Heat Hazards Outlooks for the Caribbean

Date of Issue: 2025-06-10

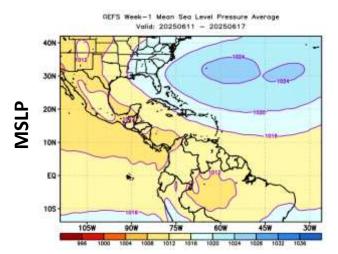
Week-1, Valid for: 11 - 17 June 2025

Week-2, Valid for: 18 - 24 June 2025

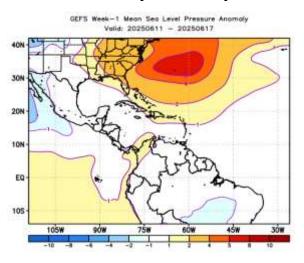


Week-1, Mean Sea Level Pressure & 500-hPa Height

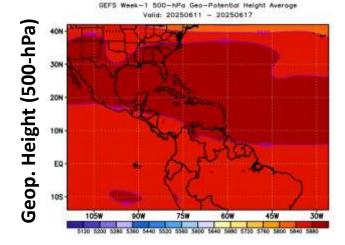


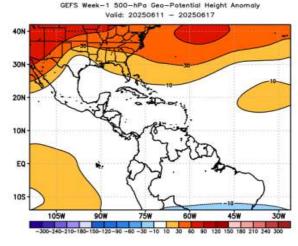


7-day Anomaly



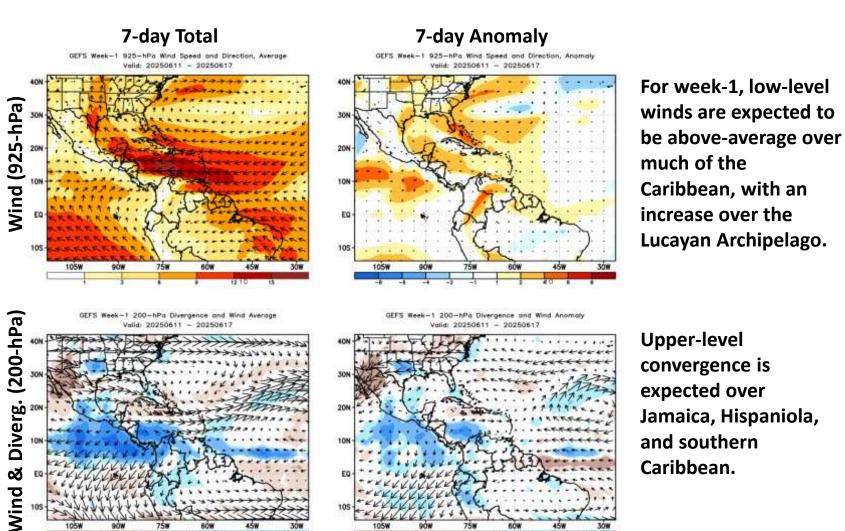
Next week, mean sea level pressure is forecasted to be slightlyabove-average over the Bahamas, southern Cuba, Hispaniola and northern lesser Antilles.





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

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



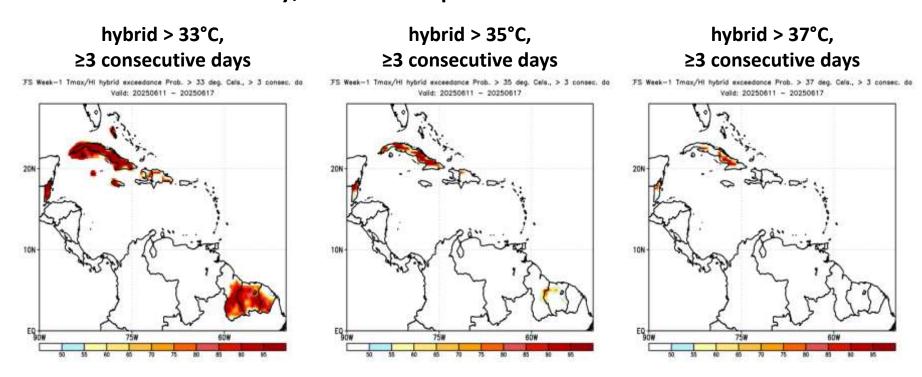
and southern Caribbean.

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



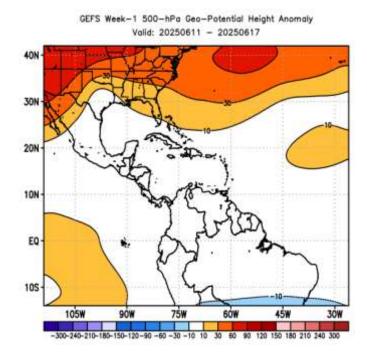
There is a low to moderate chance for daily Tmax/HImax hybrid index to exceed the 80th percentile for at least 3 consecutive days over the Bahamas, few parts of Cuba, Cayman Islands and western Dominican Republic. There is a low chance for daily Tmax/HImax hybrid index to exceed the 95th percentile for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

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

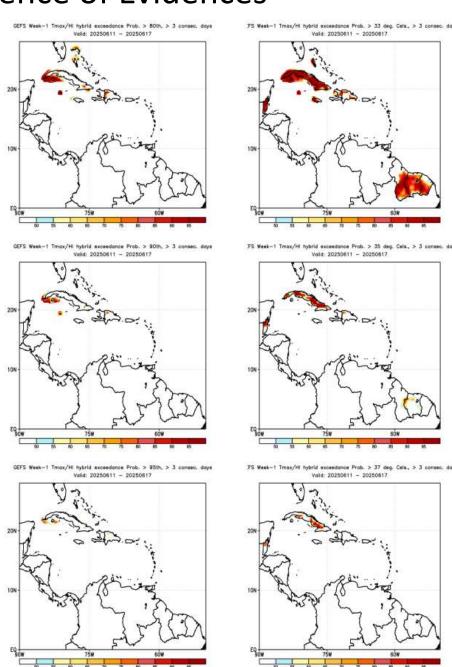


There is a high probability for daily Tmax/HImax hybrid index to exceed 33°C for at least 3 consecutive days over the Bahamas, Cuba, Cayman Islands and southern Caribbean. There is also a moderate to high chance for daily Tmax/HImax hybrid index to exceed 37°C over few parts of Cuba.

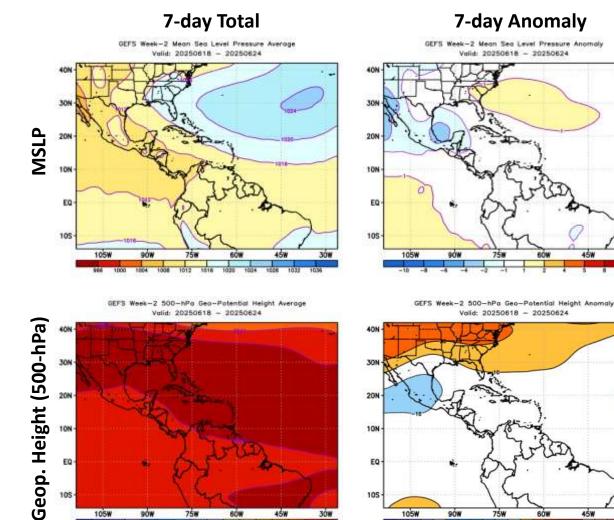
Week-1, Convergence of Evidences



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



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



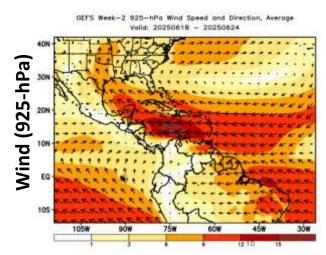
For week-2, mean sea level pressure is forecasted to be normal over the Caribbean.

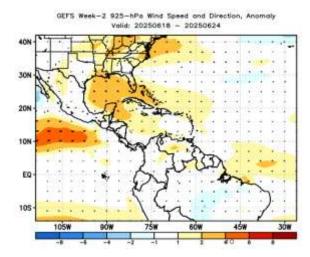
At 500-hPa, geopotential height anomalies in the region expected to be normal over the Caribbean for week 2.

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

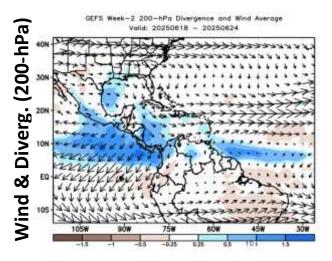


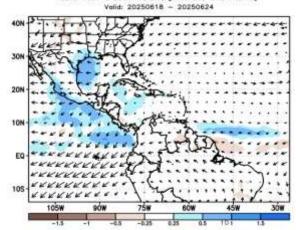
7-day Anomaly





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.

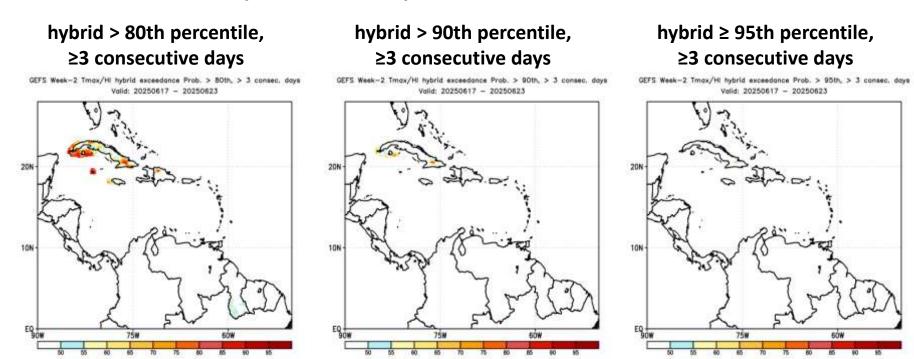




GEFS Week-2 200-hPa Divergence and Wind Anomaly

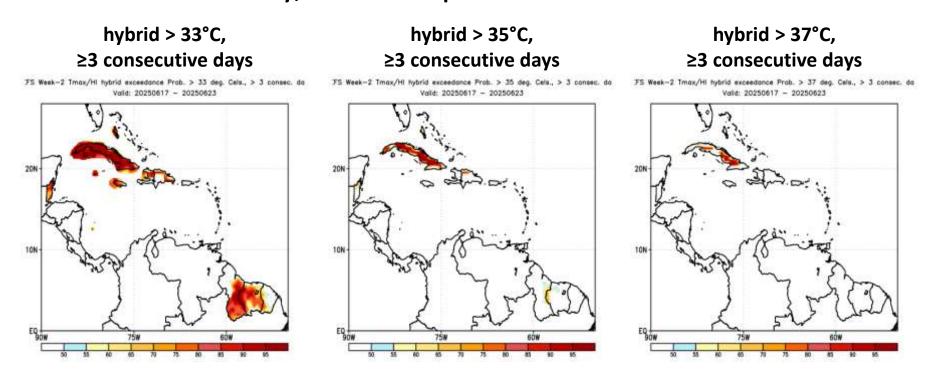
There is no upperlevel convergence is expected over the Caribbean.

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



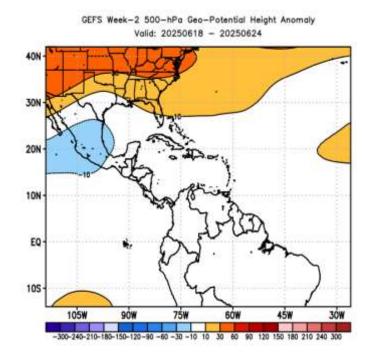
There is a low to moderate to high chance for daily Tmax/HImax hybrid index to exceed the 80th percentile for at least 3 consecutive days over few parts of Cuba and Cayman Islands. There is no chance for daily Tmax/HImax hybrid index to exceed the 95th percentile for at least 3 consecutive days over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

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

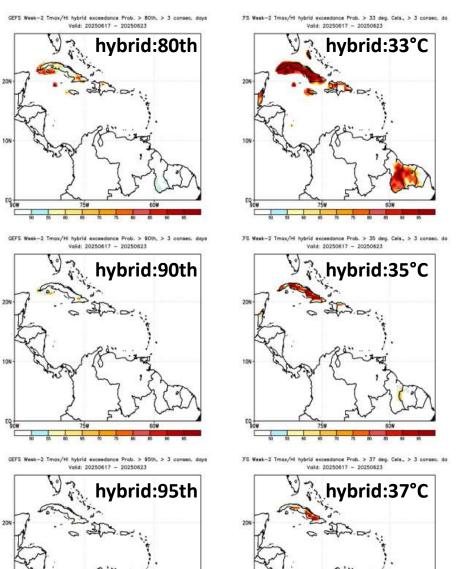


There is a high probability for daily Tmax/HImax hybrid index to exceed 33°C for at least 3 consecutive days over Cuba, Cayman Islands, the Bahamas, parts of Hispaniola and southern Caribbean. There is a low to moderate chance for daily Tmax/HImax hybrid index to exceed 37°C over few parts of Caribbean.

Week-2, Convergence of Evidences



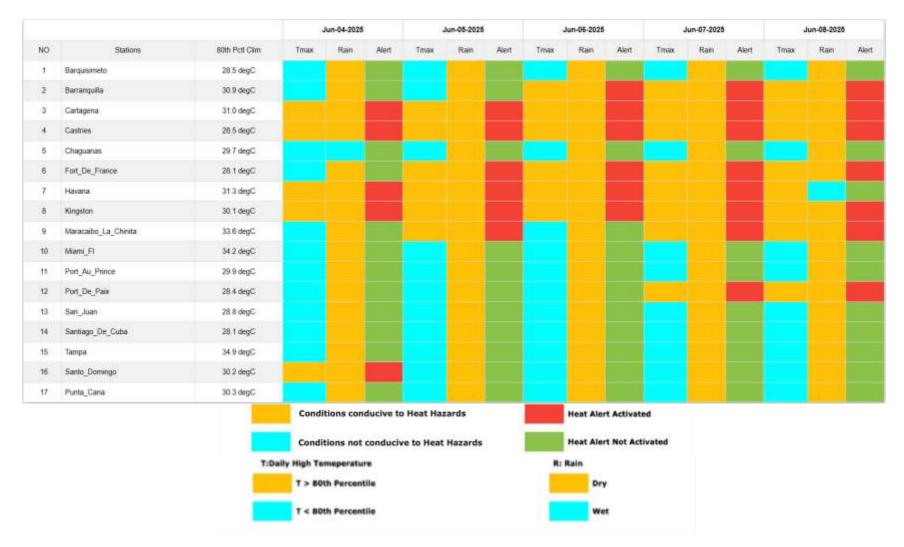
- At 500-hPa, model forecasts indicate geopotential height anomalies in the region expected to be normal over the Caribbean for week 2.
- Hybrid index exceedance probability forecasts indicate:
 - No chances for the hybrid index to exceed the 95th percentile over the Caribbean.
 - Low to moderate chances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



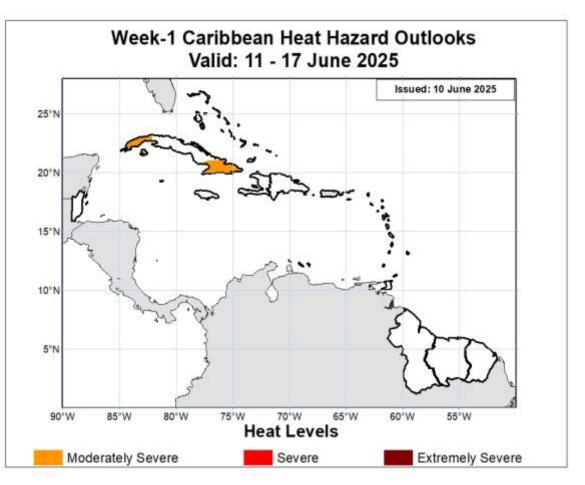
https://www.cpc.ncep.noaa.gov/products/international/UHI/Caribb_day_80.html

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



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

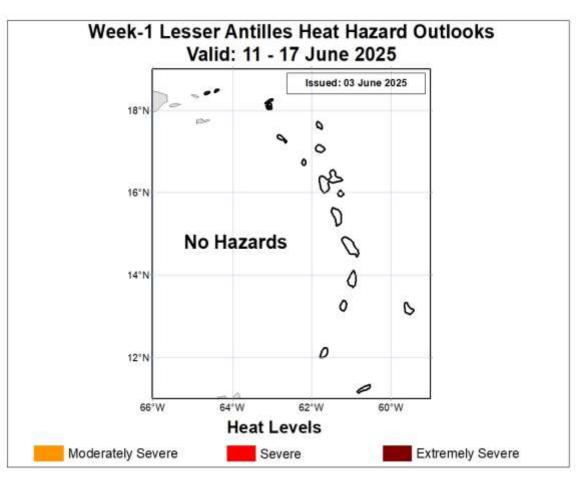
Week-1 Heat Hazards Outlook



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

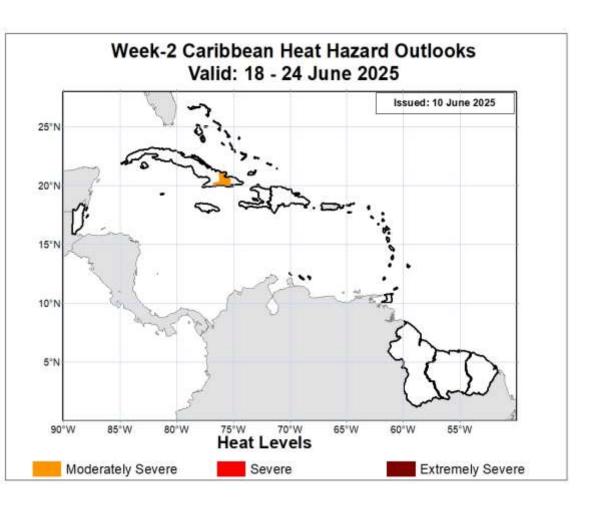
Hybrid index probability of exceedance forecasts also suggest high chances for persistent heat in the orange and red shaded areas.

Week-1 Lesser Antilles Heat Hazards Outlook



There are no hazards forecast for week 1.

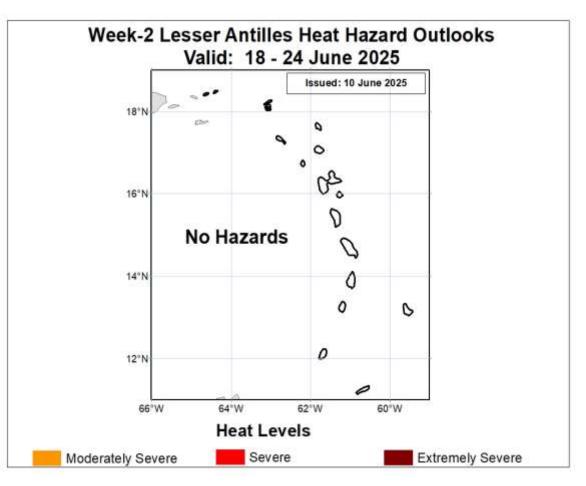
Week-2 Heat Hazards Outlook



 There is an increased chance for moderately severe heat over southern 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