## **Heat Hazards Outlooks for the Caribbean**

Date of Issue: 2025-06-03

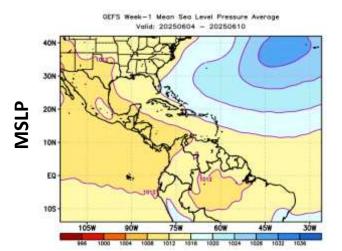
Week-1, Valid for: 04 - 10 June 2025

Week-2, Valid for: 11 - 17 June 2025

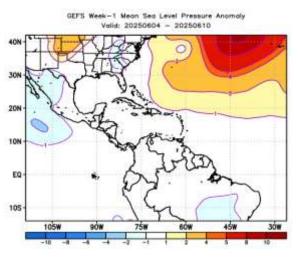


### Week-1, Mean Sea Level Pressure & 500-hPa Height

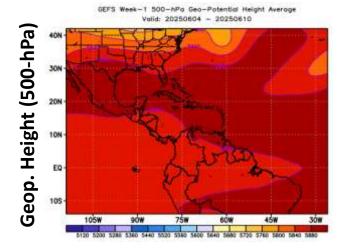


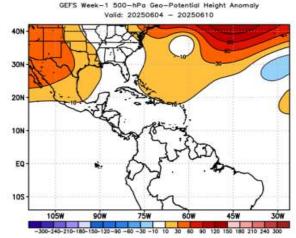


#### 7-day Anomaly



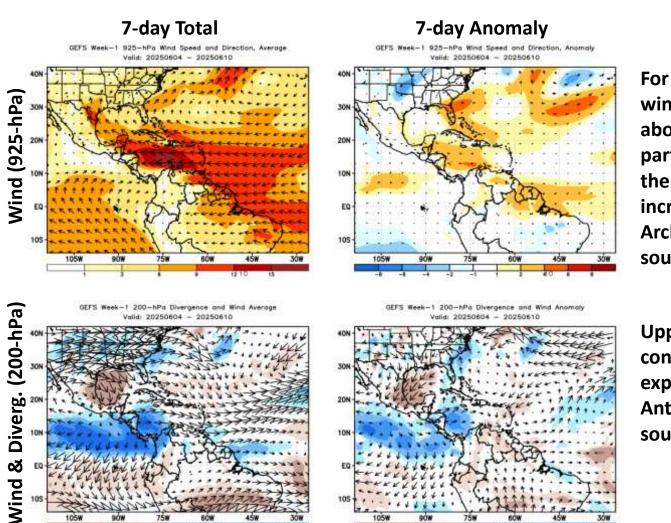
Next week, mean sea level pressure is forecasted to be normal across the Caribbean.





At 500-hPa, geopotential height anomalies in the region also expected to be above-normal over Lucayan Archipelago and parts of Hispaniola, while near normal across the rest of the Caribbean for next week.

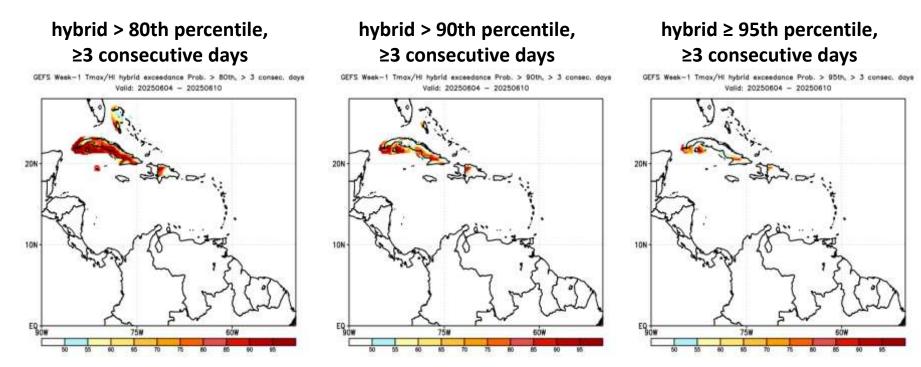
### Week-1, 925-hPa and 200-hPa Wind



For week-1, low-level winds are expected to be above-normal over Cuba, parts of Hispaniola, and the Lesser Antilles, with an increase over the Lucayan Archipelago and the southern Caribbean.

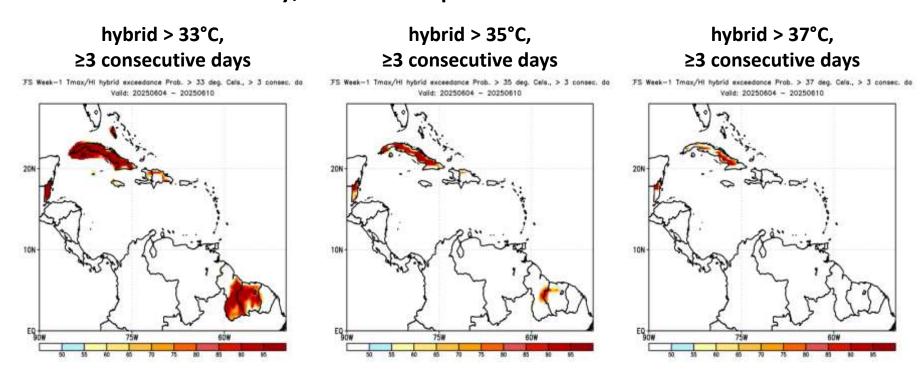
Upper-level convergence is expected over Lesser Antilles and the southern Caribbean.

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



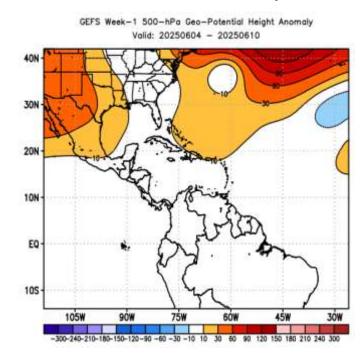
There is a high chance for daily Tmax/HImax hybrid index to exceed the 80th percentile for at least 3 consecutive days over Cuba, Cayman Islands and parts of Dominican Republic. There is a low to moderate chance for daily Tmax/HImax hybrid index to exceed the 95th percentile for at least 3 consecutive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

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

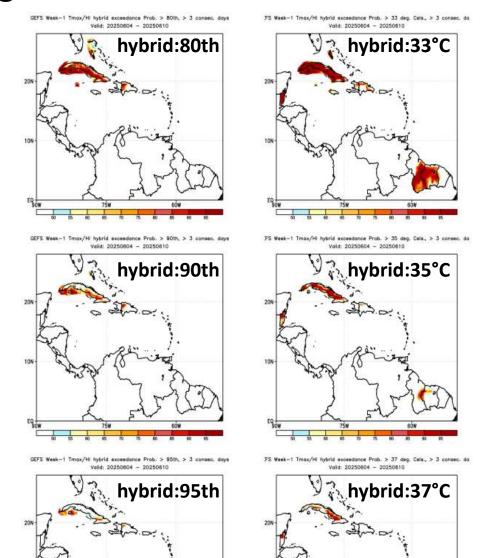


There is a high probability for daily Tmax/HImax hybrid index to exceed 33°C for at least 3 consecutive days over Cuba, the Bahamas, some parts of Hispaniola, southern Guyana and Suriname. There is also a moderate to high chance for daily Tmax/HImax hybrid index to exceed 37°C over most parts of Cuba.

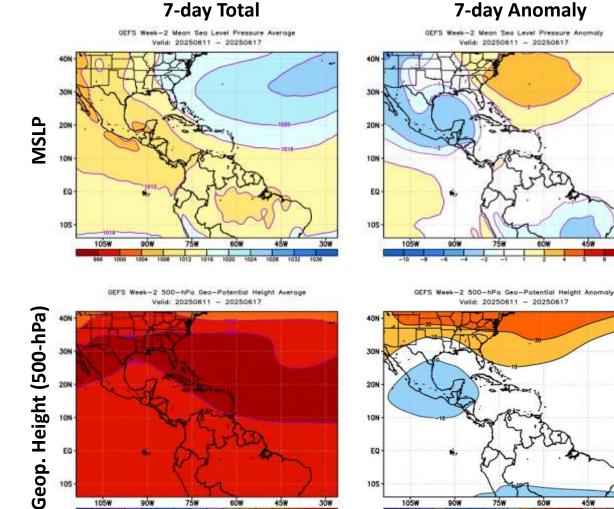
### Week-1, Convergence of Evidences



- At 500-hPa, model forecasts indicate geopotential height anomalies in the region expected to be above-normal over Lucayan Archipelago and parts of Hispaniola, while near normal across the rest of the Caribbean for next week
- Hybrid index exceedance probability forecasts indicate:
  - Low to moderate chances for the hybrid index to exceed the 95th percentile over parts of Cuba and Cayman Islands.
  - Moderate to high chances for the hybrid index to exceed 37°C over most parts of Cuba.



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



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

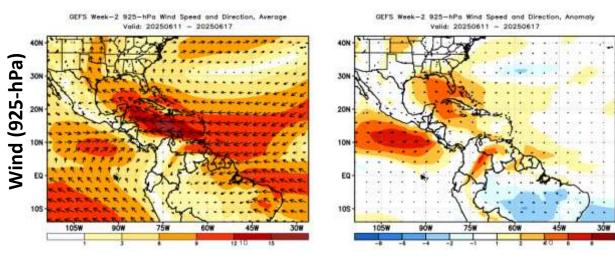
At 500-hPa, geopotential height anomalies in the region expected to be normal over the Caribbean for week 2.

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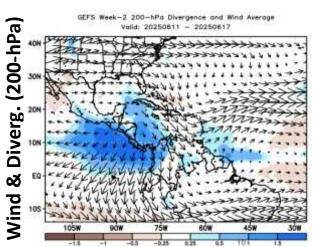
## Week-2, 925-hPa and 200-hPa Wind

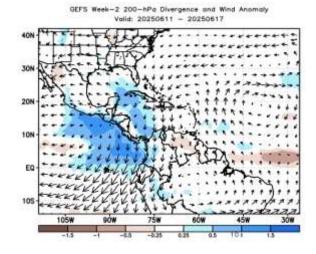


#### 7-day Anomaly



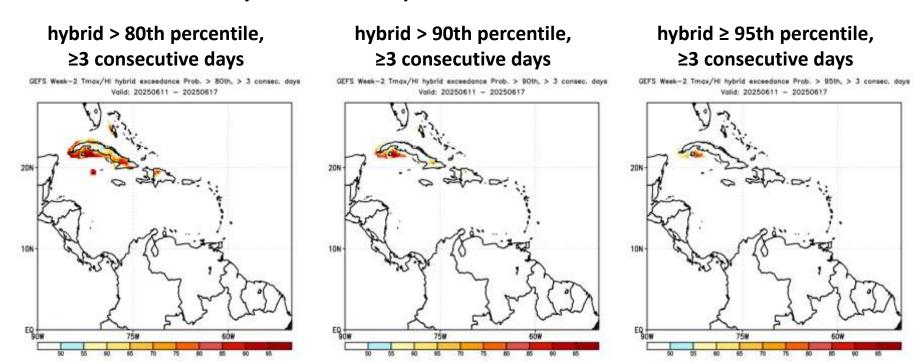
For week-2, low-level winds are expected to be above-normal over most of the Caribbean with an increase over Cuba, Cayman Islands and Lucayan Archipelago.





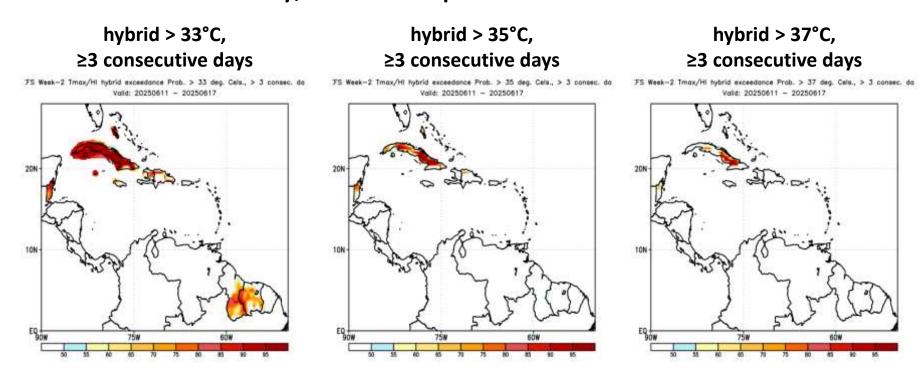
Upper-level convergence is expected over western Cuba.

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



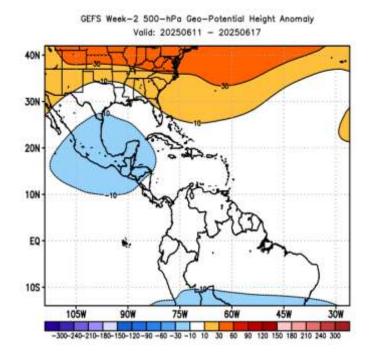
There is a moderate to high chance for daily Tmax/HImax hybrid index to exceed the 80th percentile for at least 3 consecutive days over Cuba, Cayman Islands and the Bahamas. There is a low chance for daily Tmax/HImax hybrid index to exceed the 95th percentile for at least 3 consecutive days over Cayman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

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

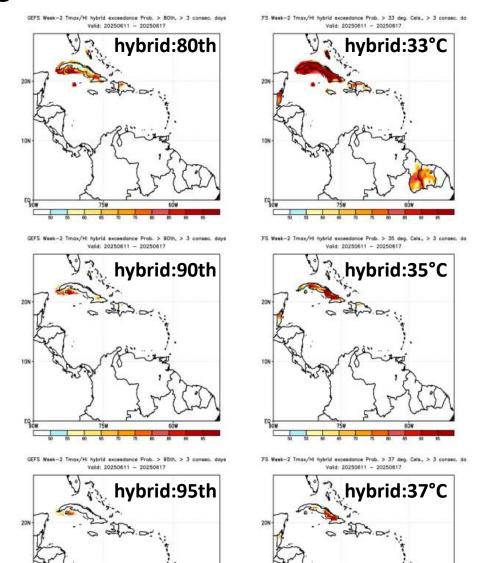


There is a moderate to high probability for daily Tmax/Hlmax hybrid index to exceed 33°C for at least 3 consecutive days over Cuba, Cayman Islands, Jamaica, the Bahamas, some parts of Hispaniola, southern Guyana and Suriname. There is a moderate to high chance for daily Tmax/Hlmax hybrid index to exceed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

## Week-2, Convergence of Evidences



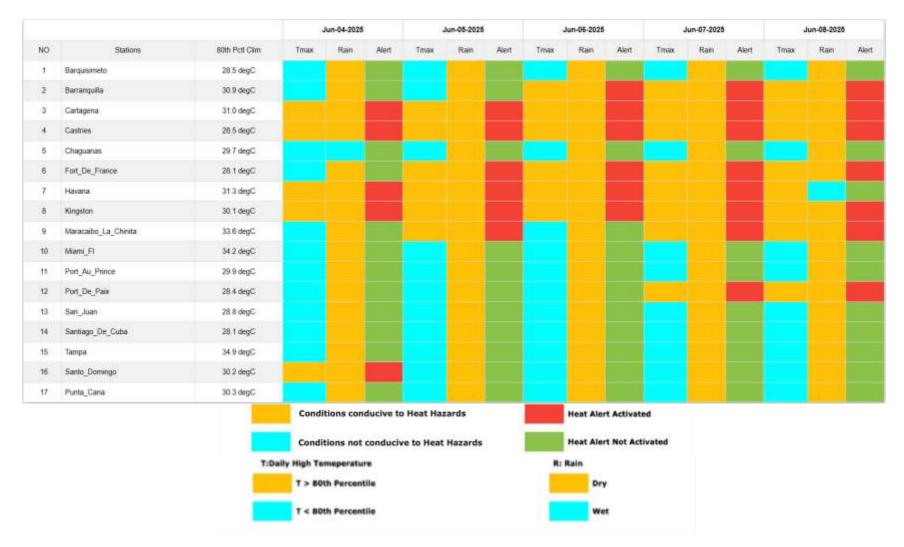
- At 500-hPa, model forecasts indicate geopotential height anomalies in the region expected to be normal over the Caribbean for week 2.
- Hybrid index exceedance probability forecasts indicate:
  - Low chances for the hybrid index to exceed the 95th percentile over Cayman Islands.
  - Moderate to high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



#### Urban Heat Island Alerts for Caribbean



#### Urban Heat Island Forecasts Week-1



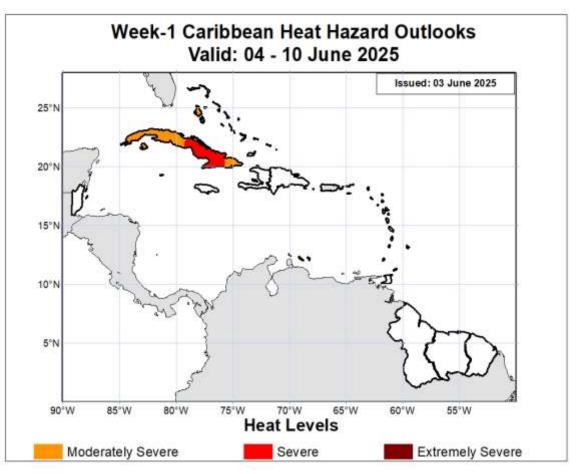
https://www.cpc.ncep.noaa.gov/products/international/UHI/Caribb\_day\_80.html

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



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

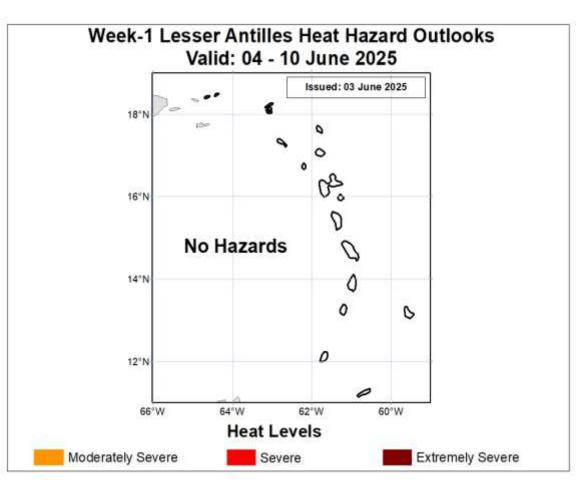
#### Week-1 Heat Hazards Outlook



- There is an increased chance for moderately severe heat over western parts of Cuba, Cayman Islands, and the Bahamas.
- There is an increased chance for severe heat exists over central and eastern parts of Cuba.

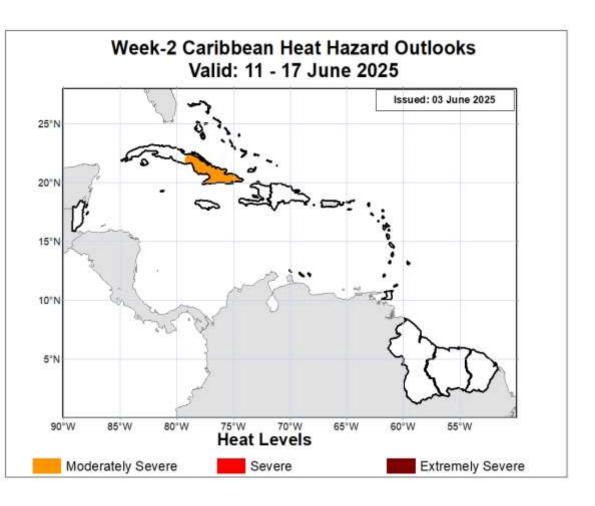
Hybrid index probability of exceedance forecasts also suggest high chances for persistent heat in the orange and red shaded areas.

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



There are no hazards forecast for week 1.

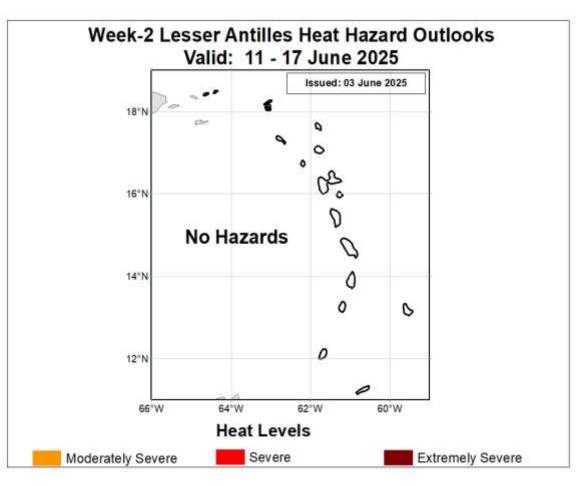
#### Week-2 Heat Hazards Outlook



 There is an increased chance for moderately severe heat over eastern 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