

N42RF ERROR SUMMARY
TORUS REPO KLAL to KSLN

Flight ID: 20190513H1

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/20190513H1

Local Met Data	Takeoff KLAL (1548Z)	Landing KSLN (1504Z)
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.

Used TDM.1 as reference, TDM.2 data was suspect during multiple intervals

PQAlpha.1 data suspect

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

1450Z 29/23 230/11 23/09C
 29.90 2.5 Sea 180071K4
 T.O. 3.5 Bkn 29.92

NOAA Aircraft Operations Center - NOAA 42 Flight Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20190513H1	FLT #:	1	AC:	Kibbey	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	1400Z	CP(s):	Rossi	Carrion	A/C Takeoff		Good	Bad	Sent
To:	KSLN	ETA:	1630Z			McFadden					
Block Time		Flight Time		Nav(s):	Richards	Olney	Wx Station Takeoff	230/11 29/23 29.90	BTs		
In:	1949Z	On:	1943								
Out:	1543Z	Off:	1549Z	FE(s):	Darby		A/C Land		Good	Bad	Sent
					Sanchez						
Total:	4:04(4.1)	Total:	3:54(3.9)	FD(s):	Parrish		Wx Station Land	18007 23/09 29.92	968.1		
					Lundry	Visitors:					
Sponsoring Org:				SEB:	Mascaro		Storm Number ID:				
Program:					Peek		(ie: AL072012)				
Purpose:				SSA:	Patel		TCPOD/WSPOD Mission		W	X	W
HAT repo					Miller		(ie: NOAA2 2418A SANDY)		X	A	T
				AVAPS:	Rogers				r	a	i
									n		
AS REQUIRED BY ORM				Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP	
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:

Cockpit Gmax:

Gmin:

*Highlighted items must be completed before departure.

P-3 QC Checklist

Flight ID:	20190513H1
Flight Director(s)	Parrish, Lundry
UWZ.d mean:	-13.07

Pressure Comparison		
	T/O	Land 1943
Aircraft	1008.0	966.0
Tower	1007.4	966.3

	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	x PQALPHA.1	x 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		x 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	x 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		

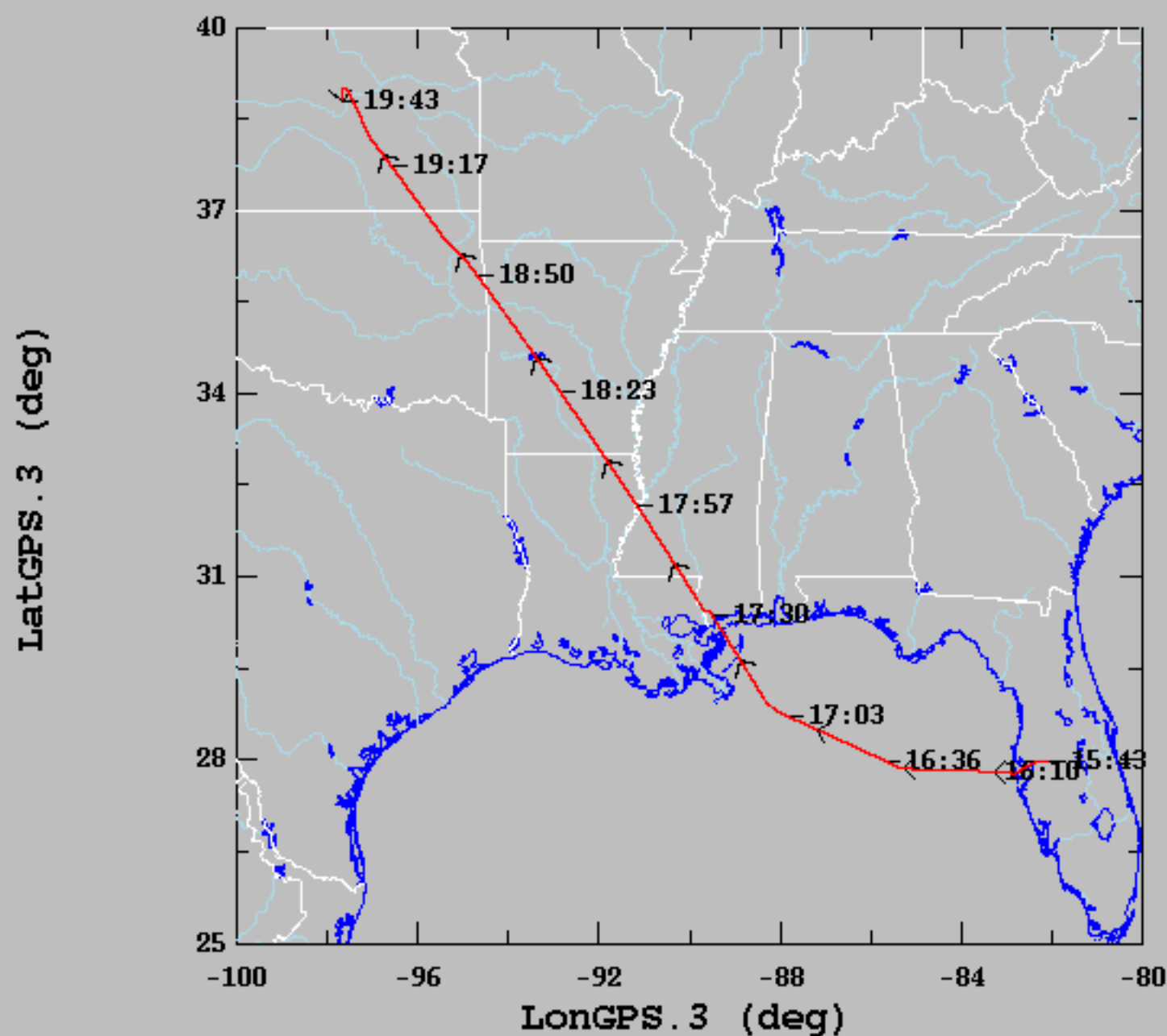
FLID_Mission_Documents.pdf:
☐ Error Summary
☐ Crew Manifest
☐ QC Checklist
n/a Dropwindsonde Log(s) - AVAPS and FD if completed
✓ Flight Track
☐ Miscellaneous FD Notes

QC Key	
Not checked	☐
Valid	✓
Errors (note)	x

NOTES:

Transit for TORUS from KLAL to KSLN
 No PDALPHA.2, PitchI.3, PitchRateI.3, RolLI.3, RollRateI.3, TRadU.1
 PQM.1 1610 to 1640 differs from PQM.2 and PQM.3
 PQALPHA.1 follows trend on PQM.1 from 1645 to 1925
 TDM.3 warmer at higher altitude and cooler at lower altitude, about 5 to 10 deg off from TDM.1
 WS.d and WD.d spikes at 1918 and 1922
 TDM.2 appears very smoothed at points

2019-05-13, 15:43:32-19:43:55



	mean	sigma	min	max
LatGPS.3 (deg), 1 s/sec	32.02	3.82	27.78	39.00
LongGPS.3 (deg), 1 s/sec	-90.18	4.73	-97.65	-82.01