

N42RF ERROR SUMMARY
20190616H1

Flight ID: 20190616H1

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/20190616H1

Local Met Data	Takeoff KSLN (1915Z)	Landing KSLN (0213Z)
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 unavailable. TTM.3 unavailable. Trends in TDM.1 and TDM.3 are generally reasonable, but magnitude of the data is unrealistic. Momentary unrealistic supersaturations noted at 20:06Z and 20:43Z. TRadU.1 unavailable.

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: Carpenter / Holmes

Phone #: 863-500-3901

ACAT-4 Version = 7.2.2

U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N42RF Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20190616H1	FLT #:		AC:	Abitbol	Scientists:	Pressure		Dropsondes		
From:	KSLN	ETD:	19:30	CP(s):	Legidakes	Ziegler	A/C Takeoff	966.5	Good	Bad	Sent
To:	KSLN	ETA:	3:30		Mitchell	Elmore			0	0	0
Block Time		Flight Time		Nav(s):	Freeman	Wang	ASOS Takeoff	SLN 1853Z 967.9 mb			
In:	2:18	Land:	2:13	FE(s):	Heystek		A/C Land	965.6	Good	Bad	Sent
Out:	19:10	T/O:	19:16		Lalonde				0	0	0
Total:	7.13	Total:	6.95	FD(s):	Holmes		ASOS Land	SLN 0153Z 967.0 mb			
Sponsoring Org:		NSSL		SEB:	Patel		Storm Number ID:		N/A		
Program:		PBX					(ie: AL072012)				
Purpose:		TORUS Mission 18		SSA:	Mascaro		TCP0D/WSP0D Mission		N/A		
							(ie: NOAA2 2418A SANDY)				
				AVAPS:			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				X							
Gmax:				Gmin:	*Highlighted items must be completed before departure.						
Remarks:											

P-3 QC Checklist

Flight ID:	20190616H1
Flight Director(s)	Holmes, Carpenter
UWZ.d mean:	-0.01

Pressure Comparison		
	T/0	Land
Aircraft	966.5	965.6
Tower	KSLN 1853Z 967.9	KSLN 0153Z 967.0

	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
✗ Dropwindsonde Log(s) - AVAPS and FD if completed
✓ Flight Track
✗ Miscellaneous FD Notes

QC Key	
Not checked	☐
Valid	☒
Errors (note)	✗

NOTES:

PDAlpha.2 unavailable.

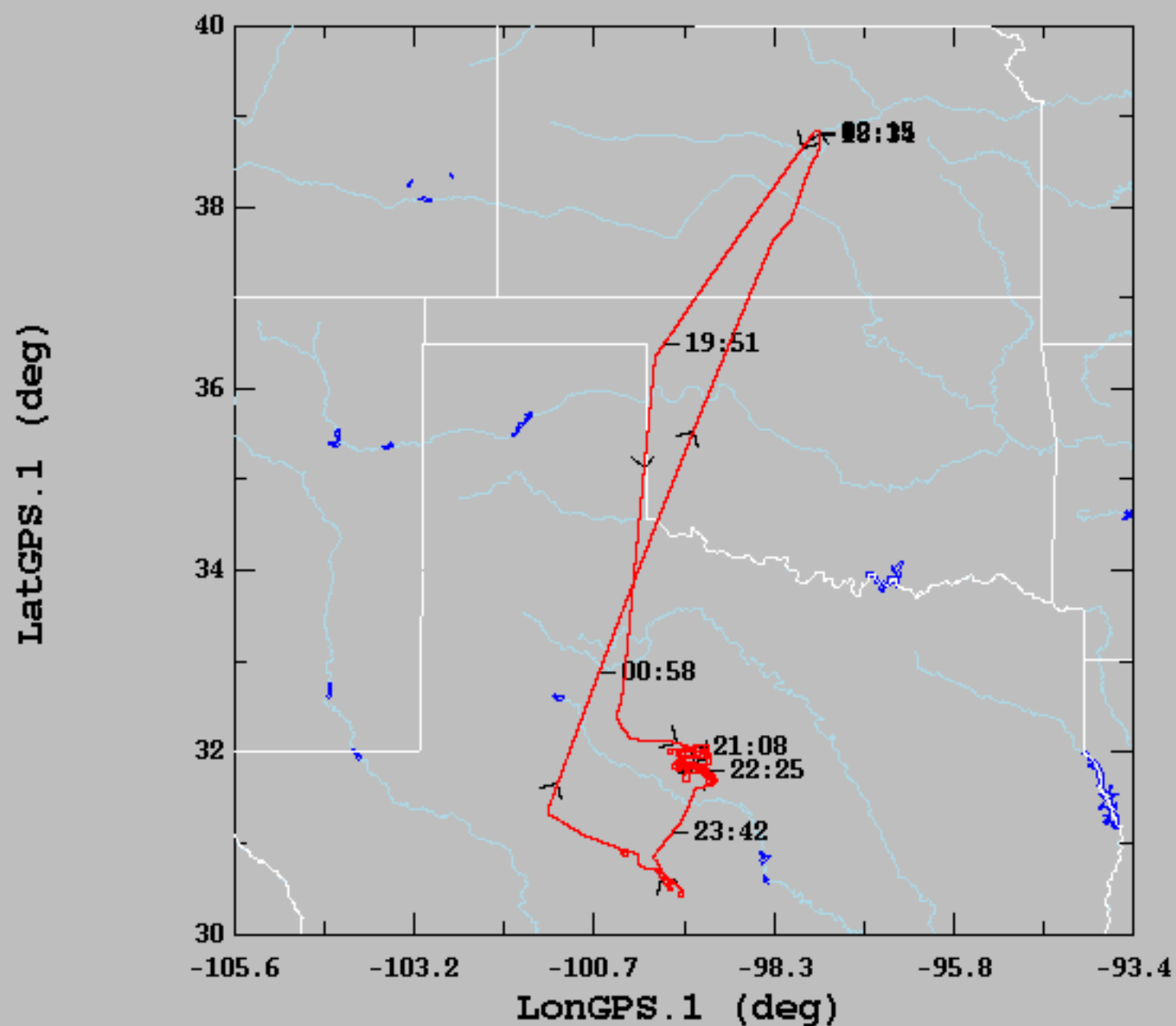
TTM.3 unavailable.

Trends in TDM.1 and TDM.3 are generally reasonable but magnitude of the data is unrealistic.

Momentary unrealistic supersaturations at 20:06Z and 20:43Z.

TRadU.1 unavailable.

2019-06-16, 18:34:49-26:15:38



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	33.80	2.80	30.42	38.84
LongGPS.1 (deg), 1 s/sec	-99.35	0.89	-101.33	-97.64