

N43RF ERROR SUMMARY
20220509I1

Flight ID: 20220509I1

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/20220509I1

Local Met Data	Takeoff KLAL (2219Z)	Landing KLAL (0229Z)
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.

Significant issues with data system on this flight. GPS.4 inoperative. PitchI.3 and RollI.3 unavailable. All TTM quantities missing or inoperative. TDM.2 and TDM.3 inoperative. All radiometer quantities unrepresentative or 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 / Kalen

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:	20220509I1	FLT #:	22-	AC:	Gaston	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	2030Z	CP(s):	Wood		A/C Takeoff	1010	Good	Bad	Sent
To:	KLAL	ETA:	0130Z								
Block Time		Flight Time		NAV:	Richards/B		ASOS Takeoff	KLAL 2150Z 1010.9 mb	BTs		
In:	1:31	Land:	1:25	FE(s):	Gee		A/C Land	N/A	Good	Bad	Sent
Out:	22:05	T/O:	22:19	FD(s):	Carpenter		ASOS Land	KLAL 0150Z 1012.5 mb	0	0	0
Total:	34	Total:	3.1	SSA:	Richards/T	Visitors:	Storm Number ID:		N/A		
Sponsoring Org:		AOC		SEB:		Utama (NAV)	(ie: AL072012)		NOAA3 WXWXA TRAIN		
Program:		PSM				Hough (NAV)	TCPD/WSPD Mission				
Purpose:		Wind calibration.		MX:			(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	Major instrument issue(s) - significant mission impact.
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Flight ID:	20220509I1	Pressure Comparison		
Flight Director(s):	Carpenter / Kalen		T/O	Land
Mission:	Equipment Checkout	Aircraft	1010.0	N/A
UWZ.d mean:	NaN	Tower	KLAL 2150Z 1010.9 mb	KLAL 0150Z 1012.5 mb

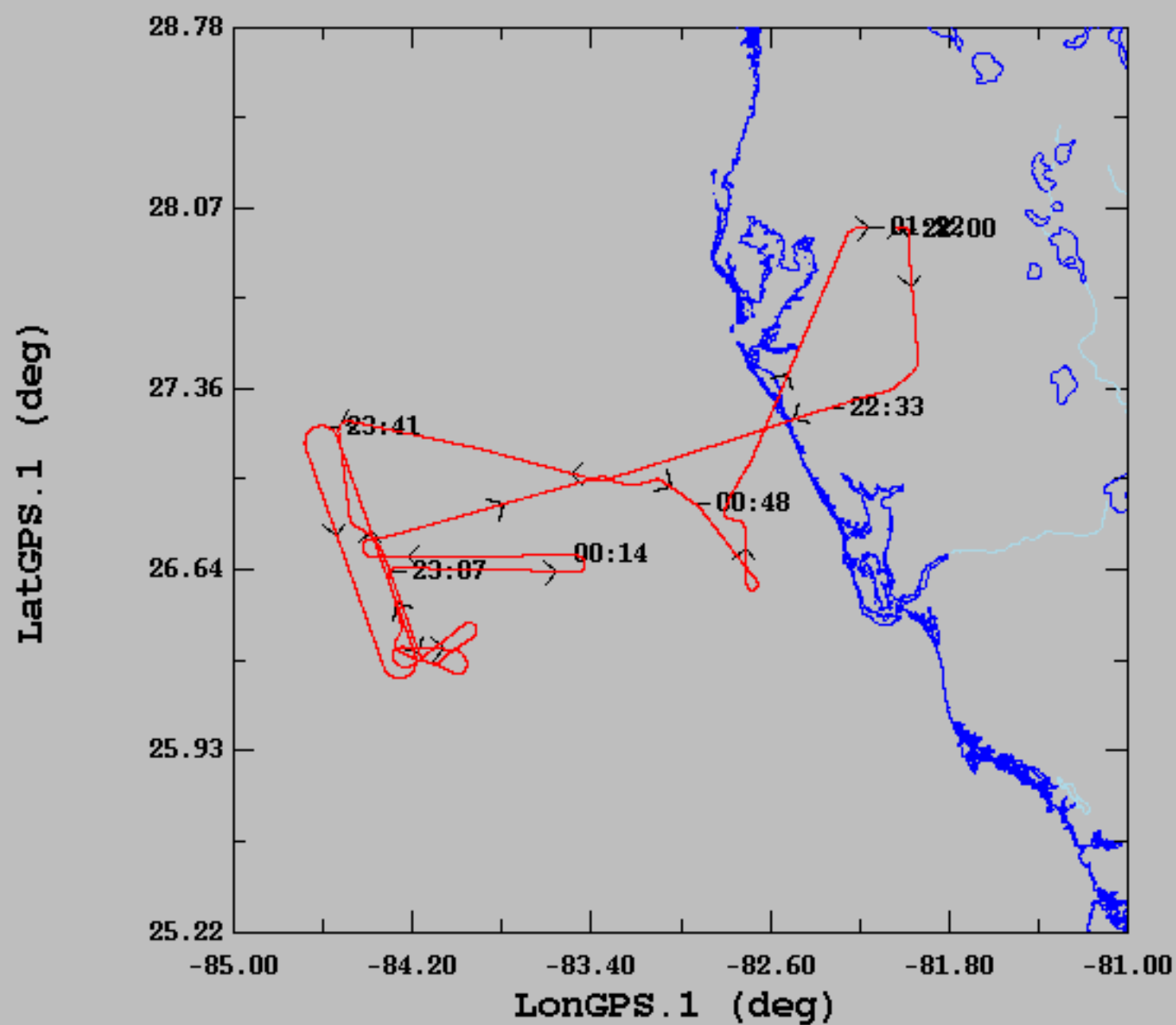
	Raw 1Hz Mean File Parameters				C File Parameters	
✓ Accelerometer	✓ AccAXI.1 ✓ AccAXI.2 ✓ AccAXI-GPS.1 ✓ AccAXI-GPS.2	✓ AccAYI.1 ✓ AccAYI.2 ✓ AccAYI-GPS.1 ✓ AccAYI-GPS.2	✓ AccAZI.1 ✓ AccAZI.2 ✓ AccAZI-GPS.1 ✓ AccAZI-GPS.2	✓ AccZfilter-GPS.1 ✓ AccZfilter-GPS.2	✓ AccZref	
✓ Altitude	✓ AltGPS.1 ✓ AltGPS.2 ✓ 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	✓ 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:
GPS.4 inoperative. PitchI.3 and RollI.3 unavailable. All TTM quantities missing or inoperative. TDM.2 and TDM.3 inoperative. TRadD.1 unrepresentative. TRadS.1 and TRadU.1 inoperative.

2022-05-09, 22:00:00-25:22:03



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	27.01	0.51	26.22	27.99
LongGPS.1 (deg), 1 s/sec	-83.40	0.90	-84.68	-81.94