

N42RF ERROR SUMMARY
20220120H1

Flight ID: 20220120H1

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/2022/MET/20220120H1

Local Met Data	Takeoff KBFI (2038Z)	Landing PANC (0112Z)
Dynamic Corrections		Yes
AttackAngleIntercept		2.307
AttackAngleSlope		6.07515
SlipAngleIntercept		0.237
SlipAngleSlope		7.04607
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.

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: Hathaway
Phone #: 863-500-3911

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:	20220120H1	FLT #:	1	AC:	Doremus	Scientists:	Pressure		Dropsondes		
From:	KBFI	ETD:	1200L	CP(s):	Shaw	Sapp	A/C Takeoff		Good	Bad	Sent
To:	KPANC	ETA:	1530L		Keith	Chang			0	0	0
Block Time		Flight Time		NAV:	Richards B.	Jelenak	ASOS Takeoff		BTs		
In:	1:17	Land:	1:13	FE(s):	Tufnell	FE: Gee					
Out:	20:28	T/O:	20:38	FD(s):	Pitmann	Nav: Miller	A/C Land		Good	Bad	Sent
					Hathaway				0	0	0
Total:	4.8	Total:	4.6	SSA:	McAlister	Visitors:	ASOS Land		0	0	0
				AVAPS:	Warnecke						
Sponsoring Org:		AOC		SEB:			Storm Number ID:		N/A		
Program:		PED					(ie: AL072012)				
Purpose:		Transit to PANC						TCP0D/WSP0D Mission		WXWXE TRAIN	
							(ie: NOAA2 2418A SANDY)				
				MX:	Carrion	AMB: Decker	OBSERVATIONS				
AS REQUIRED BY ORM			Y	N	REMAR		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:	20220120H1	Pressure Comparison		
Flight Director(s):	Hathaway / Holmes		T/O	Land
Mission:	Ferry	Aircraft	1021.7	998.7
UWZ.d mean:	0.13	Tower	1019.8	997.9

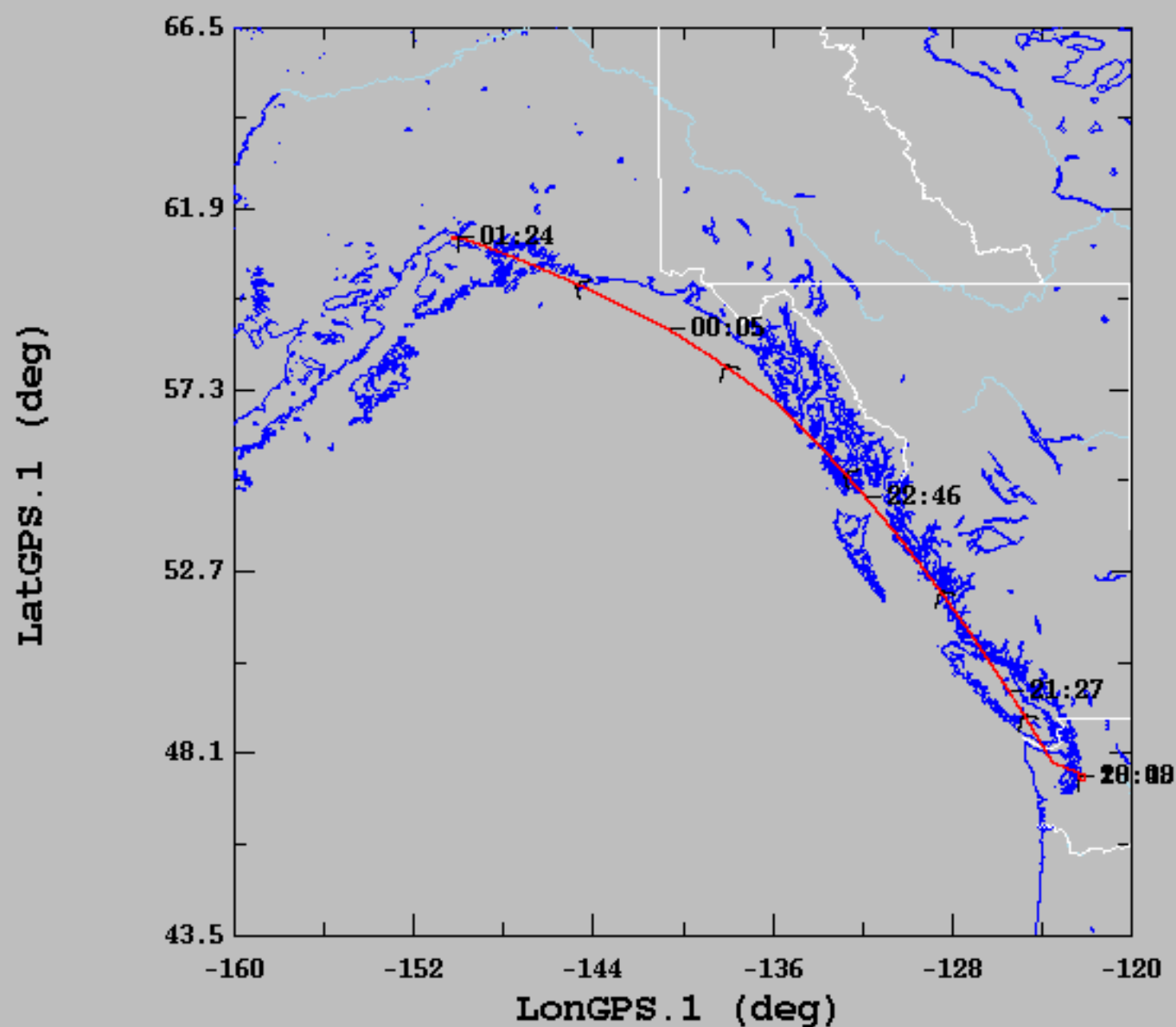
	Raw 1Hz Mean File Parameters				C File Parameters	
☒ Accelerometer	☒ AccAXI.1 ☒ AccAXI.2 ☒ AccAXI-GPS.1 ☒ AccAXI-GPS.2	☒ AccAYI.1 ☒ AccAYI.2 ☒ AccAYI-GPS.1 ☒ AccAYI-GPS.2	☒ AccAZI.1 ☒ AccAZI.2 ☒ AccAZI-GPS.1 ☒ AccAZI-GPS.2	☒ AccZfilter-GPS.1 ☒ AccZfilter-GPS.2	☒ AccZref	
☒ Altitude	☒ AltGPS.1 ☒ AltGPS.2 ☒ 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	☒ PDALPHAref ☒ 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:
- PQM.1 is unrepresentative throughout the flight. - PTM.1 is unrepresentative and erroneous.

01/20/2022, 18:49:59-25:24:12



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	52.97	5.04	47.42	61.17
LonGPS.1 (deg), 1 s/sec	-131.20	9.11	-150.24	-122.05