

N42RF ERROR SUMMARY  
Hurricane Jose EMC TDR

Flight ID: 20170918H1

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.1
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/20170918H1

Local Met Data	Takeoff KLAL (0749Z)	Landing KLAL (1600Z)
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 dropout for 30s from 132600Z to 132630Z, and 15Z until landing.

PQM.2 is reference.

PDAlpha.2 is erroneously flat, PDAlpha.1 is reference.

TDM.1 spikes erroneously from 0944-0953Z. TDM.3 too high entire flight.

TDM.2 if reference.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	5	5	5
Test sondes	0	0	0
AXBTs	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

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

ACAT-4 Version = 7.1

## NOAA Aircraft Operations Center - NOAA 42 Flight Manifest

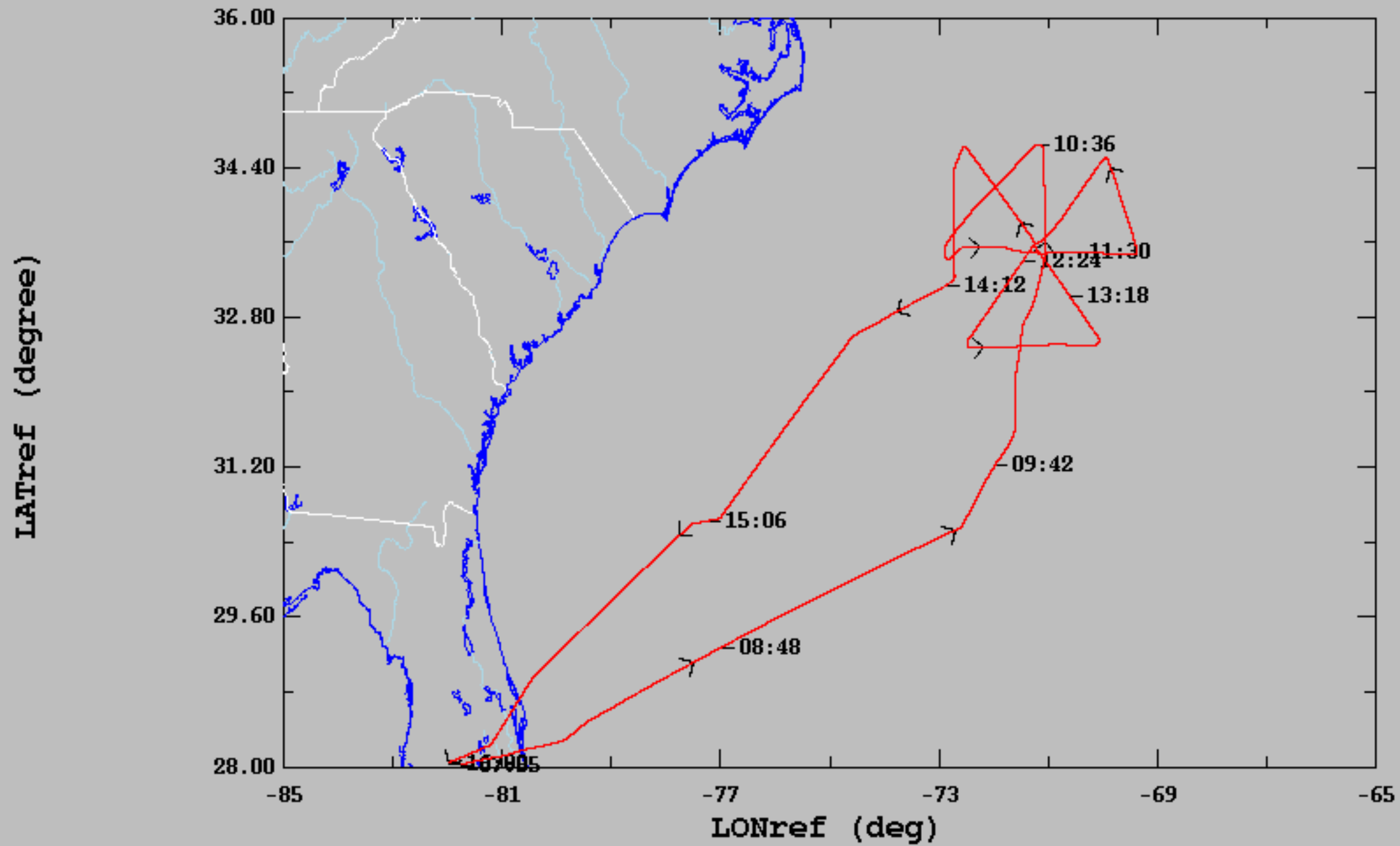
FLIGHT INFORMATION				CREW MANIFEST				MISSION INFORMATION					
FLT ID:	20170918H1	FLT #:		AC:	Kibbey	Scientists:		Pressure		Dropsondes			
From:	KLAL	ETD:	0800Z	CP(s):	Mitchell			A/C Takeoff		Good	Bad	Sent	
To:	KLAL	ETA:	1600Z	Nav(s):	Didler	Jonathan Zwiolak		Wx Station Takeoff		5	0	5	
Block Time				Nav(s):	Urato	Kelly Ryan				BTS			
In:	1611	In:	1602	FE(s)	Sloan					Good	Bad	Sent	
Out:	0741	Out:	0751	FD(s):	Darby			A/C Land		0			
Total:	8.5	Total:	8.2	SEARS	Tuffnell			Wx Station Land					
Sponsoring Org:	EMC/NHC	SEB:		SEARS	Williams	Visitors:		Storm Number ID:		AL122017			
Program:	PRX	SSA:		SEB:	Richards			(ie: AL072012)					
Purpose:	Hurricane TDR 1505L	AVAPS:		SSA:	Patel			TCPD/WSPD Mission		NOAA2 1212A JOSE			
				AVAPS:	Lynch, T			(ie: NOAA2 2418A SANDY)					
AS REQUIRED BY ORM				REMARKS				OBSERVATIONS					
VOLCANIC ASH		Y	N					Fix Number	Obs Number	Fix Time	SLP		
SCIENCE MISSION WITHIN BDRY LAYER			X					1	8	1017	E975		
LACK OF PRECIPITATION		X						2	11	1122	E976		
RELATIVE HUMIDITY ≥ 80%		X						3	14	020	E977		
LARGE AIR-SEA TEMP GRADIENT		X						4	18	1330	978		
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:

# Hurricane Jose, EMC

09/18/2017, 07:55:00-16:00:00



— LATref (degree), 1 s/sec  
— LONref (deg), 1 s/sec

	mean	sigma	min	max
LATref (degree), 1 s/sec	31.89	2.04	28.02	34.65
LONref (deg), 1 s/sec	-73.92	3.50	-81.95	-69.36



## APPENDIX 1 – P3 QC Checklist

<b>Flight ID:</b>	20170918H1
<b>Flight Director(s):</b>	Sears/Williams

Pressure Comparison		
	T/O 0751	Land 1602
<b>Aircraft</b>	<b>1008.4 2</b> 1009.2 1	<b>1009.9 2</b> 1011.0 1
<b>Tower</b>	<b>1009.5</b>	<b>1011.0</b>

**UWZ.d mean:** 0.16 from t/o to land, 0.17 mission

	Raw 1Hz Mean File Parameters				C File Parameters	
<input checked="" type="checkbox"/> 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			
<input checked="" type="checkbox"/> 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					
<input checked="" type="checkbox"/> Ground Speed	GsXI-GPS.1	GsYI-GPS.1	GsZI-GPS.1		GSXref	
	GsXI-GPS.2	GsYI-GPS.2	GsZI-GPS.2		GSYref	
					GSZref	
<input checked="" type="checkbox"/> 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			
<input checked="" type="checkbox"/> 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
<input checked="" type="checkbox"/> Air Speed	CasADDU.1	TasADDU.1	IasADDU.1		IAS.d	TAS.d
<input checked="" type="checkbox"/> 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		
<input checked="" type="checkbox"/> 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			
<input checked="" type="checkbox"/> Miscellaneous (must check)					UWZ.d	WS.d
					DPJ_WSZ	WD.d
					HUM	

### Mission Documents:

<input checked="" type="checkbox"/>	Error Summary
<input checked="" type="checkbox"/>	Crew Manifest
<input checked="" type="checkbox"/>	QC checklist
<input checked="" type="checkbox"/>	Dropwindsonde Log(s) – AVAPS and FD if completed
<input checked="" type="checkbox"/>	Miscellaneous FD notes

**NOTES:** pqm.1 drops out 30s from 132600Z to 132630Z, and 15Z until end. pqm.2 is ref. Pdalp.2 is flat and shows + numbers. Tdm.1 spikes up erroneously from 0944-0953Z. Tdm.3 is too high entire flight. Tdm.2 is ref.