N43RF ERROR SUMMARY
20230419I1

Flight ID: 20230419I1

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/2023/MET/20230419I1

Local Met Data	Takeoff PANC (1853Z)	Landing PANC (0000Z)
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, TTM.3 & TDM.3 not operational.
TRadU.1 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.

TD.c trending low (~5 degree C).
TRADS.1 unrepresentative and TDM.1 unrep after 0100Z.
PQM.1 trending higher than PQM.2-4 (~15mb).
GPS.3 parameters inop.

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

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:	20230419I1	FLT #:	FY23-	AC:	Doremus	Scientists:	Pressure		Dropsondes		
From:	PANC	ETD:	1900Z / 1100L	CP(s):	Keith	Downey	A/C Takeoff		Good	Bad	Sent
To:	PANC	ETA:	0330Z / 1930L		Palmer				0	0	0
Block Time		Flight Time		NAV:	Hough		ASOS Takeoff		BTs		
Out:	18:48	T/O:	18:54	FE(s):	Gee			A/C Land		Good	Bad
In:	3:01	Land:	2:57	FD(s):	Tyson					ASOS Land	
Total:	8.2	Total:	8.1	SSA:	Richards		Visitors:	Storm Number ID:			
Sponsoring Org:		NGS		SEB:			(ie: AL072012)		NOAA3 WXWXC GRAVD08		
Program:		PGR					TCP0D/WSP0D Mission				
Purpose:		GRAV-D Science Flight #8 AS10 FP19					(ie: NOAA2 2418A SANDY)				
				MX:			OBSERVATIONS				
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	Minor instrument issue(s) - no mission impact.
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Flight ID:	2023041911	Pressure Comparison		
Flight Director(s):	CARPENTER/ZAWISLAK		T/O	Land
Mission:	Non-tasked Science Collection/Research	Aircraft	1012.8	-
UWZ.d mean:	-0.28	Tower	1020.6	-

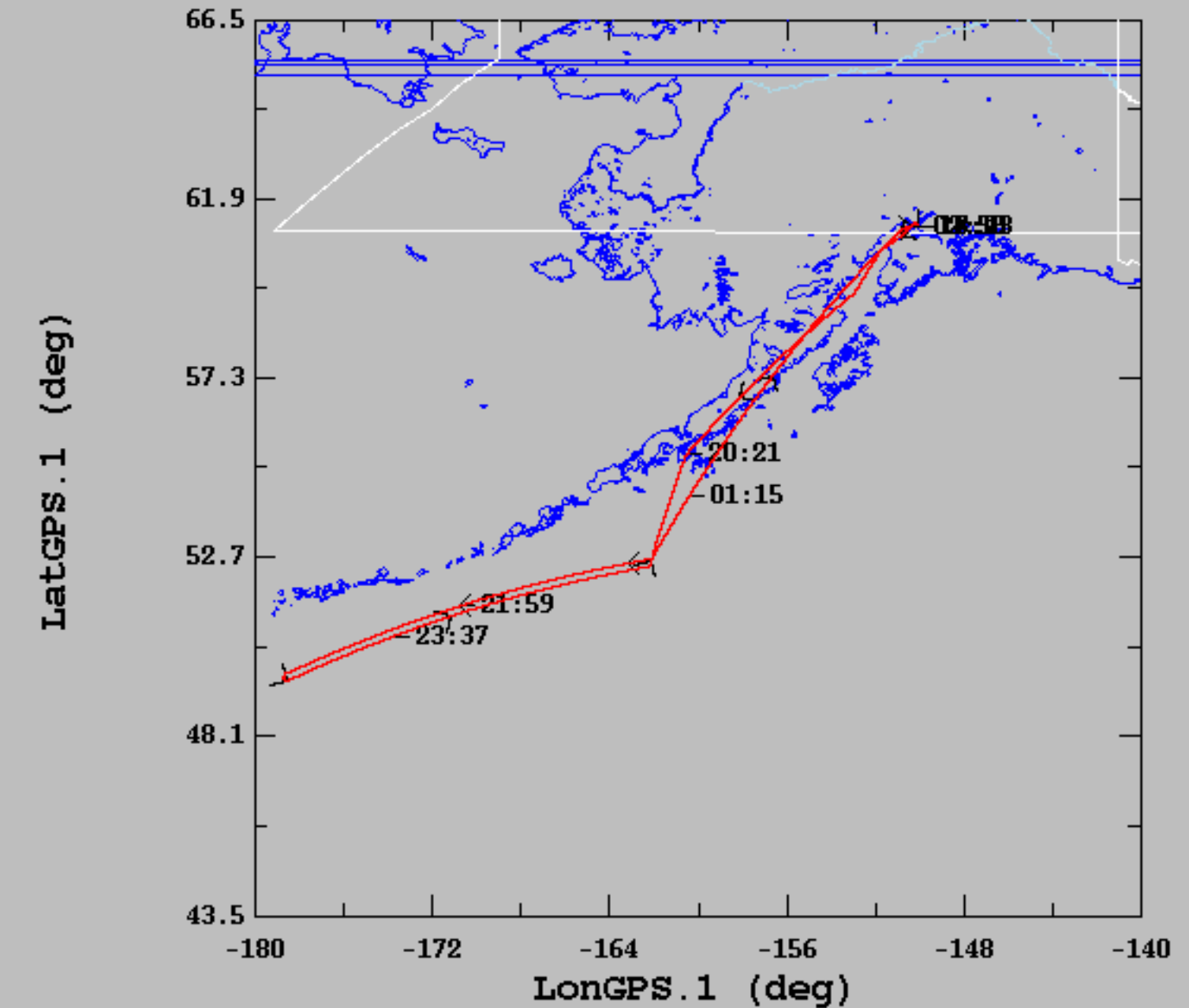
	Raw 1Hz Mean File Parameters				C File Parameters	
☒ Accelerometer	☒ AccAXI.1 ☒ AccAXI.2 ☒ AccAXI-GPS.1 ☒ AccAXI-GPS.2	☒ AccAYI.1 ☒ AccAYI.2 ☒ AccAYI-GPS.1 ☒ AccAYI-GPS.2	☒ AccAZI.1 ☒ AccAZI.2 ☒ AccAZI-GPS.1 ☒ AccAZI-GPS.2	☒ AccZfilter-GPS.1 ☒ AccZfilter-GPS.2	☒ AccZref	
☒ Altitude	☒ AltGPS.1 ☒ AltGPS.2 ☒ 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:
I.3 for Pitch and Roll, TTM.3 & TDM.3 not operational. TRadU.1 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. TD.c trending low (~5 degree C). TRADS.1 unrepresentative and TDM.1 unrep after 0100Z. PQM.1 trending higher than PQM.2-4 (~15mb). GPS.3 parameters inop.

04/19/2023, 17:05:35-26:53:02



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	55.46	4.17	49.53	61.27
LongGPS.1 (deg), 1 s/sec	-161.22	9.11	-178.69	-149.98