# **Heat Hazards Outlooks for the Caribbean**

Date of Issue: 2025-06-17

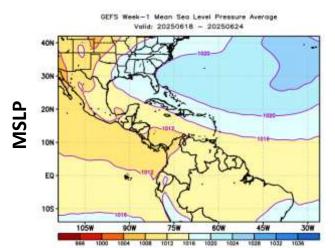
Week-1, Valid for: 18 - 24 June 2025

Week-2, Valid for: 25 - 01 July 2025

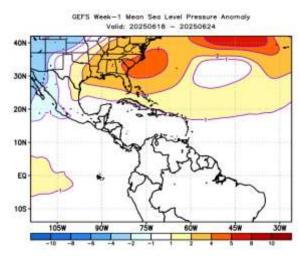


# Week-1, Mean Sea Level Pressure & 500-hPa Height

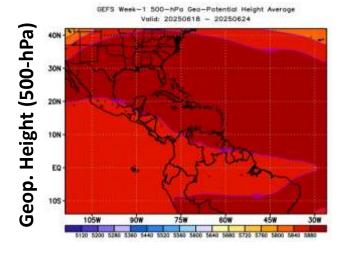


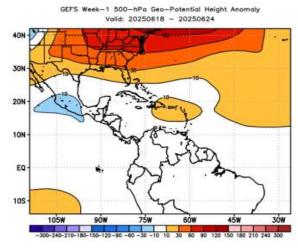


#### 7-day Anomaly



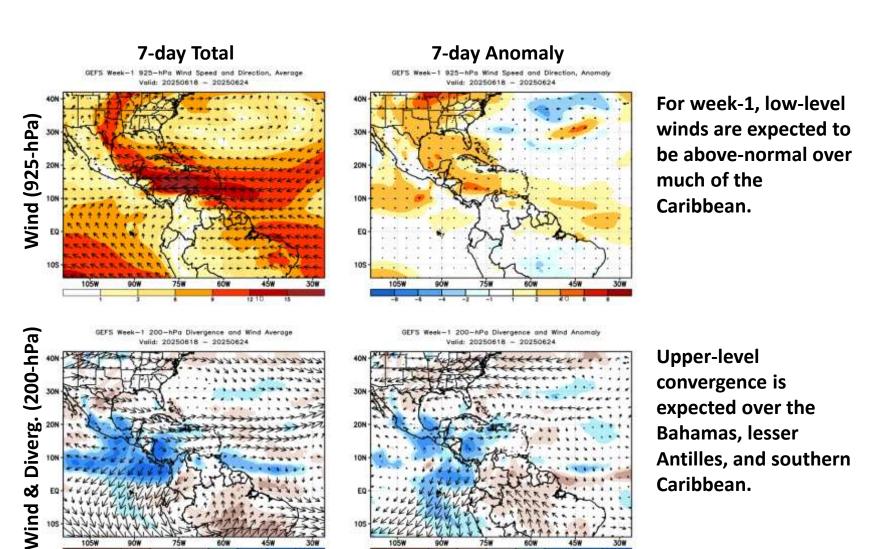
Next week, mean sea level pressure is forecasted to be slightly-above-average over Lucayan Archipelago, Cuba and northern lesser Antilles and near-normal over rest of the Caribbean.



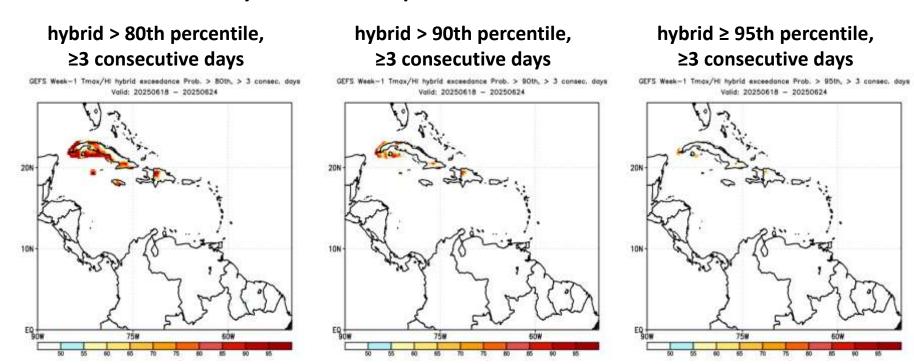


At 500-hPa, geopotential height anomalies in the region also expected to be above-normal over Hispaniola, Puerto Rico and northern lesser Antilles and near-normal over rest of the Caribbean.

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

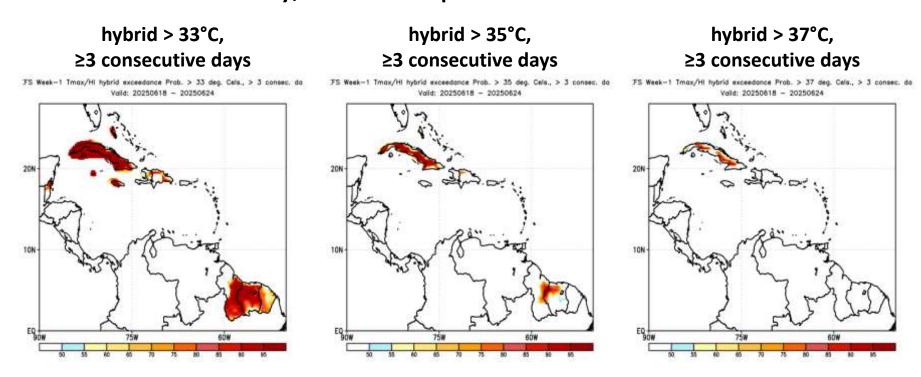


# Week-1, Daily Tmax/HI Hybrid Index Exceedance Probability, with Respect to Percentile Thresholds



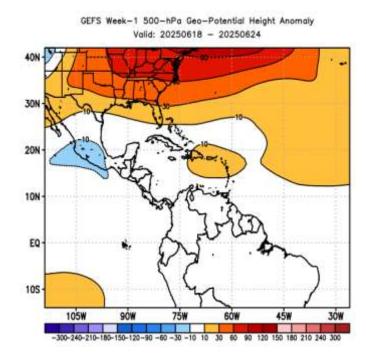
There is a high chance for daily Tmax/HImax hybrid index to exceed the 80th percentile for at least 3 consecutive days over Cuba, Cayman Islands, Jamaica and western Dominican Republic. There is no chance for daily Tmax/HImax hybrid index to exceed the 95th percentile for at least 3 consecutive days over the Caribbean.

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

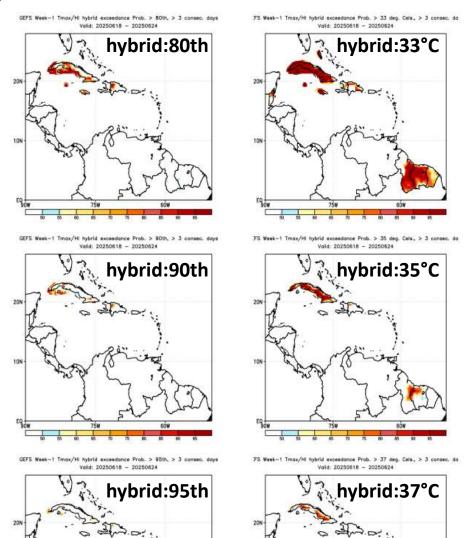


There is a high probability for daily Tmax/HImax hybrid index to exceed 33°C for at least 3 consecutive days over the Bahamas, Cuba, Cayman Islands, Jamaica and southern Caribbean. There is also a low to moderate chance for daily Tmax/HImax hybrid index to exceed 37°C over few parts of Cuba.

### Week-1, Convergence of Evidences



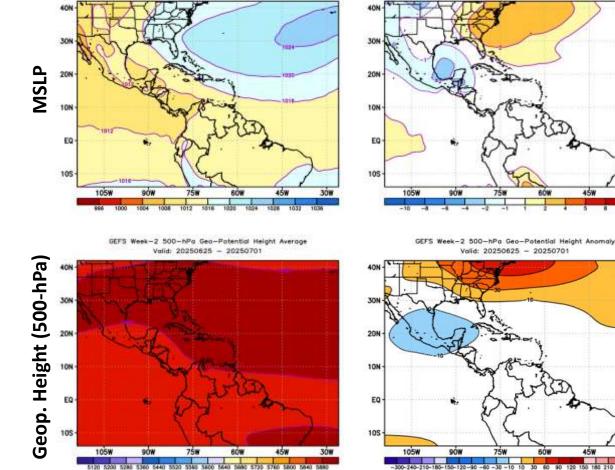
- At 500-hPa, model forecasts indicate geopotential height anomalies in the region expected to be above-normal over Hispaniola, Puerto Rico and northern lesser Antilles and near-normal over rest of the Caribbean for next week.
- Hybrid index exceedance probability forecasts indicate:
  - No chances for the hybrid index to exceed the 95th percentile over the Caribbean.
  - Low to moderate chances for the hybrid index to exceed 37°C over few parts of Cuba.



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

7-day Anomaly

GEFS Week-2 Mean Sea Level Pressure Anomaly



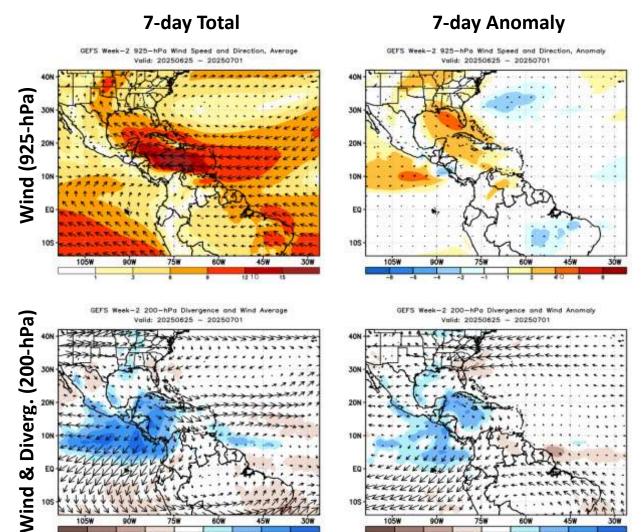
7-day Total

GEFS Week-2 Mean Sea Level Pressure Average

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

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

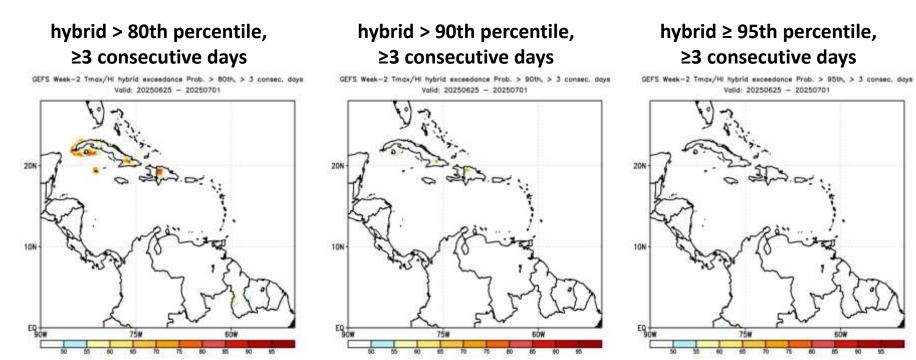
# Week-2, 925-hPa and 200-hPa Wind



For week-2, low-level winds are expected to be normal over much of the Caribbean, while low-level winds are expected to be above-normal over the Lucayan Archipelago, Cuba, Cayman Islands and Jamaica.

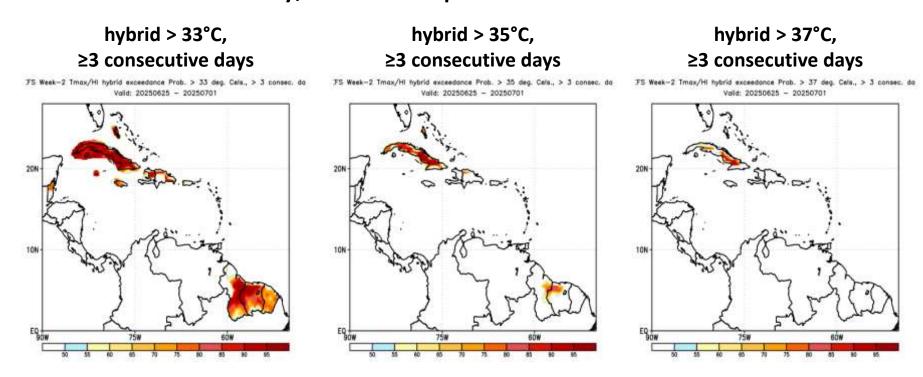
There is no upperlevel convergence is expected over the Caribbean.

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



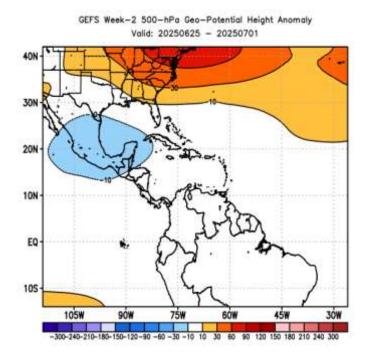
There is a low chance for daily Tmax/HImax hybrid index to exceed the 80th percentile for at least 3 consecutive days over few parts of Cuba and Dominican Republic. There is a no chance for daily Tmax/HImax hybrid index to exceed the 95th percentile for at least 3 consecutive days over the Caribbean.

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

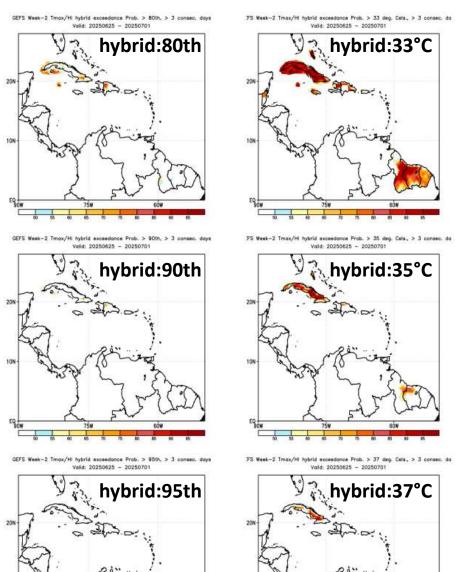


There is a high probability for daily Tmax/HImax hybrid index to exceed 33°C for at least 3 consecutive days over Cuba, Cayman Islands, the Bahamas, Jamaica, parts of Hispaniola and southern Caribbean. There is a low to moderate chance for daily Tmax/HImax hybrid index to exceed 37°C over few parts of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

### Week-2, Convergence of Evidences



- At 500-hPa, model forecasts indicate geopotential height anomalies in the region expected to be normal over Caribbean for week 2.
- Hybrid index exceedance probability forecasts indicate:
  - No chances for the hybrid index to exceed the 95th percentile over the Caribbean.
  - Low to moderate chances for the hybrid index to exceed 37°C over few parts of Caribbean.



### Urban Heat Island Alerts for Caribbean

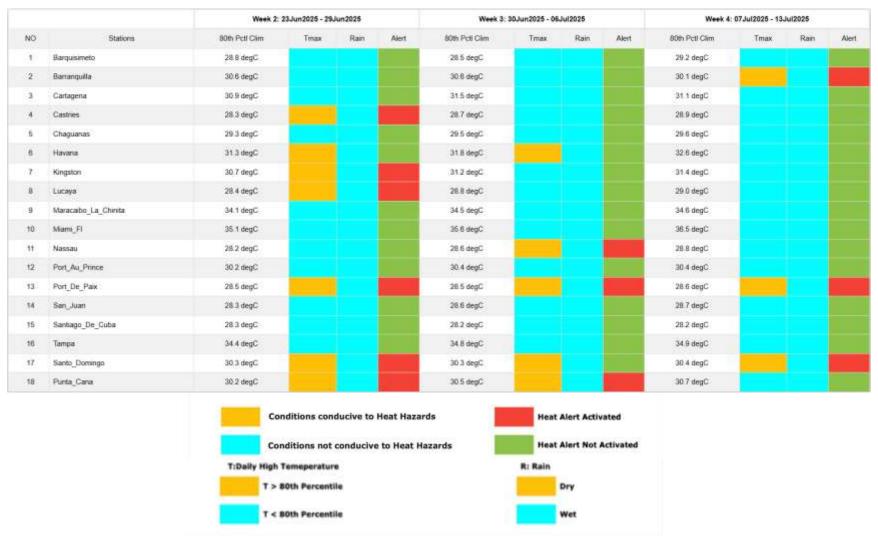


#### Urban Heat Island Forecasts Week-1



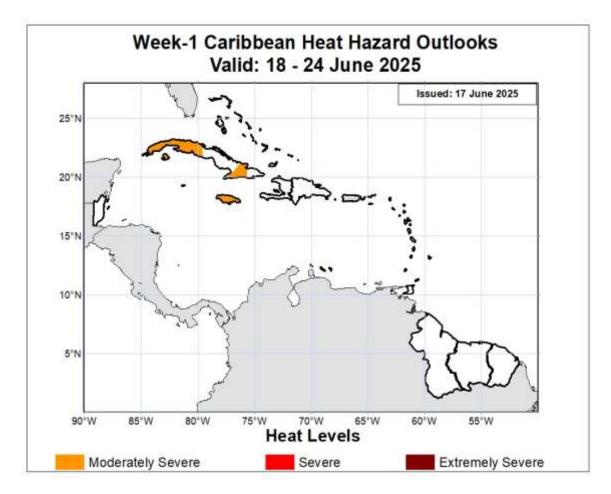
https://www.cpc.ncep.noaa.gov/products/international/UHI/Caribb\_day\_80.html

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



https://www.cpc.ncep.noaa.gov/products/international/UHI/Caribb\_week234\_80.html

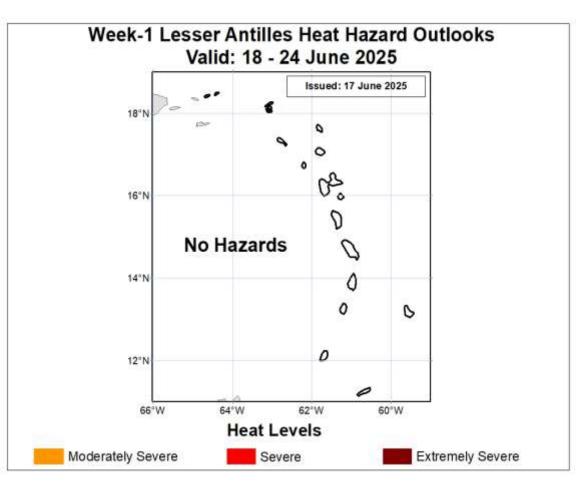
#### Week-1 Heat Hazards Outlook



There is an increased chance for moderately severe heat over few parts of Cuba and Jamaica.

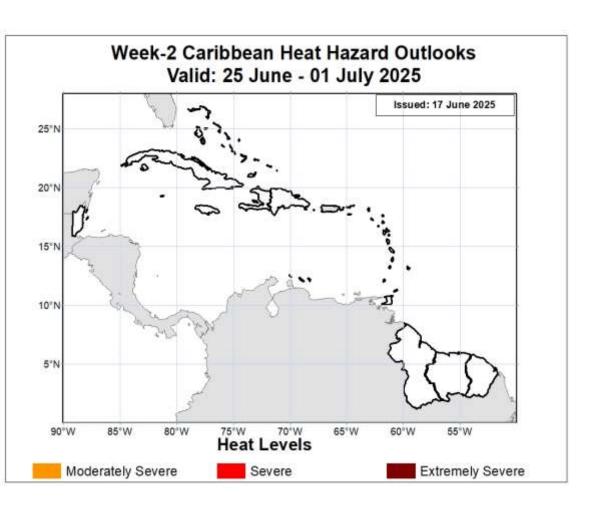
Hybrid index probability of exceedance forecasts also suggest high chances for persistent heat in the orange and red shaded areas.

#### Week-1 Lesser Antilles Heat Hazards Outlook



There are no hazards forecast for week 1.

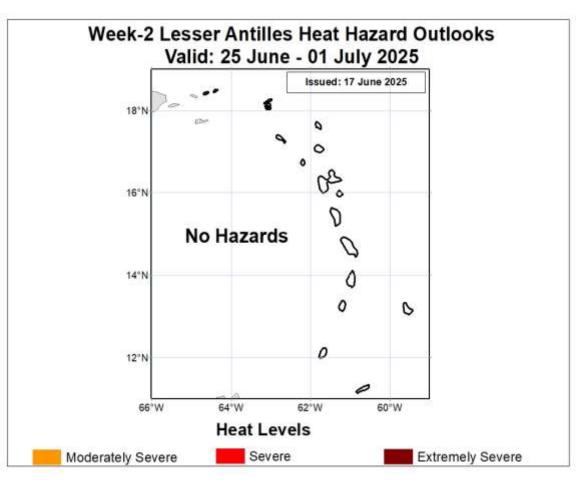
#### Week-2 Heat Hazards Outlook



 There are no hazards forecast for week 2.

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