N42RF ERROR SUMMARY
TORUS#5

Flight ID: 20190520H1

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/20190520H1

Local Met Data Takeoff (1811Z) Landing (0000Z)

Dynamic Corrections	Yes
AttackAngleIntercept	2.31252
AttackAngleSlope	6.06758
SlipAngleIntercept	0.4295
SlipAngleSlope	7.17033

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.

Some HUM_Rel.d spikes above 100%

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: Parrish, Lundry
Phone #: 8635003898
ACAT-4 Version = 7.2.2

T.O 1753 000/10 7K 29.99 9/7

Land 0057 9.4/8.3 ENE/L OVC900

NOAA Aircraft Operations Center - NOAA 42 Flight Manifest

FLIGHT INFORMATION

FLT ID:	20190520H1	**FLT #:**	1
From:	KSLN	**ETD:**	1900Z
To:	KSLN	**ETA:**	0300Z

Block Time		**Flight Time**	
In:	0127	On:	0123
Out:	1804	Off:	1811
Total:	7:23 (7.4)	Total:	7:12 (7.2)

Sponsoring Org:	
Program:	
Purpose:	

CREW MANIFEST

AC:	Kibbey	**Scientists:**
CP(s):	Rossi	Ziegler
	Didier	
Nav(s):	Richards	Stechman
		Wang
FE(s)	Darby	
	Sanchez	
FD(s):	Parrish	
	Lundry	**Visitors:**
SEB:	Mascaro	Malkoff (TWC)
	Peek	Reynolds (TWC)
SSA:	Patel	
AVAPS:		

MISSION INFORMATION

Pressure		**Dropsondes**		
		Good	Bad	Sent
A/C Takeoff				
x Station Take	1753Z 000/10 09/07 29.99	968.2	**BTs**	
		Good	Bad	Sent
A/C Land				
Vx Station Lan	0057Z 060/10 08/08 29.75	960.4		
Storm Number ID:				
(ie: AL072012)				
TCPOD/WSPOD Mission		TORUS #5		
(ie: NOAA2 2418A SANDY)				

OBSERVATIONS

Fix Number	Obs Number	Fix Time	SLP

AS REQUIRED BY ORM	Y	N	REMARKS
VOLCANIC ASH			
SCIENCE MISSION WITHIN BDRY LAYER			
LACK OF PRECIPITATION			
RELATIVE HUMIDITY ≥ 80%			
LARGE AIR-SEA TEMP GRADIENT			
HIGH SURFACE WINDS			
LONG FETCH / DURATION OF SFC WND			
SEA SALT ACCRETION FORECAST			
SEA SALT ACCRETION OBSERVED			

Additional Remarks: *Highlighted items must be completed before departure.

Cockpit Gmax: Gmin:

Flew ~20 legs SW corner of OK. Big bump near end of science. M.D.

34.43
100-19

P-3 QC Checklist

Flight ID:	20190520H1
Flight Director(s)	Parrish, Lundry

UWZ.d mean:	0.1

Pressure Comparison		
	T/O	Land
Aircraft	971.0	963.0
Tower	968.5	961.1

	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
	x 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	
	x PitchI.3	x PitchRateI.3	x RollI.3	x 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	x 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
☐	Miscellaneous FD Notes

QC Key	
Not checked	☐
Valid	☑
Errors (note)	X

NOTES:

TORUS #5

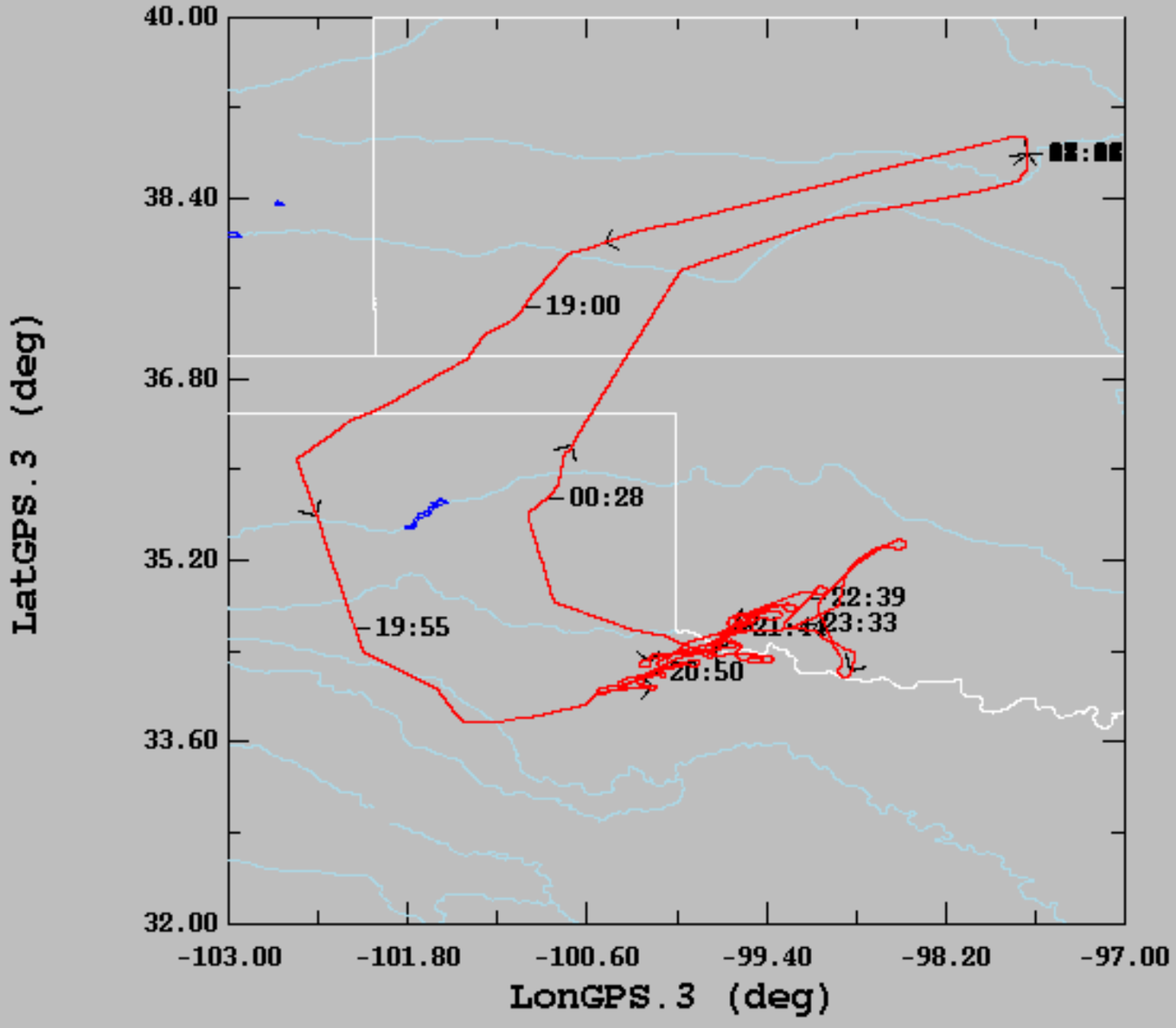
WD.d seems to be slightly influenced by heading

TDM.1 running warmer than TDM.2 and TDM.3 - also TDM.3 warmer at higher altitude and cooler and lower altitude

No PDALPHA.2, PitchI.3, PitchRateI.3, RollI.3, RollRateI.3, TRadU.1

Some HUM_REL.d spikes above 100%

2019-05-20, 17:11:40-25:23:04



	mean	sigma	min	max
LatGPS.3 (deg), 1 s/sec	35.94	1.81	33.77	38.95
LonGPS.3 (deg), 1 s/sec	-99.72	1.33	-102.54	-97.64