

N42RF ERROR SUMMARY
20191114H1

Flight ID: 20191114H1

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/2019/MET/20191114H1

Local Met Data	Takeoff KBIX (2145Z)	Landing KLAL (2312Z)
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.

Return to KLAL from KBIX. Non-science flight. PQAlpha.2 and PQBeta.2 inoperative. PQM.1 and PQM.4 inoperative. PTM.1 inoperative. PitchI.3 and RollI.3 unavailable. TTM.3 unavailable. TDM.3 inoperative. Artificial oscillations noted in TDM.1 and TDM.2 throughout much of the flight. TRadU.1 unavailable.

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 / 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:	20191114H1	FLT #:	20-8	AC:	Kibbey	Scientists:	Pressure		Dropsondes		
From:	KBIX	ETD:	00:00Z	CP(s):	Doremus	Parrish	A/C Takeoff	1022.2	Good	Bad	Sent
To:	KLAL	ETA:	01:30Z			Henning			0	0	0
Block Time		Flight Time		NAV:	Freeman	Lundry	ASOS Takeoff	KBIX 2142Z 1021.1 mb	BTs		
In:	23:17	Land:	23:13	FE(s):	LaLonde	Shannon	A/C Land	1012.7	Good	Bad	Sent
Out:	21:40	T/O:	21:46	FD(s):	Holmes		ASOS Land	KLAL 2250Z 1012.2 mb	0	0	0
Total:	1.62	Total:	1.45	SSA:	Peek	Visitors:	Storm Number ID:		N/A		
Sponsoring Org:		AOC		AVAPS:	Lynch/C.	Newman	(ie: AL072012)				
Program:		PR7		SEB:	Greene	Sloan	TCPD/WSPD Mission		N/A		
Purpose:		Keesler/53rd AFRS Visit.				Ken Graham	(ie: NOAA2 2418A SANDY)				
				MX:	Carrion	Warren Madden	OBSERVATIONS				
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							
RELATIVE HUMIDITY ≥ 80%			X				2				
LARGE AIR-SEA TEMP GRADIENT				X							
HIGH SURFACE WINDS				X							
LONG FETCH / DURATION OF SFC WND				X			3				
SEA SALT ACCRETION FORECAST				X							
SEA SALT ACCRETION OBSERVED				X							
							Pennies:				
							*Highlighted items must be completed before departure.				
Remarks:											

P-3 QC Checklist

Flight ID:	20191114H1
Flight Director(s):	Carpenter / Holmes
UWZ.d mean:	0.13

Pressure Comparison		
	T/O	Land
Aircraft	1022.2	1012.7
Tower	KBIX 2142Z 1021.1 mb	KLAL 2250Z 1012.2 mb

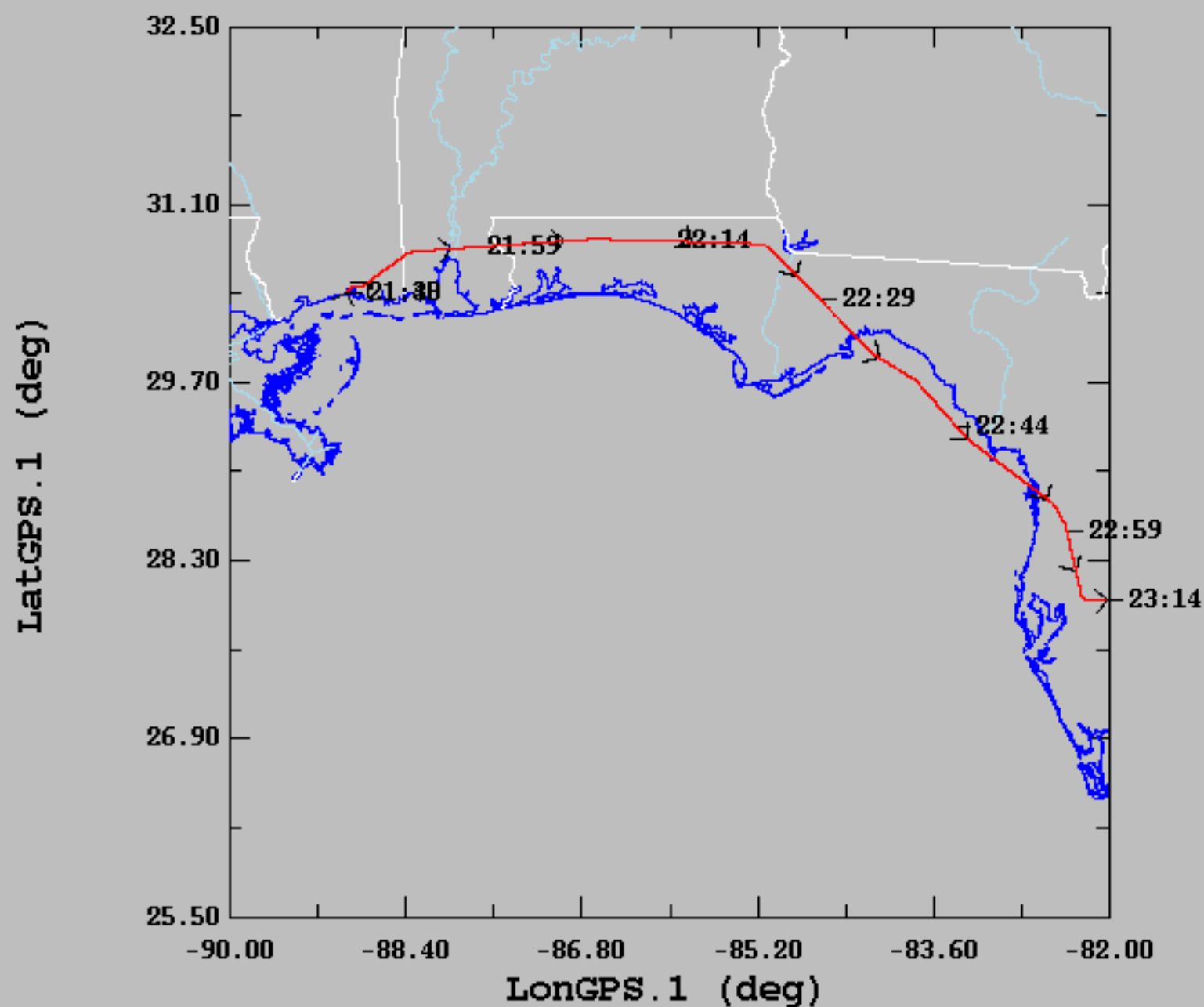
	Raw 1Hz Mean File Parameters				C File Parameters	
✓ Accelerometer	✓ AccAXI.1 ✓ AccAXI.2 ✓ AccAXI-GPS.1 ✓ AccAXI-GPS.2	✓ AccAYI.1 ✓ AccAYI.2 ✓ AccAYI-GPS.1 ✓ AccAYI-GPS.2	✓ AccAZI.1 ✓ AccAZI.2 ✓ AccAZI-GPS.1 ✓ AccAZI-GPS.2	✓ AccZfilter-GPS.1 ✓ AccZfilter-GPS.2	✓ AccZref	
✓ Altitude	✓ AltGPS.1 ✓ AltGPS.2 ✓ 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:
PQAlpha.2 and PQBeta.2 inoperative. PQM.1 and PQM.4 inoperative. PTM.1 inoperative. PitchI.3 and RollI.3 unavailable. TTM.3 unavailable. TDM.3 inoperative. Artificial periodic oscillations noted in TDM.1 and TDM.2 throughout much of the flight. Unrealistic supersaturation spikes noted. TRadU.1 unavailable.

11/14/2019, 21:30:13-23:14:03



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	29.92	0.95	27.99	30.83
LongGPS.1 (deg), 1 s/sec	-85.53	2.50	-88.93	-82.01