

N42RF ERROR SUMMARY
20190526H1 TORUS #09

Flight ID: 20190526H1

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/20190526H1

Local Met Data	Takeoff KSLN (1740Z)	Landing KSLN (2320Z)
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.

No PDAlpha.1 source installed.

PQM1 dropouts 185453Z-185511Z, 185602Z-185607Z.

TDM.2, TDMref, and TD.c positive spike 225845Z-230045Z in heavy precip.

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:	20190526H1	FLT #:	1	AC:	Kibbey	Scientists:	Pressure		Dropsondes		
From:	KSLN	ETD:	1800Z		Rossi	Ziegler			Good	Bad	Sent
To:	KSLN	ETA:	0300Z	CP(s):	Didier	Wang	A/C Takeoff				
Block Time		Flight Time			Richards	Elmore		1653Z 20.00 16016624 24/19	BTs		
In:	2327	On:	2321	Nav(s):		Stechman	x Station Take		970.8		
Out:	1734	Off:	1740	FE(s)	Darby		A/C Land		Good	Bad	Sent
Total:	5:53(5.9)	Total:	5:41(5.7)	FD(s):	Sanchez						
					Parrish			2253Z 17019 24/19 29.94	968.9		
Sponsoring Org:				SEB:	Lundry	Visitors:	Vx Station Land				
Program:					Mascaro		Storm Number ID:				
Purpose:					Peek		(ie: AL072012)				
				SSA:	Patel		TCPOD/WSPOD Mission	TORUS #9			
				AVAPS:			(ie: NOAA2 2418A SANDY)				
AS REQUIRED BY ORM			Y	N	REMARKS		OBSERVATIONS				
							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.

APPENDIX 1 – P3 QC Checklist

TOBUS #09

Flight ID:	2019052641
Flight Director(s):	Parrish Lundberg

Pressure Comparison		
	T/O	Land
Aircraft	971	970
Tower	970.8	968.9

UWZ.d mean: 0.15

Start 155947 End 232117 T.O. 1740 Land 2321

	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		✓ LatGPS.4			
✓ Pressure	✓ PDALPHA.1	✓ PQALPHA.1	✓ PQM.1 Note	✓ 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	✓ 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 Note	✓ TTMref
	✓ TTM.2 Note	✓ TDM.2 Note	✓ TRadS.1		✓ TDMref Note	✓ TA.d
	✓ TTM.3	✓ TDM.3	✓ TRadU.1			
✓ Miscellaneous (must check)					✓ UWZ.d	✓ WS.d
					✓ DPJ_WSZ	✓ WD.d
					✓ HUM_AEL	

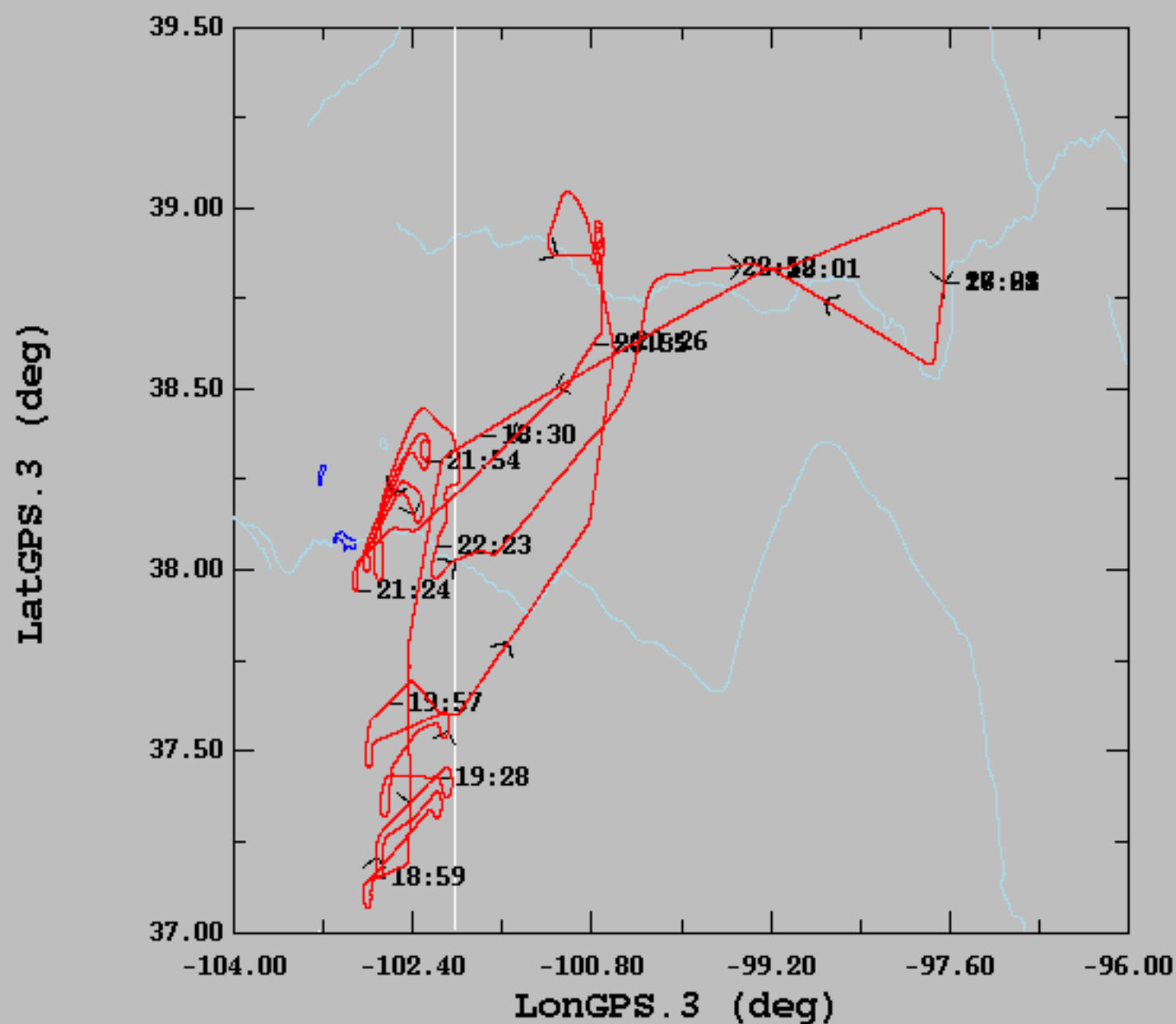
FLID_Mission Documents.pdf:

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

NOTES:

PQM1 Dropout 185453-185511, 185602-185607
 TTM2 > TTM1 by 23°C after 2138Z.
 TDM2, TDMref, TD.c spike 225845Z-230035Z in heavy precip.

2019-05-26, 16:34:00-23:21:17



	mean	sigma	min	max
LatGPS.3 (deg), 1 s/sec	38.30	0.54	37.07	39.05
LongGPS.3 (deg), 1 s/sec	-100.70	1.90	-102.94	-97.64