

N42RF ERROR SUMMARY
20220119H1

Flight ID: 20220119H1

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/20220119H1

Local Met Data	Takeoff KLAL (1701Z)	Landing KBFI (0000Z)
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:	20220119H1		FLT #:	1		AC:	Doremus		Scientists:		Pressure		Dropsondes						
From:	KLAL		ETD:	1200L		CP(s):	Shaw		Sapp		A/C Takeoff		Good	Bad	Sent				
To:	KBFI		ETA:	2100L			Keith		Chang				0	0	0				
Block Time			Flight Time			NAV:	Richards B.		Jelenak		ASOS Takeoff		BTs						
In:	0:53		Land:	0:48		FE(s):	Tufnell		FE: Gee				A/C Land		Good	Bad	Sent		
Out:	16:42		T/O:	17:01		FD(s):	Hathaway		Nav: Miller		ASOS Land				0	0	0		
Total:	8.2		Total:	7.8		SSA:	McAlister		Visitors:				Storm Number ID:		N/A				
Sponsoring Org:			AOC			SEB:					(ie: AL072012)								
Program:			PED								TCPOD/WSPOD Mission		WXWXA TRAIN						
Purpose:			Transit to KBFI							(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:	20220119H1	Pressure Comparison		
Flight Director(s):	Hathaway / Holmes		T/O	Land
Mission:	Ferry	Aircraft	1017.5	N/A
UWZ.d mean:	1.11	Tower	1018.9	1024.2

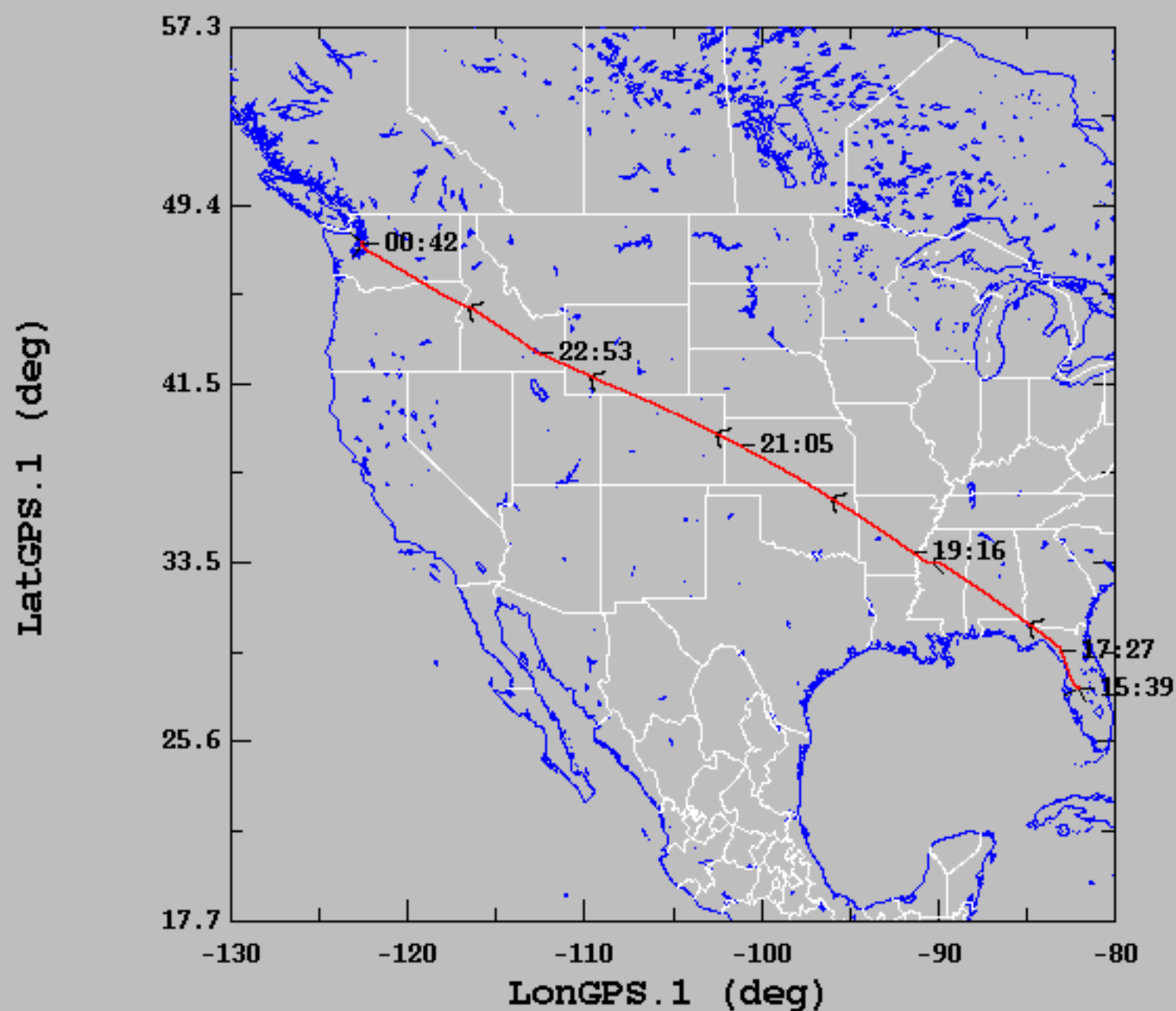
	Raw 1Hz Mean File Parameters				C File Parameters	
☒ Accelerometer	☒ AccAXI.1 ☒ AccAXI.2 ☒ AccAXI-GPS.1 ☒ AccAXI-GPS.2	☒ AccAYI.1 ☒ AccAYI.2 ☒ AccAYI-GPS.1 ☒ AccAYI-GPS.2	☒ AccAZI.1 ☒ AccAZI.2 ☒ AccAZI-GPS.1 ☒ AccAZI-GPS.2	☒ AccZfilter-GPS.1 ☒ AccZfilter-GPS.2	☒ AccZref	
☒ Altitude	☒ AltGPS.1 ☒ AltGPS.2 ☒ 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:
- PDBeta.1 has unusual spikes through hour 18Z of flight. - PTM.1 is unrepresentative and erroneous. - TDM.3 has unusual spikes around 1730Z of flight. - UWZ.d is abnormally high throughout entire flight.

01/19/2022, 15:39:04-24:42:42



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	36.57	6.24	27.98	47.74
LongGPS.1 (deg), 1 s/sec	-98.02	13.26	-122.55	-81.98