

N42RF ERROR SUMMARY
Hurricane Maria EMC TDR

Flight ID: 20170926H2

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/2017/MET/20170926H2

Local Met Data	Takeoff KLAL (1656Z)	Landing KLAL (0016Z)
Dynamic Corrections		Yes
AttackAngleIntercept		2.35256
AttackAngleSlope		6.11627
SlipAngleIntercept		0.23
SlipAngleSlope		6.9614

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.

pqm.1 spikes 2 times with less accurate data. Pqm.2 is default.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	6	0	6
Test sondes	0	0	0
AXBTS	0	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:	20170926H2	FLT #:		AC:	Price	Scientists:	Pressure		Dropsondes	
From:	KLAL	ETD:	1700Z	CP(s):	Kahn		A/C Takeoff		Good	Bad
To:	KLAL	ETA:	0200Z		Rossi					Sent
Block Time		Flight Time		Nav(s):	Freeman		Wx Station Takeoff		6	0
In:	0025	In:	0017	FE(s):	Heystek		A/C Land		BTs	
Out:	1644	Out:	1658		Sanchez				Good	Bad
Total:	7.7	Total:	7.3	FD(s):	Williams		Wx Station Land			Sent
					Henning	Visitors:				
Sponsoring Org:	EMC			SEB:	Paul	Matthew Badolato	Storm Number ID:			
Program:	TDR					Timothy Miller	(ie: AL072012)		AL152017	
Purpose:	Maria			SSA:	Mascaro		TCPOD/WSPOD Mission			
				AVAPS:	McAlister		(ie: NOAA2 2418A SANDY)		NOAA2 2915A MARIA	
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										

Additional Remarks:

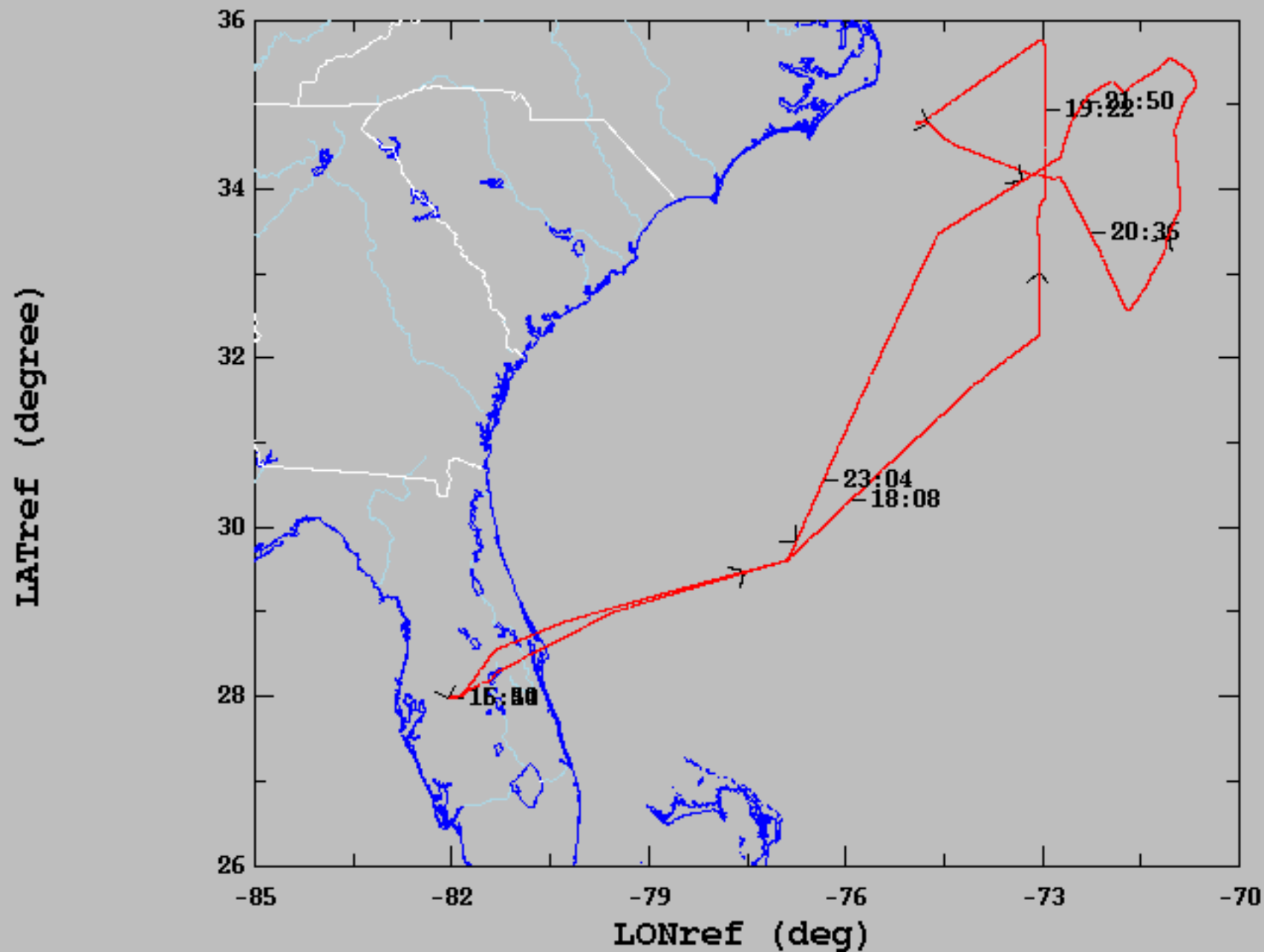
Cockpit Gmax:

Gmin:

*Highlighted items must be completed before departure.

Hurricane Maria EMC TDR

09/26/2017, 15:40:57-24:18:02



	mean	sigma	min	max
LATref (degree), 1 s/sec	31.51	2.70	27.98	35.75
LONref (deg), 1 s/sec	-76.21	3.82	-82.03	-70.65

NOAA • AOC • SED N42RF AVAPS DROP LOG

Lead Tech: Mike Mascaro

Project: Hurricane 2017

Mission: Hurricane MariaFlight ID: 20190926H2

Take Off: _____

Landing: _____ Flt Dir: Jess

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	163335086	1	-1.0	1844	Mac	HFIP	1P #1 South	✓
2	162735071	2	0	1908	Mac	NWS	1 st pass center drop	✓
3	162715181	1	-1.0	1958	Mac	HFIP	NW Drop	✓
4	162815091	2	-0.5	2024	Mac	NWS	2 nd pass center drop	✓
5	162655191	1	-0.3	2132	Mac	HFIP	NE Drop	✓
6	162715132	2	-1.1	2201	Mac	NWS	3 rd pass center drop	
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APPENDIX 1 – P3 QC Checklist

Flight ID:	20170926H2
Flight Director(s):	Williams / Henning

Pressure Comparison		
	T/O 1658	Land 0017
Aircraft	1008.3 (2)	1006.3
Tower	1008.6	1007.2

UWZ.d mean: 0.22

	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	LongGPS.1	Loni-GPS.1	LATref	
	LatGPS.2	Lati-GPS.2	LongGPS.2	Loni-GPS.2	LONref	
	LatGPS.3		LongGPS.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:

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

NOTES: pqm.1 spikes 2 times with less accurate data. Pqm.2 is default.