

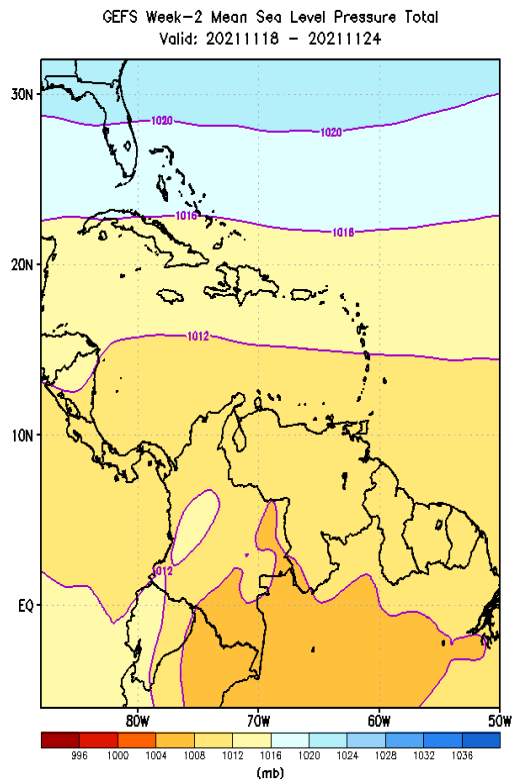
Second WMO RCC-Washington International Training Workshop

Real-time week-2 extreme temperature outlook

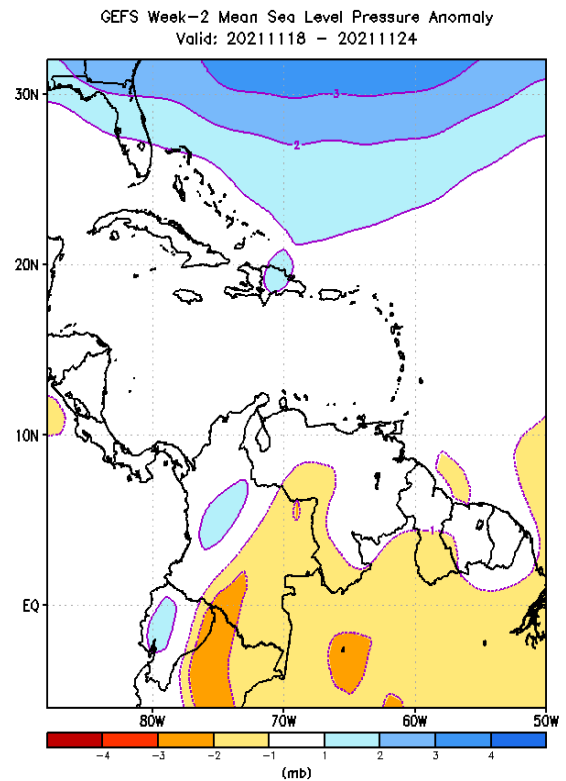
8 – 10 November 2021

Mean Sea Level Pressure

Total



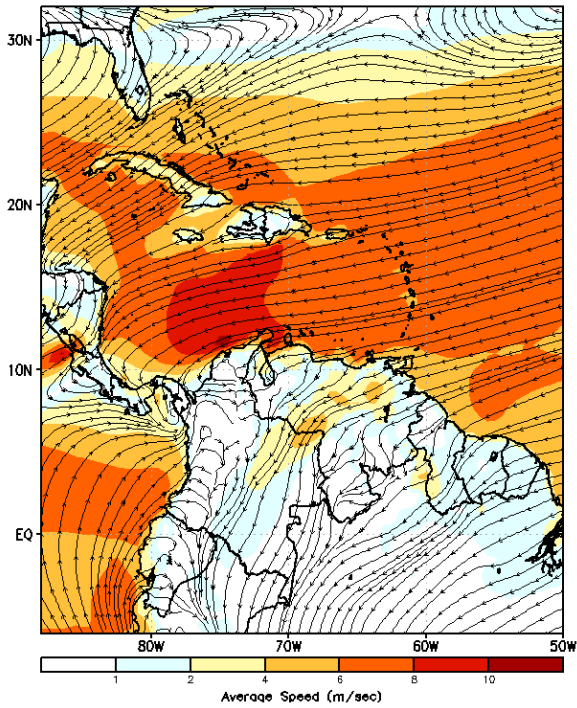
Anomaly



10m Wind

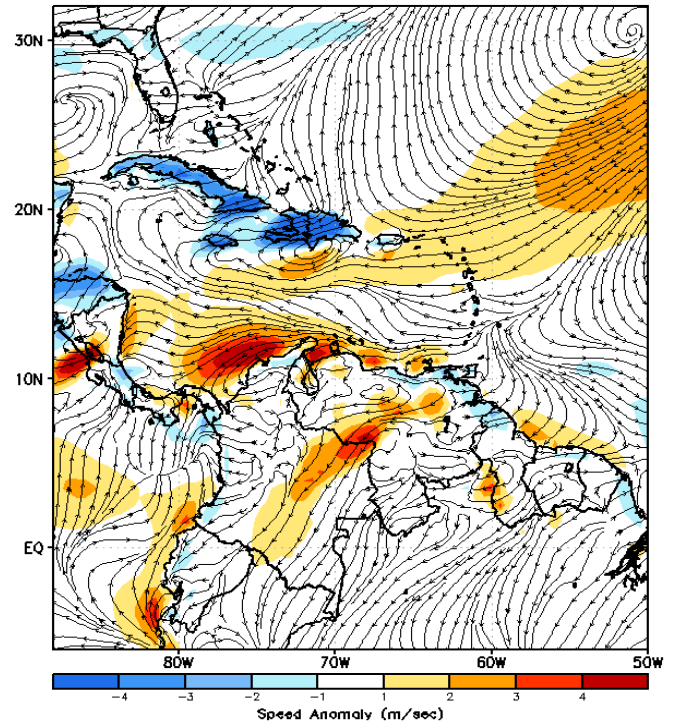
Total

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



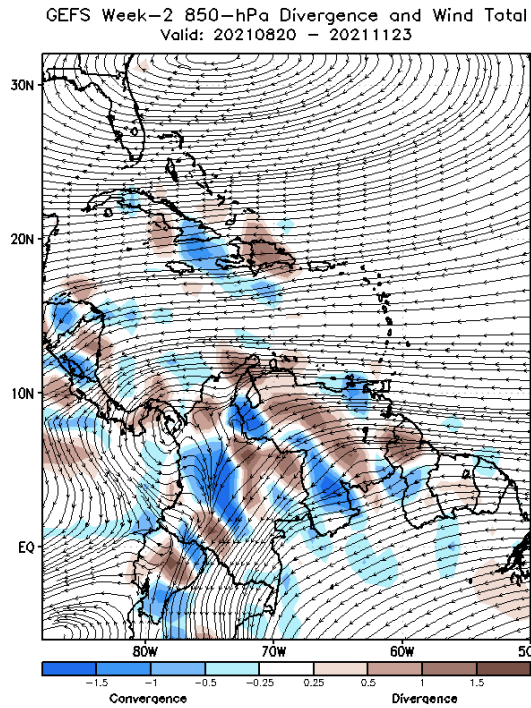
Anomaly

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

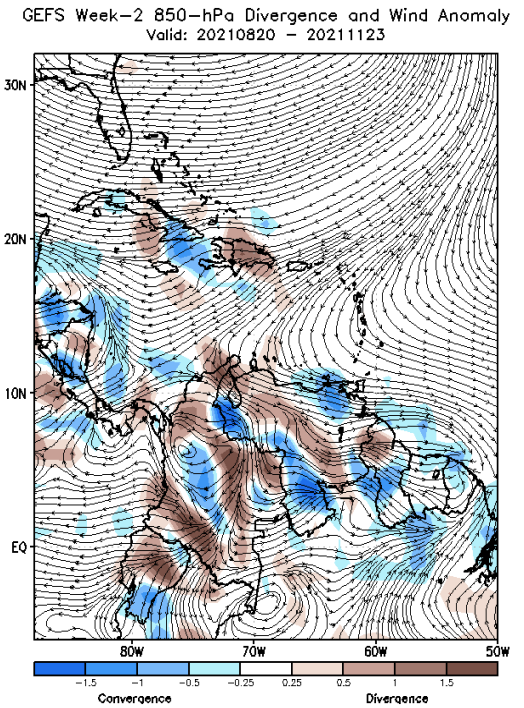


850-hPa Wind

Total

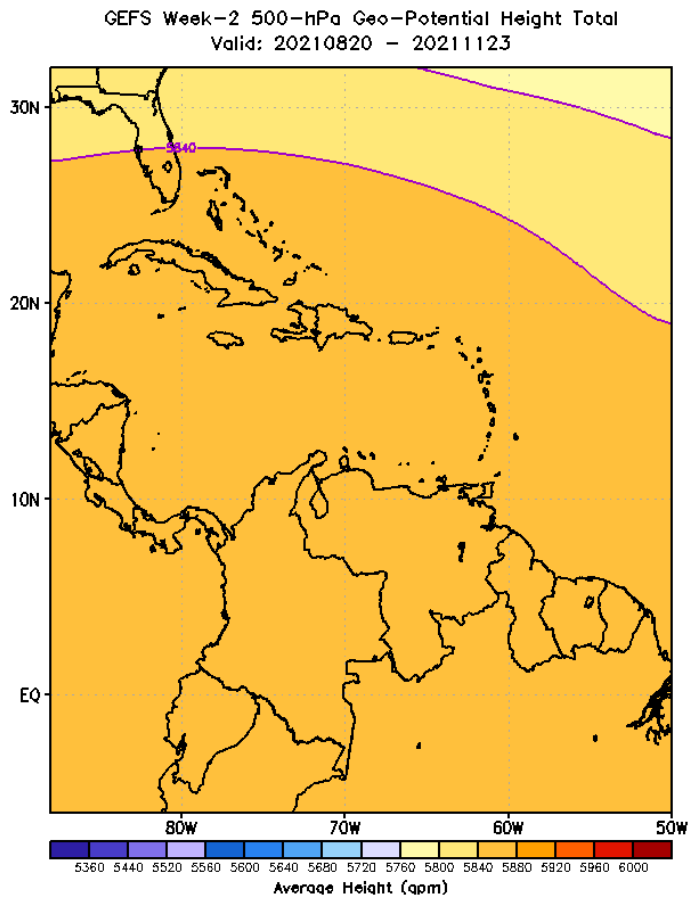


Anomaly

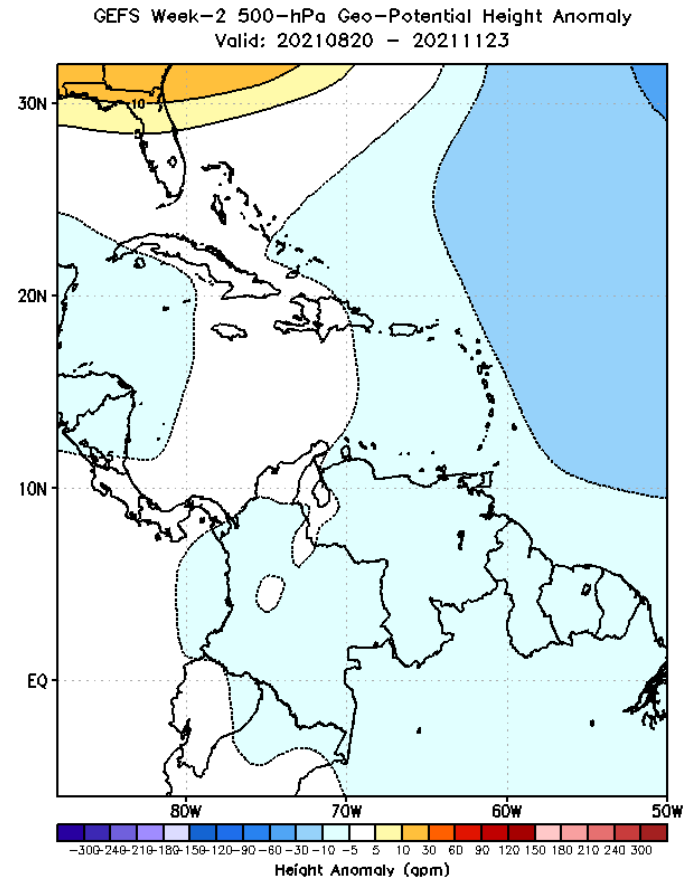


500-hPa Height

Total



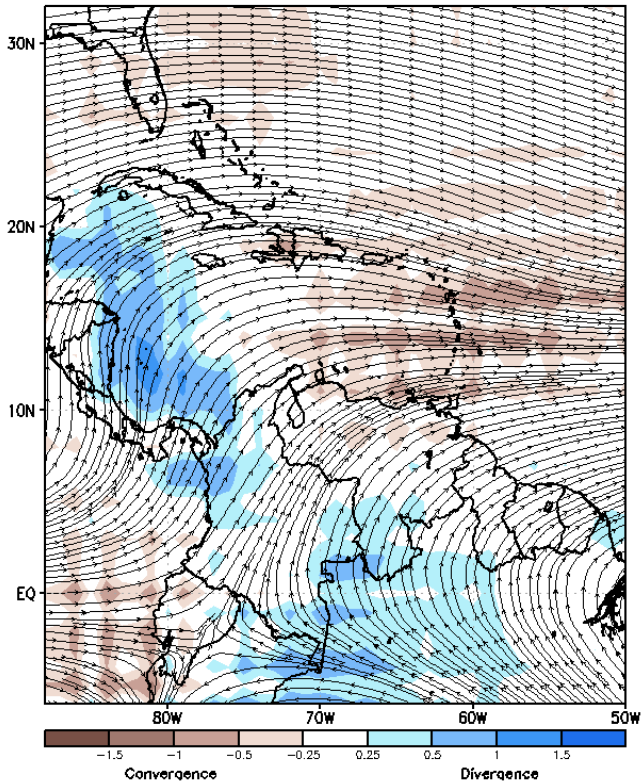
Anomaly



200-hPa Wind

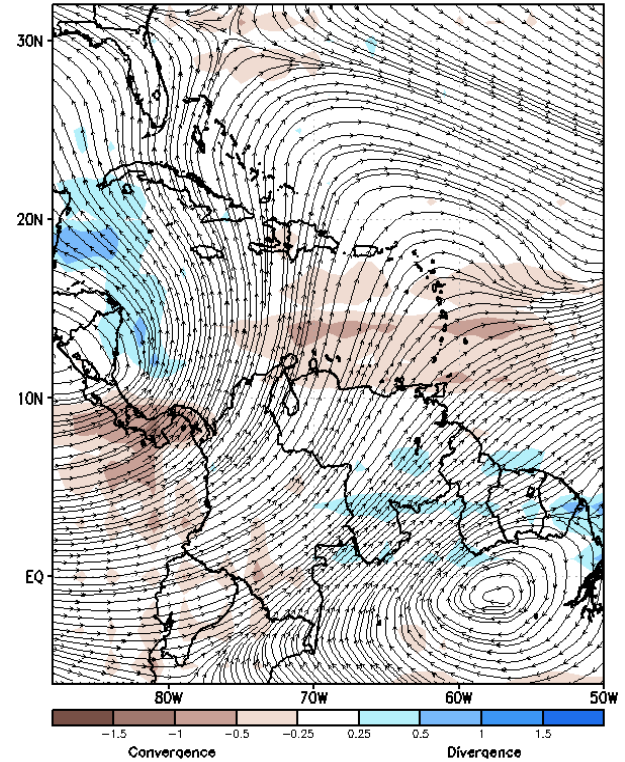
Total

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



Anomaly

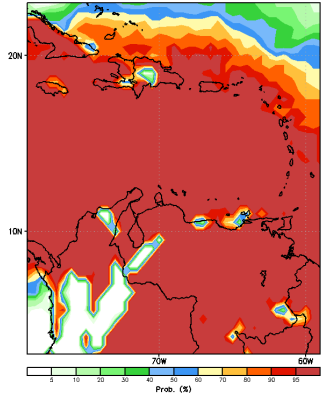
GEFS Week-2 200-hPa Divergence and Wind Anomaly
Valid: 20210820 - 20211123



Tmax Exceedance Probability for at least 2 Consecutive Days

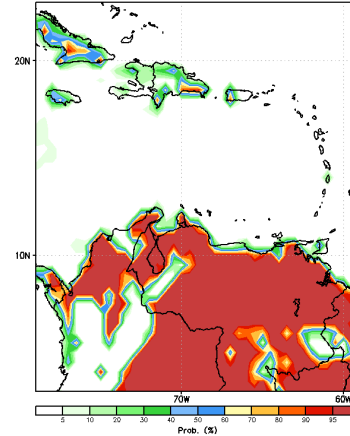
$\geq 35^{\circ}\text{C}$

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



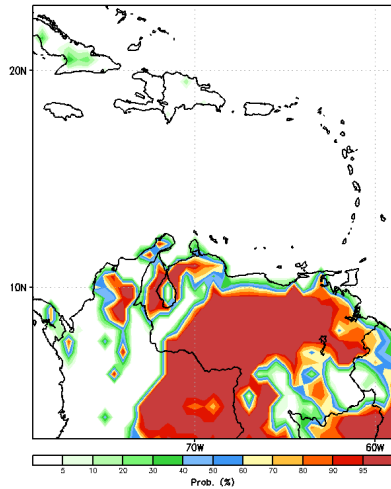
$\geq 37^{\circ}\text{C}$

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



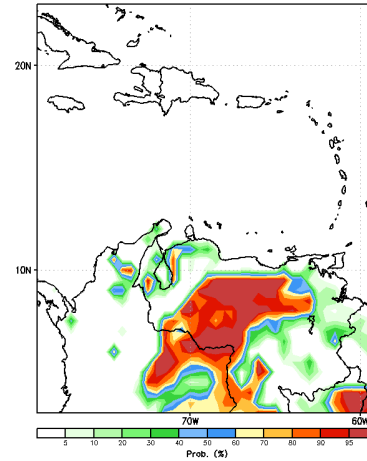
$\geq 39^{\circ}\text{C}$

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



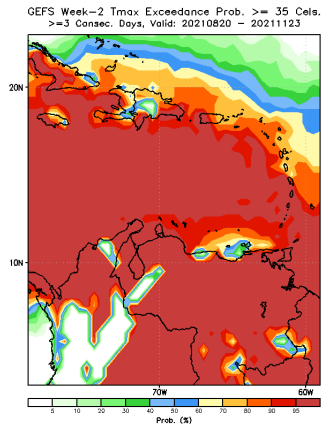
$\geq 41^{\circ}\text{C}$

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

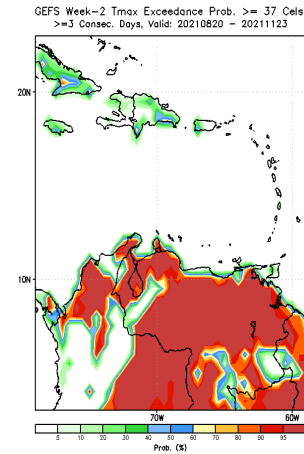


Tmax Exceedance Probability for at least 3 Consecutive Days

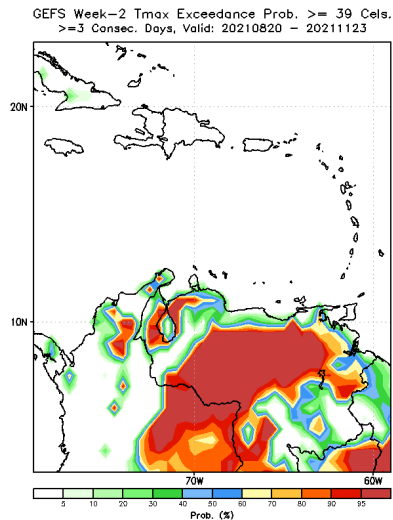
$\geq 35\text{ }^{\circ}\text{C}$



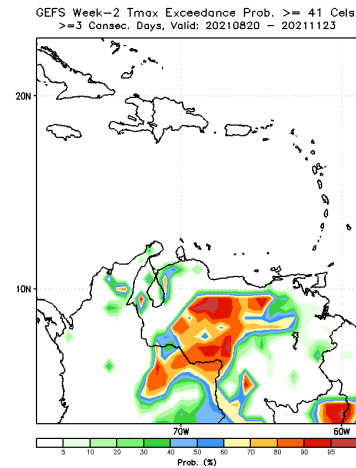
$\geq 37\text{ }^{\circ}\text{C}$



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



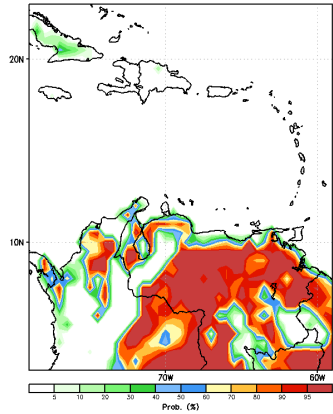
$\geq 41\text{ }^{\circ}\text{C}$



HI Exceedance Probability for at least 2 Consecutive Days

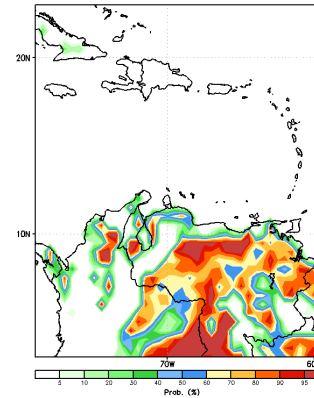
$\geq 41^{\circ}\text{C}$

GEFS Week-2 HI Exceedance Prob. ≥ 41 Deg. Cels.
 ≥ 2 Consec. Days, Valid: 20210820 - 20211123



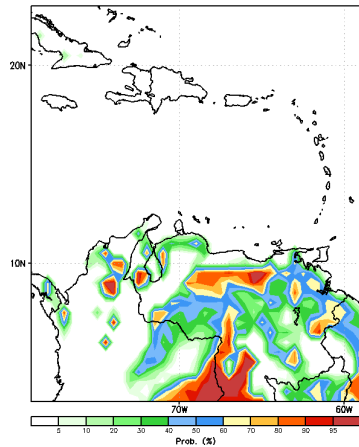
$\geq 43^{\circ}\text{C}$

GEFS Week-2 HI Exceedance Prob. ≥ 43 Deg. Cels.
 ≥ 2 Consec. Days, Valid: 20210820 - 20211123



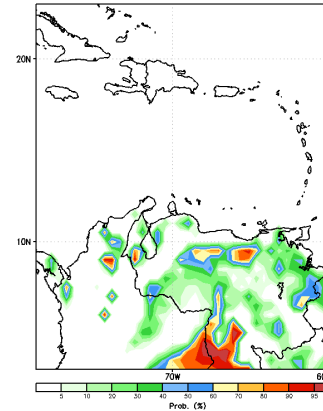
$> 45^{\circ}\text{C}$

GEFS Week-2 HI Exceedance Prob. > 45 Deg. Cels.
 ≥ 2 Consec. Days, Valid: 20210820 - 20211123



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

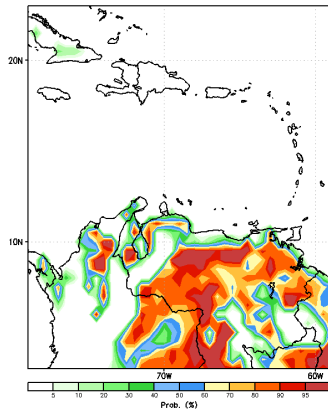
GEFS Week-2 HI Exceedance Prob. ≥ 47 Deg. Cels.
 ≥ 2 Consec. Days, Valid: 20210820 - 20211123



HI Exceedance Probability for at least 3 Consecutive Days

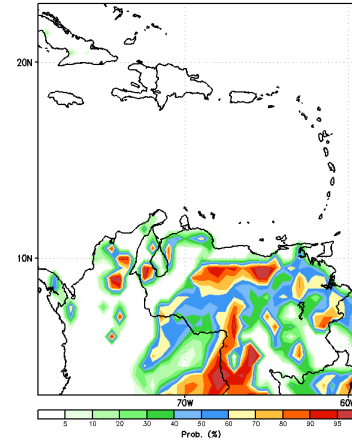
$\geq 41^{\circ}\text{C}$

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



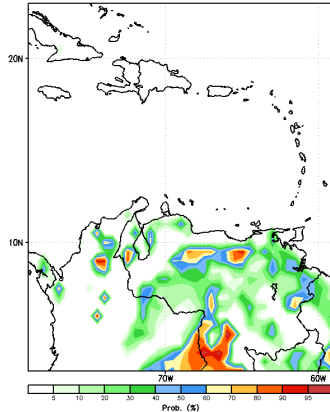
$\geq 43^{\circ}\text{C}$

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



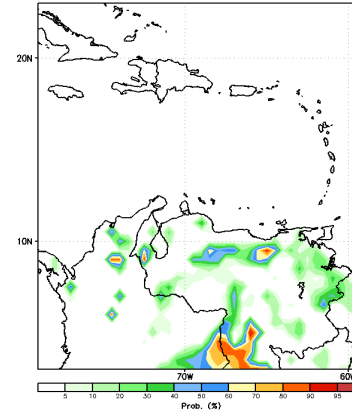
$\geq 45^{\circ}\text{C}$

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



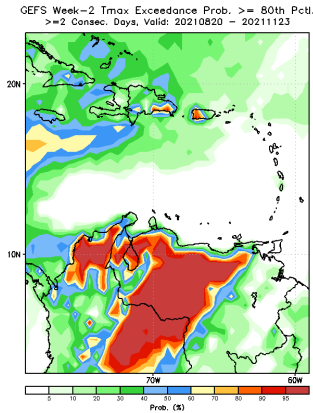
$\geq 47^{\circ}\text{C}$

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

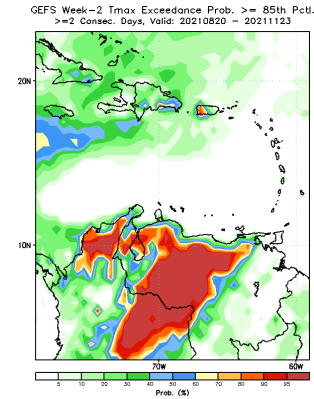


Tmax Exceedance Probability with respect to Percentiles for at least 2 Consecutive Days

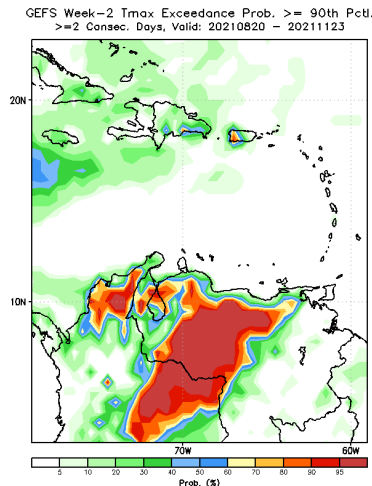
$\geq 80^{\text{th}}$ percentile



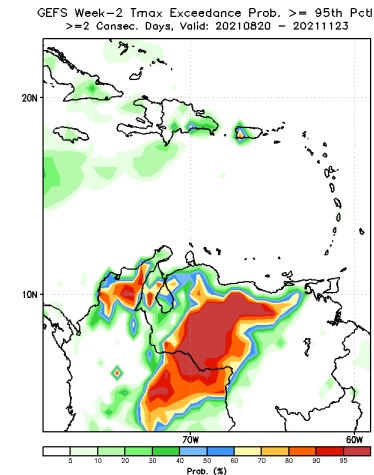
$\geq 85^{\text{th}}$ percentile



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



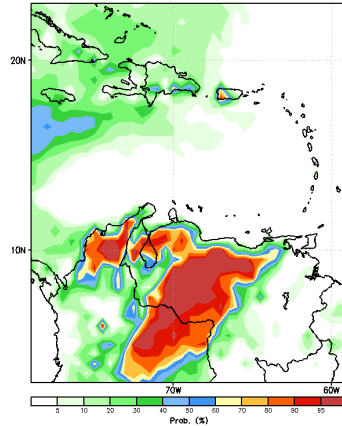
$\geq 95^{\text{th}}$ percentile



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

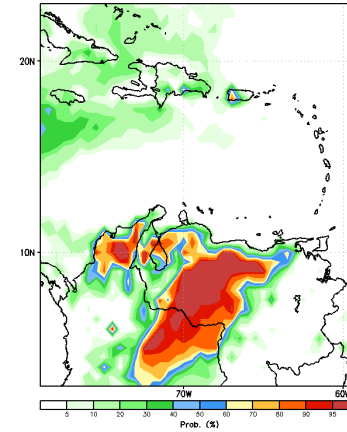
$\geq 80^{\text{th}}$ percentile

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



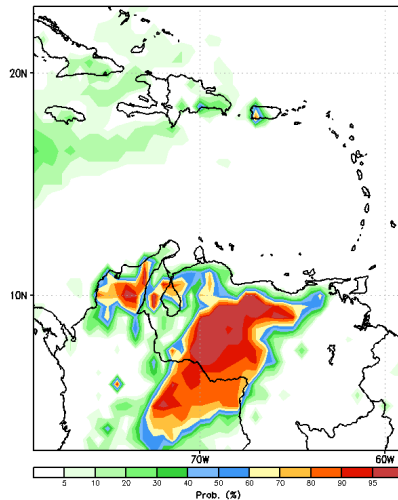
$\geq 85^{\text{th}}$ percentile

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



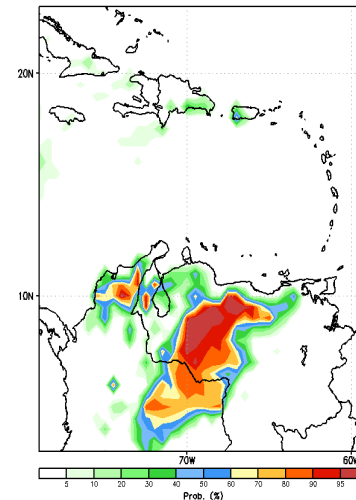
$\geq 90^{\text{th}}$ percentile

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



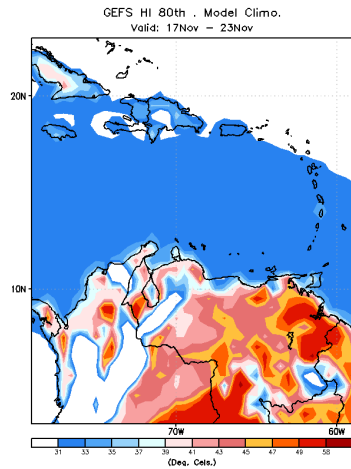
$\geq 95^{\text{th}}$ percentile

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

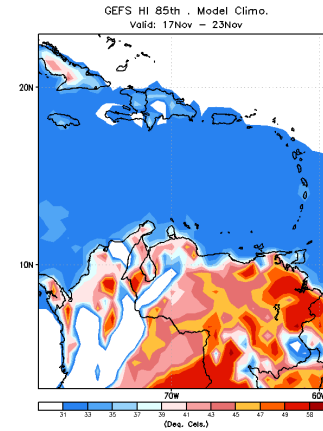


Tmax Percentile Climatology

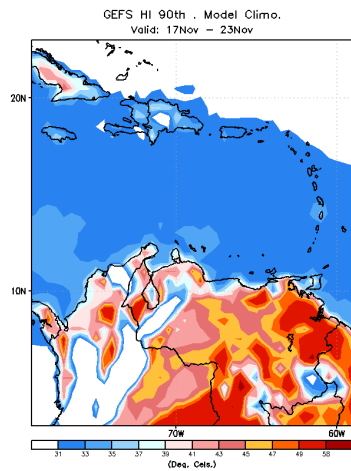
80th percentile



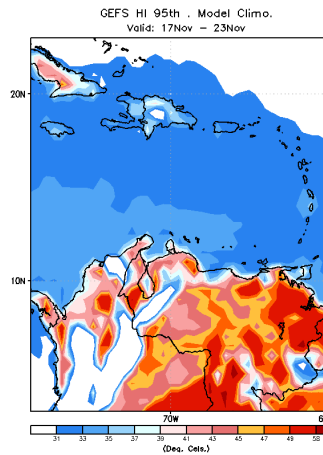
85th percentile



90th percentile

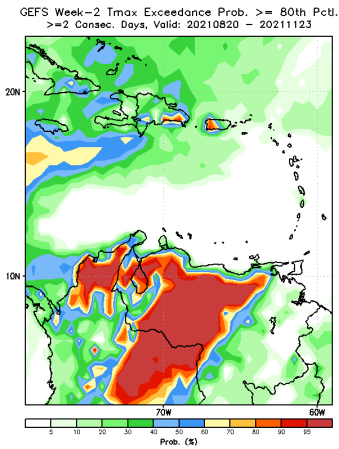


95th percentile

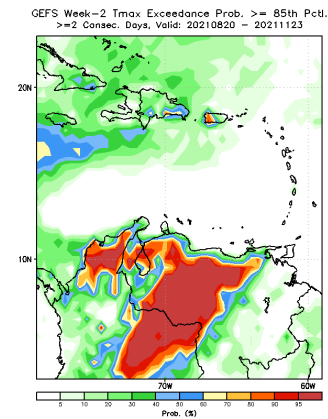


HI Exceedance Probability with respect to Percentiles for at least 2 Consecutive Days

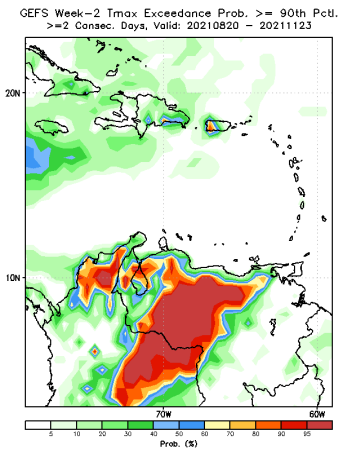
$\geq 80^{\text{th}}$ percentile



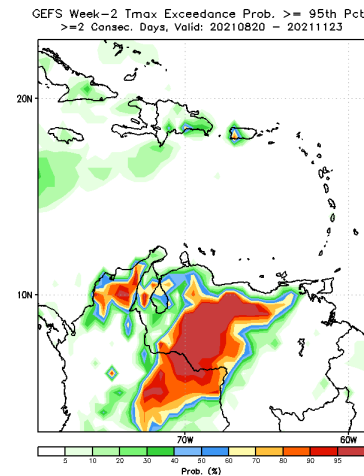
$\geq 85^{\text{th}}$ percentile



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

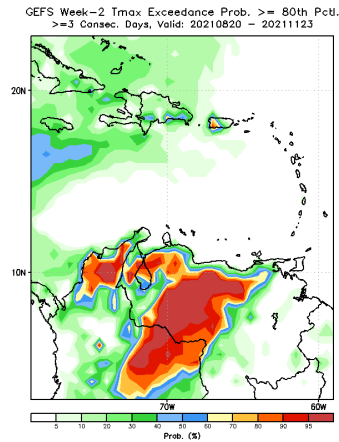


$\geq 95^{\text{th}}$ percentile

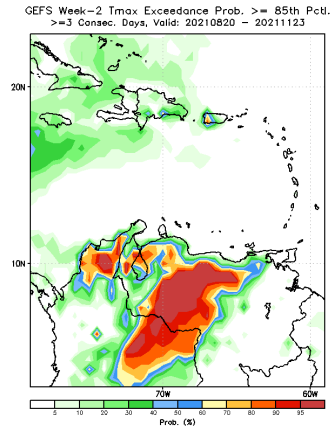


HI Exceedance Probability with respect to Percentiles for at least 3 Consecutive Days

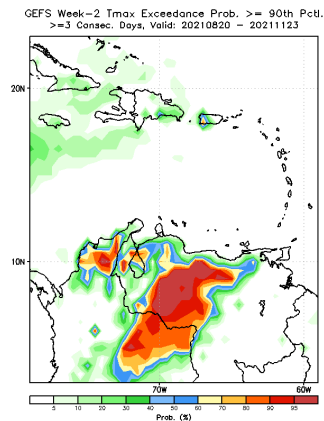
$\geq 80^{\text{th}}$ percentile



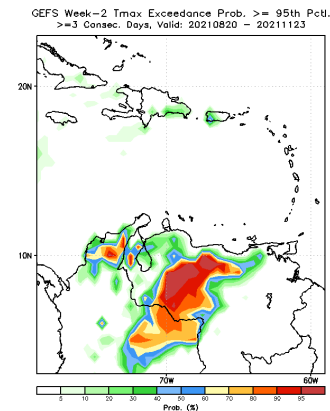
$\geq 85^{\text{th}}$ percentile



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

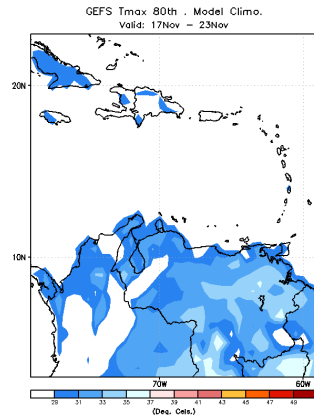


$\geq 95^{\text{th}}$ percentile

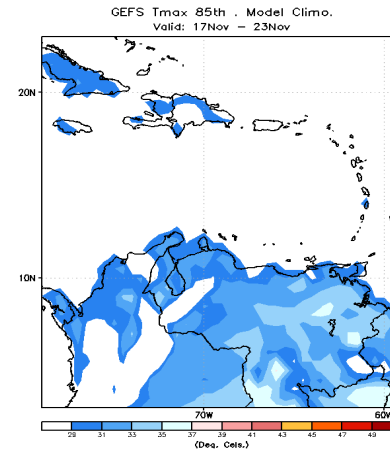


HI Percentile Climatology

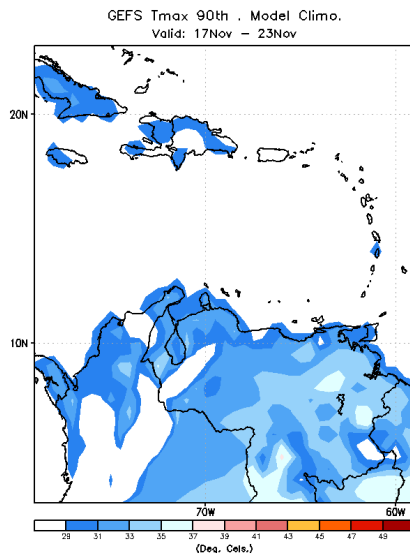
80th percentile



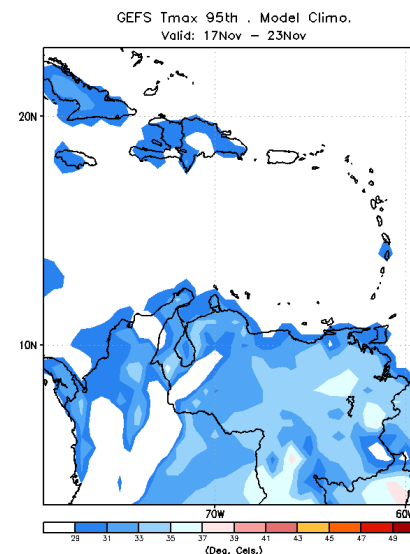
85th percentile



90th percentile



95th percentile



Summary

No circulation patterns

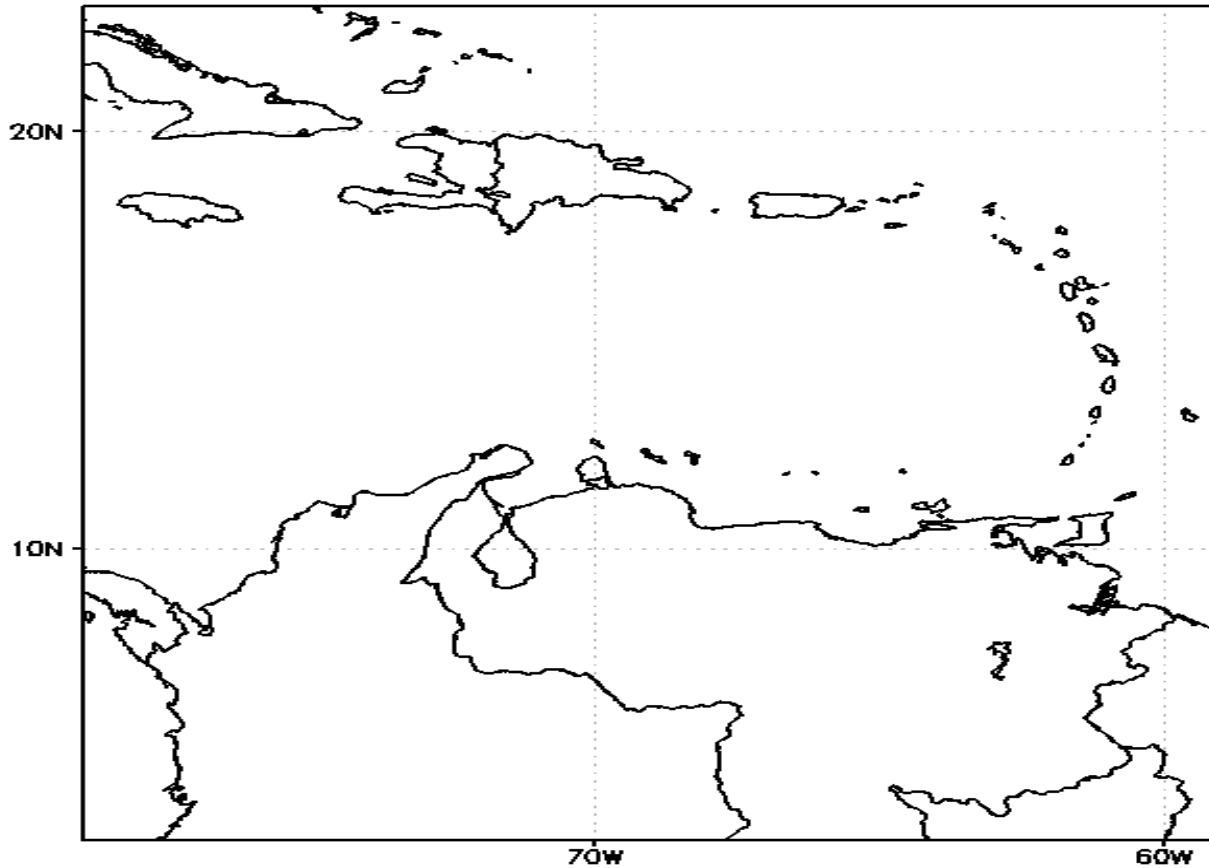
Low weak anomaly convergence at 200hPa.

Anomaly weakens => leading to increased temp in the region

Tmax Exceedance prob $\geq 35^\circ$ more likely.

Tmax percentile climatology 80th percentile less likely.

Excessive Heat Outlook



Legend

- High risk
- Moderate risk

High temperature expected but no extreme excessive heat.
No risk expected for the region of Curaçao.