

N42RF ERROR SUMMARY
TS Nate

Flight ID: 20171006H2

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.2X
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/2017/MET/20171006H2

Local Met Data	Takeoff KLAL (1950Z)	Landing KLAL (0337Z)
Dynamic Corrections		Yes
AttackAngleIntercept		2.35256
AttackAngleSlope		6.11627
SlipAngleIntercept		0.23
SlipAngleSlope		6.9614

Notes:

TDM.2 was substituted with values TDM.1 from 213400Z to 214309Z.

Takeoff/Landing data: Data during landing and takeoff are potentially suspect. It is recommended that ground data not be used for scientific analysis.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	18	0	0
Test sondes	0	0	0
AXBTS	11	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Williams
Phone #: 863-500-3987

ACAT-4 Version = 7.1

NOAA Aircraft Operations Center - NOAA 42 Flight Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20171006H2	FLT #:		AC:	Price	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	2000Z	CP(s):	Mitchell		A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	0400Z		Rees	Rob Rogers, PI			18	0	18
Block Time		Flight Time		Nav(s):		Jun Zhang, HRD	Wx Station Takeoff		BTs		
In:	0345	In:	0339		Urato	Leon Nguyen, HRD			Good	Bad	Sent
Out:	1942	Out:	1952	FE(s):	Heystek	Jason Dunion, HRD	A/C Land		11		
					Sanchez	Benjamin Jaimes, UM					
Total:	8.1	Total:	7.8	FD(s):	Williams		Wx Station Land				
Sponsoring Org:		HRD		SEB:	Warnecke		Storm Number ID:				
Program:		AIPEx				Obs: Brian Richards	(ie: AL072012)		AL162017		
Purpose:		TS Nate		SSA:	Mascaro		TCPOD/WSPOD Mission				
							(ie: NOAA2 2418A SANDY)		NOAA2 WC16A NATE		
AVAPS: Patel											
AS REQUIRED BY ORM				Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					X		1	5	2142	994	
SCIENCE MISSION WITHIN BDRY LAYER					x		2	10	2255	992	
LACK OF PRECIPITATION					x		3	16	2352	991E	
RELATIVE HUMIDITY ≥ 80%				x			4	22	0112	992	
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											

Additional Remarks:

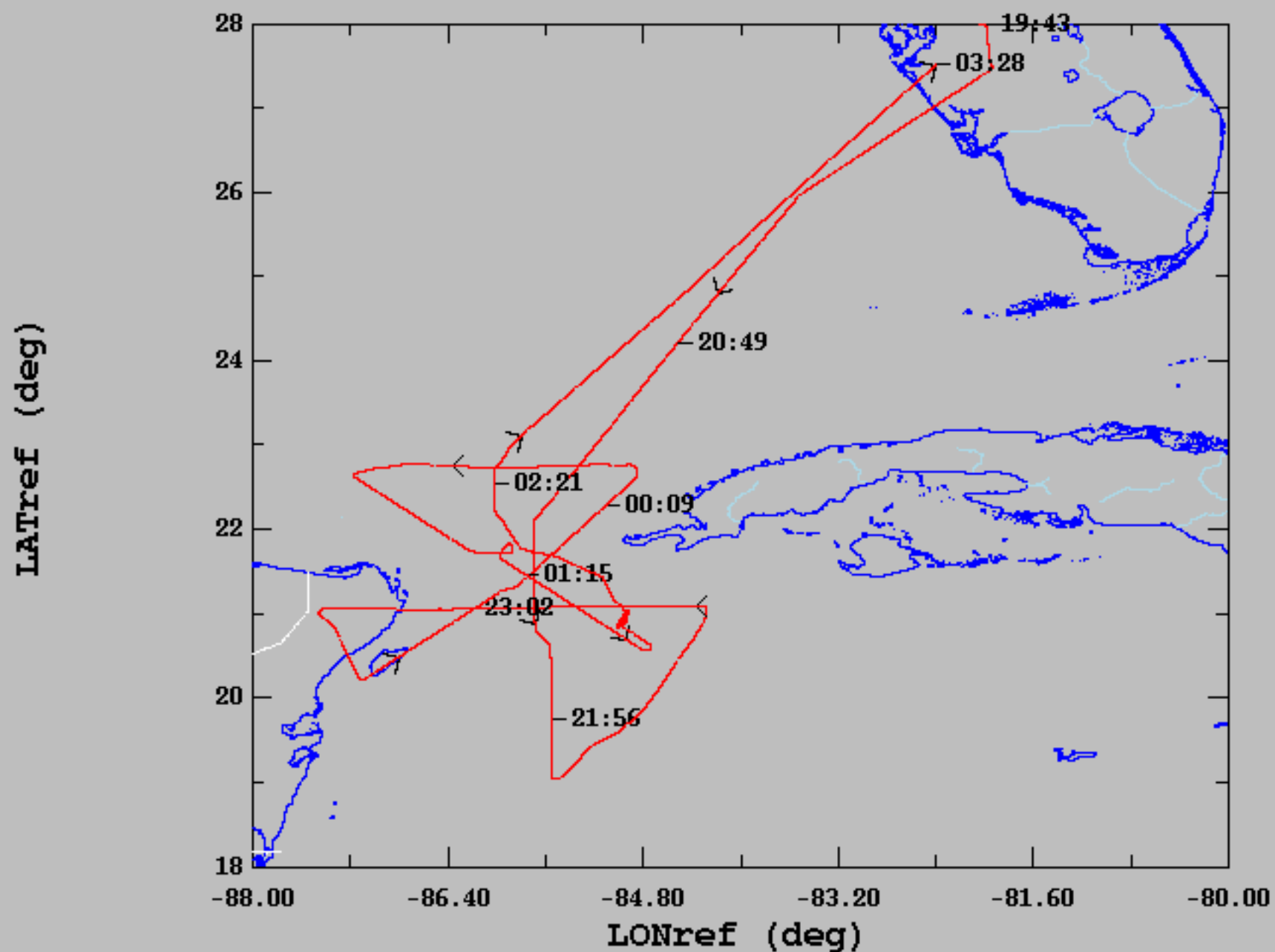
*Highlighted items must be completed before departure.

Cockpit Gmax:

Gmin:

TS Nate - HRD Research

2017-10-06, 19:43:15-27:28:26



	mean	sigma	min	max
— LATref (deg), 1 s/sec	22.63	2.29	19.04	27.99
— LONref (deg), 1 s/sec	-85.09	1.29	-87.45	-81.93

NOAA • AOC • SED N42RF AVAPS DROP LOG

Lead Tech: Mike Mascaro

Project: Hurricane 2017

Mission: TS N42Flight ID: 0012100647

Take Off: _____

Landing: _____

Flt Dir: _____

Text

	Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	1	163025024	1	-2.0	2122	ASP	HRD	1 P	✓
2	2	163335248	2	-1.0	2136			Mid Point ^{Combo} IB 1 st pass	✓
3	3	163625020	3	-0.9	2141			Center 1 st pass	✓
4	4	163255078	4	-0.9	2153			Mid P, OB, 1 st ^{Combo} pass	✓
4A	5	172620569	5	-1.0	2154			Test RD 41 (✓)	✓
5	6	163255076	1	-0.9	2206		HRD	End Point 1 st pass	✓
6	7	162735005	2	-1.2	2237			End point IB, 2 nd pass	✓
7	8	163455206	3	-0.9	2245			Mid Point IB, 2 nd pass, ^{Combo}	✓ (37X)
8	9	162655062	4	-1.2	2255			Center 2 nd pass ^{Combo}	✓
8A	10	172610290	6	-0.9	2255			Test RD 41 (✓)	✓
9	11	162255086	1	-1.0	2304		HRD	Mid Point OB, 2 nd pass	✓
10	12	163815042	2	-0.9	2330			End Point IB, 3 rd pass	✓
11	13	162815273	3	-1.0	2345			Mid Point IB, 3 rd pass ^{Combo}	✓
12	14	163325001	4	-1.2	0003			Mid Point 3 rd pass ^{Combo} OB	✓
12A	15	172620180	7	-0.9	0003			Test Conde RD 41 (✓)	✓
13	16	162735114	1	-1.2	0018		HRD	End Point OB, 3 rd pass	✓
14	17	162655004	2	1.2	0044	JW		Midpoint 4 th pass	✓
15	18	162655006	3	-1.5	0056			Center 4 th pass	✓
16	19	163815028	4	-1.8	0112			Midpoint 4 th pass	✓
16A	20	172640271	8	-1.1	0123			Midpoint 4 th pass RD 41	✓
17	21	162655017	1	-1.7	0123		HRD	Midpoint	✓
18	22	162735014	2	-1.9	0134		HRD		✓
18A	23	172620227	5	-1.9	0134			5 th RD 41 Sub	✓
	24								
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APPENDIX 1 – P3 QC Checklist

Flight ID:	20171006H2
Flight Director(s):	Williams

Pressure Comparison		
	T/O 1952	Land 0339
Aircraft	1007.7 (2)	1008.5 (2)
Tower	1008.3	1009.2

UWZ.d mean: 0.21

	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	Acc-Zfilter-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	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	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	

Mission Documents:

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

NOTES: pqm.1 spikes down erroneously twice, pqm.2 is default.

Tdm.2 is inaccurate from 213721Z to 214431Z, coinciding with a center fix, therefore tdm.1 is substituted in for this time period.