Heat Hazards Outlooks for the Caribbean

Date of Issue: 2025-05-27

Week-1, Valid for: 28 - 03 June 2025

Week-2, Valid for: 04 - 10 June 2025



Week-1, Mean Sea Level Pressure & 500-hPa Height

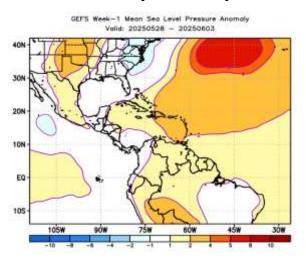


GEFS Week-1 Meon Sec Level Pressure Average Valid: 20250528 - 20250803

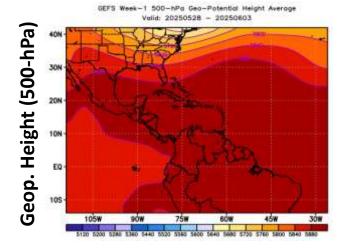
105

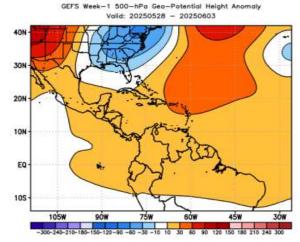
105W

7-day Anomaly



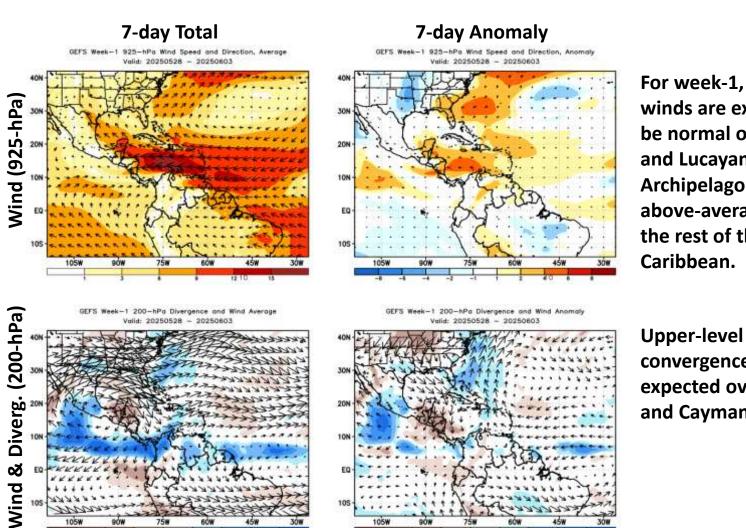
Next week, mean sea level pressure is forecasted to be above-average across most of the Caribbean with an increase over lesser Antilles.





At 500-hPa, geopotential height anomalies in the region also expected to be above-normal over most of the Caribbean for next week with an increase over northern lesser Antilles.

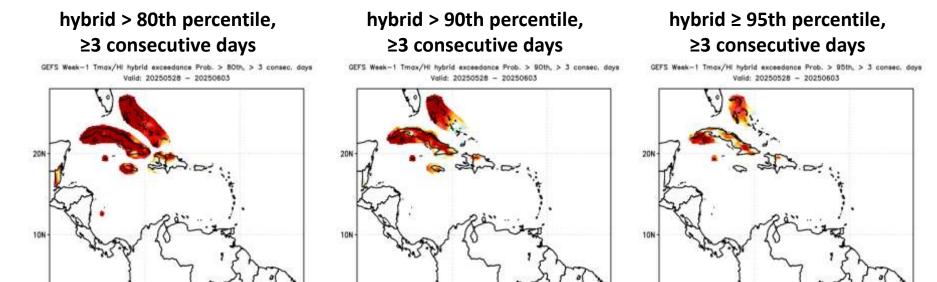
Week-1, 925-hPa and 200-hPa Wind



For week-1, low-level winds are expected to be normal over Cuba, and Lucayan Archipelago and above-average across the rest of the

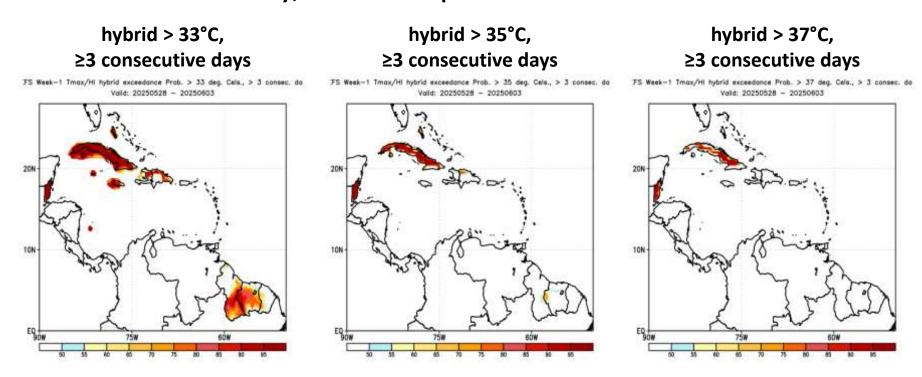
convergence is **expected over Cuba** and Cayman Islands.

Week-1, Daily Tmax/HI Hybrid Index Exceedance Probability, with Respect to Percentile Thresholds



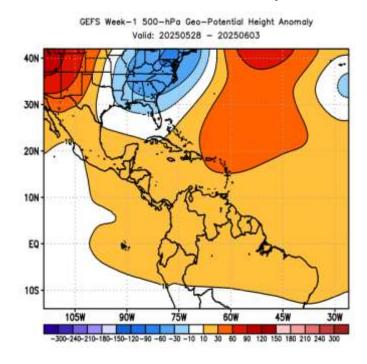
There is a high chance for daily Tmax/HImax hybrid index to exceed the 80th percentile for at least 3 consecutive days over Cuba, Cayman Islands, Jamaica, Lucayan Archipelago and northern parts of Hispaniola. There is a moderate to high chance for daily Tmax/HImax hybrid index to exceed the 95th percentile for at least 3 consecutive days over Cuba, Cayman Islands and the Bahamas.

Week-1, Daily Tmax/HI Hybrid Index Exceedance Probability, with Respect to Fixed Thresholds

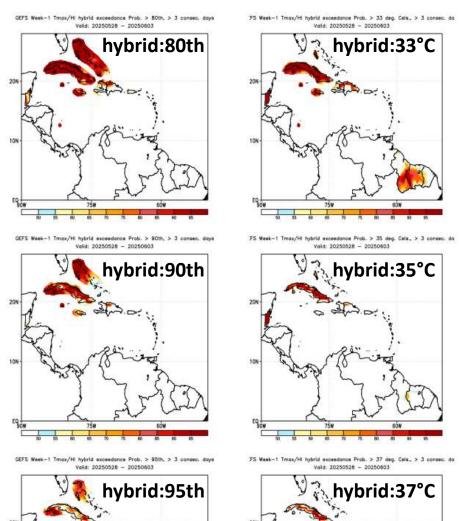


There is a high probability for daily Tmax/HImax hybrid index to exceed 33°C for at least 3 consecutive days over Cuba, Cayman Islands, Jamaica, the Bahamas, some parts of Hispaniola, southern Guyana and Suriname. There is also a moderate to high chance for daily Tmax/HImax hybrid index to exceed 37°C over Cuba.

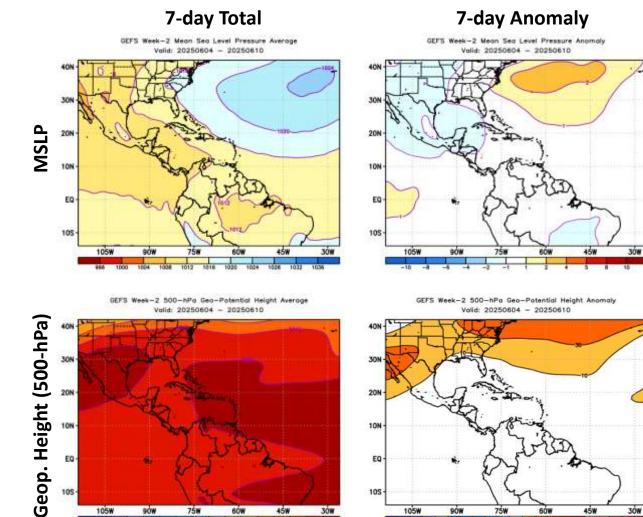
Week-1, Convergence of Evidences



- At 500-hPa, model forecasts indicate geopotential height anomalies in the region expected to be above-normal over most of the Caribbean for next week with an increase over northern lesser Antilles.
- Hybrid index exceedance probability forecasts indicate:
 - High chances for the hybrid index to exceed the 95th percentile over Cuba, Cayman Islands and the Bahamas.
 - High chances for the hybrid index to exceed 37°C over Cuba.



Week-2, Mean Sea Level Pressure & 500-hPa Height



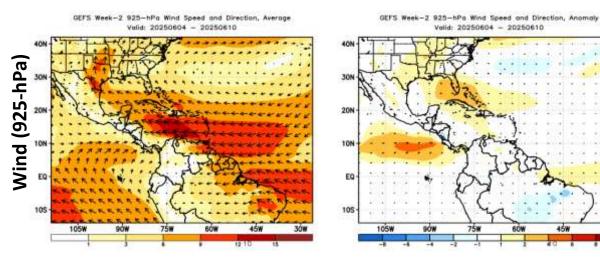
For week-2, mean sea level pressure is forecasted to be normal across much of the Caribbean.

At 500-hPa, geopotential height anomalies in the region expected to be normal for week 2.

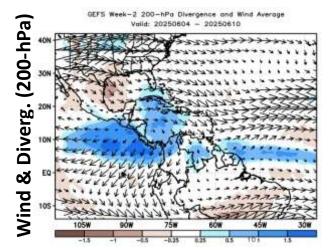
Week-2, 925-hPa and 200-hPa Wind

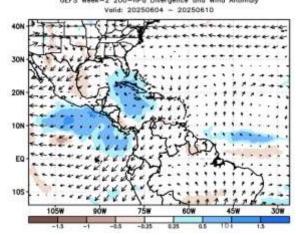


7-day Anomaly



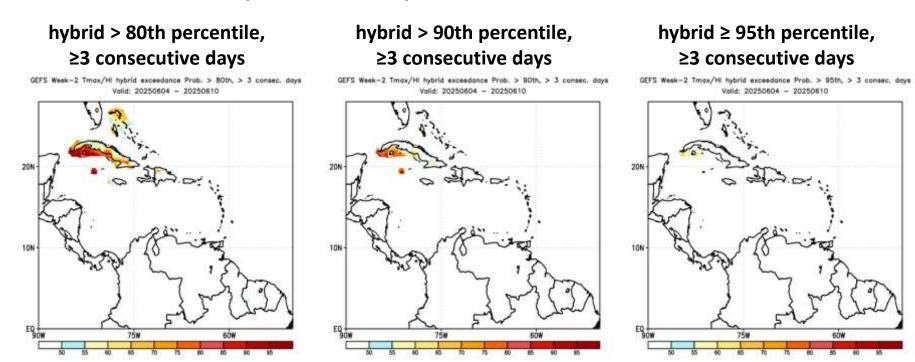
For week-2, low-level winds are expected to be above-average over Cuba, Lucayan Archipelago and normal across the rest of the Caribbean.





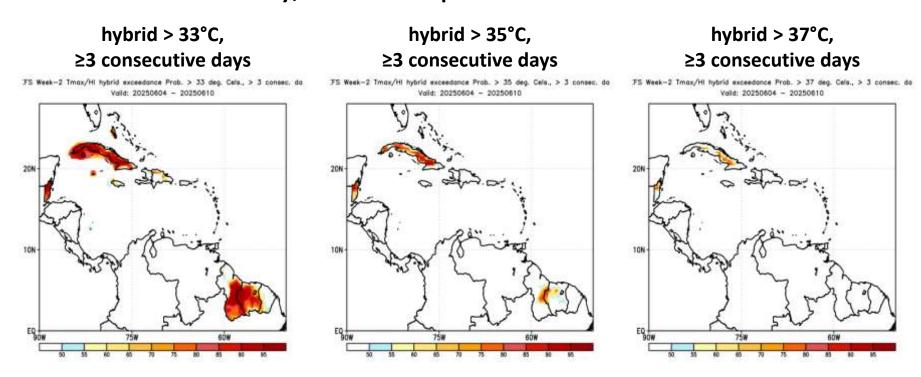
Upper-level convergence is expected over Cuba and the Bahamas.

Week-2, Daily Tmax/HI Hybrid Index Exceedance Probability, with Respect to Percentile Thresholds



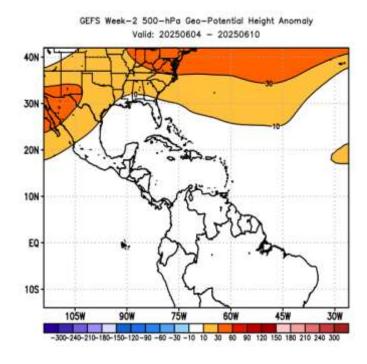
There is a moderate to high chance for daily Tmax/HImax hybrid index to exceed the 80th percentile for at least 3 consecutive days over Cuba, Cayman Islands and the Bahamas. There is a low chance for daily Tmax/HImax hybrid index to exceed the 95th percentile for at least 3 consecutive days over Cayman Islands.

Week-2, Daily Tmax/HI Hybrid Index Exceedance Probability, with Respect to Fixed Thresholds

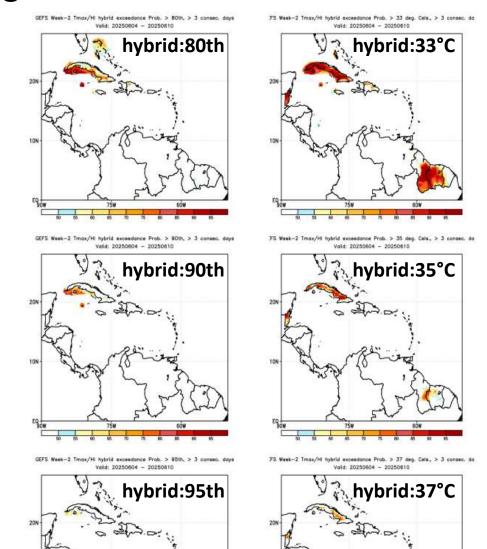


There is a high probability for daily Tmax/HImax hybrid index to exceed 33°C for at least 3 consecutive days over Cuba, Cayman Islands and the Bahamas. There is a low to moderate chance for daily Tmax/HImax hybrid index to exceed 37°C over some parts of Cuba.

Week-2, Convergence of Evidences



- At 500-hPa, model forecasts indicate geopotential height anomalies in the region expected to be normal for week 2.
- Hybrid index exceedance probability forecasts indicate:
 - Low chances for the hybrid index to exceed the 95th percentile over Cayman Islands.
 - Low to moderate chances for the hybrid index to exceed 37°C over some parts of Cuba.



Urban Heat Island Alerts for Caribbean

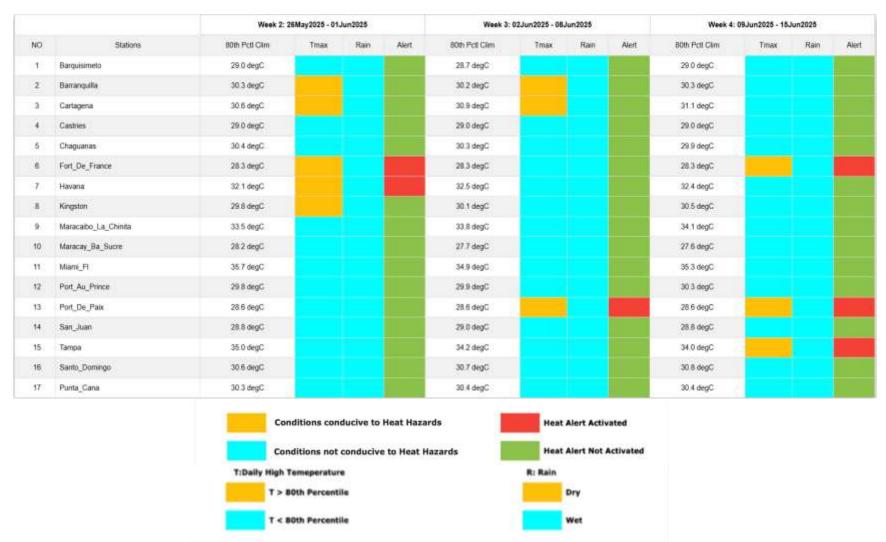


Urban Heat Island Forecasts Week-1



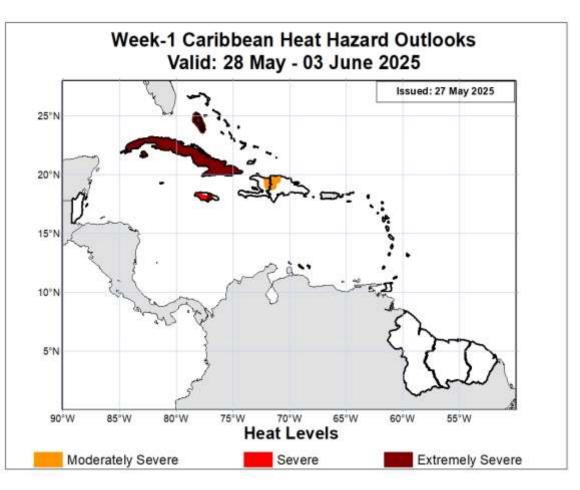
https://www.cpc.ncep.noaa.gov/products/international/UHI/Caribb_day_80.html

Urban Heat Island Forecasts Weeks-2, 3, & 4



https://www.cpc.ncep.noaa.gov/products/international/UHI/Caribb_week234_80.html

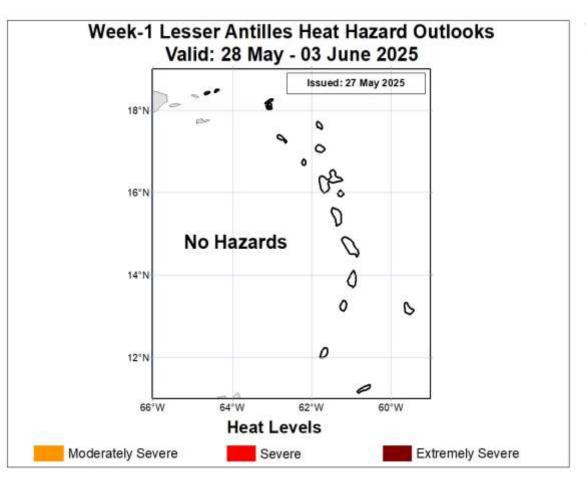
Week-1 Heat Hazards Outlook



- There is an increased chance for moderately severe heat over few parts of Hispaniola.
- There is an increased chance for severe heat exists over eastern Jamaica.
- Increased chances of extremely severe heat exist over Cuba, Cayman Islands, the Bahamas and some parts of Jamaica.

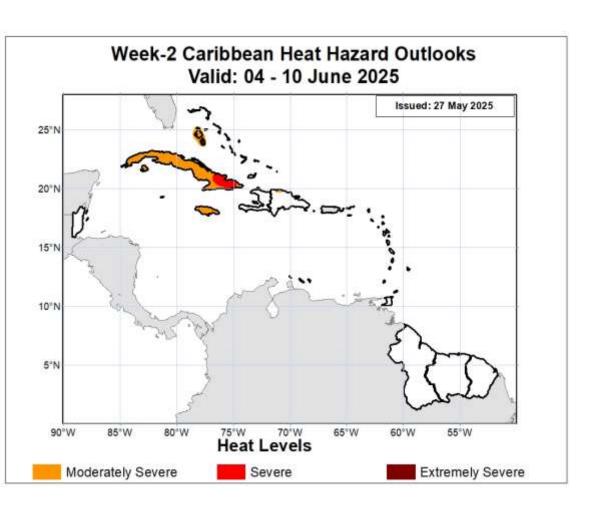
Hybrid index probability of exceedance forecasts also suggest high chances for persistent heat in the orange and red shaded areas.

Week-1 Lesser Antilles Heat Hazards Outlook



There are no hazards forecast for week 1.

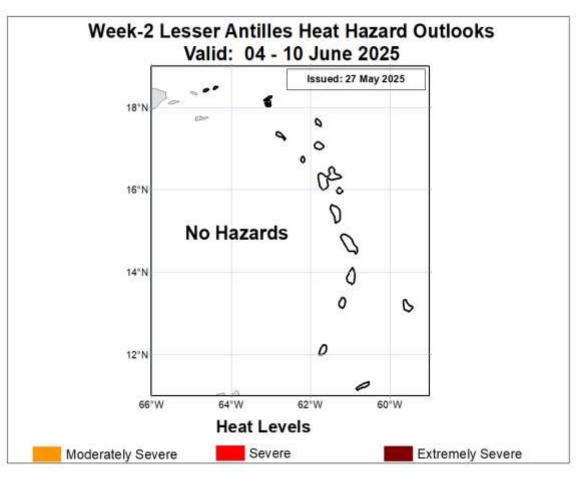
Week-2 Heat Hazards Outlook



- There is an increased chance for moderately severe heat over Cuba, Cayman Islands, the Bahamas and Jamaica.
- There is an increased chance for severe heat exists over northwest of Cuba.

Hybrid index probability of exceedance forecasts also suggest high chances for persistent heat in the orange and red shaded areas.

Week-2 Lesser Antilles Heat Hazards Outlook



There are no hazards forecast for week 2.

For More Information Please Visit

Forecasting Tools:

https://www.cpc.ncep.noaa.gov/products/international/endalk/climate health/heat-health forecasts alt.shtml

Urban Heat Island Alerts:

https://www.cpc.ncep.noaa.gov/products/international/UHI/UHI alert Caribbean.html