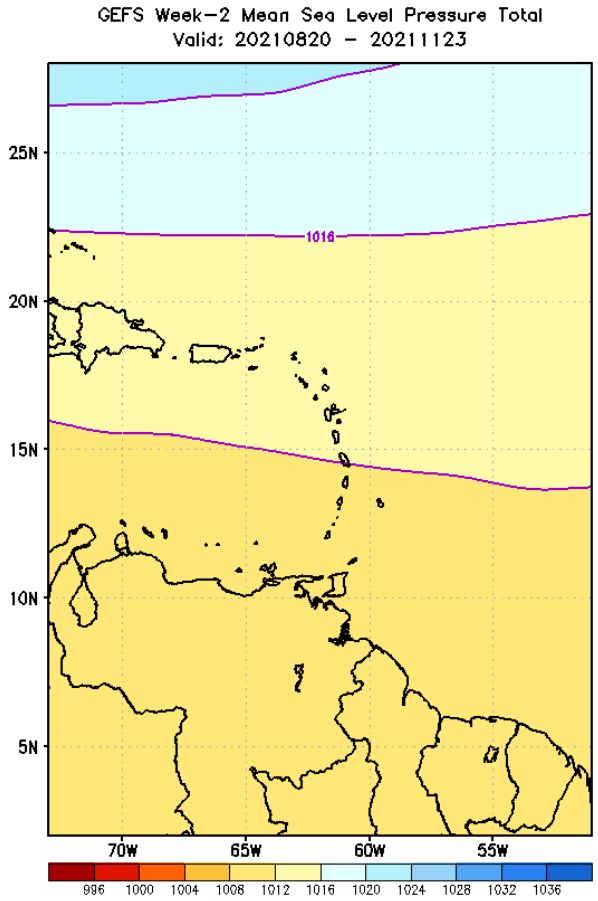
Second WMO RCC-Washington International Training Workshop

Real-time week-2 extreme temperature outlook

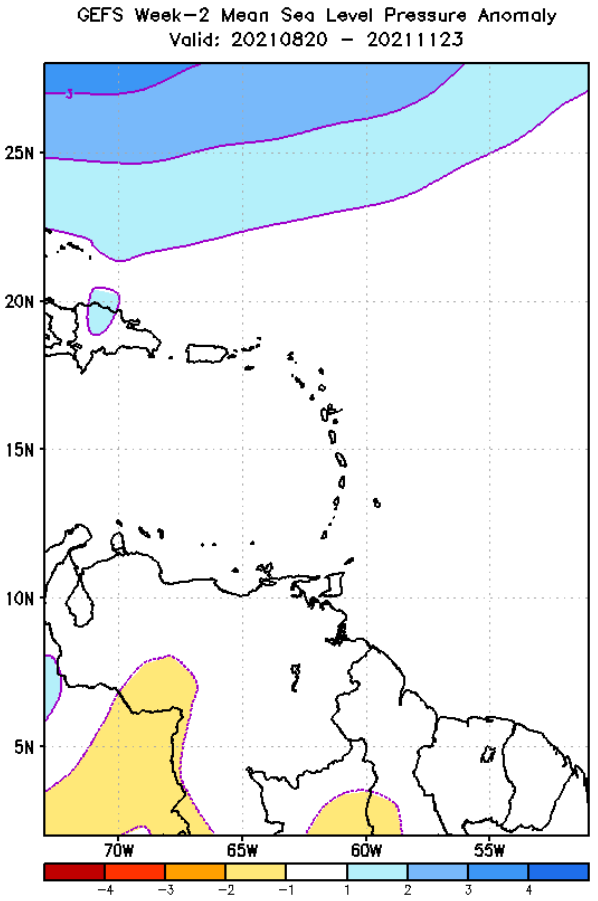
8 – 10 November 2021

Mean Sea Level Pressure

Total

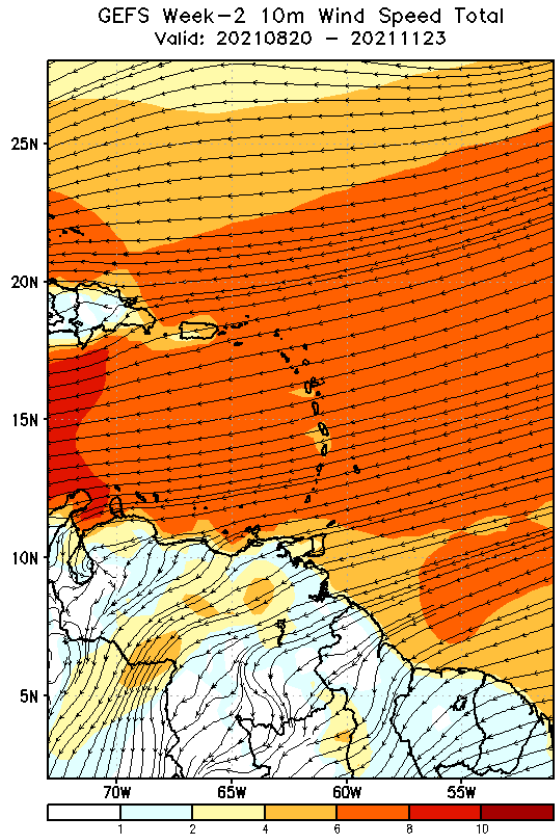


Anomaly



10m Wind

Total



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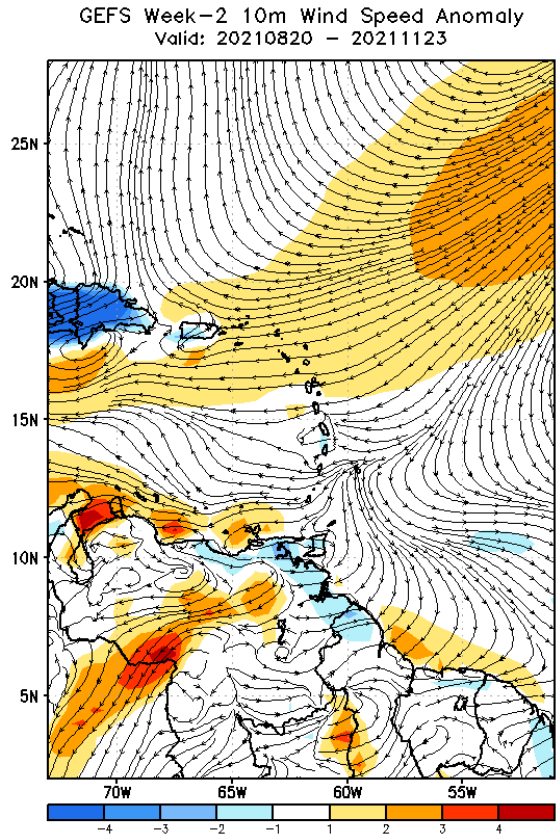
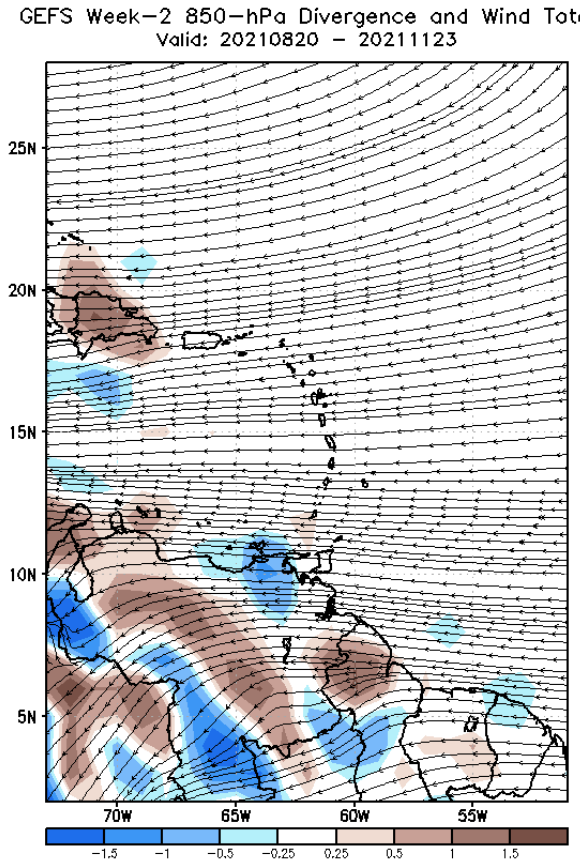
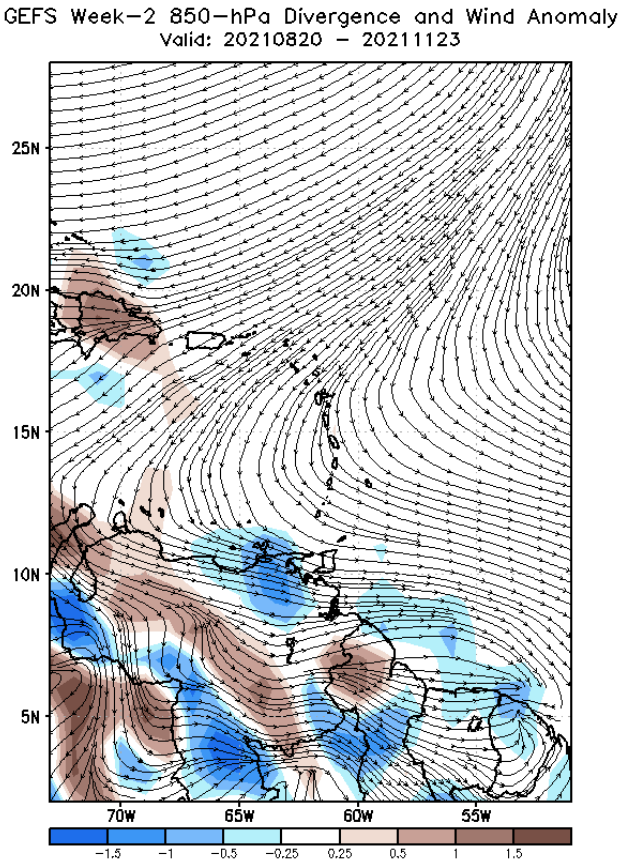


850-hPa Wind

Total

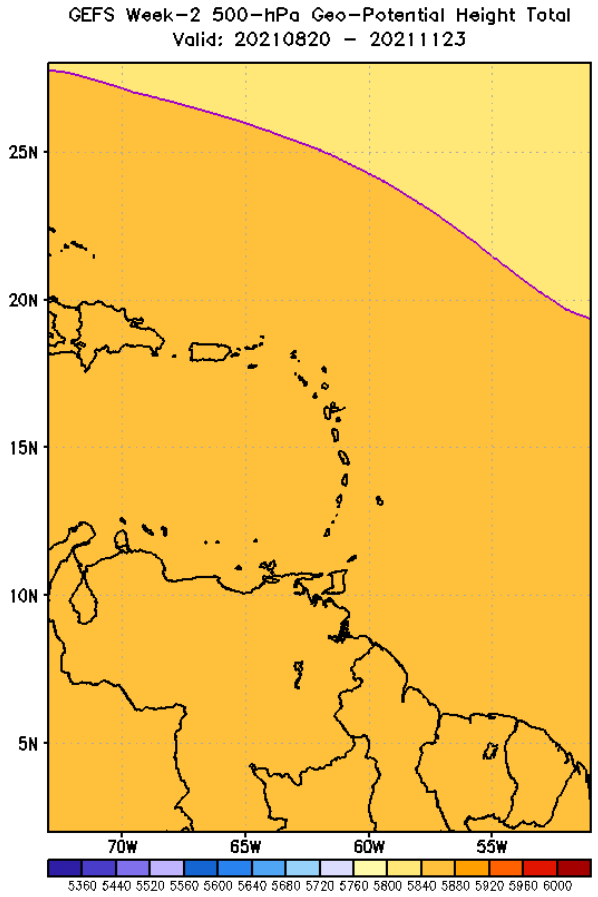


Anomaly



500-hPa Height

Total



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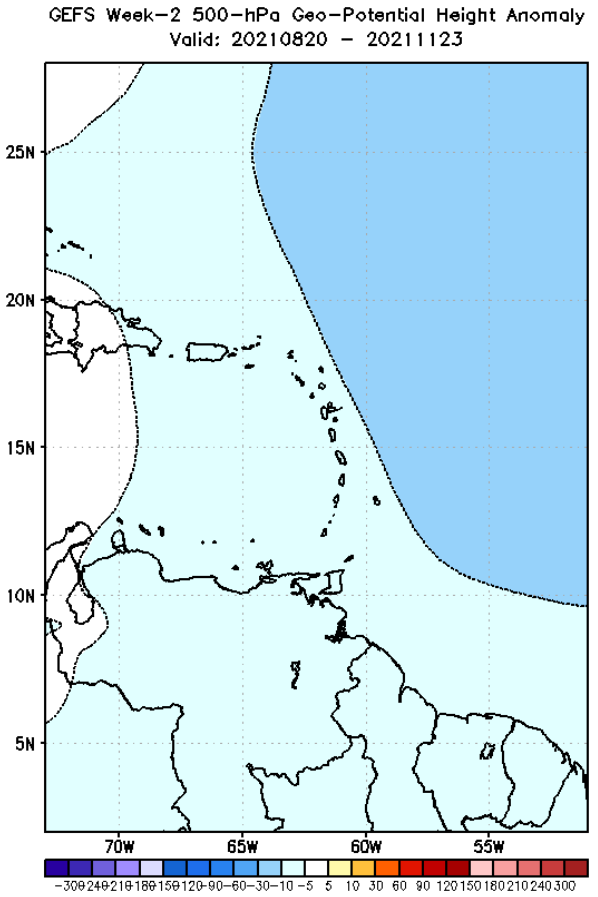
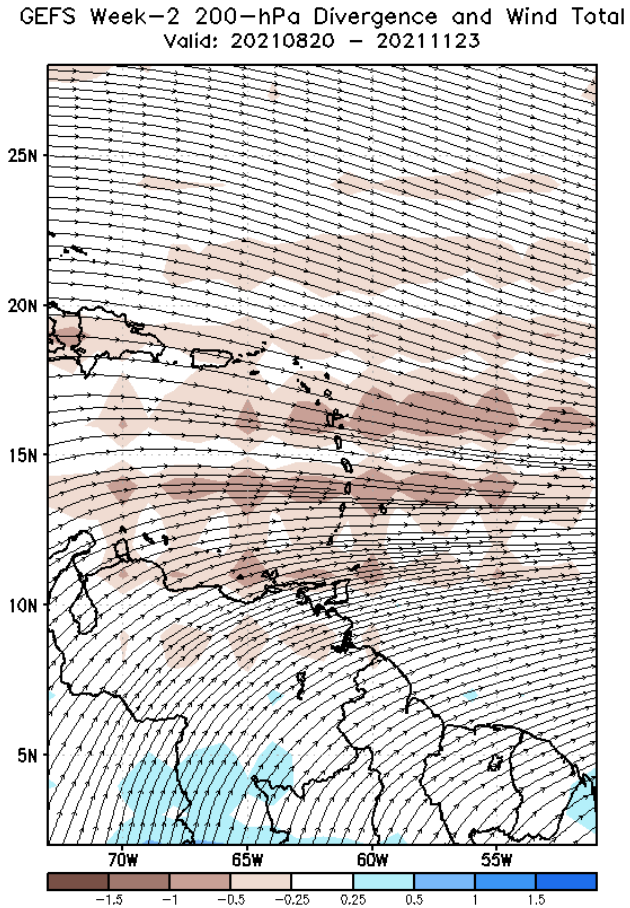
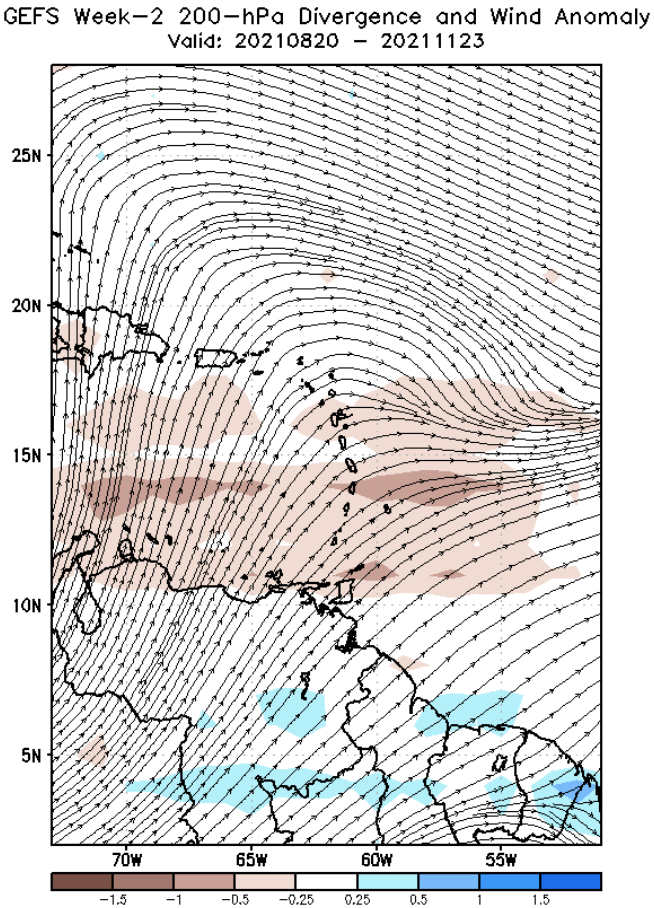


200-hPa Wind

Total

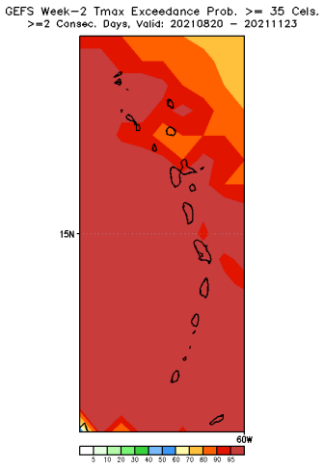


Anomaly

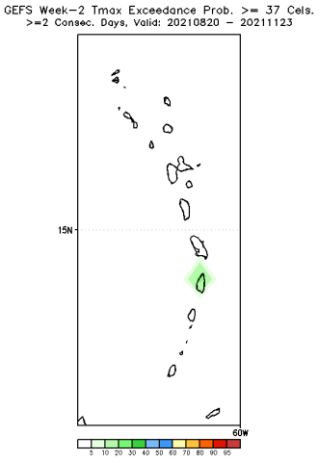


Tmax Exceedance Probability for at least 2 Consecutive Days

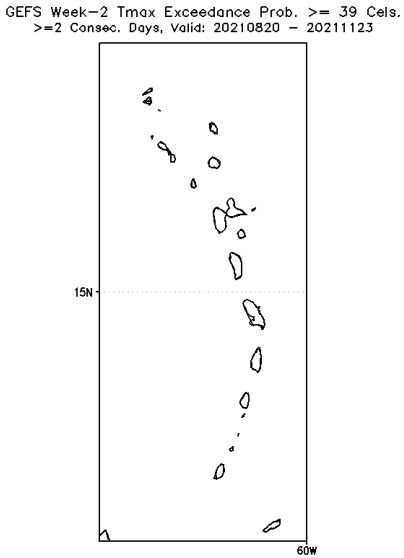
≥ 35°C



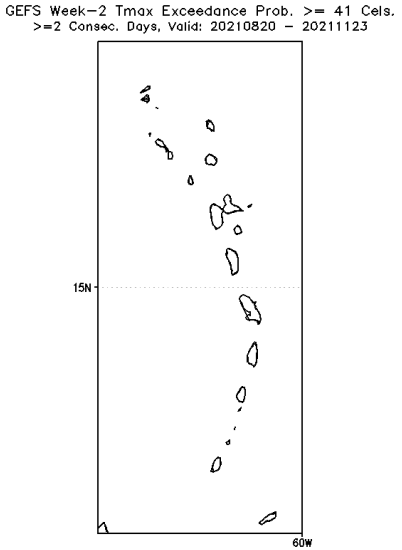
≥ 37°C



≥ 39°C

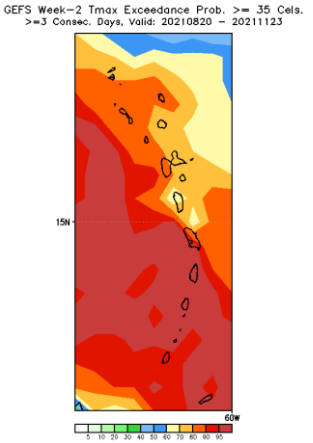


≥ 41°C

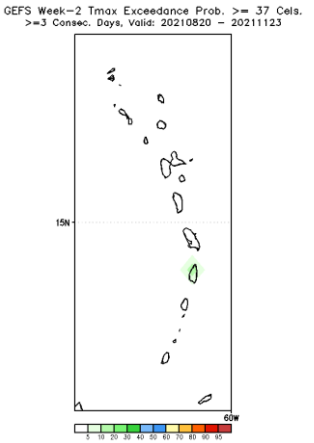


Tmax Exceedance Probability for at least 3 Consecutive Days

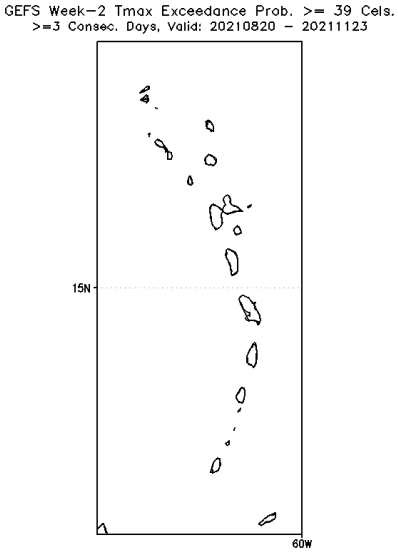
≥ 35 ºC



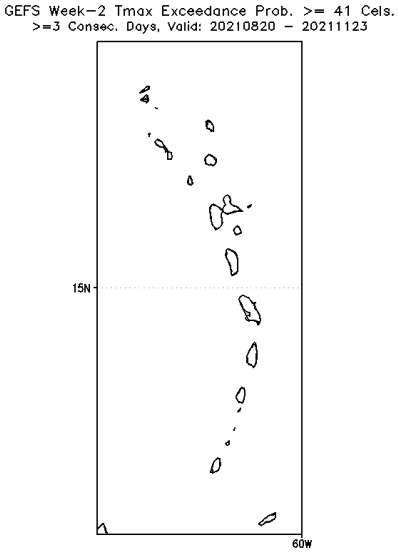
≥ 37 ºC



≥ 39 ºC

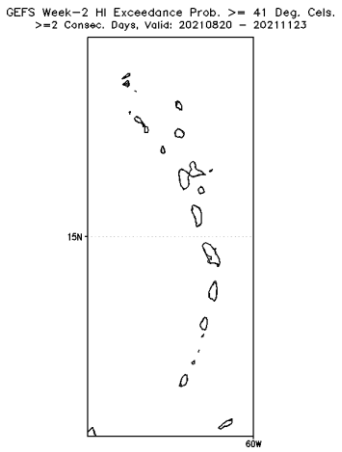


≥ 41 ºC

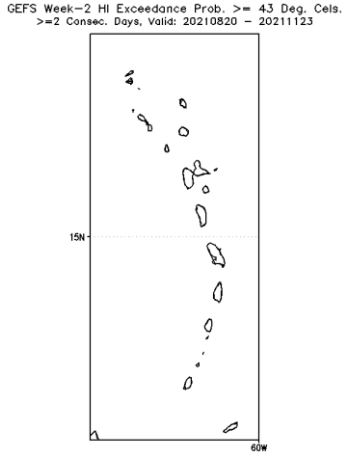


HI Exceedance Probability for at least 2 Consecutive Days

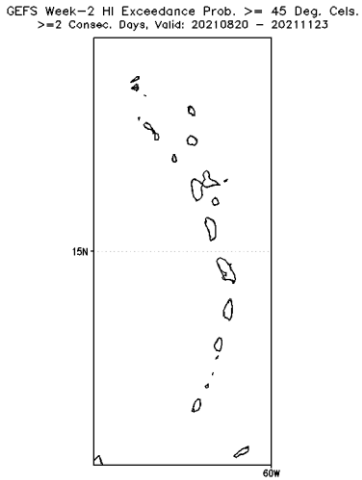
≥ 41°C



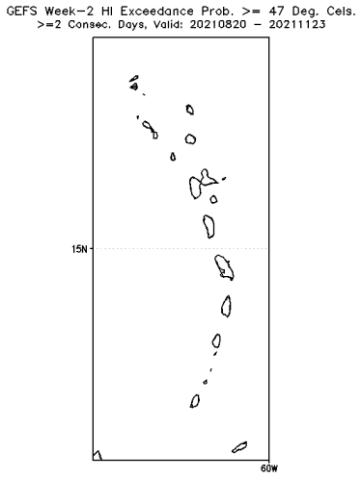
≥ 43°C



≥ 45°C

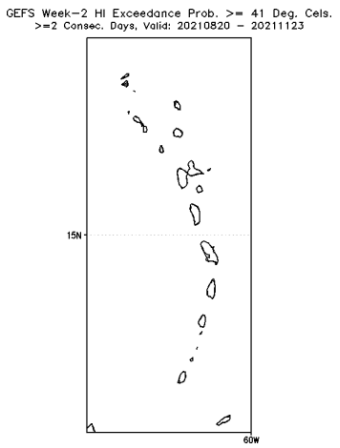


≥ 47°C

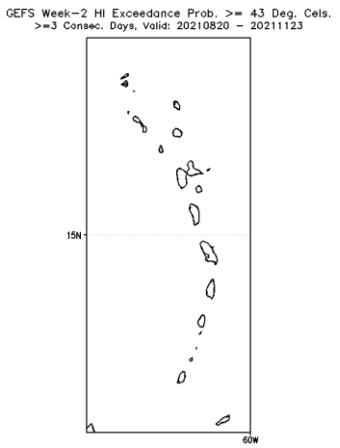


HI Exceedance Probability for at least 3 Consecutive Days

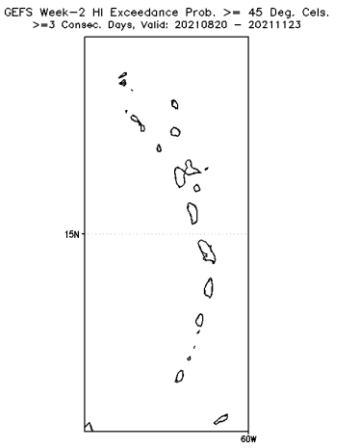
≥ 41°C



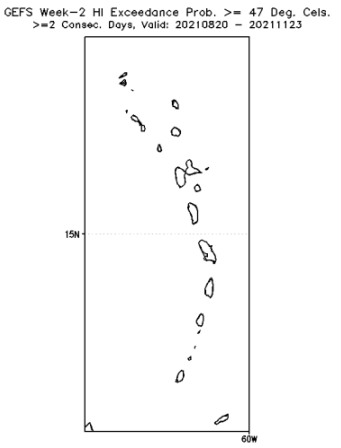
≥ 43°C



≥ 45°C

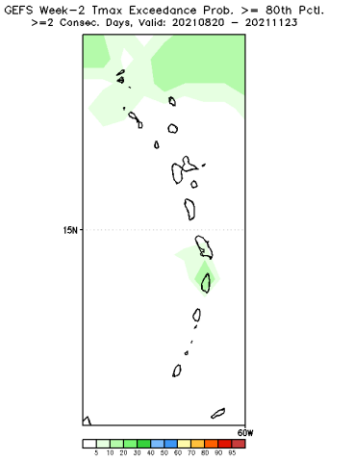


≥ 47°C

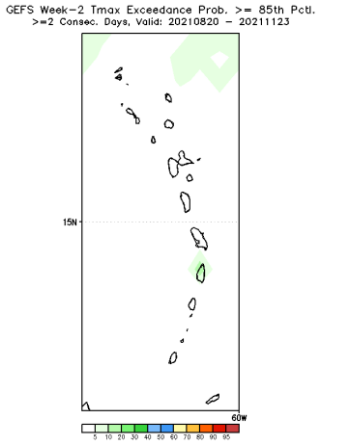


Tmax Exceedance Probability with respect to Percentiles for at least 2 Consecutive Days

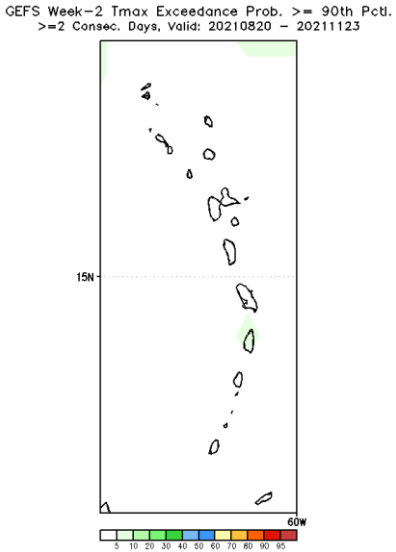
≥ 80th percentile



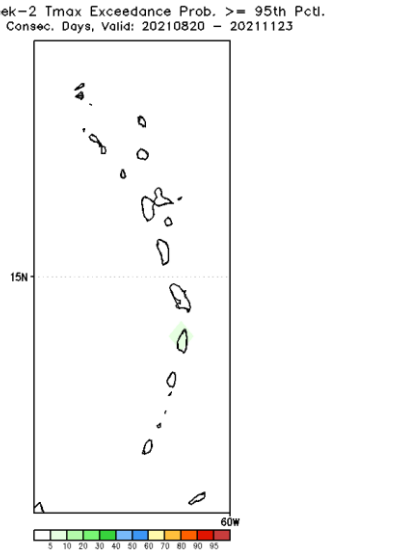
≥ 85th percentile



≥ 90th percentile

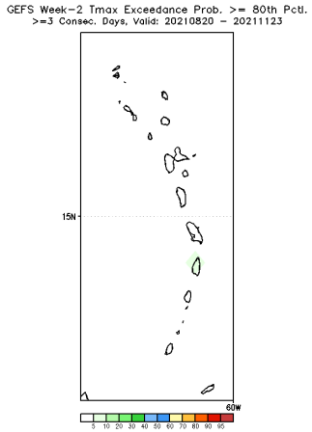


≥ 95th percentile

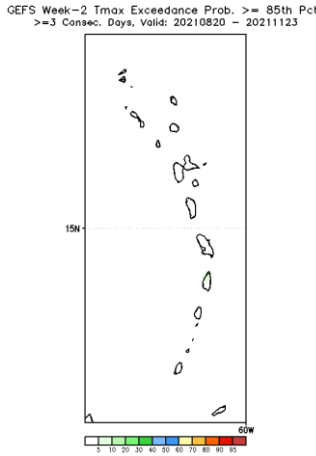


Tmax Exceedance Probability with respect to Percentiles for at least 3 Consecutive Days

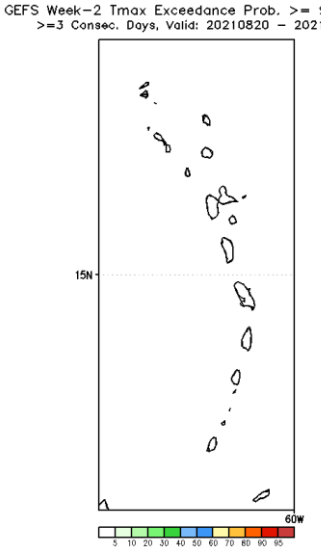
≥ 80th percentile



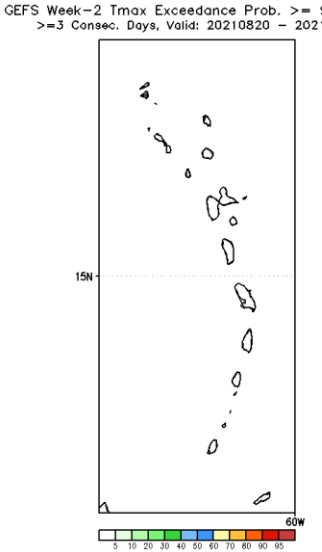
≥ 85th percentile



≥ 90th percentile

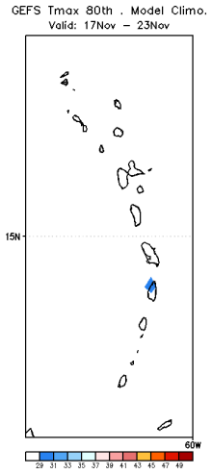


≥ 95th percentile

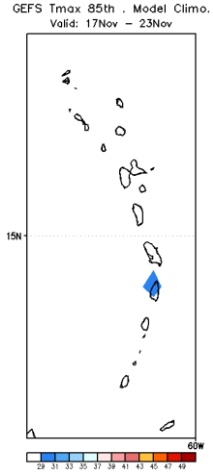


Tmax Percentile Climatology

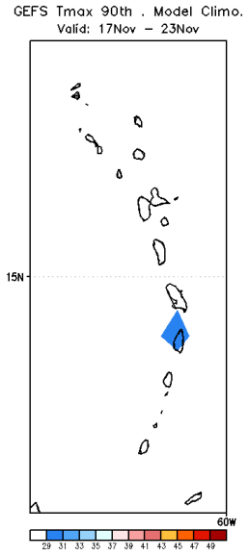
80th percentile



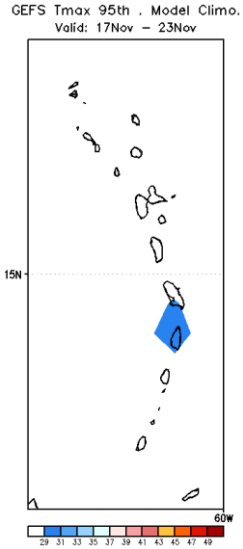
85th percentile



90th percentile

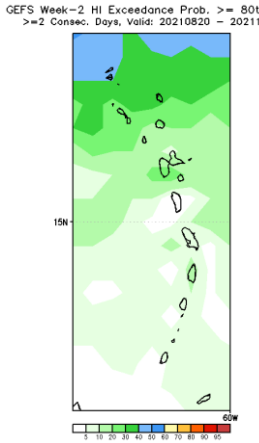


95th percentile

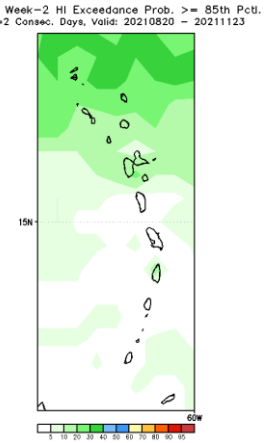


HI Exceedance Probability with respect to Percentiles for at least 2 Consecutive Days

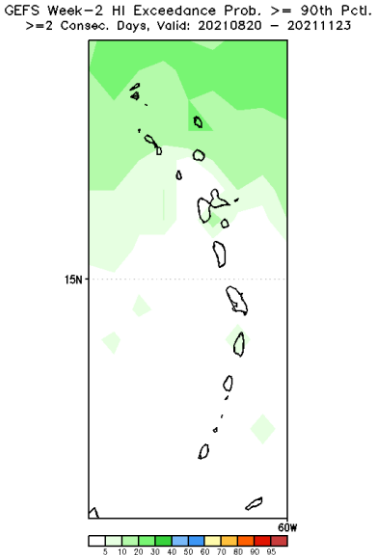
≥ 80th percentile



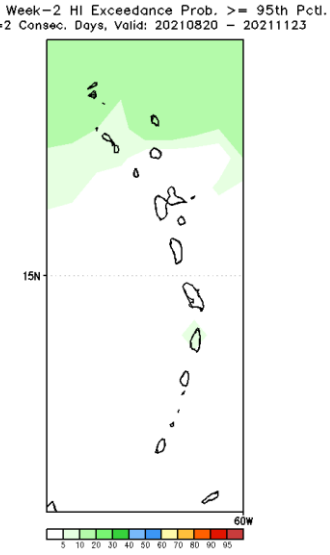
≥ 85th percentile



≥ 90th percentile

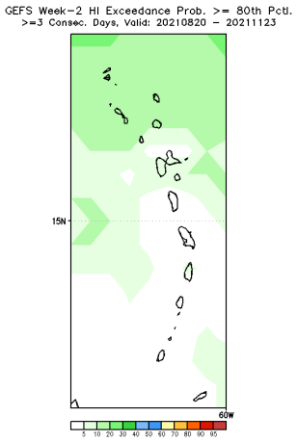


≥ 95th percentile

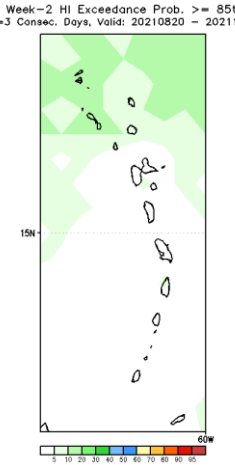


HI Exceedance Probability with respect to Percentiles for at least 3 Consecutive Days

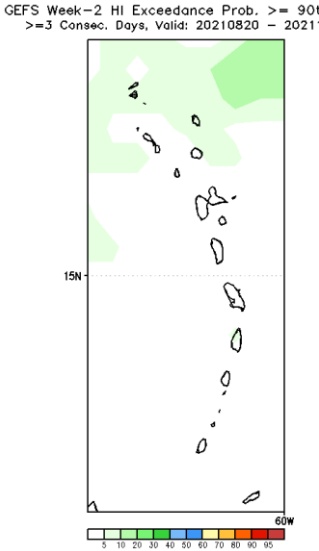
≥ 80th percentile



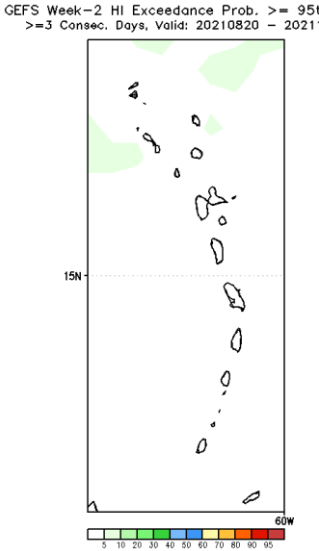
≥ 85th percentile



≥ 90th percentile

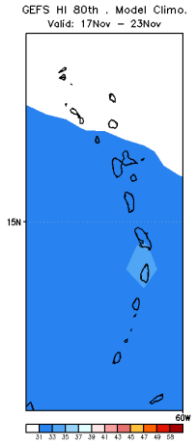


≥ 95th percentile

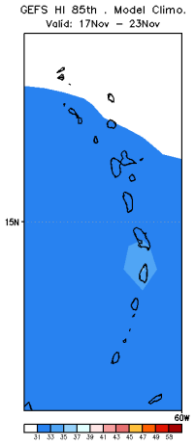


HI Percentile Climatology

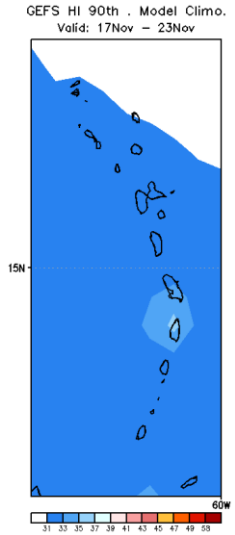
80th percentile



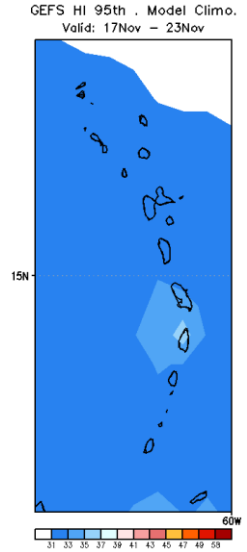
85th percentile



90th percentile



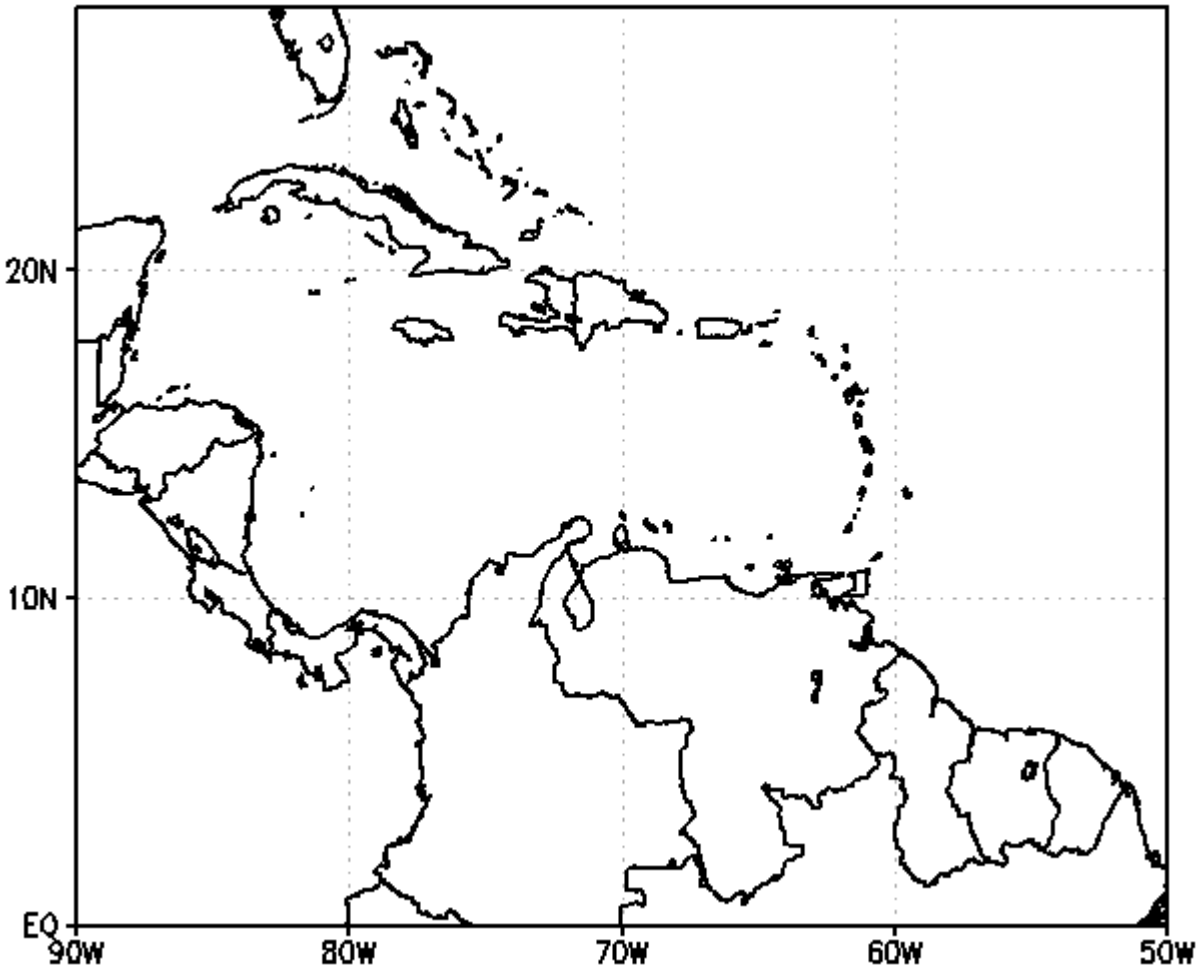
95th percentile



Summary

- No notable sea level pressure anomalies in the Lesser Antilles
- Area of stronger than normal 10m wind speeds are seen over the northern portion of the Lesser Antilles with a localized area of weaker than normal winds seen near St. Lucia.
- Broad area of negative height anomaly at 500mb seen over the entire portion of the Lesser Antilles extending from the Central Atlantic.
- Area of upper level convergence over the lesser Antilles at 200mb, with higher values near the central portion (St. Lucia) of the Lesser Antilles.
- High Tmax exceedance probability over the Lesser Antilles (>=35^{o}C for both 2 and 3 consecutive days).
- Low exceedance probability (80th percentile over at least two consecutive days) over the far northern and central portion of the Lesser Antilles.

Excessive Heat Outlook



Legend

High risk

Moderate risk

Despite descending motion being likely due to convergence at the 200mb level over the lesser Antilles, the lower heights at 500mb and average to above average surface winds in the lesser Antilles could provide enough ventilation for temperatures to not reach excessive levels.

Model forecasts also suggests there will not be a notable excessive heat hazard in the vicinity of the leeward islands .