

N42RF ERROR SUMMARY
20190514H1 TORUS #01

Flight ID: 20190514H1

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/20190514H1

Local Met Data	Takeoff KSLN (2031Z)	Landing KSLN (2150Z)
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.

PDAlpha.2 source not installed.

Instrument test mission. Clear conditions near KSLN.

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 #: 863-500-3985

ACAT-4 Version = 7.2.2

NOAA Aircraft Operations Center - NOAA 42 Flight Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20190514H1	FLT #:	1	AC:	Kibbey	Scientists:	Pressure		Dropsondes		
From:	KSLN	ETD:	2000Z		Rossi	Ziegler	A/C Takeoff	966	Good	Bad	Sent
To:	KSLN	ETA:	2130Z	CP(s):		Elmore					
Block Time		Flight Time			Richards	Stechman					
In:	2154Z	On:	2150Z	Nav(s):		Wang	x Station Take	2053Z 150/4 29/16 29.85	966.7	BTs	
Out:	2025Z	Off:	2031Z	FE(s)	Darby		A/C Land	967	Good	Bad	Sent
Total:	1.5	Total:	1.3		Sanchez	McFadden					
				FD(s):	Parrish						
Sponsoring Org:	NSSL			SEB:	Lundry	Visitors:	x Station Land	2153Z 200/04 29/16 29.84	966.4		
Program:	TORUS				Mascaro		Storm Number ID:	WXWXA Train			
Purpose:	TORUS #01			SSA:	Patel		(ie: AL072012)				
				AVAPS:	Miller		TCPOD/WSPOD Mission	TORUS #1			
							(ie: NOAA2 2418A SANDY)				
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					X						
SEA SALT ACCRETION OBSERVED					X						

Additional Remarks:

Cockpit Gmax:

Gmin:

*Highlighted items must be completed before departure.

APPENDIX 1 – P3 QC Checklist

Flight ID:	20190514W1 TORUS#01
Flight Director(s):	Parish Lundy

Pressure Comparison		
	T/O	Land
Aircraft	966	967
Tower	966.7	966.4

UWZ.d mean: 0.11

UWZ → Start 185448 End 223055 T.O. 2031 Land 2150

	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	☒ AltGPS.1	☒ AltPaADDU.1	☒ AltRA.1	☒ ALTref	☒ AltRA1.c
	☒ AltGPS.2	☒ AltGPS.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		☒ LatGPS.4			
☐ Pressure	☒ PDALPHA.1	☒ PQALPHA.1	☒ PQM.1	☒ PSM.1	☒ PDALPHAref	☒ 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	☒ LasADDU.1		☒ UAS.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			
☐ Miscellaneous (must check)					☒ UWZ.d	☒ WS.d
					☒ DPJ_WSZ	☒ WD.d
					☒ HUM_REL	

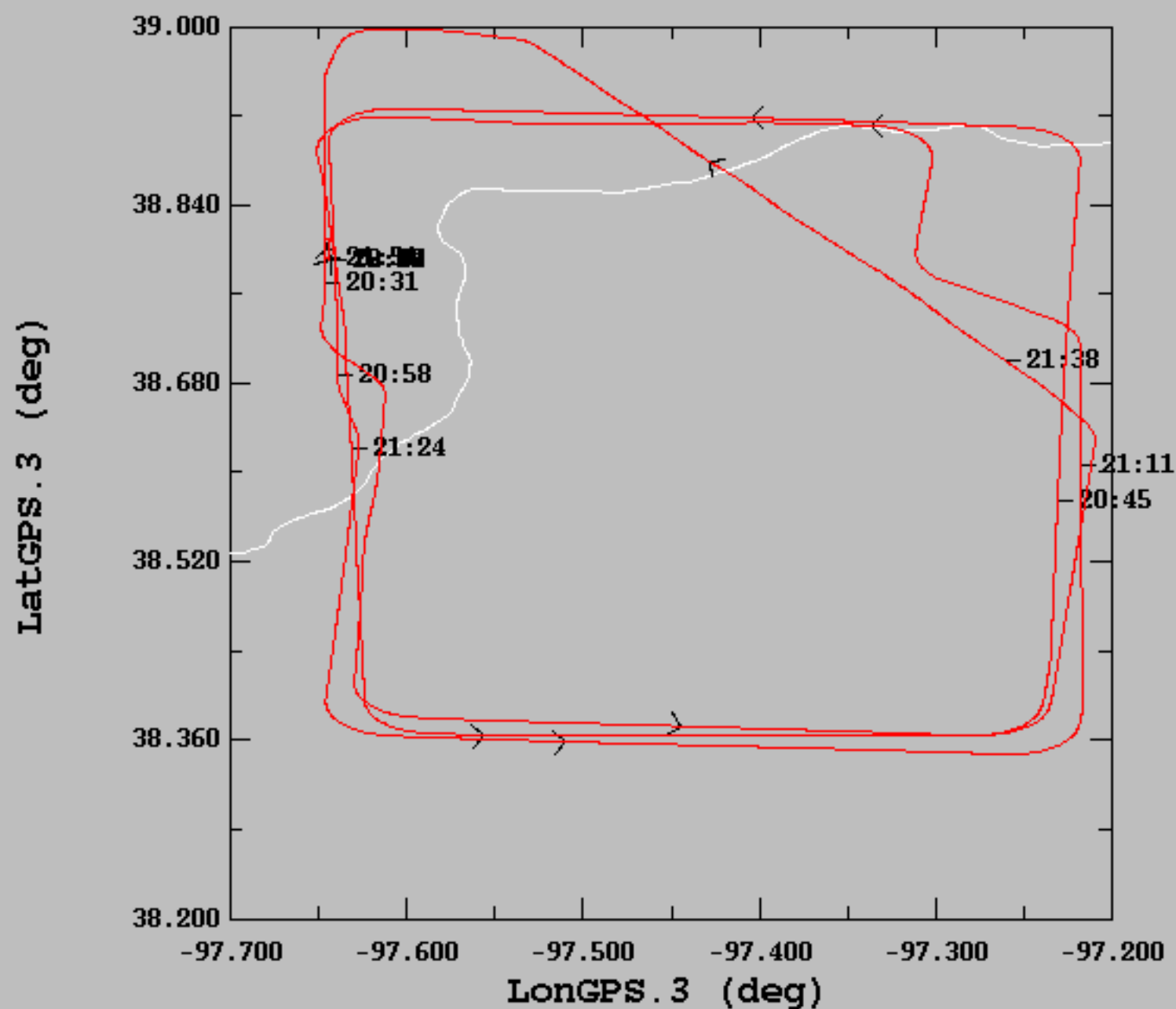
FLID_Mission_Documents.pdf:

☒ Error Summary
☒ Crew Manifest
☒ QC checklist
☒ Dropwindsonde Log(s) – AVAPS and FD if completed
☒ Flight Track
☒ Miscellaneous FD notes

NOTES:

Instrument test mission. Clear conditions
near KSN.
PDAlpha.2 not installed.

2019-05-14, 19:25:48-22:30:55



	mean	sigma	min	max
LatGPS.3 (deg), 1 s/sec	38.73	0.15	38.35	39.00
LongGPS.3 (deg), 1 s/sec	-97.56	0.15	-97.65	-97.21