

N42RF ERROR SUMMARY
20210304H1

Flight ID: 20210304H1

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/2021/MET/20210304H1

Local Met Data	Takeoff PANC (1859Z)	Landing PANC (0000Z)
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.

GPS.2 failure at ~1928Z. PQM.1 inoperable. PitchI.3 and RollI.3 unavailable. TTM.3 unavailable. TDM.2 exhibits multiple failures in-flight. TDM.3 trends with TDM.1 and TDM.2 but is unrepresentative. Radiometers TRadD.1 and TRadS.1 appear to be outside range limits, similar to previous sea ice missions. TRadU.1 unavailable.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Drosondes	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:	20210304H1	FLT #:	21-38	AC:	Mitchell	Scientists:	Pressure		Dropsondes		
From:	PANC	ETD:	1700Z	CP(s):	Shaw	Chang, Paul	A/C Takeoff	1003.3 mb	Good	Bad	Sent
To:	PANC	ETA:	0200Z		Keith	Jelenak, Zorana			0	0	0
Block Time		Flight Time		NAV:	Utama		ASOS Takeoff	1001.7 mb	BTs		
In:	3:16	Land:	3:10	FE(s):	Heystek		A/C Land	1001.0 mb	Good	Bad	Sent
Out:	18:48	T/O:	19:00	FD(s):	Sanchez				0	0	0
Total:	8.5	Total:	8.2	SSA:	Mascaro	Visitors:	ASOS Land	999.5 mb			
				AVAPS:	McAlister	Richards/B					
Sponsoring Org:		NESDIS		SEB:			Storm Number ID:		N/A		
Program:		PED					(ie: AL072012)				
Purpose:		OWW Mission #8			MX:			TCPD/WSPD Mission		WXWXC OCEANWINDS8	
							(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	Minor instrument issue(s) - minimal mission impact.
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Flight ID:	20210304H1	Pressure Comparison		
Flight Director(s):	Carpenter / Holmes		T/O	Land
Mission:	Non-tasked Science Collection/Research	Aircraft	1003.3 mb	1001.0 mb
UWZ.d mean:	0.00	Tower	1001.7 mb	999.5 mb

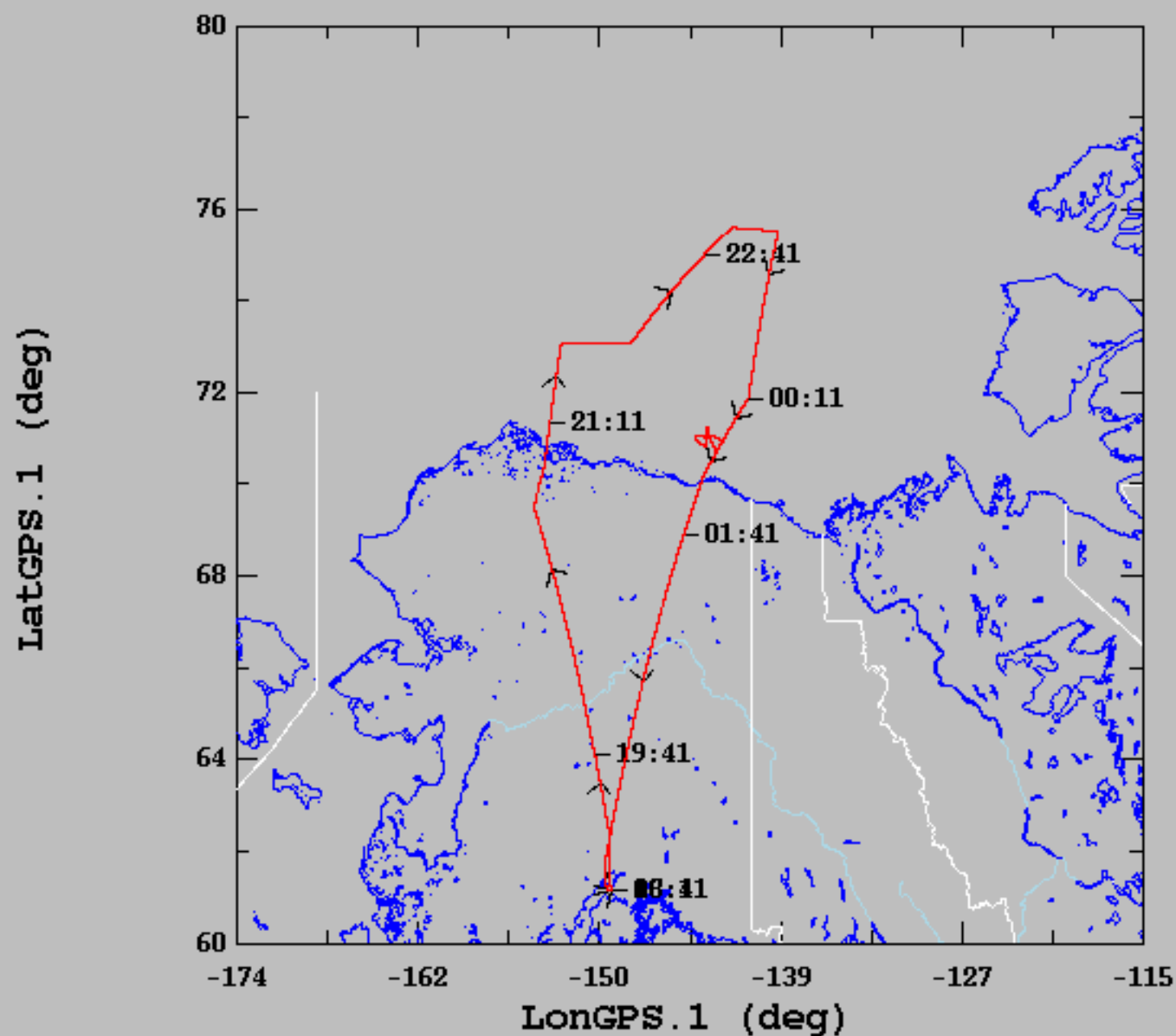
	Raw 1Hz Mean File Parameters					C File Parameters	
✓ Accelerometer	✓ AccAXI.1 ✓ AccAXI.2 ✓ AccAXI-GPS.1 ✗ AccAXI-GPS.2	✓ AccAYI.1 ✓ AccAYI.2 ✓ AccAYI-GPS.1 ✗ AccAYI-GPS.2	✓ AccAZI.1 ✗ AccAZI.2 ✓ AccAZI-GPS.1 ✗ AccAZI-GPS.2	✓ AccZfilter-GPS.1 ✗ AccZfilter-GPS.2		✓ AccZref	
✓ Altitude	✓ AltGPS.1 ✗ AltGPS.2 ✓ 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	✓ 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:
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2021-03-04, 16:41:16-27:11:01



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	67.64	5.10	61.16	75.59
LonGPS.1 (deg), 1 s/sec	-148.02	4.31	-155.00	-139.27