

N42RF ERROR SUMMARY
20190615H1

Flight ID: 20190615H1

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/20190615H1

Local Met Data	Takeoff KSLN (1922Z)	Landing KSLN (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.

PDAlpha.2 inoperative. PQM.1 unrepresentative after approximately 00:45Z. TTM.3 unavailable. TDM.3 generally less realistic but converges on representative values in agreement with TDM.1 and TDM.2 mid-flight. Moisture quantities unreliable during final descent. TRadD.1 upper limit 40C. TRadU.1 unavailable.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Drosondes	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:	20190615H1	FLT #:		AC:	Abitbol	Scientists:	Pressure		Dropsondes		
From:	KSLN	ETD:	19:00	CP(s):	Legidakes	Ziegler	A/C Takeoff	963.2	Good	Bad	Sent
To:	KSLN	ETA:	3:00			Elmore			0	0	0
Block Time		Flight Time		Nav(s):	Freeman	Wang	ASOS Takeoff	SLN 1853Z 964.6 mb	BTs		
In:	1:57	Land:	1:52	FE(s):	Heystek		A/C Land	963.0	Good	Bad	Sent
Out:	19:16	T/O:	19:22			Lalonde				0	0
Total:	6.68	Total:	6.50	FD(s):	Holmes		ASOS Land	SLN 0153Z 964.9 mb			
Sponsoring Org:		NSSL		SEB:	Patel		Storm Number ID:		N/A		
Program:		PBX					(ie: AL072012)				
Purpose:		TORUS Mission 17		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:	20190615H1
Flight Director(s)	Holmes, Carpenter
UWZ.d mean:	0.00

Pressure Comparison		
	T/0	Land
Aircraft	963.2	963.0
Tower	SLN 1853Z 964.6 mb	SLN 0153Z 964.9 mb

	Raw 1Hz Mean File Parameters					C File Parameters	
✓ Accelerometer	✓ AccAXI.1	✓ AccAYI.1	✓ AccAZI.1	✓ AccZfilter-GPS.1	✓ AccZfilter-GPS.2	✓ AccZref	
	✓ AccAXI.2	✓ AccAYI.2	✓ AccAZI.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	

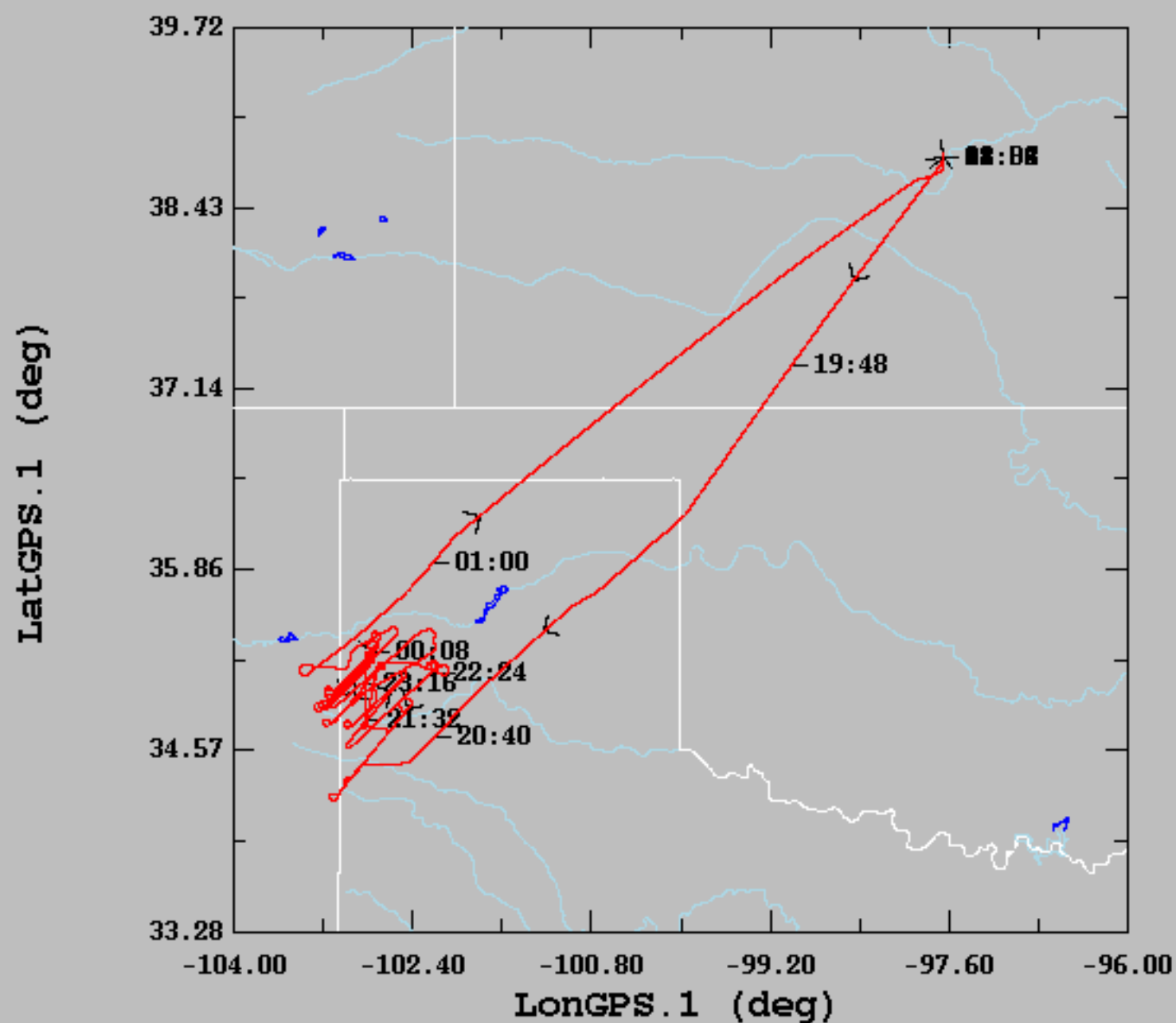
FLID_Mission_Documents.pdf:
✓ Error Summary
✓ Crew Manifest
✓ QC Checklist
✗ Dropwindsonde Log(s) - AVAPS and FD if completed
✓ Flight Track
✗ Miscellaneous FD Notes

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

NOTES:

PDAlpha.2 inoperative.
PQM.1 unrepresentative after 00:45Z.
TTM.3 unavailable.
TDM.3 generally less realistic but converges on representative values in agreement with TDM.1 and TDM.2 mid-flight.
Moisture quantities unreliable during final descent.
TRadD.1 upper limit 40C.
TRadU.1 unavailable.

2019-06-15, 18:04:43-25:52:55



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	36.18	1.57	34.21	38.81
LonGPS.1 (deg), 1 s/sec	-101.09	2.13	-103.40	-97.64