



## NOAA Aircraft Operations Center - NOAA 42 Flight Manifest

FLIGHT INFORMATION				CREW MANIFEST				MISSION INFORMATION					
<b>FLT ID:</b>	20170905H2	<b>FLT #:</b>		<b>AC:</b>	Price	<b>Scientists:</b>		<b>Pressure</b>		<b>Dropsondes</b>			
<b>From:</b>	TBPB	<b>ETD:</b>	2000Z	<b>CP(s):</b>	Mitchell	Zawislak, Jon	Zhang, Jun	A/C Takeoff	1002.0	Good	Bad	Sent	
<b>To:</b>	TBPB	<b>ETA:</b>	0230Z		Rees			15	0	15			
<b>Block Time</b>		<b>Flight Time</b>		<b>Nav(s):</b>	Sloan			Wx Station Takeoff	1001.6	<b>BTs</b>			
In:	0256	In:	0247	Urato				A/C Land	1005.2	Good	Bad	Sent	
Out:	2030	Out:	2035	<b>FE(s)</b>	Darby	<b>Visitors:</b>	Wx Station Land	1004.8	0	0	0		
Total:	6.4	Total:	6.2	Tuffnel, Todd									
<b>FD(s):</b>		<b>SEB:</b>		Belson		Storm Number ID:	AL112017						
				Parrish		(ie: AL072012)							
<b>Sponsoring Org:</b>	EMC/NHC			<b>SSA:</b>	Warnecke	TCPOD/WSPOD Mission	NOAA2 1011A IRMA						
<b>Program:</b>	PRX			<b>AVAPS:</b>	Mascaro	(ie: NOAA2 2418A SANDY)							
<b>Purpose:</b>	Hurricane Recon				McAlister	<b>OBSERVATIONS</b>							
<b>AS REQUIRED BY ORM</b>				Y	N	<b>REMARKS</b>		Fix Number	Obs Number	Fix Time	SLP		
VOLCANIC ASH					X			1	5	2139	920		
SCIENCE MISSION WITHIN BDRY LAYER					X			2	12	2245	917		
LACK OF PRECIPITATION					X			3	19	0003	917		
RELATIVE HUMIDITY ≥ 80%				X				4	25	0121	917		
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								
<b>Additional Remarks:</b>				<b>*Highlighted items must be completed before departure.</b>									
Cockpit Gmax: 2.2				Gmin: -0.5									

## APPENDIX 1 – P3 QC Checklist

<b>Flight ID:</b>	20170905H2
<b>Flight Director(s):</b>	Belson/Parrish

Pressure Comparison		
	T/O	Land
<b>Aircraft</b>	<b>1002.0</b>	<b>1005.2</b>
<b>Tower</b>	<b>1001.6</b>	<b>1004.8</b>

UWZ.d mean: 0.24

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

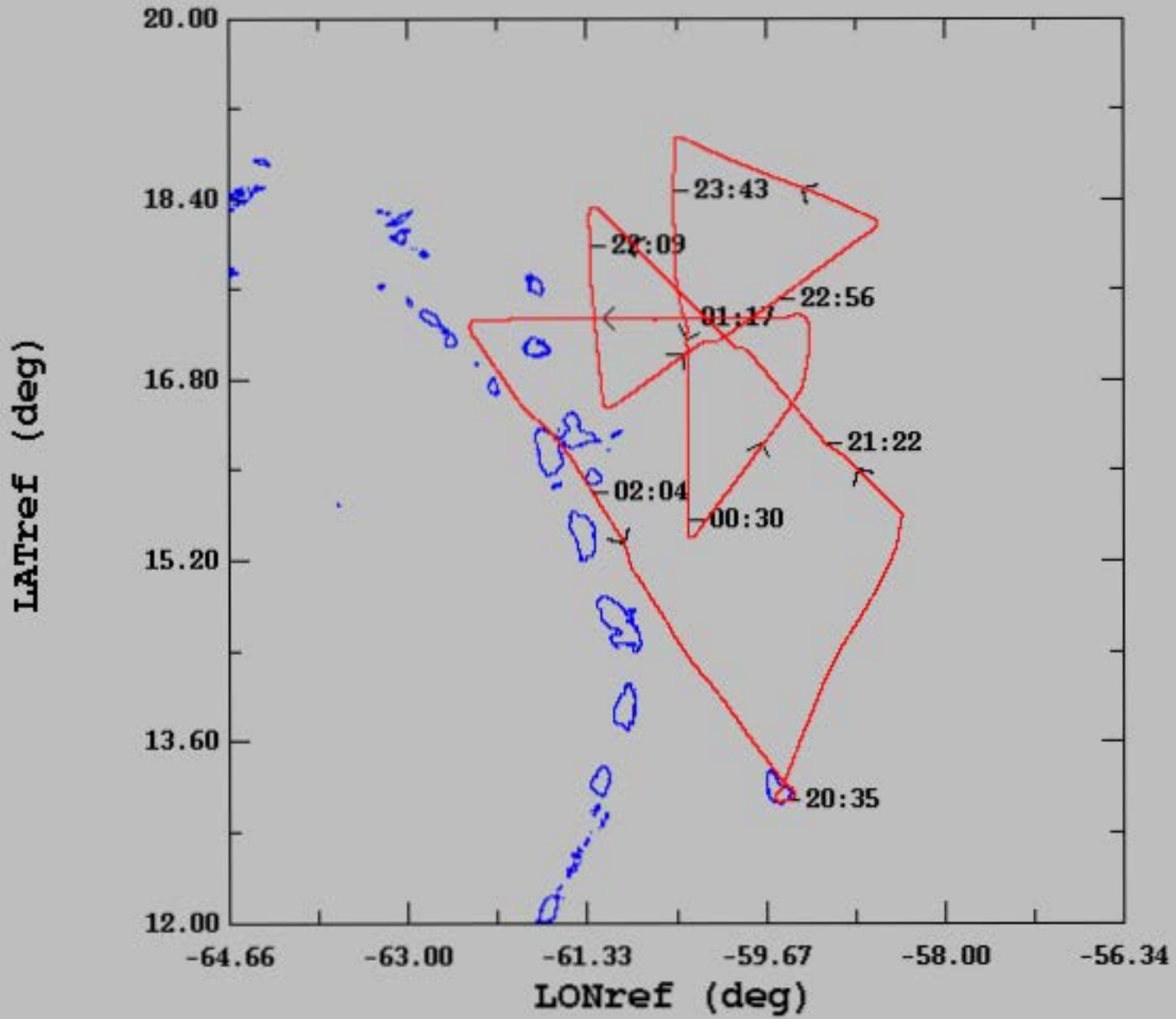
**FLID\_Mission\_Documents.pdf:**

<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"/>	Flight Track
<input checked="" type="checkbox"/>	Miscellaneous FD notes

**NOTES:**



2017-09-05, 20:35:00-26:51:30



	mean	sigma	min	max
— LATref (deg), 1 s/sec	16.56	1.45	13.07	18.94
— LONref (deg), 1 s/sec	-60.18	0.91	-62.41	-58.39

20170905H2

TBPB - TBPB

12 AOC

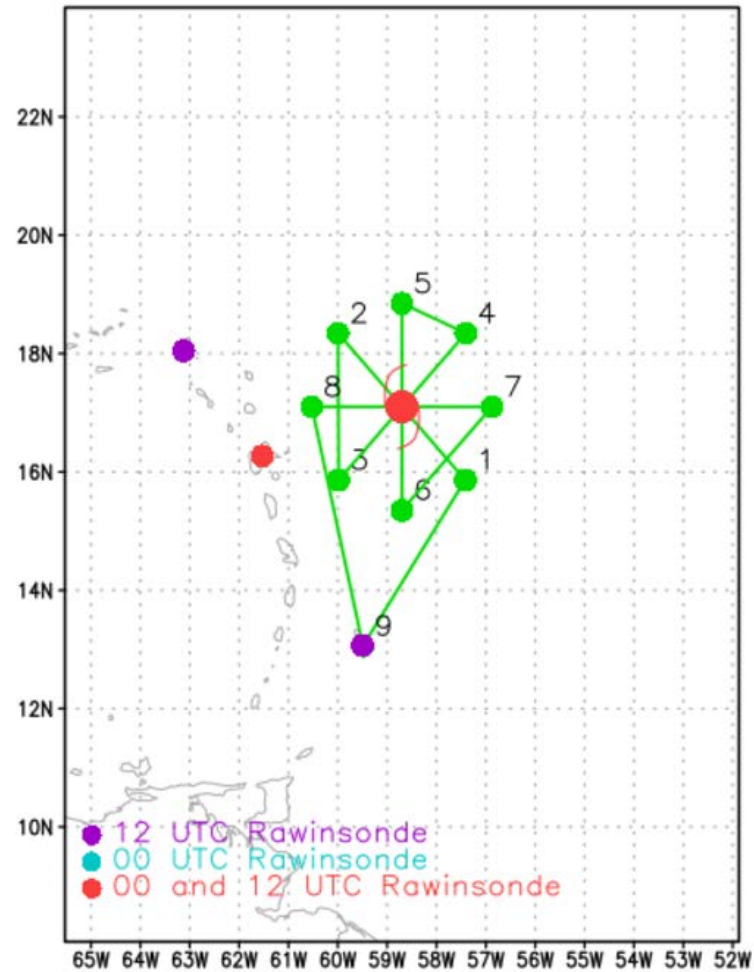
2 HRD

T/O 2000Z

ETE 6+30

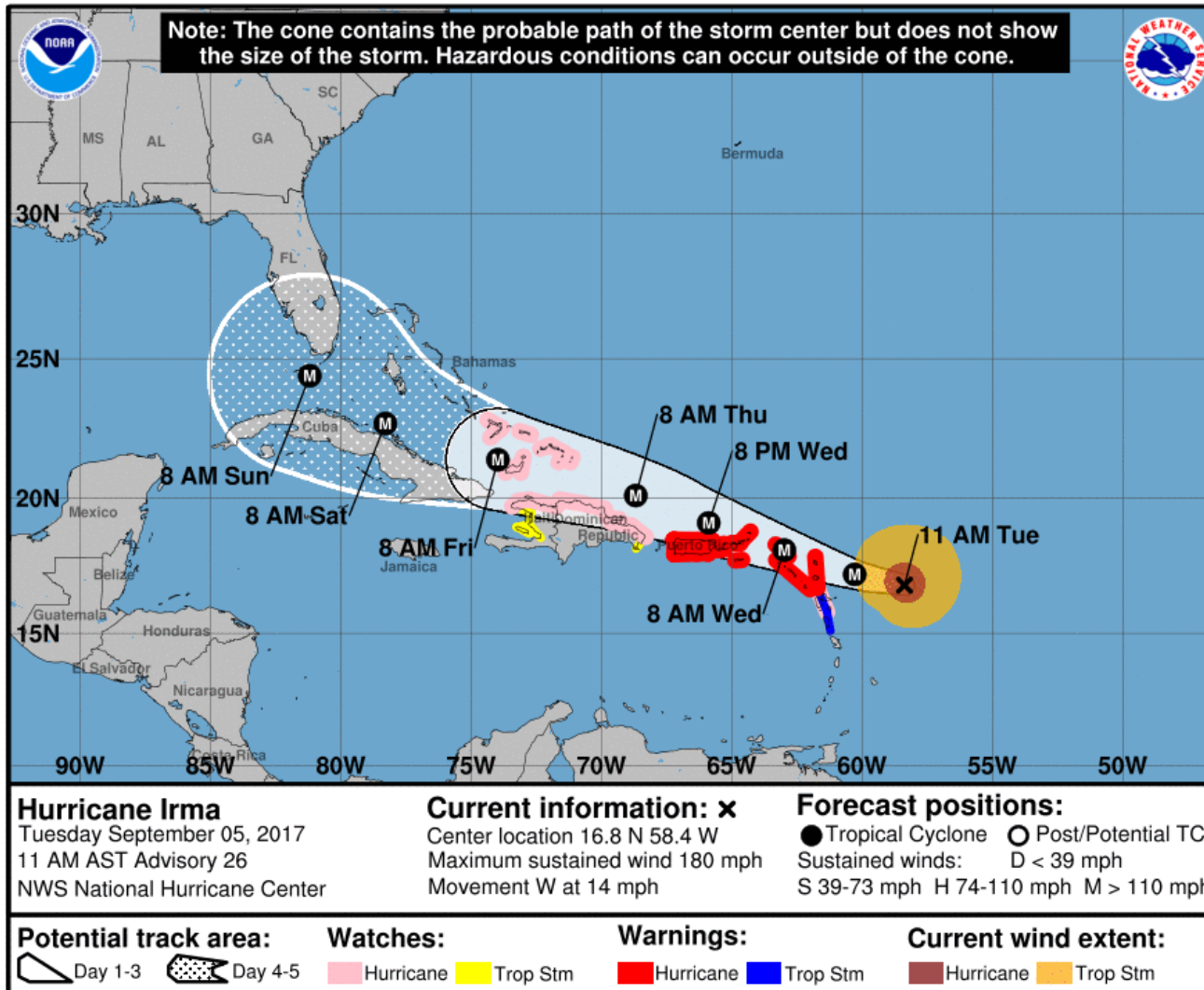
NOAA2 1011A IRMA

# Mission



- Sondes on endpoints (HFIP), sonde in center (NHC) – backups
- 105nm legs, FL100 (adjusted to FL080 for AF as required)

# STORM FORECAST





# Other Aircraft

FLIGHT THREE -- TEAL 74

A. 05/2330Z,06/0530Z

B. AFXXX 1111A IRMA

C. 05/2145Z

D. 17.3N 59.6W

E. 05/2300Z TO 06/0530Z

F. SFC TO 15,000 FT

FLIGHT ONE -- NOAA 49 CCA

A. 06/0000Z

B. NOAA9 0911A IRMA

C. 05/1730Z

D. NA

E. NA

F. 41,000 TO 45,000 FT

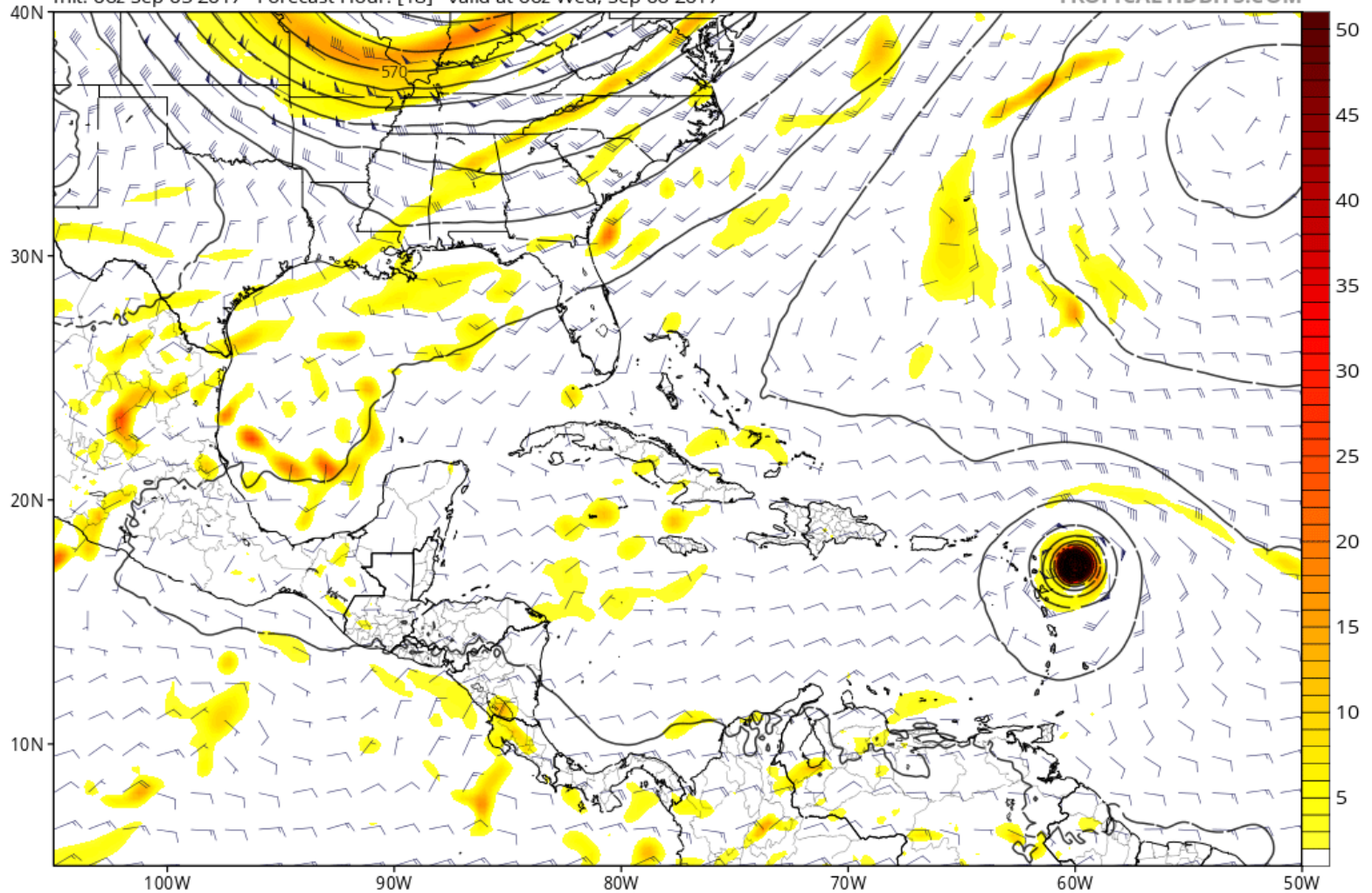
# Transit

## VT 05/00Z

GFS 500mb Geopotential Height (dam), Cyclonic Vorticity ( $10^{-5} \text{ s}^{-1}$ , shaded), and Wind (kt)

Init: 06z Sep 05 2017 Forecast Hour: [18] valid at 00z Wed, Sep 06 2017

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# Airfield Wx

- TBPB 051700Z 23025KT 9999 SCT016 30/26 Q1008 NOSIG
- TAF TBPB 051700Z 0518/0618 23020KT 9999 SCT016 BKN035  
TEMPO 0518/0521 23020G42KT SHRA RA BKN014 SCT016CB

# Hazards

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