

# **Second WMO RCC-Washington International Training Workshop**

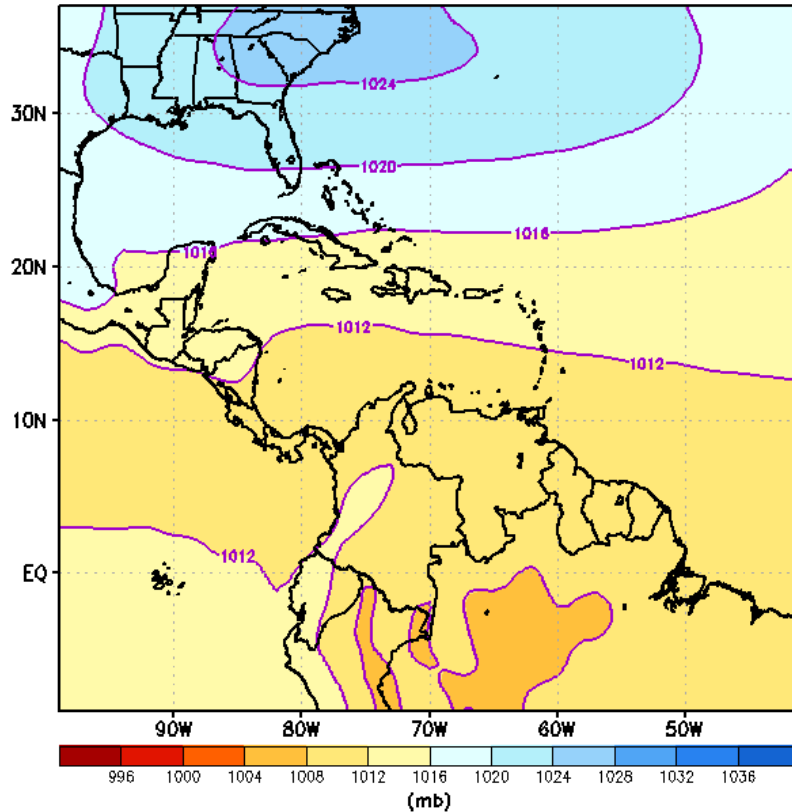
## **Real-time week-2 extreme temperature outlook**

8 – 10 November 2021

# Mean Sea Level Pressure

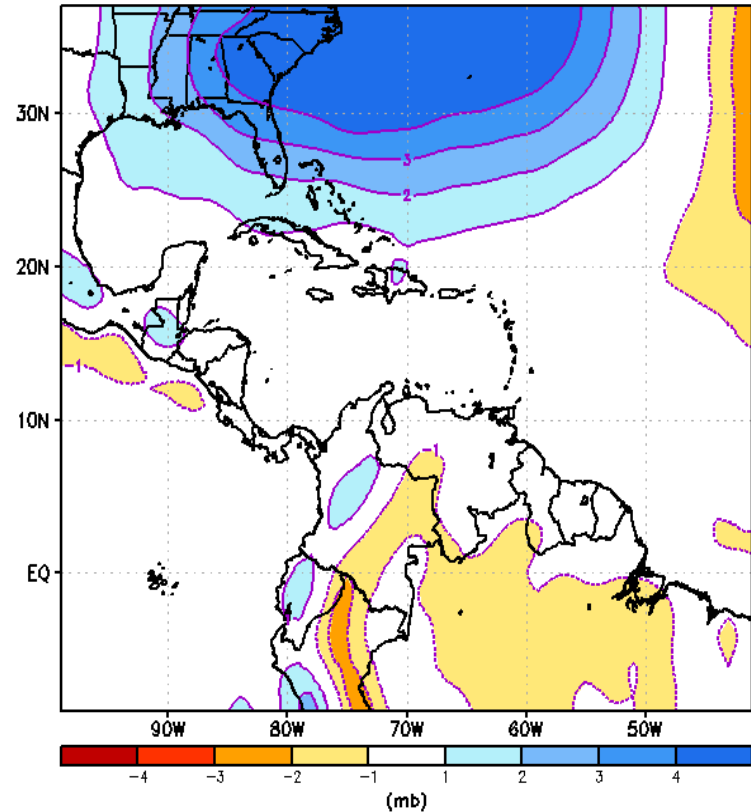
## Total

GEFS Week-2 Mean Sea Level Pressure Total  
Valid: 20210820 - 20211123



## Anomaly

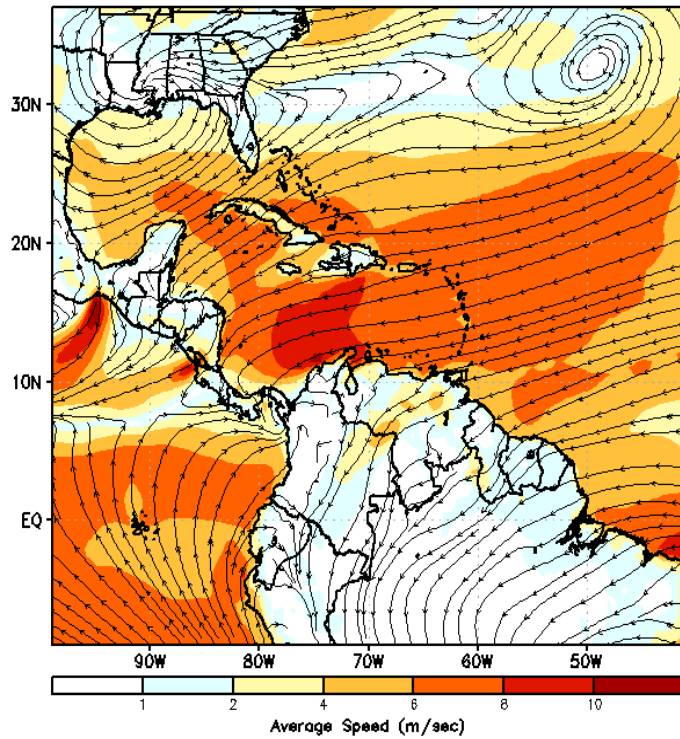
GEFS Week-2 Mean Sea Level Pressure Anomaly  
Valid: 20210820 - 20211123



# 10m Wind

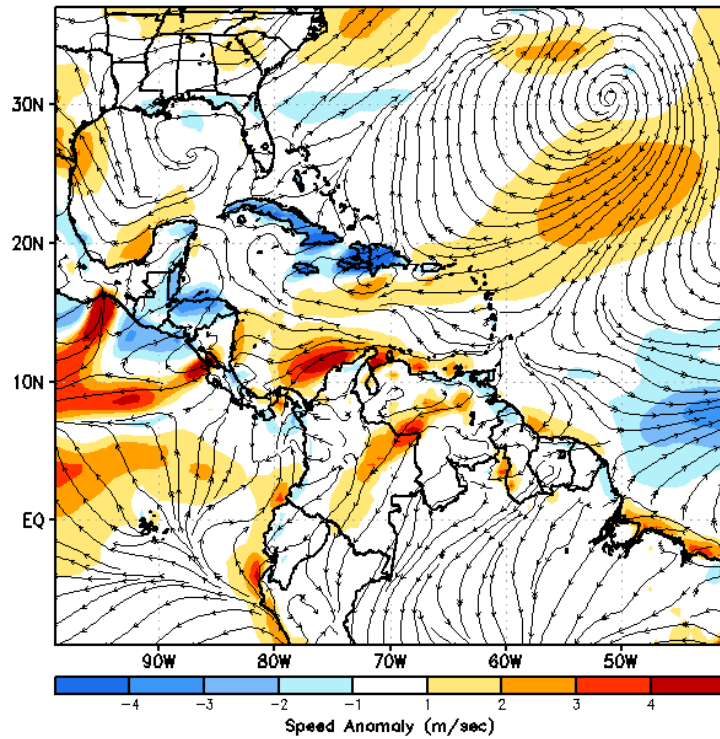
## Total

GEFS Week-2 10m Wind Speed Total  
Valid: 20210820 - 20211123



## Anomaly

GEFS Week-2 10m Wind Speed Anomaly  
Valid: 20210820 - 20211123



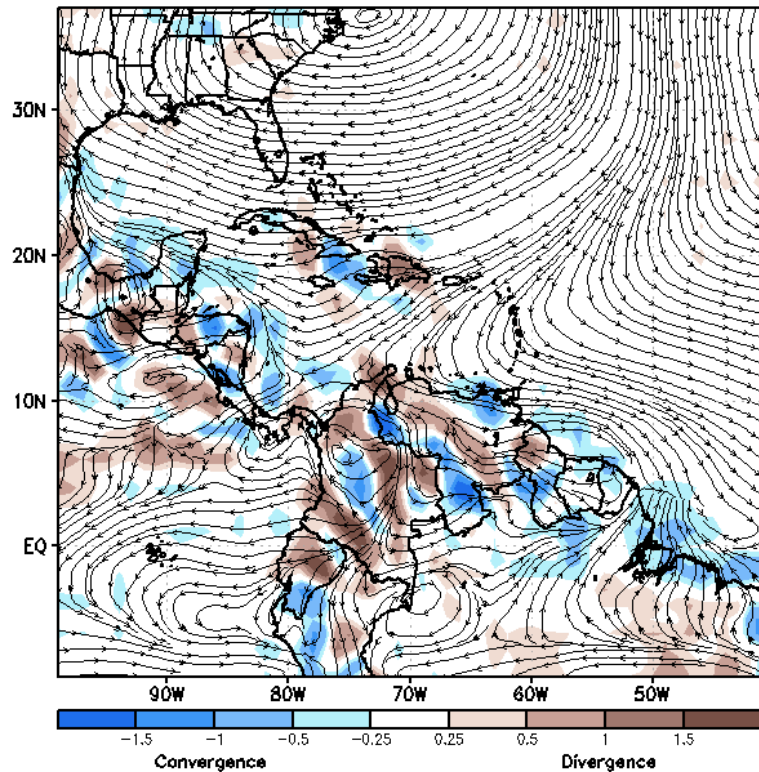
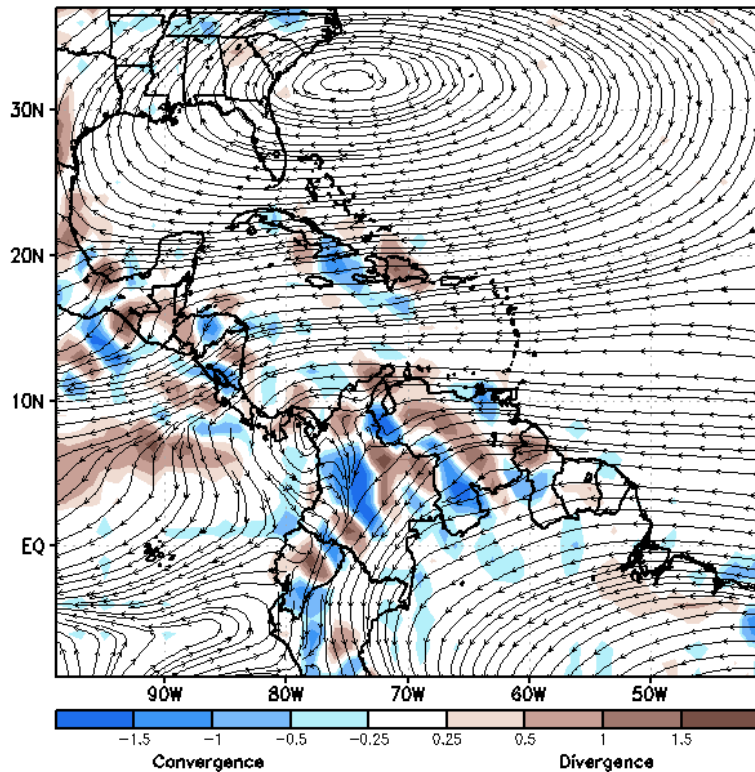
# 850-hPa Wind

## Total

## Anomaly

GEFS Week-2 850-hPa Divergence and Wind Total  
Valid: 20210820 - 20211123

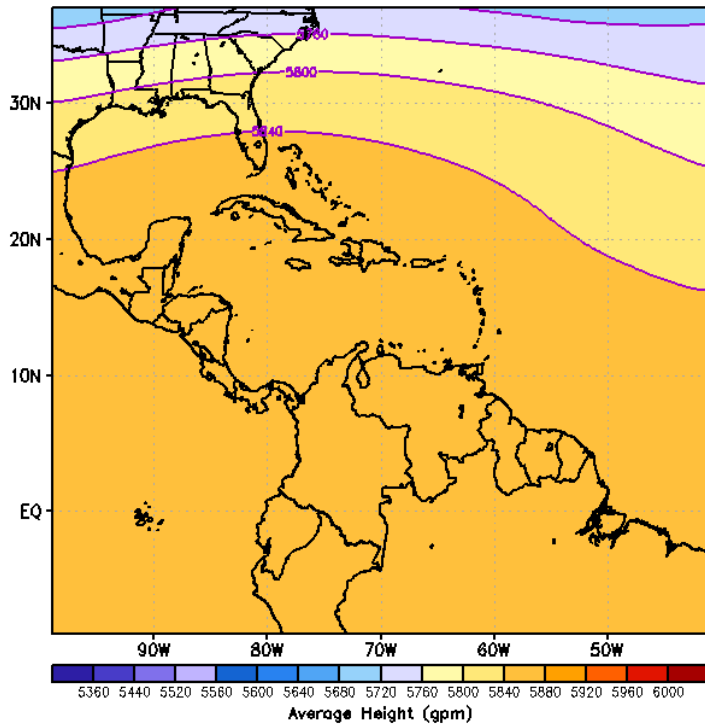
GEFS Week-2 850-hPa Divergence and Wind Anomaly  
Valid: 20210820 - 20211123



# 500-hPa Height

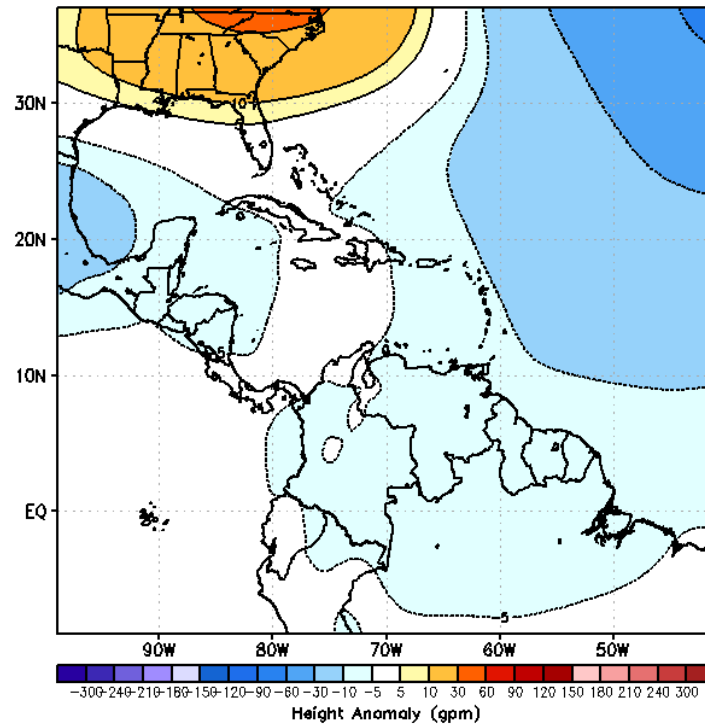
## Total

GEFS Week-2 500-hPa Geo-Potential Height Total  
Valid: 20210820 - 20211123



## Anomaly

GEFS Week-2 500-hPa Geo-Potential Height Anomaly  
Valid: 20210820 - 20211123

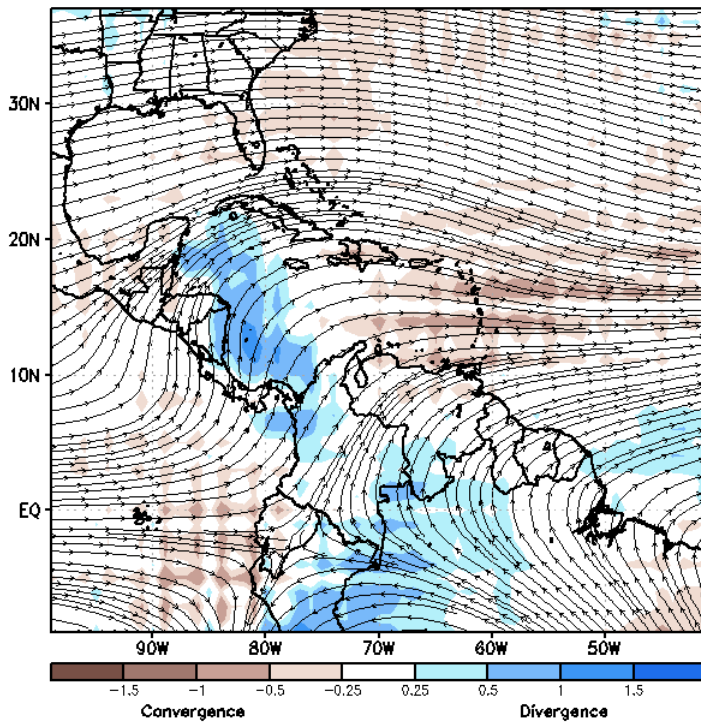


# 200-hPa Wind

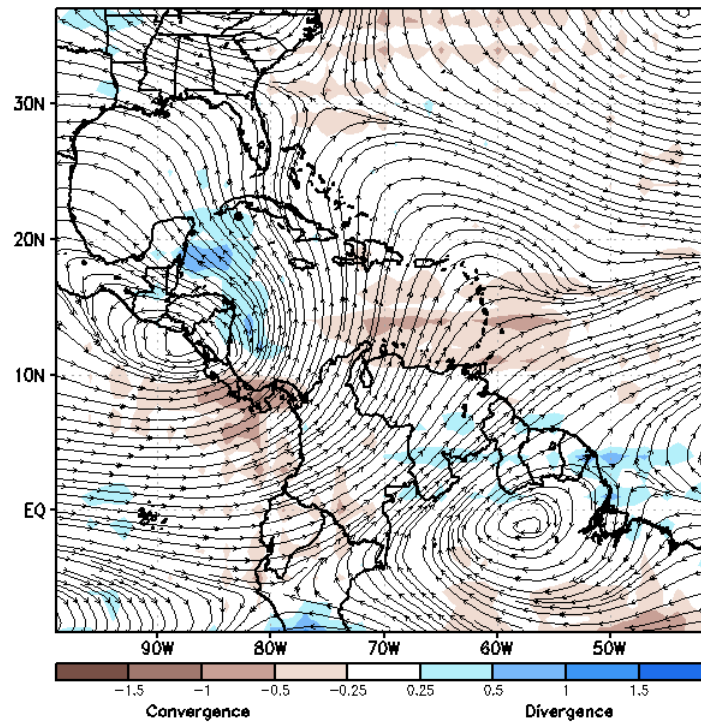
## Total

## Anomaly

GEFS Week-2 200-hPa Divergence and Wind Total  
Valid: 20210820 - 20211123



GEFS Week-2 200-hPa Divergence and Wind Anomaly  
Valid: 20210820 - 20211123

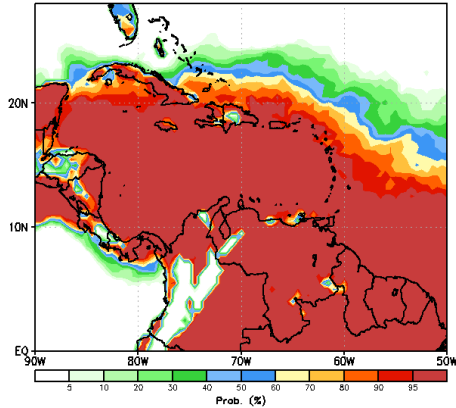




# Tmax Exceedance Probability for at least 2 Consecutive Days

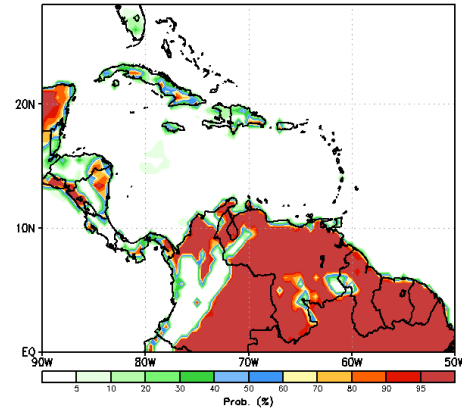
## $\geq 35^{\circ}\text{C}$

GEFS Week-2 Tmax Exceedance Prob.  $\geq 35$  Cels.  
>=2 Consec. Days, Valid: 20210820 - 20211123



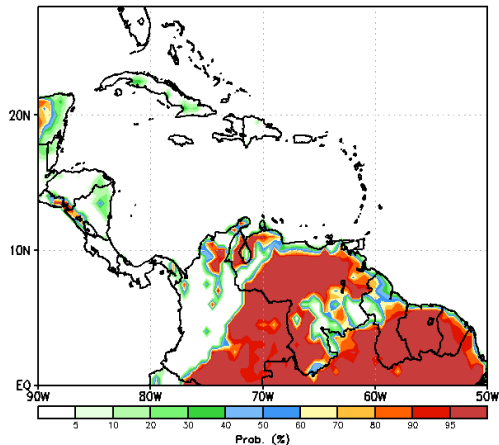
## $\geq 37^{\circ}\text{C}$

GEFS Week-2 Tmax Exceedance Prob.  $\geq 37$  Cels.  
>=2 Consec. Days, Valid: 20210820 - 20211123



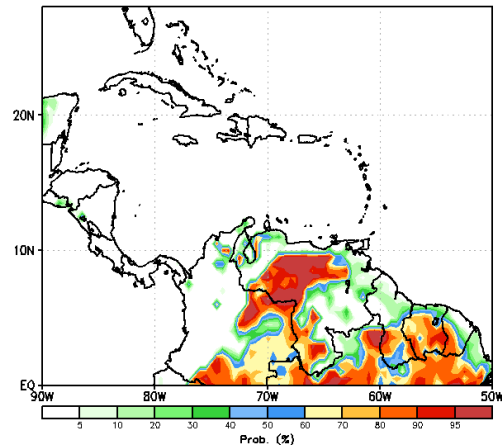
## $\geq 39^{\circ}\text{C}$

GEFS Week-2 Tmax Exceedance Prob.  $\geq 39$  Cels.  
>=2 Consec. Days, Valid: 20210820 - 20211123



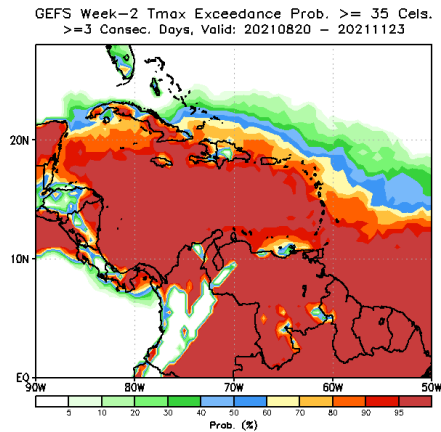
## $\geq 41^{\circ}\text{C}$

GEFS Week-2 Tmax Exceedance Prob.  $\geq 41$  Cels.  
>=2 Consec. Days, Valid: 20210820 - 20211123

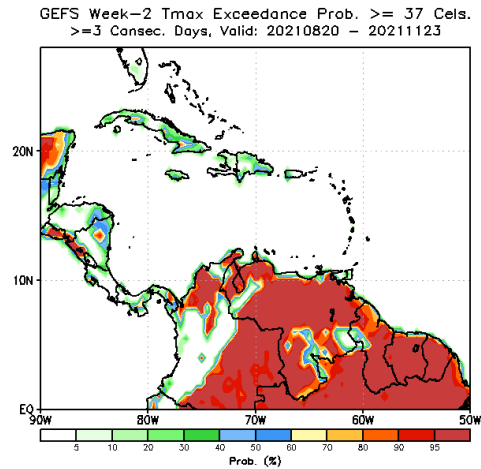


# Tmax Exceedance Probability for at least 3 Consecutive Days

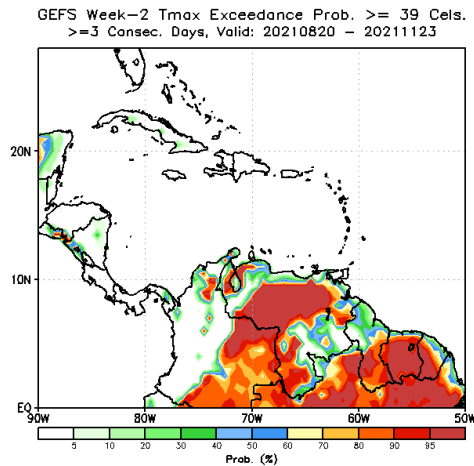
## $\geq 35\text{ }^{\circ}\text{C}$



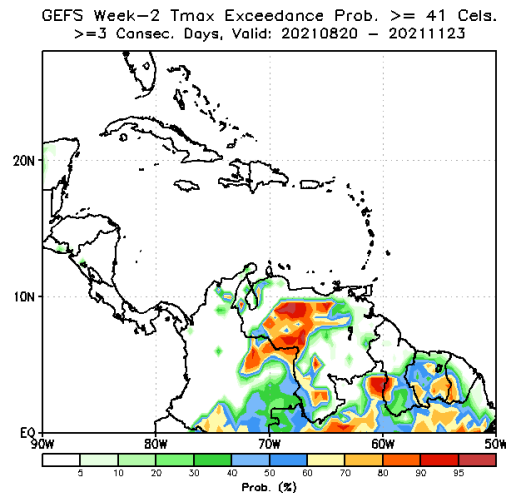
## $\geq 37\text{ }^{\circ}\text{C}$



## $\geq 39\text{ }^{\circ}\text{C}$



## $\geq 41\text{ }^{\circ}\text{C}$

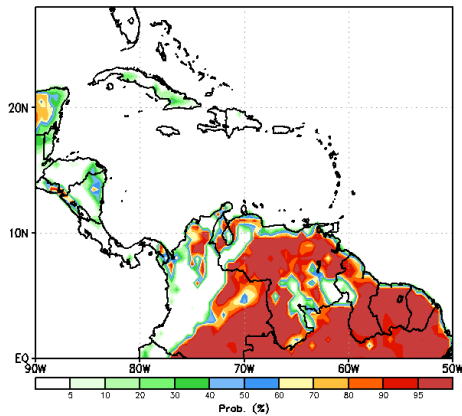




# HI Exceedance Probability for at least 2 Consecutive Days

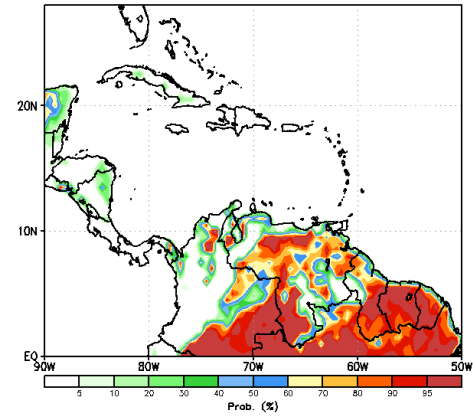
## $\geq 41^{\circ}\text{C}$

GEFS Week-2 HI Exceedance Prob.  $\geq 41$  Deg. Cels.  
>=2 Consec. Days, Valid: 20210820 - 20211123



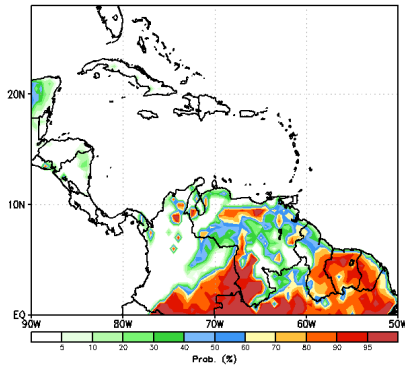
## $\geq 43^{\circ}\text{C}$

GEFS Week-2 HI Exceedance Prob.  $\geq 43$  Deg. Cels.  
>=2 Consec. Days, Valid: 20210820 - 20211123



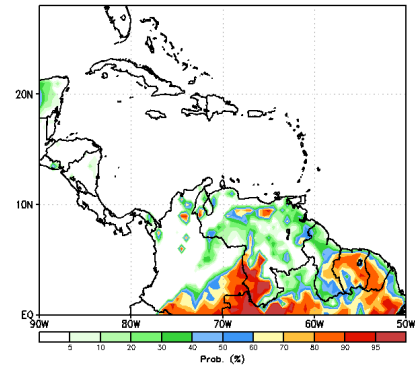
## $\geq 45^{\circ}\text{C}$

GEFS Week-2 HI Exceedance Prob.  $\geq 45$  Deg. Cels.  
>=2 Consec. Days, Valid: 20210820 - 20211123



## $\geq 47^{\circ}\text{C}$

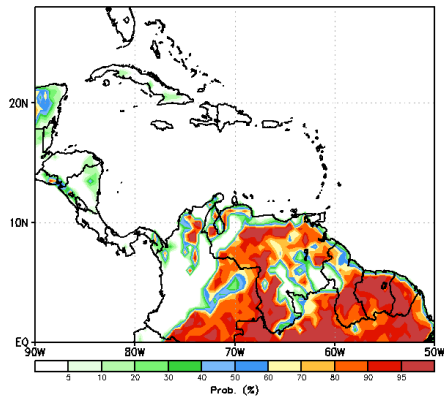
GEFS Week-2 HI Exceedance Prob.  $\geq 47$  Deg. Cels.  
>=2 Consec. Days, Valid: 20210820 - 20211123



# HI Exceedance Probability for at least 3 Consecutive Days

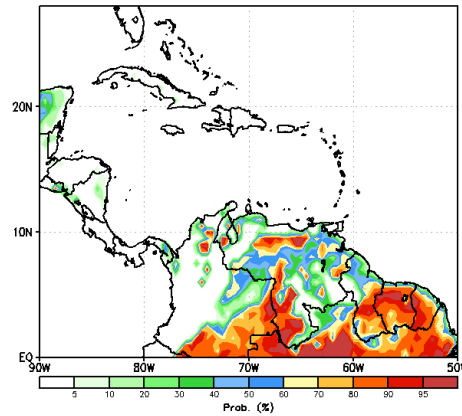
## $\geq 41^{\circ}\text{C}$

GEFS Week-2 HI Exceedance Prob.  $\geq 41$  Deg. Cels.  
>=3 Consec. Days, Valid: 20210820 - 20211123



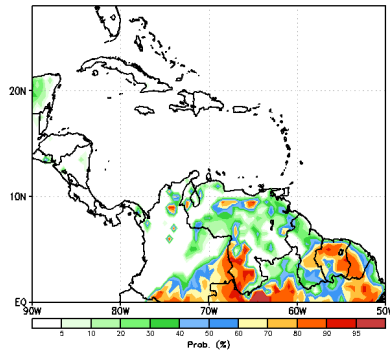
## $\geq 43^{\circ}\text{C}$

GEFS Week-2 HI Exceedance Prob.  $\geq 43$  Deg. Cels.  
>=3 Consec. Days, Valid: 20210820 - 20211123



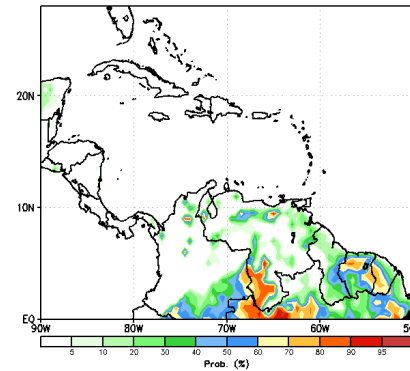
## $\geq 45^{\circ}\text{C}$

GEFS Week-2 HI Exceedance Prob.  $\geq 45$  Deg. Cels.  
>=3 Consec. Days, Valid: 20210820 - 20211123



## $\geq 47^{\circ}\text{C}$

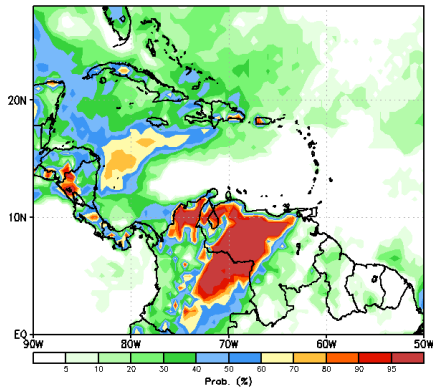
GEFS Week-2 HI Exceedance Prob.  $\geq 47$  Deg. Cels.  
>=3 Consec. Days, Valid: 20210820 - 20211123



# Tmax Exceedance Probability with respect to Percentiles for at least 2 Consecutive Days

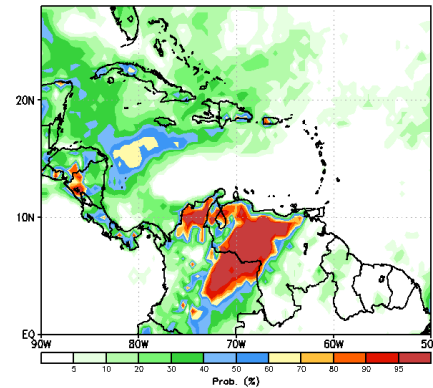
$\geq 80^{\text{th}}$  percentile

GEFS Week-2 Tmax Exceedance Prob.  $\geq 80^{\text{th}}$  Pctl.  
>=2 Consec. Days, Valid: 20210820 - 20211123



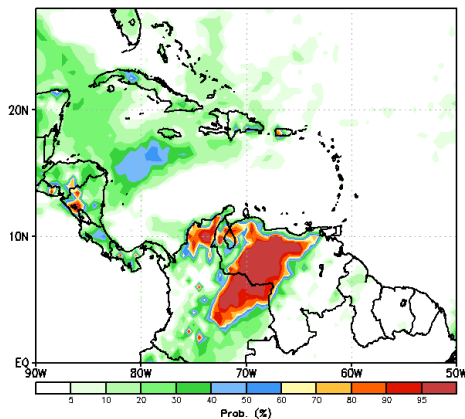
$\geq 85^{\text{th}}$  percentile

GEFS Week-2 Tmax Exceedance Prob.  $\geq 85^{\text{th}}$  Pctl.  
>=2 Consec. Days, Valid: 20210820 - 20211123



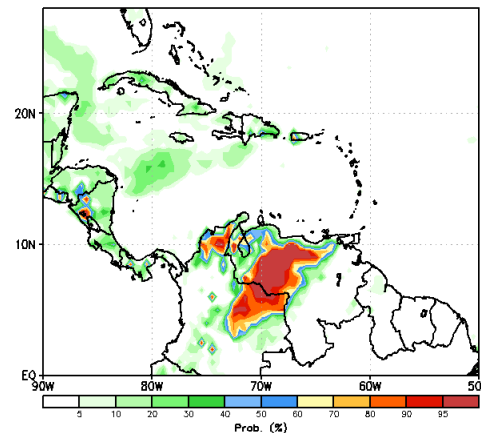
$\geq 90^{\text{th}}$  percentile

GEFS Week-2 Tmax Exceedance Prob.  $\geq 90^{\text{th}}$  Pctl.  
>=2 Consec. Days, Valid: 20210820 - 20211123



$\geq 95^{\text{th}}$  percentile

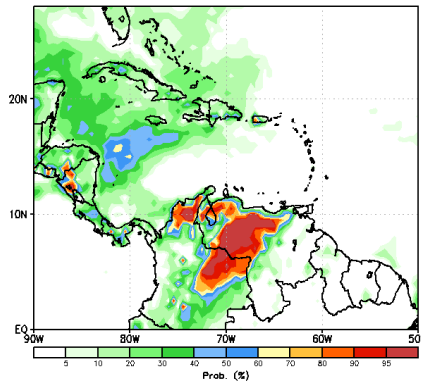
GEFS Week-2 Tmax Exceedance Prob.  $\geq 95^{\text{th}}$  Pctl.  
>=2 Consec. Days, Valid: 20210820 - 20211123



# Tmax Exceedance Probability with respect to Percentiles for at least 3 Consecutive Days

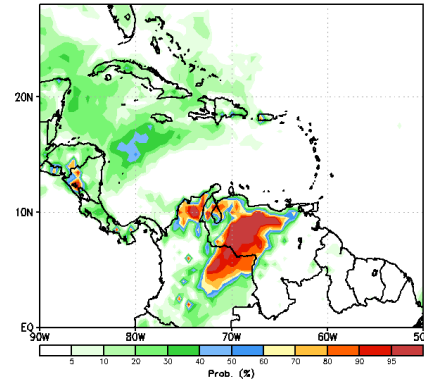
## $\geq 80^{\text{th}}$ percentile

GEFS Week-2 Tmax Exceedance Prob.  $\geq 80^{\text{th}}$  Pctl.  
>=3 Consec. Days, Valid: 20210820 - 20211123



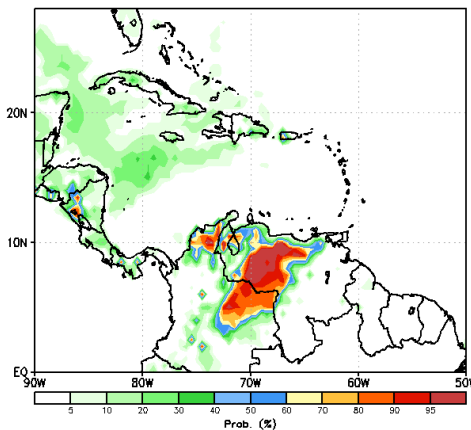
## $\geq 85^{\text{th}}$ percentile

GEFS Week-2 Tmax Exceedance Prob.  $\geq 85^{\text{th}}$  Pctl.  
>=3 Consec. Days, Valid: 20210820 - 20211123



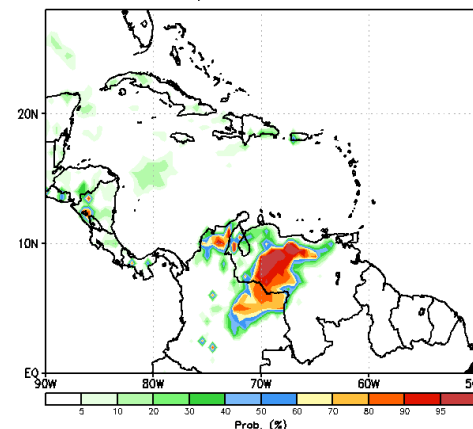
## $\geq 90^{\text{th}}$ percentile

GEFS Week-2 Tmax Exceedance Prob.  $\geq 90^{\text{th}}$  Pctl.  
>=3 Consec. Days, Valid: 20210820 - 20211123



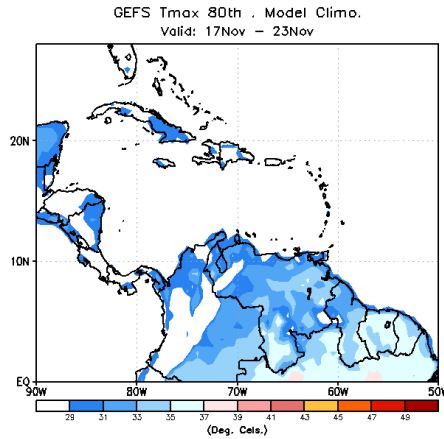
## $\geq 95^{\text{th}}$ percentile

GEFS Week-2 Tmax Exceedance Prob.  $\geq 95^{\text{th}}$  Pctl.  
>=3 Consec. Days, Valid: 20210820 - 20211123

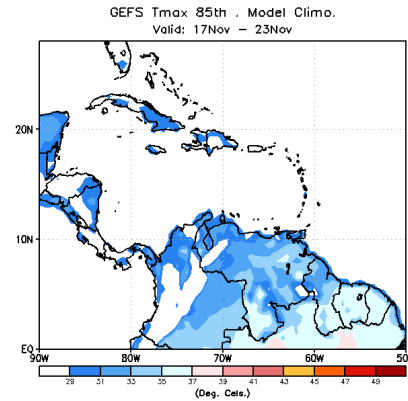


# Tmax Percentile Climatology

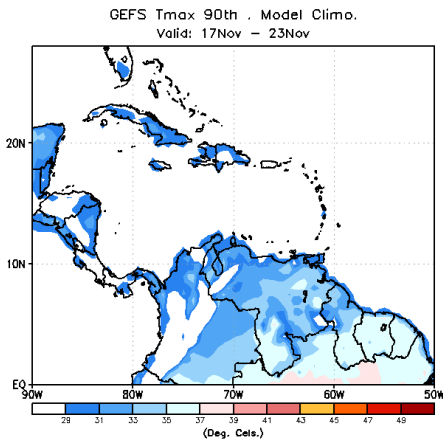
## 80<sup>th</sup> percentile



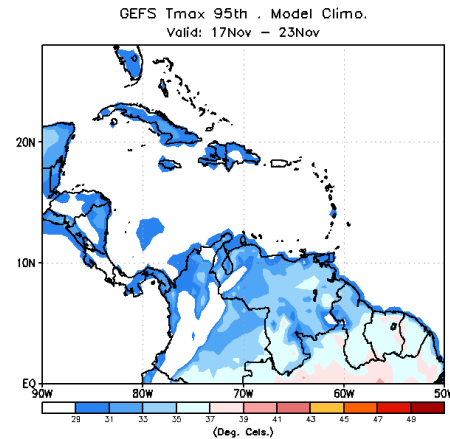
## 85<sup>th</sup> percentile



## 90<sup>th</sup> percentile



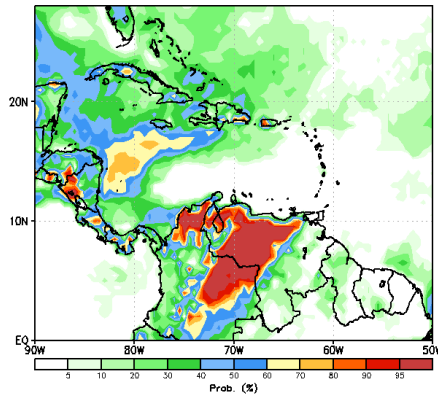
## 95<sup>th</sup> percentile



# HI Exceedance Probability with respect to Percentiles for at least 2 Consecutive Days

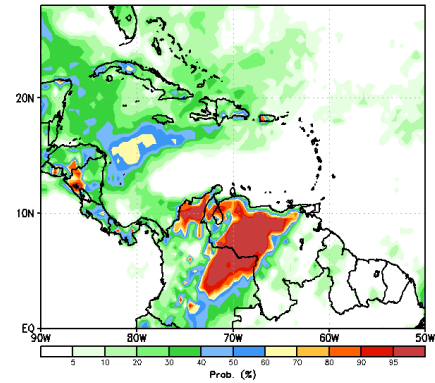
## $\geq 80^{\text{th}}$ percentile

GEFS Week-2 Tmax Exceedance Prob.  $\geq 80^{\text{th}}$  Pctl.  
>=2 Consec. Days, Valid: 20210820 - 20211123



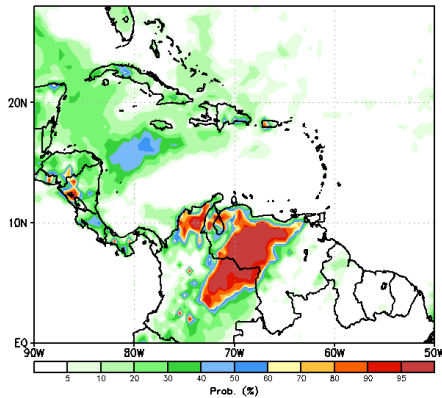
## $\geq 85^{\text{th}}$ percentile

GEFS Week-2 Tmax Exceedance Prob.  $\geq 85^{\text{th}}$  Pctl.  
>=2 Consec. Days, Valid: 20210820 - 20211123



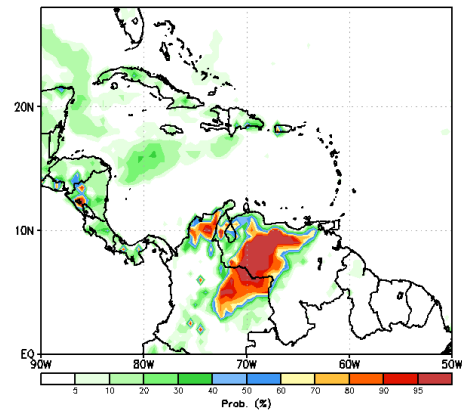
## $\geq 90^{\text{th}}$ percentile

GEFS Week-2 Tmax Exceedance Prob.  $\geq 90^{\text{th}}$  Pctl.  
>=2 Consec. Days, Valid: 20210820 - 20211123



## $\geq 95^{\text{th}}$ percentile

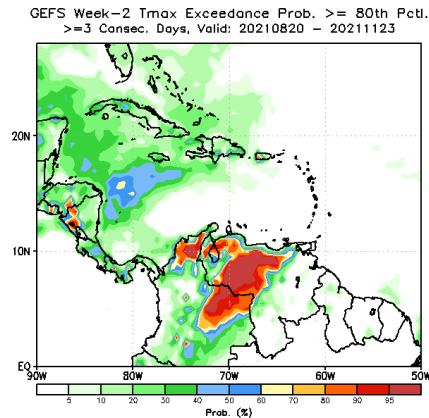
GEFS Week-2 Tmax Exceedance Prob.  $\geq 95^{\text{th}}$  Pctl.  
>=2 Consec. Days, Valid: 20210820 - 20211123



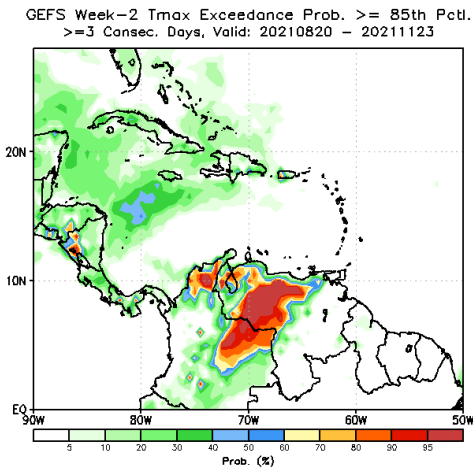


# HI Exceedance Probability with respect to Percentiles for at least 3 Consecutive Days

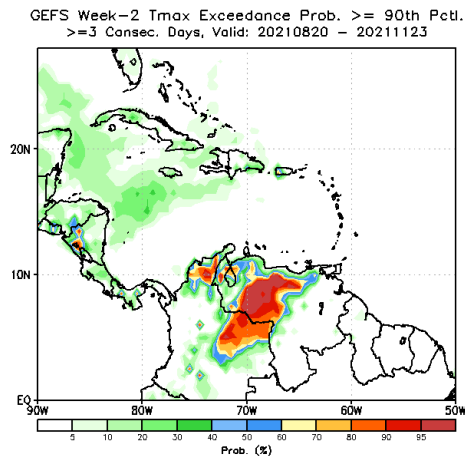
## $\geq 80^{\text{th}}$ percentile



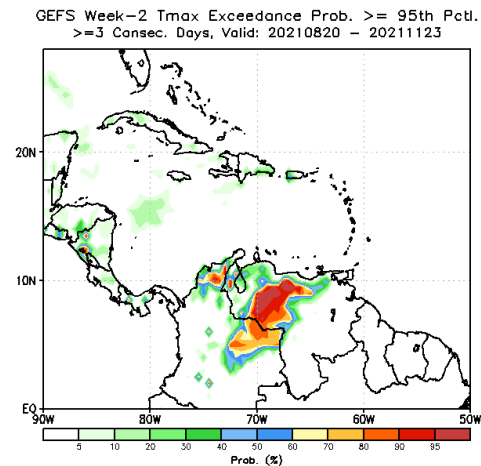
## $\geq 85^{\text{th}}$ percentile



## $\geq 90^{\text{th}}$ percentile

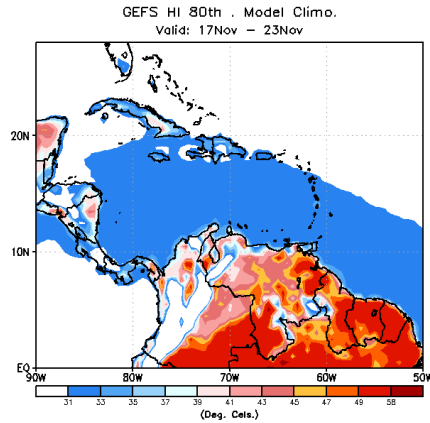


## $\geq 95^{\text{th}}$ percentile

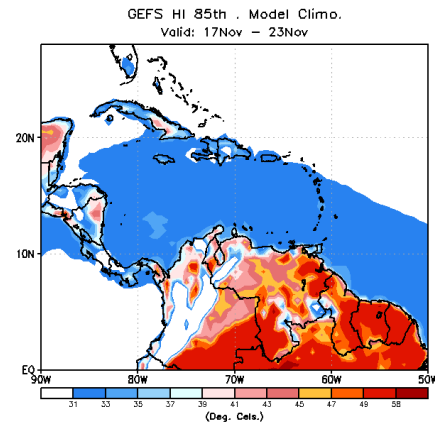


# HI Percentile Climatology

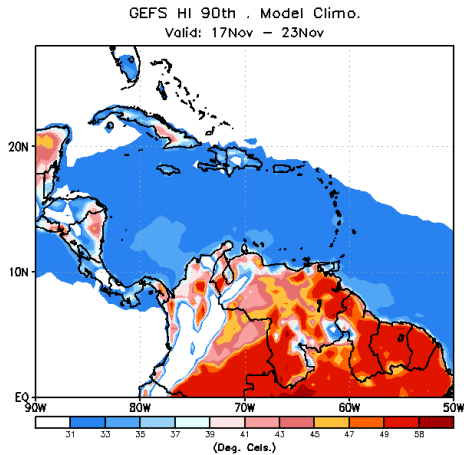
## 80<sup>th</sup> percentile



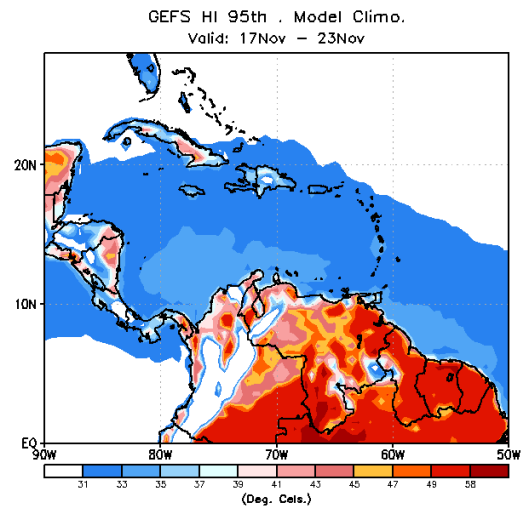
## 85<sup>th</sup> percentile



## 90<sup>th</sup> percentile

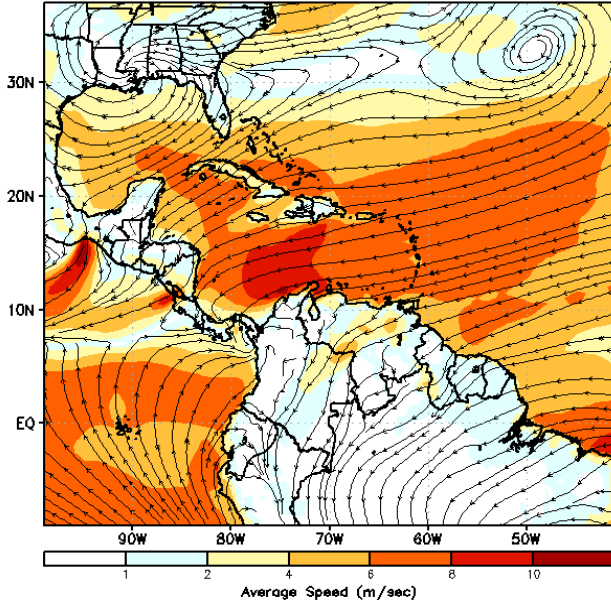


## 95<sup>th</sup> percentile

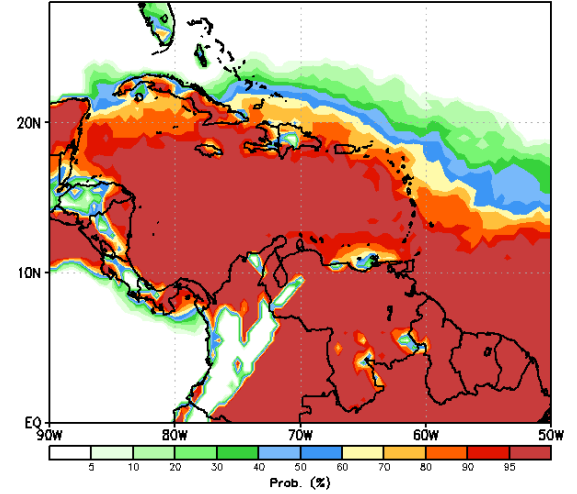


# Summary

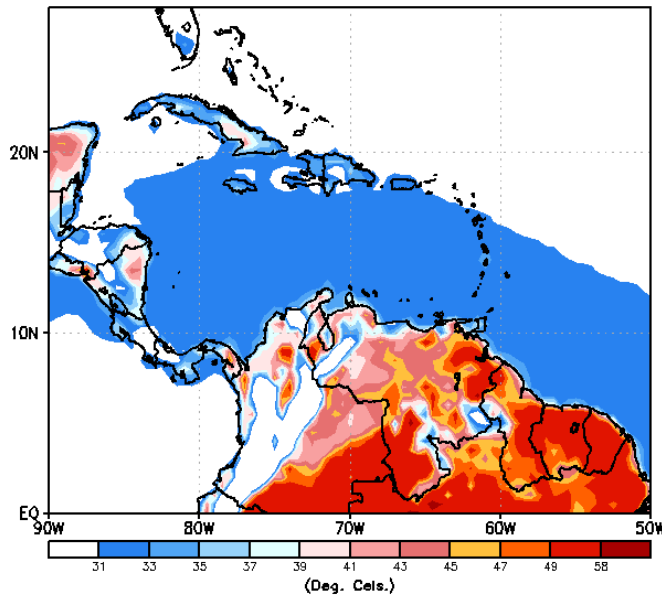
GEFS Week-2 10m Wind Speed Total  
Valid: 20210820 - 20211123



GEFS Week-2 Tmax Exceedance Prob.  $\geq 35$  Cels.  
 $>=3$  Consec. Days, Valid: 20210820 - 20211123



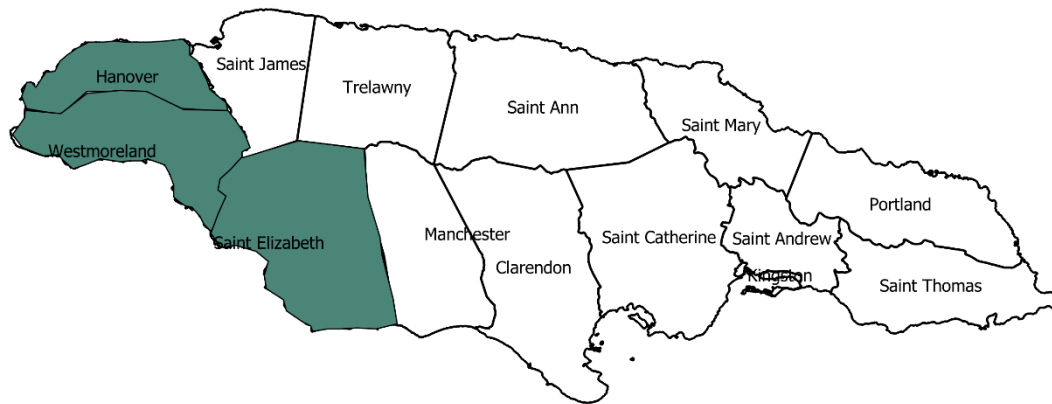
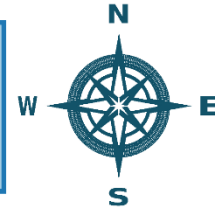
GEFS HI 80th . Model Climo.  
Valid: 17Nov - 23Nov



# Excessive Heat Outlook



## Week 2 Excessive Heat Outlook



### Legend

- Extreme Risk
- High Risk
- Moderate Risk
- Low Risk
- No Impact

Light winds coupled with moderate upper level divergence over the region are unlikely to produce excess heating across the island. Although the GEFS Tmax forecast indicated that western parishes are likely to equal or exceed 35°C the odds of this happening remains very low in week 2.