

N43RF ERROR SUMMARY
20190806I1 Wind Calibration Flight

Flight ID: 20190806I1

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/20190806I1
Local Met Data	Takeoff KLAL (1403Z) Landing KLAL (1935Z)
Dynamic Corrections	Yes
AttackAngleIntercept	0.134998
AttackAngleSlope	6.10536
SlipAngleIntercept	0.2
SlipAngleSlope	7.27954

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.

Wind calibration flight.

TDM.3 to be calibrated.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	1	1	0
Test sondes	0	0	0
AXBTS	2	1	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Lundry, Holmes
Phone #: 863-800-3898

ACAT-4 Version = 7.2.2

P-3 QC Checklist

Flight ID:	20190806I1
Flight Director(s)	Lundry, Holmes
UWZ.d mean:	0.03

Pressure Comparison		
	T/0	Land
Aircraft	1011.5	1009.8mb
Tower	1011.9	1010.5

	Raw 1Hz Mean File Parameters					C File Parameters	
☒ Accelerometer	☒ AccAXI.1	☒ AccAYI.1	☒ AccAZI.1	☒ AccZfilter-GPS.1	☒ AccZref		
	☒ AccAXI.2	☒ AccAYI.2	☒ AccAZI.2	☒ AccZfilter-GPS.2			
	☒ AccAXI-GPS.1	☒ AccAYI-GPS.1	☒ AccAZI-GPS.1				
	☒ AccAXI-GPS.2	☒ AccAYI-GPS.2	☒ AccAZI-GPS.2				
☒ Altitude	☒ AltGPS.1	☒ AltI-GPS.1	☒ AltPaADDU.1	☒ AltRA.1	☒ ALTref	☒ AltRA1.c	
	☒ AltGPS.2	☒ AltI-GPS.2	☒ AltBCADDU.1	☒ AltRA.2	☒ ALTPA.d	☒ AltRA2.c	
	☒ AltGPS.3				☒ ALTGA.d		
	☒ AltGPS.4						
☒ Ground Speed	☒ GsXI-GPS.1	☒ GsYI-GPS.1	☒ GsZI-GPS.1		☒ GSXref		
	☒ GsXI-GPS.2	☒ GsYI-GPS.2	☒ GsZI-GPS.2		☒ GSYref		
					☒ GSZref		
☒ Lat / Lon	☒ LatGPS.1	☒ LatI-GPS.1	☒ LonGPS.1	☒ LonI-GPS.1	☒ LATref		
	☒ LatGPS.2	☒ LatI-GPS.2	☒ LonGPS.2	☒ LonI-GPS.2	☒ LONref		
	☒ LatGPS.3		☒ LonGPS.3				
	☒ LatGPS.4		☒ LonGPS.4				
☒ Pressure	☒ PDALPHA.1	☒ PQALPHA.1	☒ PQM.1	☒ PSM.1	☒ PDLAPHaref	☒ PQMref	
	☒ PDALPHA.2	☒ PQBETA.1	☒ PQM.2	☒ PSM.2	☒ PDBETAref	☒ PQ.c	
	☒ PDBETA.1		☒ PQM.3	☒ PTM.1	☐ PQALPHaref	☒ PSMref	
	☒ PDBETA.2		☒ PQM.4		☐ PQBETAref	☒ PS.c	
☒ Air Speed	☒ CasADDU.1	☒ TasADDU.1	☒ IasADDU.1		☒ IAS.d	☒ TAS.d	
☒ Pitch / Roll	☒ PitchI.1	☒ PitchRateI.1	☒ RollI.1	☒ RollRateI.1	☒ PITCHref		
	☒ PitchI.2	☒ PitchRateI.2	☒ RollI.2	☒ RollRateI.2	☒ ROLLref		
	☐ PitchI.3	☐ PitchRateI.3	☐ RollI.3	☐ RollRateI.3			
☒ Temp / Dewpt	☒ TTM.1	☒ TDM.1	☒ TRadD.1		☒ TD.c	☒ TTMref	
	☒ TTM.2	☒ TDM.2	☒ TRadS.1		☒ TDMref	☒ TA.d	
	☐ TTM.3	☒ TDM.3	☐ TRadU.1				
☒ Misc. (Must check)					☒ UWZ.d	☒ WS.d	
					☒ DPJ_WSZ	☒ WD.d	
					☒ HUM		

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)	☒ X

NOTES:

A couple of spikes on AltGPS.4, AltRa1.c, AltRa2.c, LatGPS.4 and LonGPS.4
TDM.3 to be calibrated
HUM_REL spikes above 100
Wind Calibration Flight

NOAA Aircraft Operations Center - NOAA 42 Flight Manifest

FLIGHT INFORMATION				CREW MANIFEST				MISSION INFORMATION			
FLT ID:	2019080611	FLT #:		AC:	Abitbol	Scientists:		Pressure		Dropsondes	
From:	KLAL	ETD:	1400Z	CP(s):	Mitchell			A/C Takeoff	1011.5	Good	Bad
To:	KLAL	ETA:	1900Z	Nav(s):	Freeman			Wx Station Takeoff	1011.9	BTs	
Block Time		Flight Time		FE(s)	Darby			A/C Land	1009.8		
In:	1940	In:	1935	FD(s):	Heystek	Visitors:		Wx Station Land	1905		
Out:	1354	Out:	1404	SEB:	Holmes			Storm Number ID:			
Total:	5.8	Total:	5.5	SSA:	Lundry	Josh Mays Jezabel Vilardell Sanchez		TCPOD/WSPOD Mission		NA	
Sponsoring Org:		AOC		AVAPS:	Peek			(ie: AL072012)			
Program:		PMV			Greene			NA			
Purpose:		Wind Cal Flight			Naeher			TCPOD/WSPOD Mission			
								(ie: NOAA2 2418A SANDY)		NA	
								OBSERVATIONS			
AS REQUIRED BY ORM			Y	N	REMARKS			Fix Number	Obs Number	Fix Time	SLP
VOLCANIC ASH				X							
SCIENCE MISSION WITHIN BDRY LAYER				X							
LACK OF PRECIPITATION				X							
RELATIVE HUMIDITY ≥ 80%				X							
LARGE AIR-SEA TEMP GRADIENT				X							
HIGH SURFACE WINDS				X							
LONG FETCH / DURATION OF SFC WND				X							
SEA SALT ACCRETION FORECAST				X							
SEA SALT ACCRETION OBSERVED											

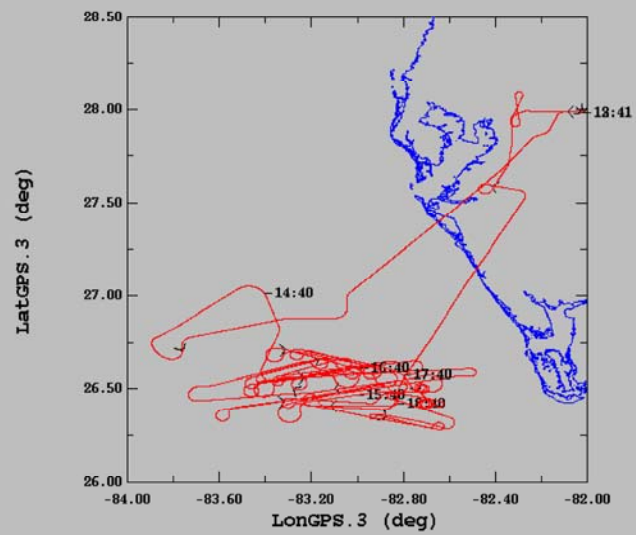
Additional Remarks:

Cockpit Gmax:

Gmin:

*Highlighted items must be completed before departure.

2019-08-06, 12:41:23-19:39:47



	mean	sigma	min	max
LatGPS.3 (deg), 1 s/sec	26.95	0.63	26.28	28.09
LongGPS.3 (deg), 1 s/sec	-82.80	0.50	-83.89	-82.01