

N42RF ERROR SUMMARY
20210223H1

Flight ID: 20210223H1

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/2021/MET/20210223H1

Local Met Data	Takeoff PANC (1705Z)	Landing PANC (0139Z)
Dynamic Corrections		Yes
AttackAngleIntercept		2.27641
AttackAngleSlope		6.01899
SlipAngleIntercept		0.232
SlipAngleSlope		7.17429
AttackAngleIntercept2		2.06387
AttackAngleSlope2		6.01177
SlipAngleIntercept2		0.195
SlipAngleSlope2		6.67434

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.

First sea ice survey mission. PQM.1 inoperative. PitchI.3 and RollI.3 unavailable. TTM.3 unavailable. TDM.3 trends with TDM.1 and TDM.2 but is unrepresentative. Radiometers TRadD.1 and TRadS.1 inoperative. TRadU.1 unavailable.

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 / Holmes
Phone #: 863-500-3901

ACAT-4 Version = 7.3

U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N42RF Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20210223H1	FLT #:	21-34	AC:	Mitchell	Scientists:	Pressure		Dropsondes		
From:	PANC	ETD:	1700Z	CP(s):	Keith	Chang, Paul	A/C Takeoff	1017.0 mb	Good	Bad	Sent
To:	PANC	ETA:	0200Z		Shaw	Jelenak, Zorana			0	0	0
Block Time		Flight Time		NAV:	Utama	Sapp, Joe	ASOS Takeoff	1014.8 mb	BTs		
In:	1:44	Land:	1:39	FE(s):	Heystek		A/C Land	1016.8 mb	Good	Bad	Sent
					Sanchez						
Out:	16:42	T/O:	17:06	FD(s):	Carpenter		ASOS Land	1014.6 mb	0	0	0
					Holmes						
Total:	9.0	Total:	8.6	SSA:	Mascaro	Visitors:	Storm Number ID:		N/A		
				AVAPS:	McAlister	Richards/B	(ie: AL072012)				
Sponsoring Org:	NESDIS			SEB:			TCPD/WSPD Mission		WXWXC OCEANWINDS4		
Program:	PED						(ie: NOAA2 2418A SANDY)				
Purpose:	OWW Mission #4				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) - minimal mission impact.
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Flight ID:	20210223H1	Pressure Comparison		
Flight Director(s):	Carpenter / Holmes		T/O	Land
Mission:	Non-tasked Science Collection/Research	Aircraft	1017.0 mb	1016.8 mb
UWZ.d mean:	0.02	Tower	1014.8 mb	1014.6 mb

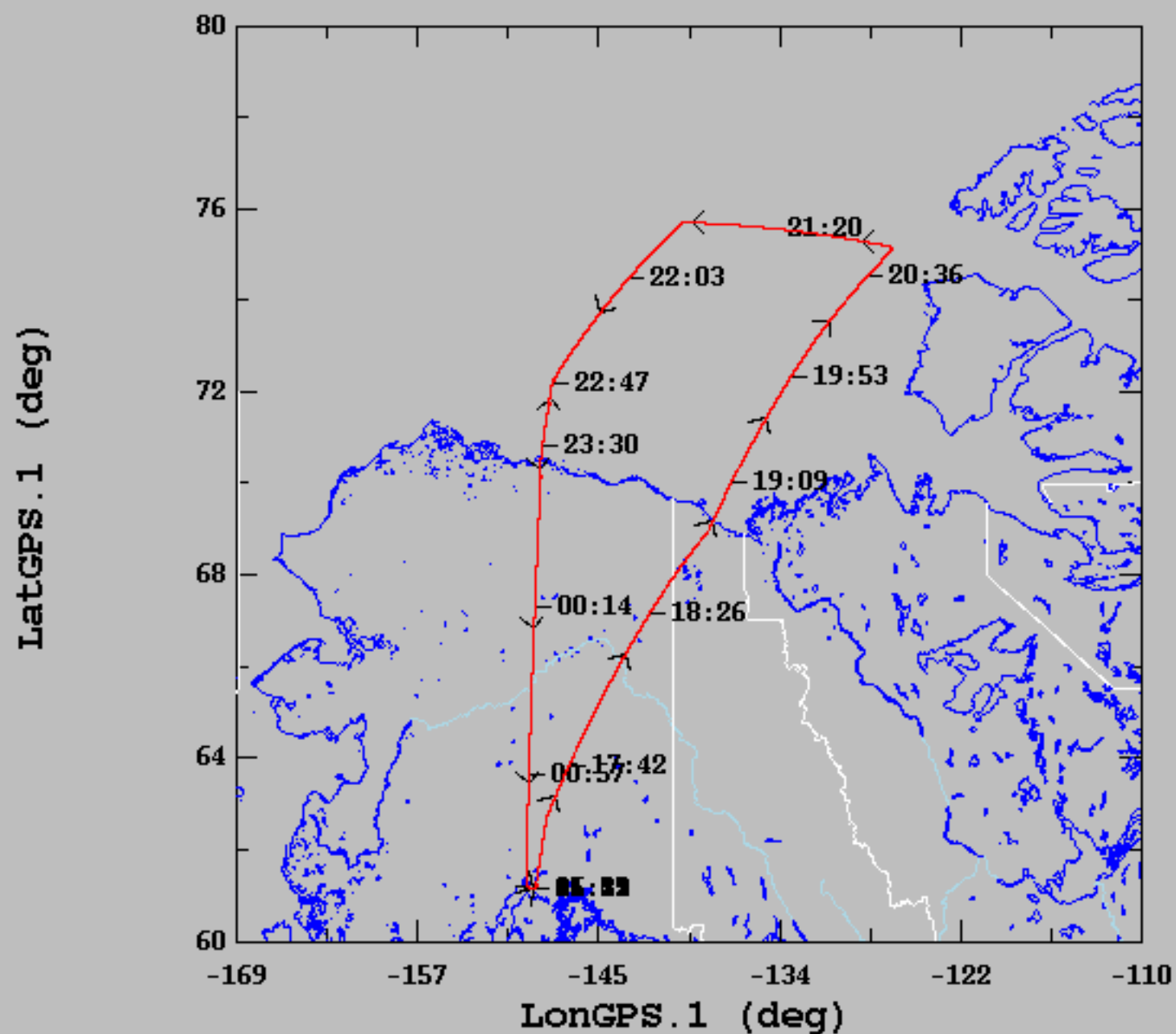
	Raw 1Hz Mean File Parameters					C File Parameters	
✓ Accelerometer	✓ AccAXI.1 ✓ AccAXI.2 ✓ AccAXI-GPS.1 ✓ AccAXI-GPS.2	✓ AccAYI.1 ✓ AccAYI.2 ✓ AccAYI-GPS.1 ✓ AccAYI-GPS.2	✓ AccAZI.1 ✓ AccAZI.2 ✓ AccAZI-GPS.1 ✓ AccAZI-GPS.2	✓ AccZfilter-GPS.1 ✓ AccZfilter-GPS.2		✓ AccZref	
✓ Altitude	✓ AltGPS.1 ✓ AltGPS.2 ✓ 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	X 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 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	X TRadD.1 X TRadS.1 X 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
X Dropwindsonde Log(s) - AVAPS and FD if completed
✓ Flight Track
X Miscellaneous FD Notes

QC Key	
Not checked	☐
Valid	☒
Errors (note)	X

NOTES:
PQM.1 inoperative. PitchI.3 and RollI.3 unavailable. TTM.3 unavailable. TDM.3 trends with TDM.1 and TDM.2 but is unrepresentative. Radiometers TRadD.1 and TRadS.1 inoperative. TRadU.1 unavailable.

2021-02-23, 15:32:07-25:41:21



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	68.27	5.14	61.16	75.70
LongGPS.1 (deg), 1 s/sec	-144.00	7.29	-150.46	-126.75