

N42RF ERROR SUMMARY
20170902H1

Flight ID: 20170902H1

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/20170902H1

Local Met Data	Takeoff KLAL (1340Z)	Landing TBPB (2003Z)
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.

PSM.1 ~2mb higher than PSM.2, PTM.1 ~85mb higher than PSM.1/2
AccAX.1 lower than AccAX.2, AccAY.1 higher than AccAX.2
TDM.1 about 1.5C higher than TDM.2, TDM.3 ~10C high

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: Belson/Parrish
Phone #: 863-500-3981

ACAT-4 Version = 7.1

NOAA Aircraft Operations Center - NOAA 42 Flight Manifest

Flight Information								Crew Manifest			Mission Information					
FLT ID:	20170902H1		FLT #:			AC:	Price	Scientists:	Pressure		Dropsondes					
From:	KLAL		ETD:	1500Z		CP(s):	Kahn		A/C Takeoff	1013.5	Good	Bad	Sent			
To:	TBPB		ETA:	2100Z			Rees	Canton			0	0	0			
Block Time			Flight Time			Nav(s):	Sloan	Mitchell	Wx Station	1013.4	BTs					
In:	2252		In:	2248			Freeman	Sanchez	Takeoff		Good	Bad	Sent			
Out:	1612		Out:	1626		FE(s):	Darby	Tufnell, Todd	A/C Land	1008.0	0	0	0			
Total:	6.7		Total:	6.4			Hoylek	Pannish								
Sponsoring Org:	EMC/NHC					FD(s):	Holmes	Urato	Wx Station	1007.9						
Program:	PRX					SEB:	Bolson	Visitors:	Land							
Purpose:	Repo					SSA:	McNistor	Oliney	Storm Number ID:							
							Warnecke		(ie: AL072012)							
							Mascaro		TOPOD/WSPOD Mission							
							Newnam		(ie: NOAA2 2418A SANDY)	NOAA2 WXWXA TRAIN						
						AVAPS:	Kregelka			OBSERVATIONS						
AS REQUIRED BY CRM				Y	N	REMARKS				Fx Number	Obs Number	Fx 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											

Additional Remarks:

*Highlighted items must be completed before departure.

Cockpit Gmax: 1.1

Gmin: 0.9

APPENDIX 1 – P3 QC Checklist

Flight ID:	20170902H1
Flight Director(s):	Belson, Parrish

Pressure Comparison		
	T/O	Land
Aircraft	1013.5	1008.0
Tower	1013.4	1007.9

UWZ.d mean: 0.07

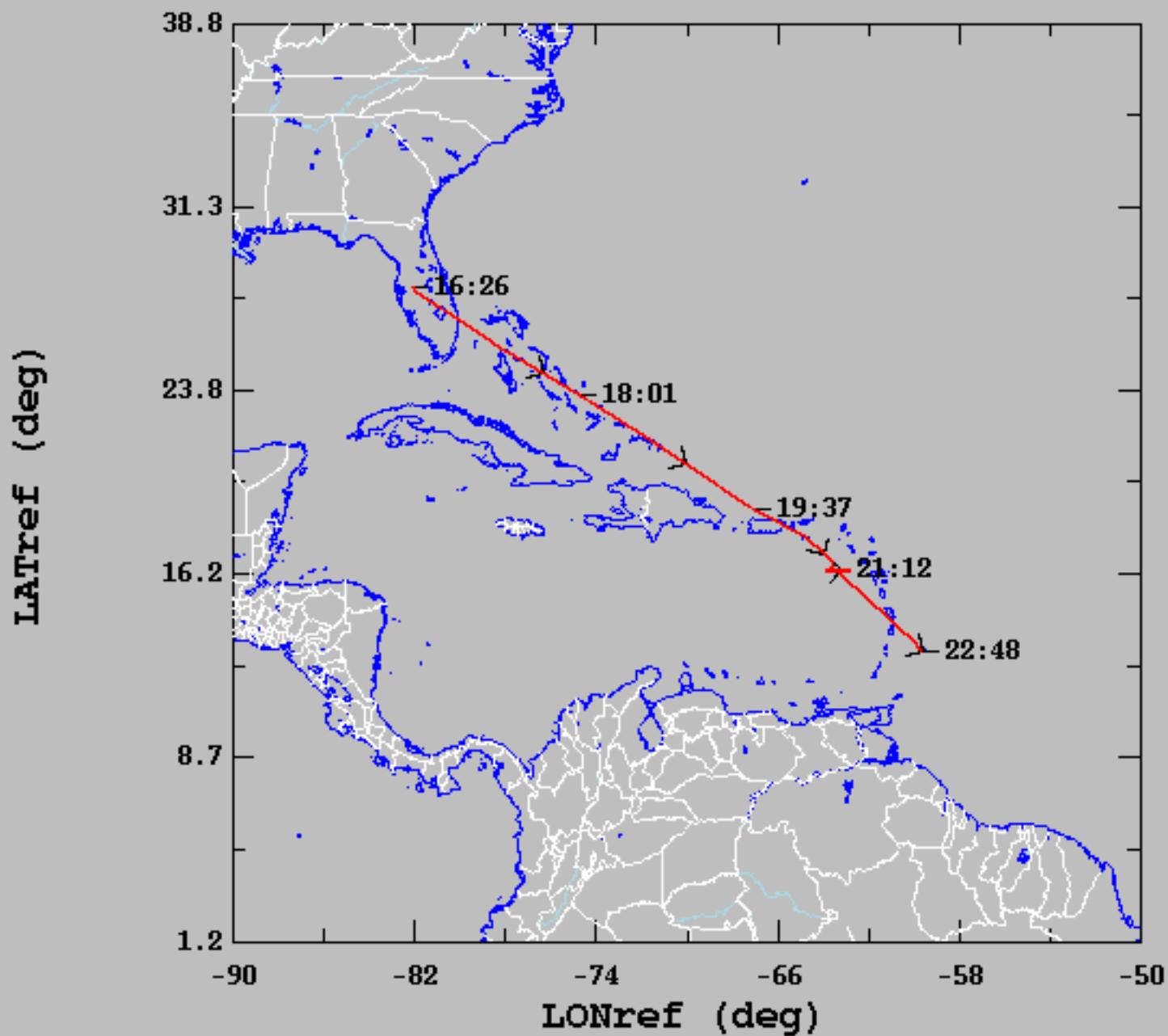
	Raw 1Hz Mean File Parameters					C File Parameters				
x Accelerometer	x AccAXI.1	x AccAYI.1	x AccAZI.1	x AccZfilter-GPS.1	x AccZref					
	x AccAXI.2	x AccAYI.2	x AccAZI.2	x Acc-Zfilter-GPS.2						
	x AccAXI-GPS.1	x AccAYI-GPS.1	x AccAZI-GPS.1							
	x AccAXI-GPS.2	x AccAYI-GPS.2	x AccAZI-GPS.2							
x Altitude	x AltGPS.1	x AltI-GPS.1	x AltPaADDU.1	x AltRA.1	x ALTrref	x AltRA1.c				
	x AltGPS.2	x AltI-GPS.2	x AltBCADDU.1	x AltRA.2	x ALTPA.d	x AltRA2.c				
	x AltGPS.3				x ALTGA.d					
	x AltGPS.4									
x Ground Speed	x GsXI-GPS.1	x GsYI-GPS.1	x GsZI-GPS.1			x GSXref				
	x GsXI-GPS.2	x GsYI-GPS.2	x GsZI-GPS.2			x GSYref				
						x GSZref				
x Lat/Lon	x LatGPS.1	x Lati-GPS.1	x LonGPS.1	x Loni-GPS.1	x LATref					
	x LatGPS.2	x Lati-GPS.2	x LonGPS.2	x Loni-GPS.2	x LONref					
	x LatGPS.3			x LonGPS.3						
	x LatGPS.4			x LatGPS.4						
x Pressure	x PDALPHA.1	x PQALPHA.1	x PQM.1	x PSM.1	x PDALPHArefer	x PQMref				
	x PDALPHA.2	x PQBETA.1	x PQM.2	x PSM.2	x PDBETArefer	x PQ.c				
	x PDBETA.1			x PTM.1	x PQALPHArefer	x PSMref				
	x PDBETA.2			x PQM.4	x PQBETArefer	x PS.c				
x Air Speed	x CasADDU.1	x TasADDU.1	x lasADDU.1		x IAS.d	x TAS.d				
x Pitch/Roll	x PitchI.1	x PitchRateI.1	x RollI.1	x RollRateI.1	x PITCHref					
	x PitchI.2	x PitchRateI.2	x RollI.2	x RollRateI.2	x ROLLref					
	x PitchI.3	x PitchRateI.3	x RollI.3	x RollRateI.3						
x Temp/Dewpt	x TTM.1	x TDM.1	x TRadD.1			x TD.c	x TTMref			
	x TTM.2	x TDM.2	x TRadS.1			x TDMref	x TA.d			
	x TTM.3	x TDM.3	x TRadU.1							
x Miscellaneous (must check)						x UWZ.d	x WS.d			
						x DPJ_WSZ	x WD.d			
						x HUM				

FLID_Mission_Documents.pdf:

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

NOTES:

2017-09-02, 16:26:00-22:48:00



	mean	sigma	min	max
LATref (deg), 1 s/sec	19.84	4.24	13.05	27.99
LONref (deg), 1 s/sec	-68.88	6.72	-82.03	-59.51

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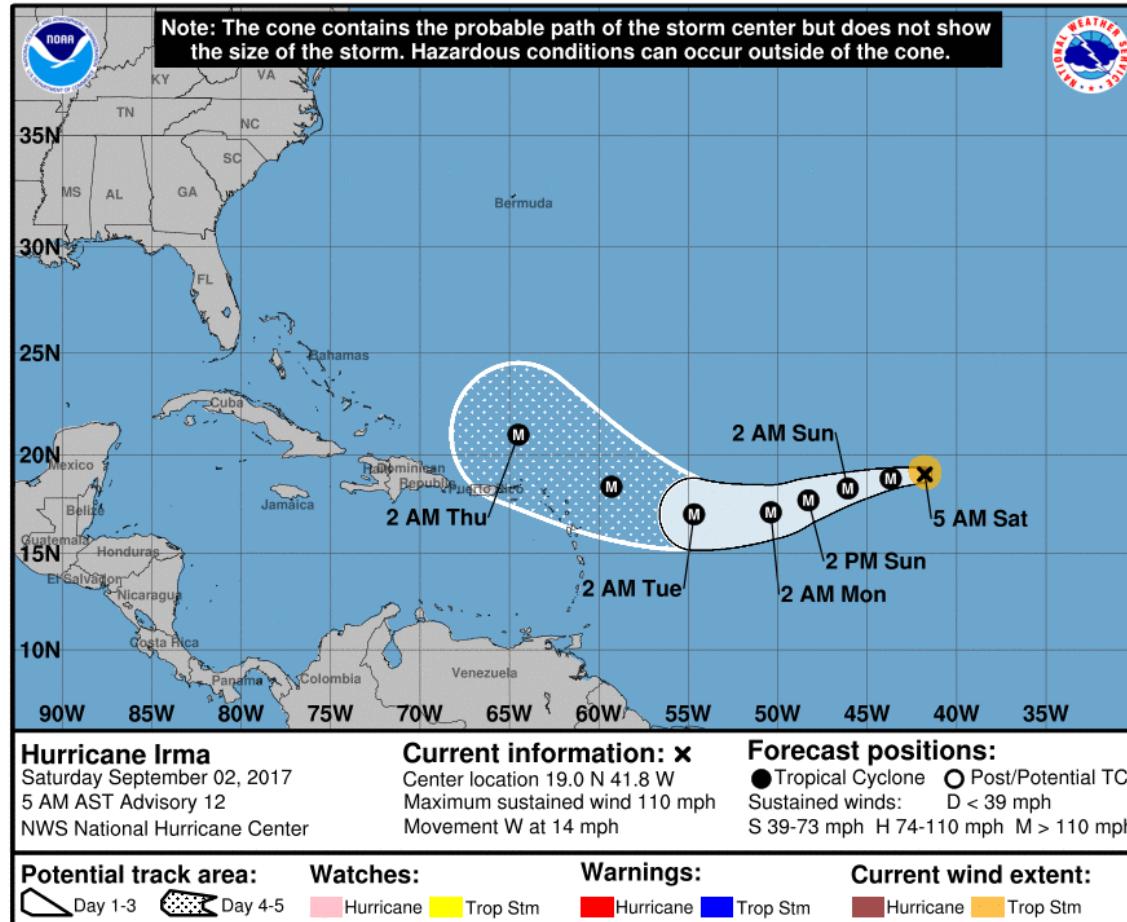
KLAL - TBPD

21 AOC
T/O 1500Z
ETE 5+00
NOAA2 WXWXA TRAIN

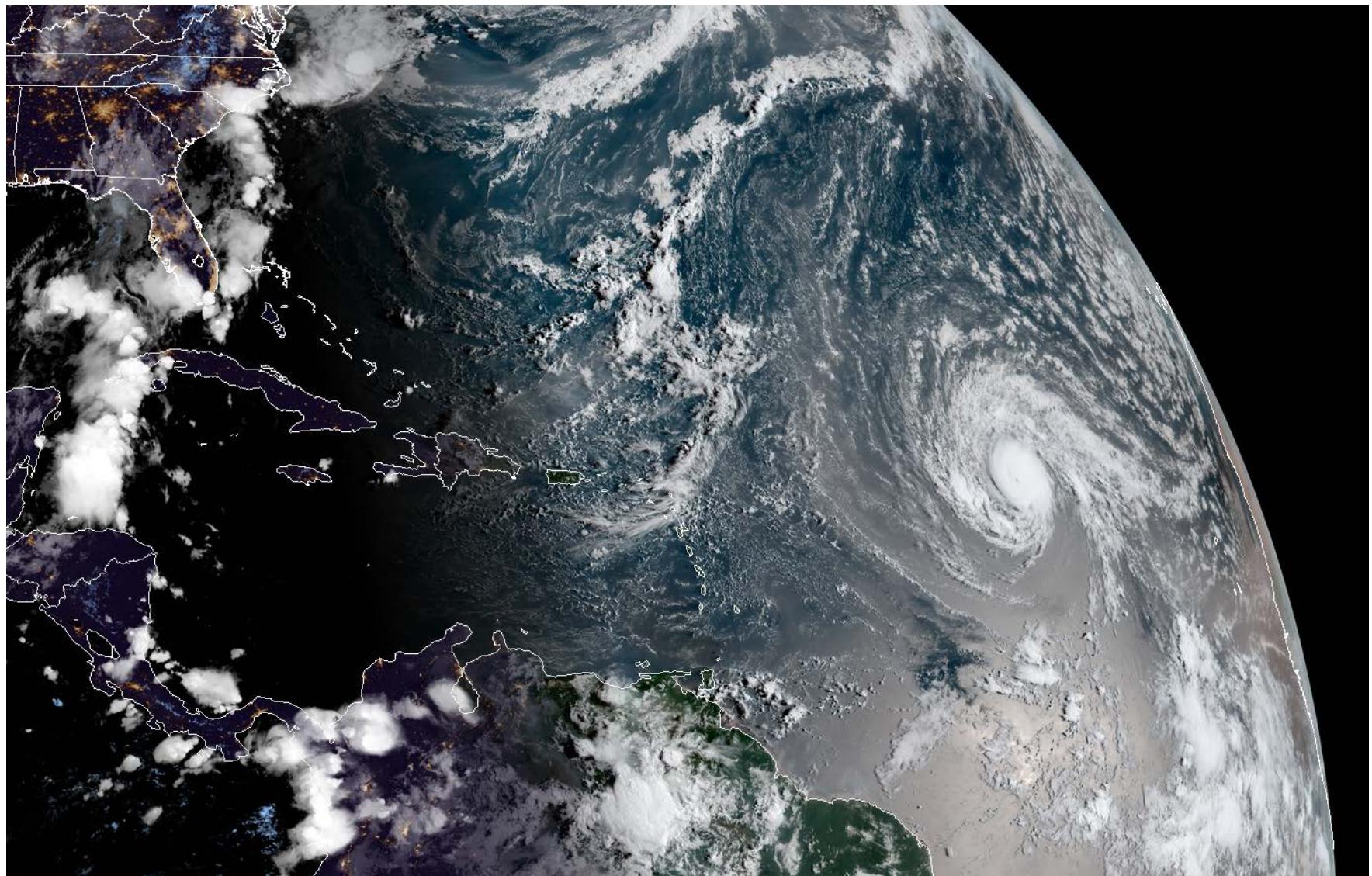
Mini-SFMR cal

- Buoy 42060 (16.406 N, -63.188 W)
- 20K, 10K, 5K Pressure
- 210 KIAS
- 2x5 min straight/level legs, centered on buoy
 - Teardrop turns
 - Descend on track
 - Perpendicular to swell
- Can't begin until 1945Z (sun angle)

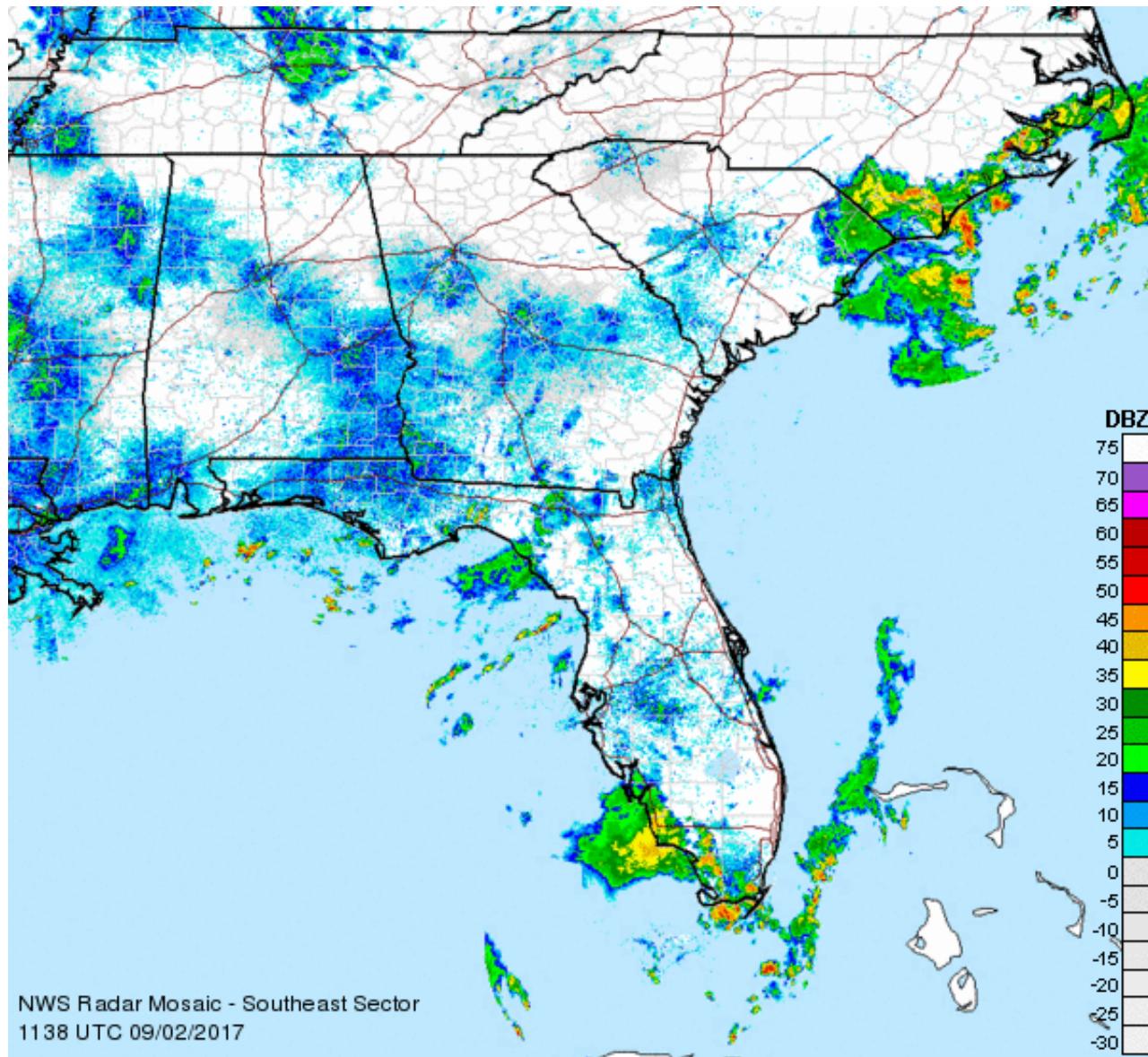
STORM FORECAST



SATELLITE

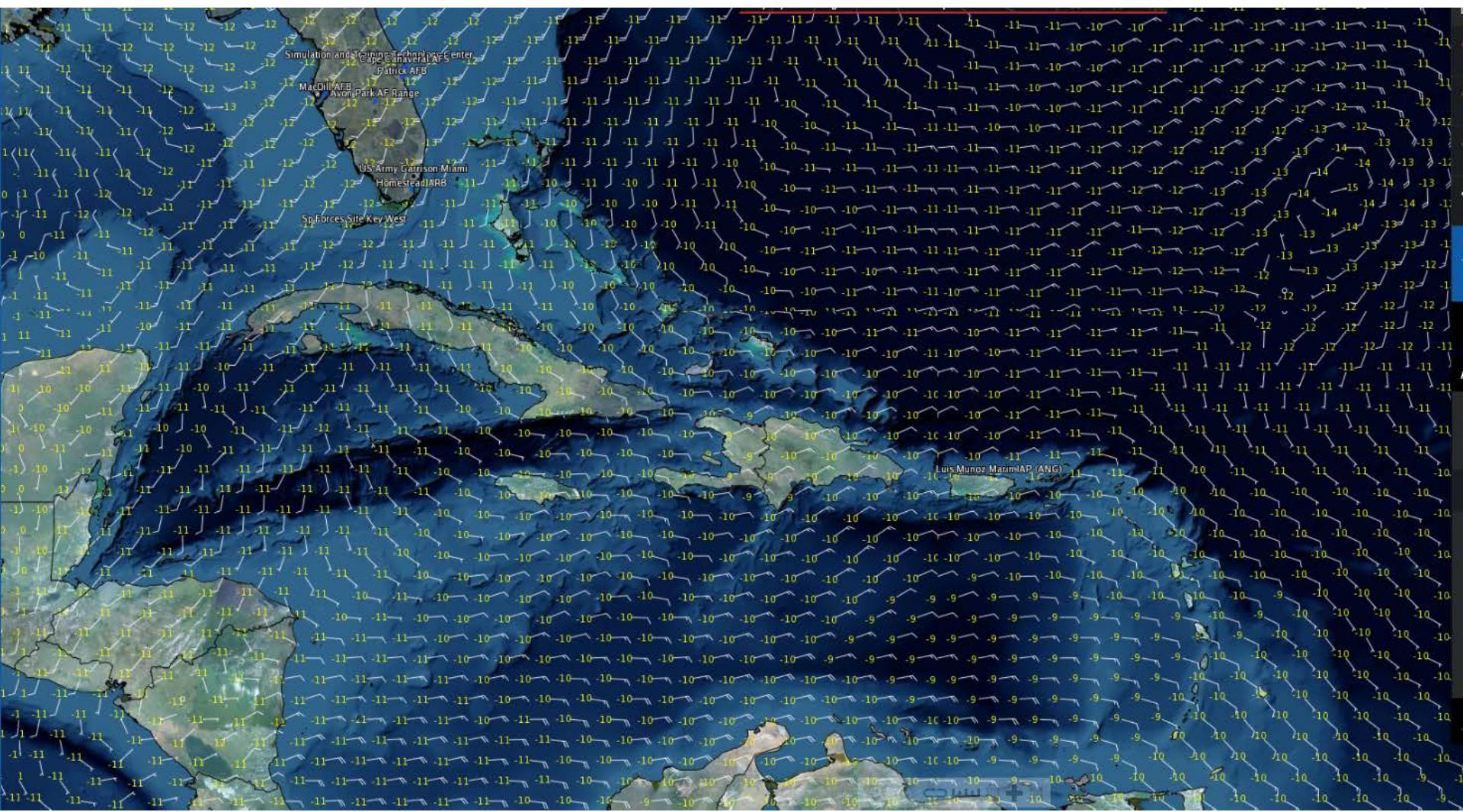


Radar



Transit FL210

VT 02/18Z



Airfield Wx

- KLAL 021150Z 00000KT 10SM BKN090 23/23 A3005
- **KLAL 021126Z 0212/0312 VRB03KT P6SM SCT100 BKN200**
FM021600 24005KT P6SM VCTS SCT035CB BKN100
FM022300 28005KT P6SM VCTS SCT040CB BKN100
FM030100 VRB03KT P6SM VCSH SCT120 BKN250
FM030400 VRB03KT P6SM SCT120 BKN250
- TBPB 021100Z 13010KT 9999 -SHRA SCT020 28/25 Q1014 NOSIG
- TAF TBPB 021100Z 0212/0312 10008KT 9999 SCT020

Hazards

- Icing - Freezing / Melting Altitude 16,000 ft
- Turbulence – in convection
- Volcanic Ash - Negative
- HD - no
- Rapid Intensification – n/a
- Sea Salt Accretion Forecast – Negative
 - Boundary Layer - No
 - Lack of Precip - No
 - RH > 80% - No
 - Large sea surface / air temperature gradient - No
 - High Surface Winds - No
 - Long fetch / duration - No