

N42RF ERROR SUMMARY
20191211H1

Flight ID: 20191211H1

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/2019/MET/20191211H1
Local Met Data	Takeoff KMCF (1718Z) Landing KMCF (0000Z)
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.

MMR test/calibration flight

PQM.4 unavailable

PQM.1 was outlier - not used operationally or in post-processing

TDM.3 had a possible failure during flight

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	1	1	0
Test sondes	0	0	0

U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N42RF Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20191211H1	FLT #:	1	AC:	Kahn	Scientists:	Pressure		Dropsondes		
From:	KMCF	ETD:	1100	CP(s):	Rossi		A/C Takeoff		Good	Bad	Sent
To:	KMCF	ETA:	1400		Keith				1	0	0
Block Time		Flight Time		NAV:	Freeman		ASOS Takeoff		BTs		
In:	20:33	Land:	20:23	FE(s):	Sanchez		A/C Land		Good	Bad	Sent
Out:	17:11	T/O:	17:18	FD(s):	Lundry		ASOS Land		0	0	0
Total:	3.4	Total:	3.1	SSA:	Mascaro		Visitors:				
Sponsoring Org:					AVAPS:	McAlister	Storm Number ID:				
Program:					SEB:	Peek	(ie: AL072012)				
Purpose:					MX:		TCPD/WSPD Mission				
							(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:				

*Highlighted items must be completed before departure.

Remarks:

AXBTS	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Lundry
Phone #: 863-500-3898

ACAT-4 Version = 7.3

P-3 QC Checklist

Flight ID:	20191211H1
Flight Director(s):	Lundry
UWZ.d mean:	0.05

Pressure Comparison		
	T/O	Land
Aircraft	1021.9	
Tower	1021.9	

	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	☒ 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

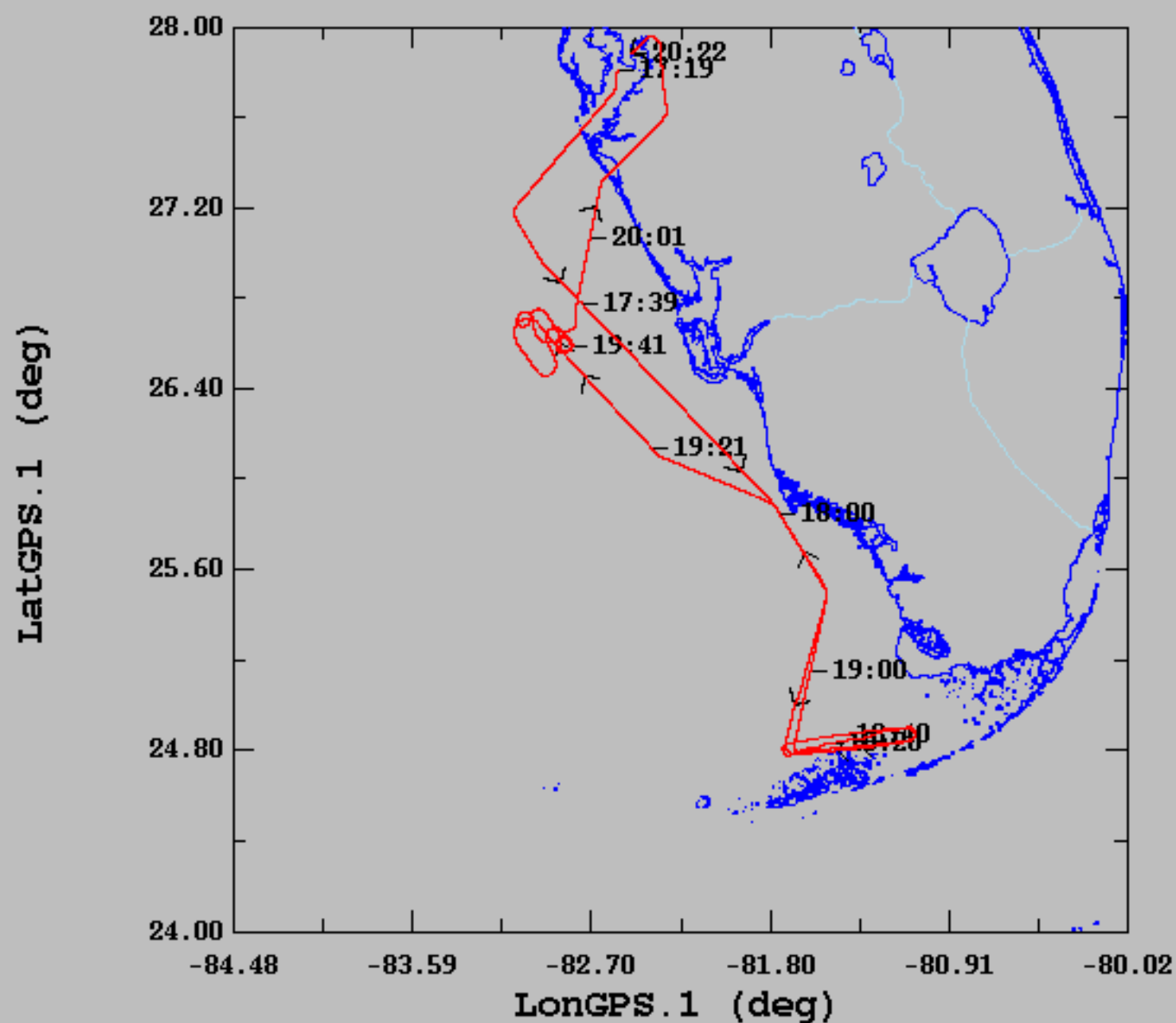
FLID_Mission_Documents.pdf:	
☒	Error Summary
☒	Crew Manifest
☒	QC Checklist
n/a	Dropwindsonde Log(s) - AVAPS and FD if completed
☒	Flight Track
n/a	Miscellaneous FD Notes

QC Key	
Not checked	☐
Valid	☒
Errors (note)	☒

NOTES:

PQM.1 was an outlier - not used operationally or in post-processing
TDM.3 - error during mission - not used operationally or in post-processing
Data shutdown prior to landing, no landing pressure comparison available

2019-12-11, 17:19:26-20:22:10



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	26.12	0.98	24.78	27.96
LongGPS.1 (deg), 1 s/sec	-82.16	0.61	-83.08	-81.08