

NOAA Aircraft Operations Center - NOAA 42 Flight Manifest

FLIGHT INFORMATION				CREW MANIFEST				MISSION INFORMATION				
FLT ID:	20170905H2	FLT #:		AC:	Price	Scientists:		Pressure		Dropsondes		
From:	TBPB	ETD:	2000Z	CP(s):	Mitchell							
To:	TBPB	ETA:	0230Z		Rees	Zawislak, Jon		A/C Takeoff	1002.0	Good	Bad	Sent
Block Time		Flight Time		Nav(s):	Sloan			Zhang, Jun		Wx Station Takeoff	1001.6	15
In:	0256	In:	0247		Urato					BTs		
Out:	2030	Out:	2035	FE(s)	Darby	Visitors:		A/C Land	1005.2	Good	Bad	Sent
Total:	6.4	Total:	6.2		Tuffnel, Todd					Wx Station Land	1004.8	0
				FD(s):	Belson			Storm Number ID:		AL112017		
Sponsoring Org:		EMC/NHC			Parrish			(ie: AL072012)				
Program:		PRX		SEB:	Warnecke			TCPOD/WSPOD Mission		NOAA2 1011A IRMA		
Purpose:		Hurricane Recon			Mascaro			(ie: NOAA2 2418A SANDY)				
				AVAPS:	McAlister			OBSERVATIONS				
AS REQUIRED BY ORM				Y	N	REMARKS		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							
Additional Remarks:								*Highlighted items must be completed before departure.				
Cockpit Gmax: 2.2				Gmin: -0.5								

APPENDIX 1 – P3 QC Checklist

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

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

UWZ.d mean: 0.24

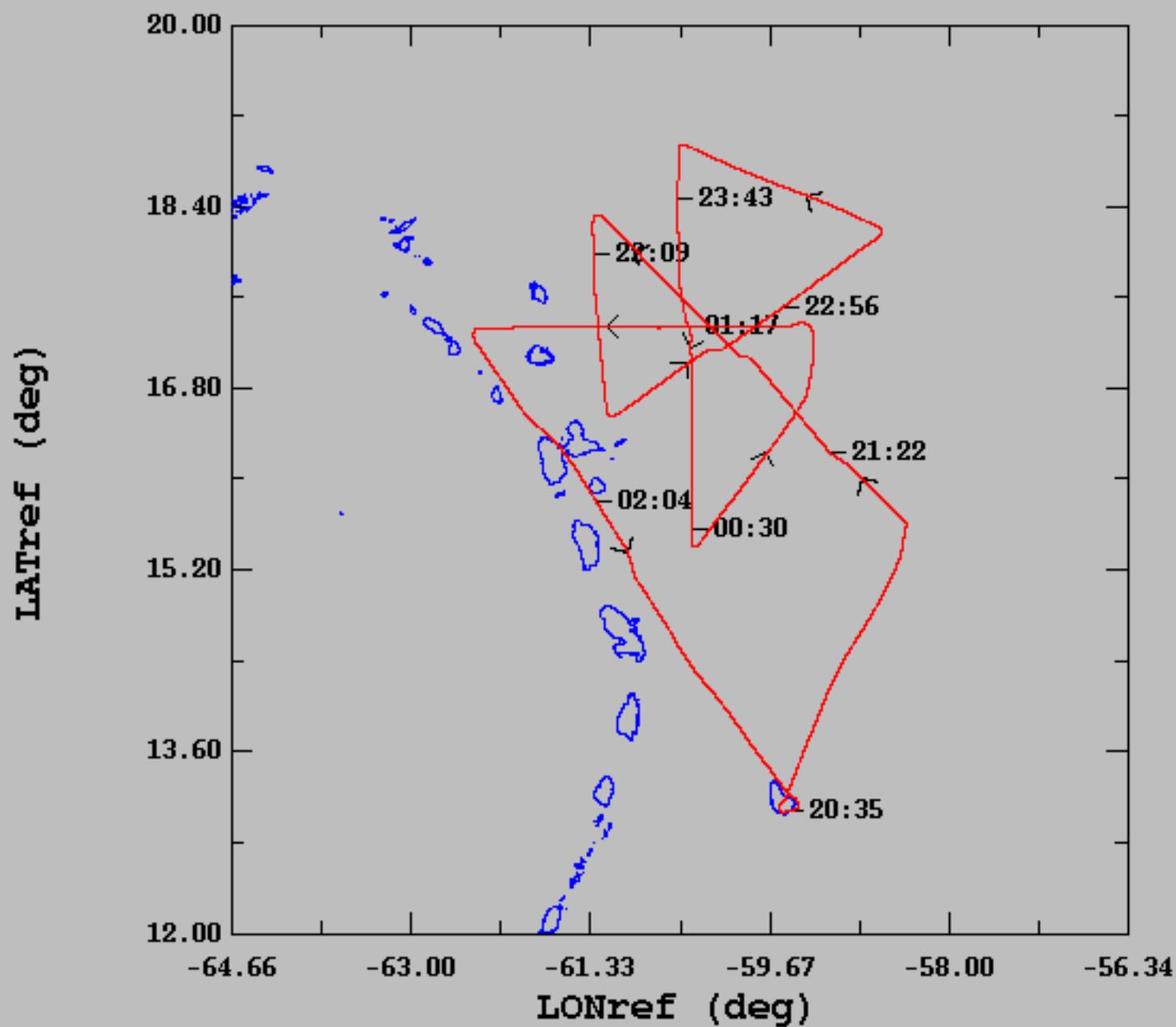
	Raw 1Hz Mean File Parameters				C File Parameters	
x Accelerometer	x AccAXI.1	x AccAYI.1	x AccAZI.1	x AccZfilter-GPS.1	x AccZref	
	x AccAXI.2	x AccAYI.2	x AccAZI.2	x Acc-Zfilter-GPS.2		
	x AccAXI-GPS.1	x AccAYI-GPS.1	x AccAZI-GPS.1			
	x AccAXI-GPS.2	x AccAYI-GPS.2	x AccAZI-GPS.2			
x Altitude	x AltGPS.1	x AltI-GPS.1	x AltPaADDU.1	x AltRA.1	x ALTref	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 PDALPHAref	x PQMref
	x PDALPHA.2	x PQBETA.1	x PQM.2	x PSM.2	x PDBETAref	x PQ.c
	x PDBETA.1		x PQM.3	e PTM.1	x PQALPHAref	x PSMref
	x PDBETA.2		x PQM.4		x PQBETAref	x PS.c
x Air Speed	x CasADDU.1	x TasADDU.1	x IasADDU.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	
	o PitchI.3	o PitchRateI.3	o RollI.3	o RollRateI.3		
x Temp/Dewpt	x TTM.1	e TDM.1	x TRadD.1		x TD.c	x TTMref
	x TTM.2	x TDM.2	x TRadS.1		x TDMref	x TA.d
	o TTM.3	e TDM.3	o 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:

2017-09-05, 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

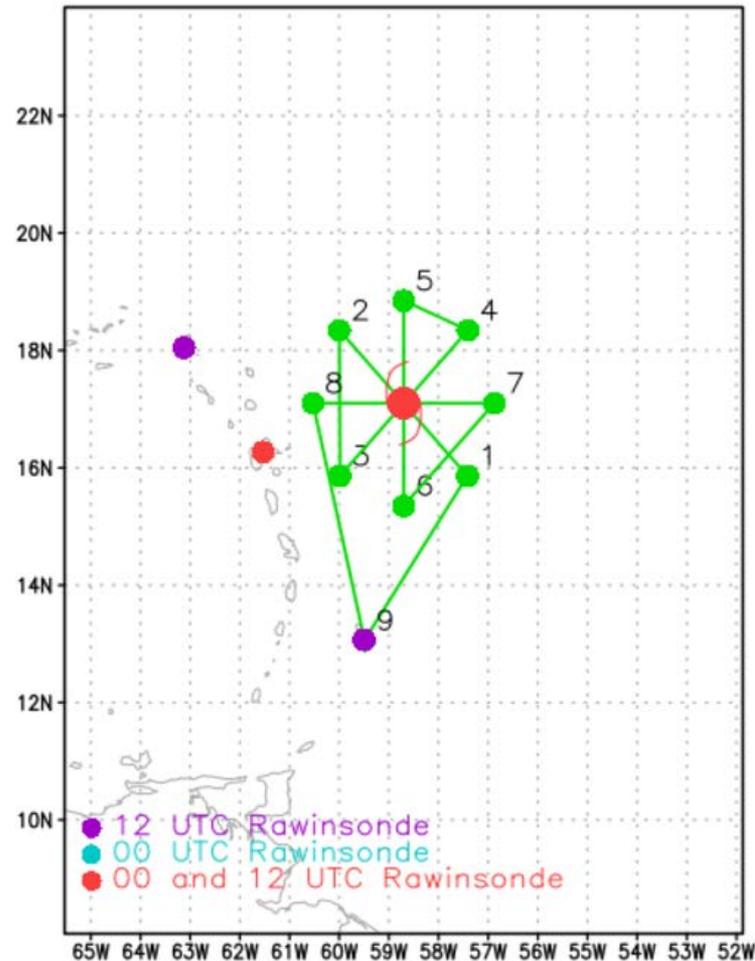
2 HRD

T/O 2000Z

ETE 6+30

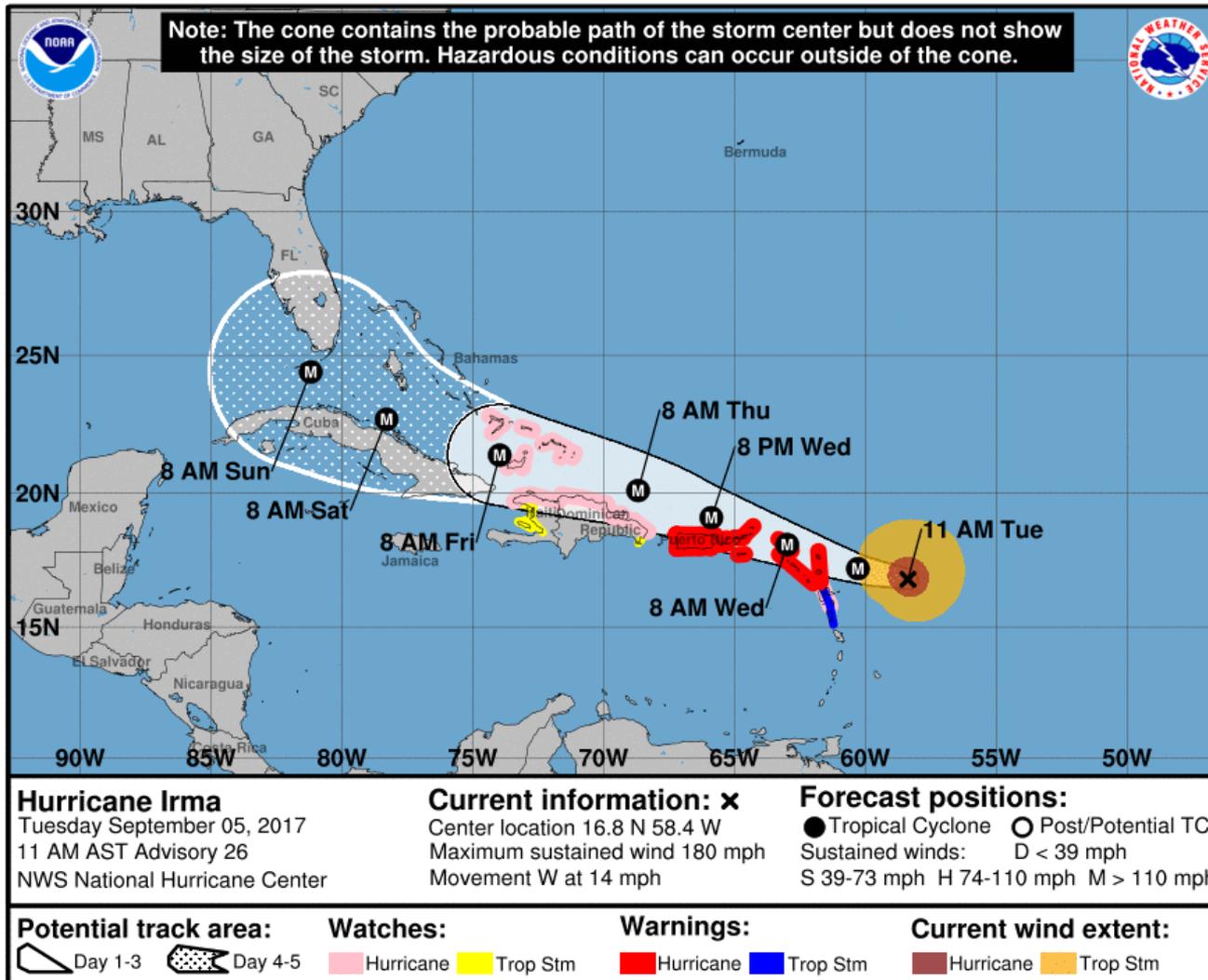
NOAA2 1011A IRMA

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

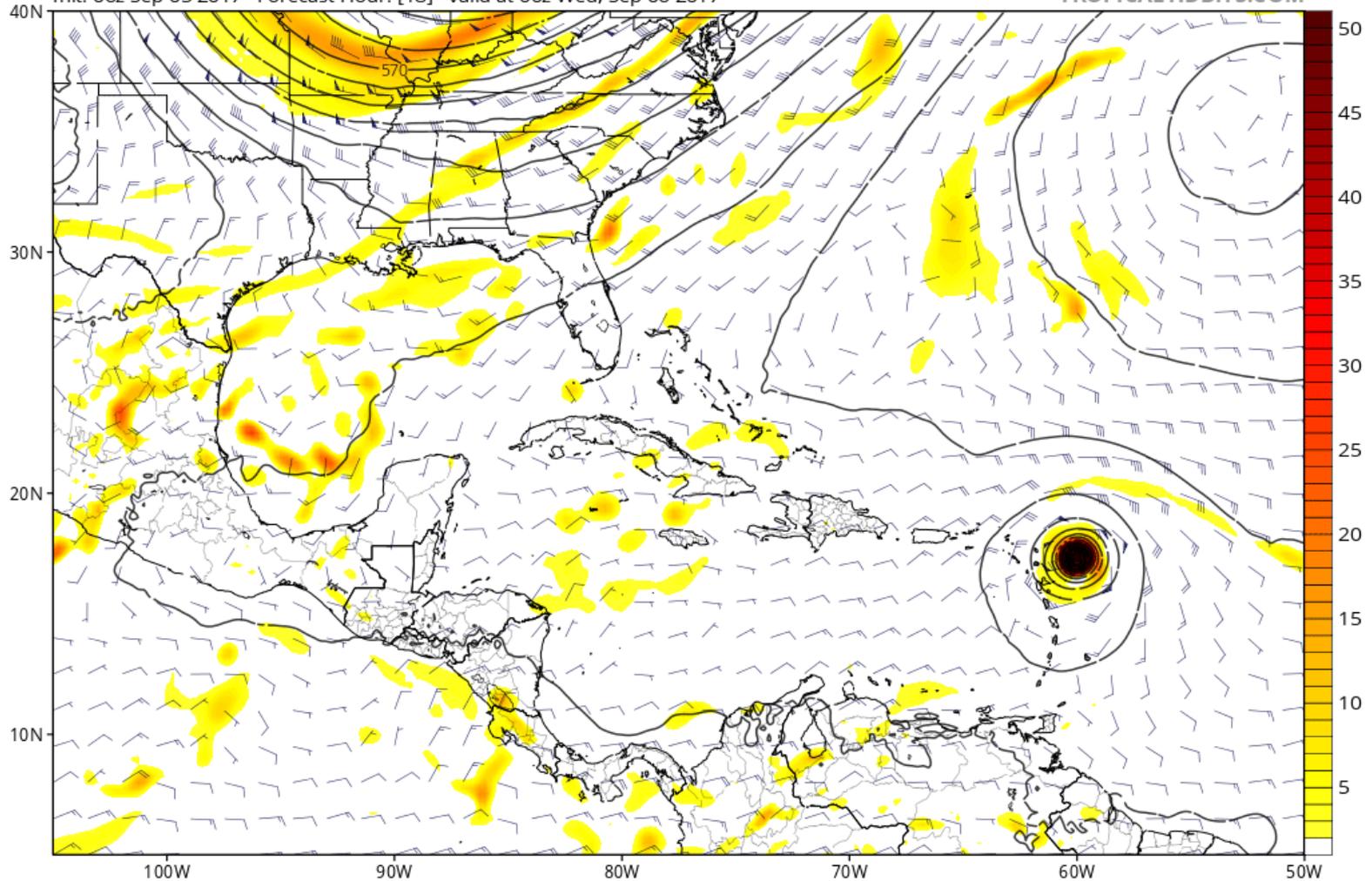
Transit

VT 05/00Z

GFS 500mb Geopotential Height (dam), Cyclonic Vorticity (10^{-5} 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