

N43RF ERROR SUMMARY
20210813I1

Flight ID: 20210813I1

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/20210813I1
Local Met Data	Takeoff KLAL (1709Z) Landing TNCA (2136Z)
Dynamic Corrections	Yes
AttackAngleIntercept	0.131251
AttackAngleSlope	6.02327
SlipAngleIntercept	0.23
SlipAngleSlope	7.02537

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.

Reposition to Aruba for Grace missions. GPS.4 unavailable. PDBeta.2 drift 1845-1945Z. PQM.4 possible icing 1845-1945Z. 10-20 mb difference between PSM.1 and PSM.2. PSM.2 appears more stable. TTM.3 inoperative. Large spread between TDM.1 and TDM.2. TDM.3 unrepresentative. TRadU.1 inoperative.

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
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:	20210813I1	FLT #:	21-	AC:	Mitchell	Scientists:	Pressure		Dropsondes																																																																	
From:	KLAL	ETD:	1700Z	CP(s):	Rannenberg	Zawislak	A/C Takeoff	1014.2	Good	Bad	Sent																																																															
To:	TNCA	ETA:	2200Z		Copare	Sellwood	ASOS Takeoff		KLAL 1650Z 1015.0 mb	0	0	0																																																														
Block Time		Flight Time		NAV:	Urato	Legidakes (PILOT)	A/C Land	1009		Good	Bad	Sent																																																														
In:	21:43	Land:	21:37	FE(s):	Darby		Freeman (NAV)		ASOS Land	TNCA 2200Z 1011 mb	0	0	0																																																													
Out:	17:01	T/O:	17:10	FD(s):	Wysinger	Sans Souci (MX)	Storm Number ID:		N/A																																																																	
Total:	4.7	Total:	4.5	SSA:	Mascaro	Visitors:	(ie: AL072012)					NOAA3 WXWXA TRAIN																																																														
Sponsoring Org:	NWS / NHC			AVAPS:	Underwood	TCPOD/WSPOD Mission		OBSERVATIONS																																																																		
Program:	PRX			SEB:		(ie: NOAA2 2418A SANDY)					<table border="1"> <thead> <tr> <th>AS REQUIRED BY ORM</th> <th>Y</th> <th>N</th> <th>REMARKS</th> <th>Fix Number</th> <th>Obs Number</th> <th>Fix Time</th> <th>SLP</th> </tr> </thead> <tbody> <tr> <td>VOLCANIC ASH</td> <td></td> <td>X</td> <td></td> <td rowspan="2">1</td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> </tr> <tr> <td>SCIENCE MISSION WITHIN BDRY LAYER</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>LACK OF PRECIPITATION</td> <td>X</td> <td></td> <td></td> <td rowspan="2">2</td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> </tr> <tr> <td>RELATIVE HUMIDITY ≥ 80%</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>LARGE AIR-SEA TEMP GRADIENT</td> <td></td> <td>X</td> <td></td> <td rowspan="2">3</td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> </tr> <tr> <td>HIGH SURFACE WINDS</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>LONG FETCH / DURATION OF SFC WND</td> <td></td> <td>X</td> <td></td> <td rowspan="2">4</td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> </tr> <tr> <td>SEA SALT ACCRETION FORECAST</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>SEA SALT ACCRETION OBSERVED</td> <td></td> <td>X</td> <td></td> <td>Pennies:</td> <td colspan="3">N/A</td> </tr> </tbody> </table>			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:
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Purpose:	Repo. to TNCA for AL95 invest.			MX:	Carrion																																																																					

*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:	2021081311
Flight Director(s):	Carpenter
Mission:	Ferry
UWZ.d mean:	0.08

Pressure Comparison		
	T/O	Land
Aircraft	1014.2	1009.0
Tower	KLAL 1650Z 1015.0 mb	TNCA 2200Z 1011 mb

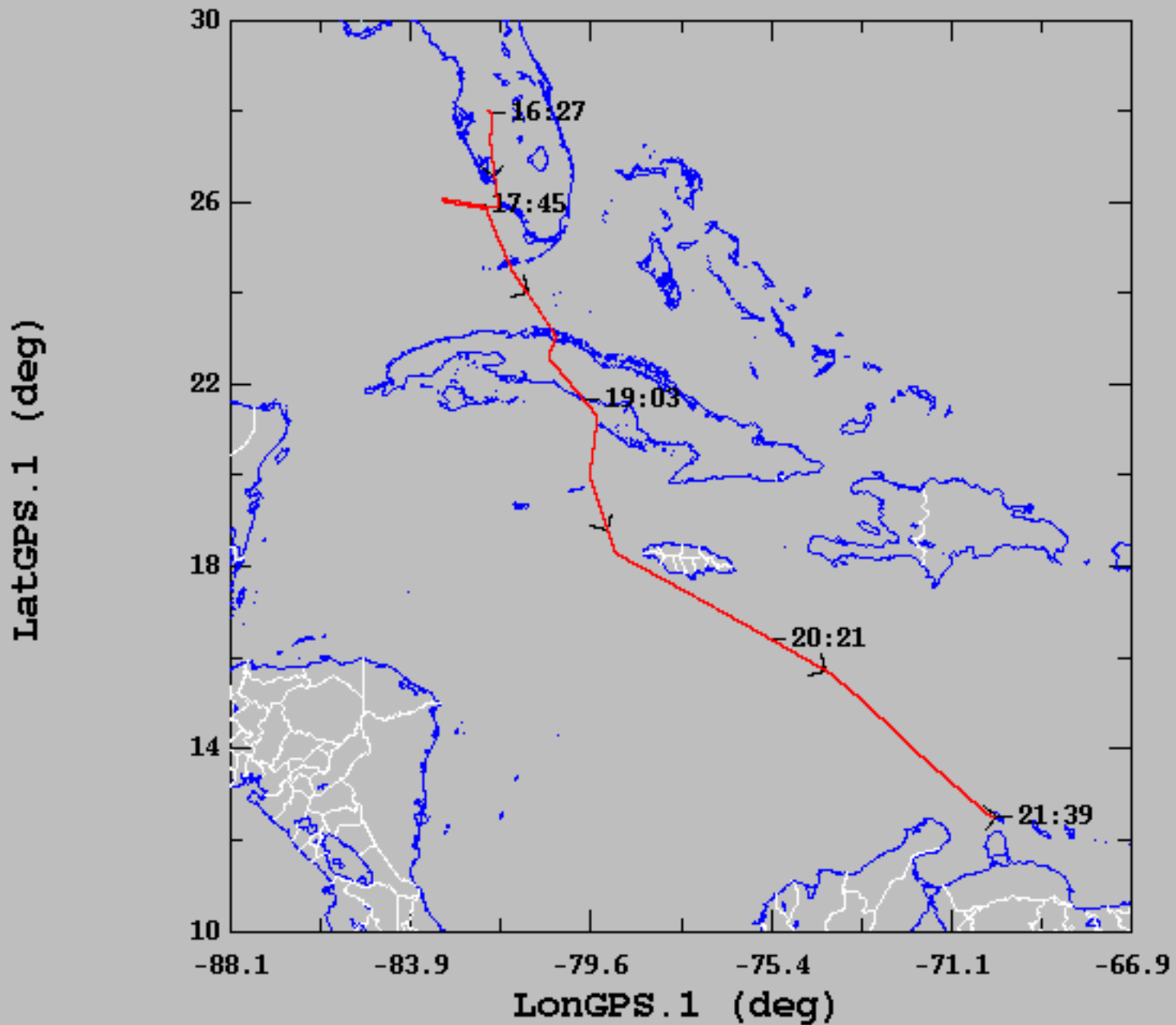
	Raw 1Hz Mean File Parameters				C File Parameters	
✓ Accelerometer	✓ AccAXI.1 ✓ AccAXI.2 ✓ AccAXI-GPS.1 ✓ AccAXI-GPS.2	✓ AccAYI.1 ✓ AccAYI.2 ✓ AccAYI-GPS.1 ✓ AccAYI-GPS.2	✓ AccAZI.1 ✓ AccAZI.2 ✓ AccAZI-GPS.1 ✓ AccAZI-GPS.2	✓ AccZfilter-GPS.1 ✓ AccZfilter-GPS.2	✓ AccZref	
✓ Altitude	✓ AltGPS.1 ✓ AltGPS.2 ✓ AltGPS.3 X 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 X LatGPS.4	✓ LatI-GPS.1 ✓ LatI-GPS.2	✓ LonGPS.1 ✓ LonGPS.2 ✓ LonGPS.3 X LonGPS.4	✓ LonI-GPS.1 ✓ LonI-GPS.2	✓ LATref ✓ LONref	
✓ Pressure	✓ PDALPHA.1 ✓ PDALPHA.2 ✓ PDBETA.1 X PDBETA.2	✓ PQALPHA.1 ✓ PQBETA.1	✓ PQM.1 ✓ PQM.2 ✓ PQM.3 X 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	✓ PitchRateI.1 ✓ PitchRateI.2 X PitchRateI.3	✓ RollI.1 ✓ RollI.2 X RollI.3	✓ RollRateI.1 ✓ RollRateI.2 X RollRateI.3	✓ PITCHref ✓ ROLLref	
✓ Temp / Dewpt	✓ TTM.1 ✓ TTM.2 X TTM.3	✓ TDM.1 ✓ TDM.2 X TDM.3	✓ TRadD.1 ✓ 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	<input type="checkbox"/>
Valid	<input checked="" type="checkbox"/>
Errors (note)	<input checked="" type="checkbox"/>

NOTES:
<p>GPS.4 unavailable.</p> <p>PDBeta.2 drift 1845-1945Z.</p> <p>PQM.4 possible icing 1845-1945Z.</p> <p>10-20 mb difference between PSM.1 and PSM.2, PSM.2 appears more stable.</p> <p>TTM.3 inoperative.</p> <p>Large spread between TDM.1 and TDM.2. TDM.3 unrepresentative.</p> <p>TRadU.1 inoperative.</p>

08/13/2021, 16:27:36-21:39:03



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	21.18	5.24	12.50	27.99
— LongGPS.1 (deg), 1 s/sec	-78.53	4.00	-83.10	-70.01