Heat Hazards Outlooks for Suriname

Date of Issue: 2025-01-28

Week-1, Valid for: 29 January - 04 February 2025

Week-2, Valid for: 05 - 11 February 2025

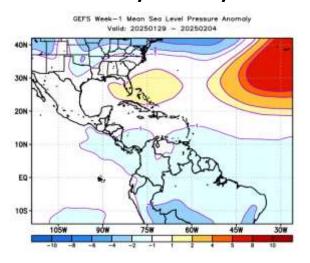


Week-1, Mean Sea Level Pressure & 500-hPa Height

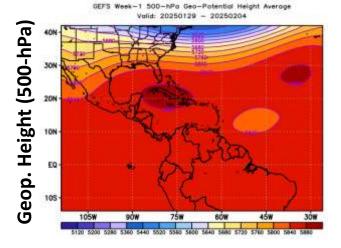


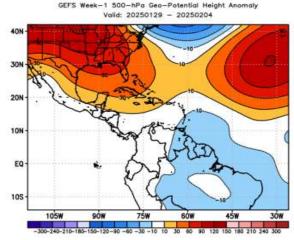
GEFS Week-1 Mean Sea Level Pressure Average Valid: 20250129 - 20250204 40N 30N 10N EQ 10SW 90W 75W 60W 45W 30W 10SW 1000 5664 1000 1012 5516 1036 1024 5628 1033 1036

7-day Anomaly



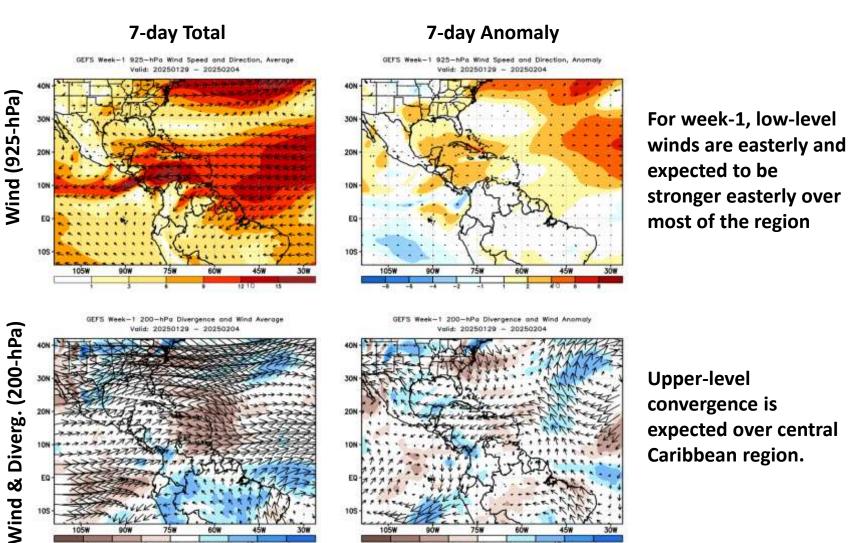
Next week, mean sea level pressure is forecasted to be slightlyabove-average across northern Caribbean and to be slightly-belowaverage northern South America.





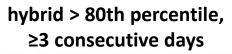
At 500-hPa, geopotential height anomalies forecasted to be slightly-above-average across northern Caribbean and to be slightly-below-average northern South America for next week.

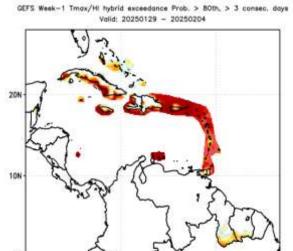
Week-1, 925-hPa and 200-hPa Wind



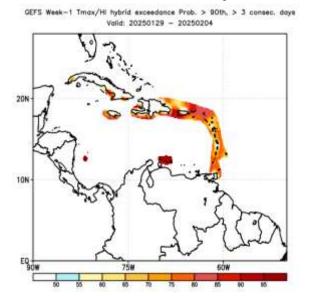
expected over central Caribbean region.

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

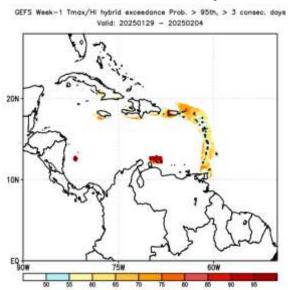




hybrid > 90th percentile, ≥3 consecutive days

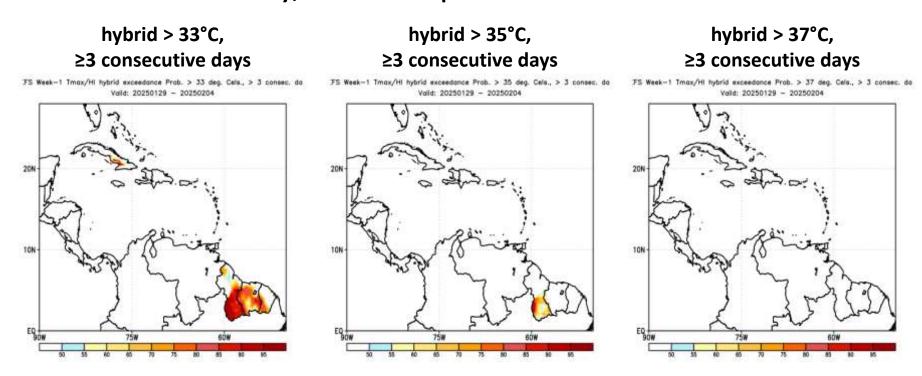


hybrid ≥ 95th percentile, ≥3 consecutive days



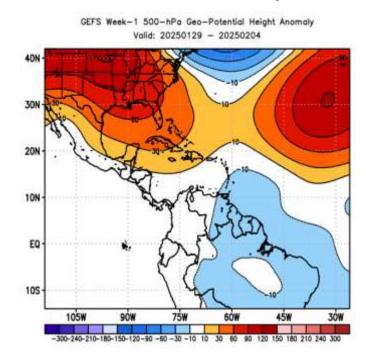
There is a high chance that the daily Tmax/HImax hybrid index will exceed the 80th percentile for at least three consecutive days over southern Cuba, southern Jamaica, the Cayman Islands, Puerto Rico, the US Virgin Islands, the Lesser Antilles, Trinidad and Tobago, the ABC Islands, southern Guyana, and southern Suriname. There is also a moderate to high chance that the daily Tmax/HImax hybrid index will exceed the 95th percentile for at least three consecutive days over the ABC Islands, eastern Puerto Rico, and the Lesser Antilles.

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

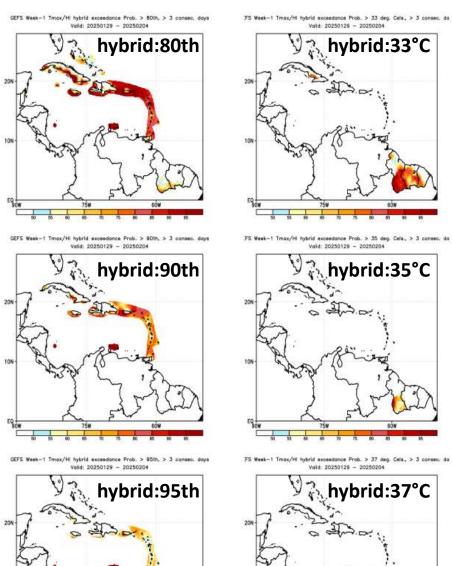


There is a high probability for daily Tmax/HImax hybrid index to exceed 33°C for at least 3 consecutive days over central and southern Guyana, central Suriname and southeastern French Guinea. There is also a moderate to high chance for daily Tmax/HImax hybrid index to exceed 35°C over southern Guyana.

Week-1, Convergence of Evidences



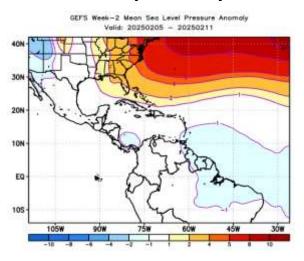
- At 500 hPa, model forecasts indicate that geopotential height anomalies will be slightly above average across the northern Caribbean and slightly below average over northern South America for the next week.
- Hybrid index exceedance probability forecasts indicate: High chances for the hybrid index to exceed the 80th percentile and for the hybrid index to exceed 33°C over southern Guyana and southern Suriname.
- Therefore, a heat hazard warning for excessive heat will be issued for these regions.



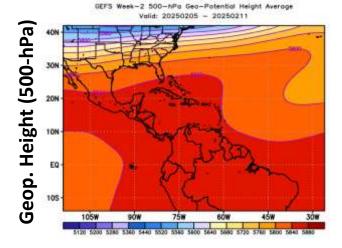
Week-2, Mean Sea Level Pressure & 500-hPa Height

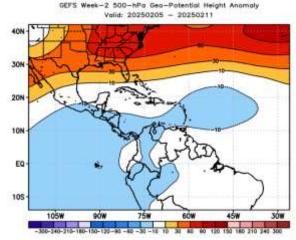


7-day Anomaly



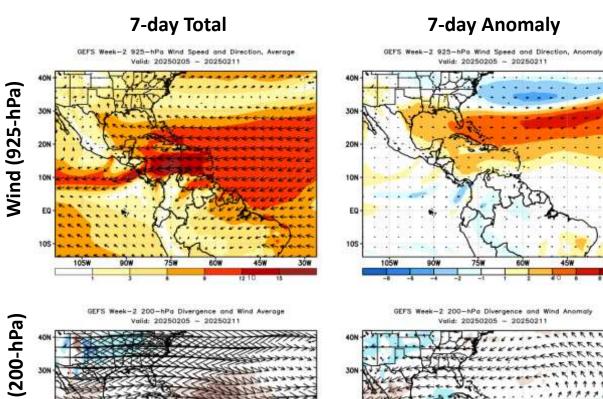
For week-2, mean sea level pressure is forecasted to be slightlyabove-average over Bahamas and slightlybelow-average across northern South America.



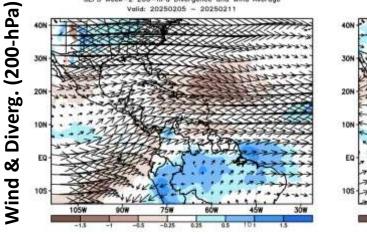


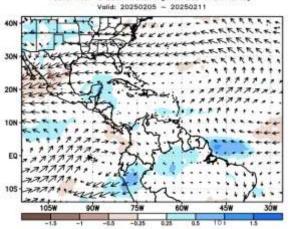
At 500-hPa, geopotential height anomalies to be slightly-above-average over Bahamas and slightly-below-average across northern South America for next week.

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



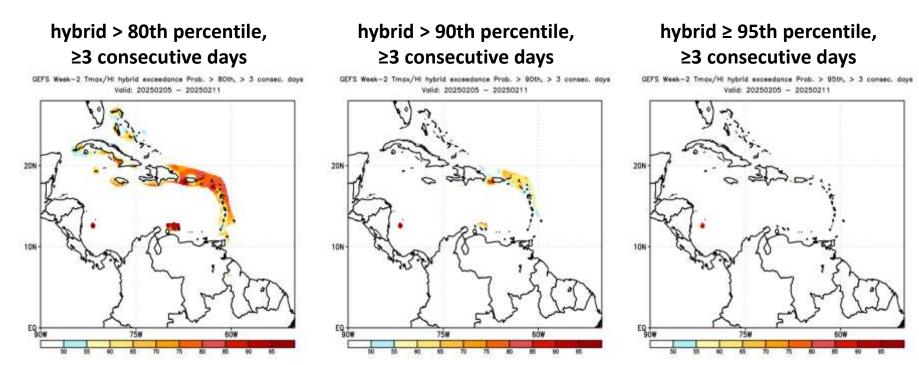
For week-2, low-level winds are expected to be easterly and above-average over central Caribbean region and easterly and near average over northern South America





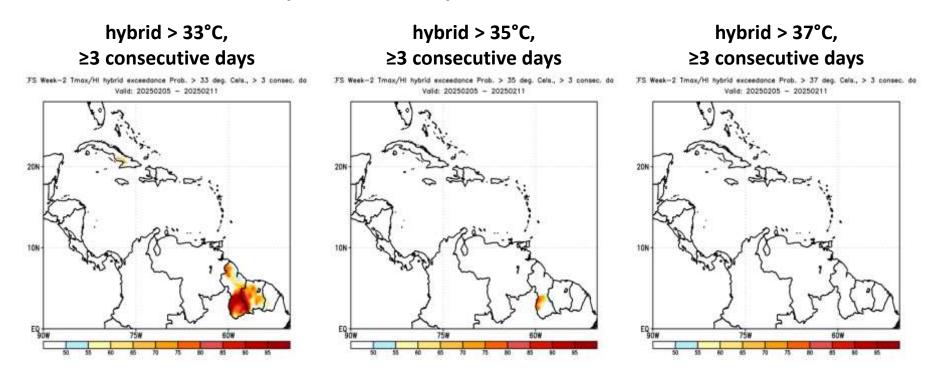
Upper-level convergence is expected over much of the central Caribbean region.

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



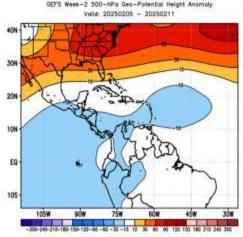
There is a high chance for daily Tmax/HImax hybrid index to exceed the 80th percentile for at least 3 consecutive days over Puerto Rico, Us Virgin Islands, ABC Island and Lesser Antilles. There is also a moderate to high chance for daily Tmax/HImax hybrid index to exceed the 90th percentile for at least 3 consecutive days over northern Lesser Antiles.

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



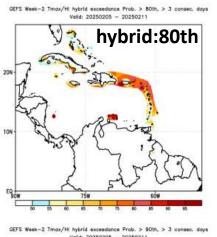
There is a high probability that the daily Tmax/HImax hybrid index will exceed 33°C for at least three consecutive days over northern and southern Guyana and central Suriname. There is also a moderate to high chance that the daily Tmax/HImax hybrid index will exceed 35°C over central-western Guyana.

Week-2, Convergence of Evidences

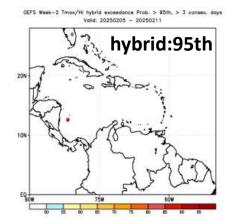


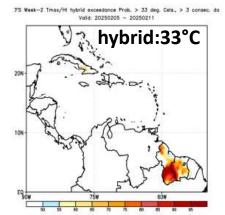
- At 500 hPa, model forecasts indicate slightly above average conditions over the Bahamas and slightly below average conditions across northern South America.
- Hybrid index exceedance probability forecasts indicate:
- High chances for the hybrid index to exceed the 80th percentile over Puerto Rico, the US Virgin Islands, the ABC Islands, and the Lesser Antilles, but temperatures remain below 33°C in these regions.
- ii. High chances for the hybrid index to exceed 33°C over northern and southern Guyana and central Suriname, and to exceed 35°C over central-western Guyana, but it remains below the 80th percentile.

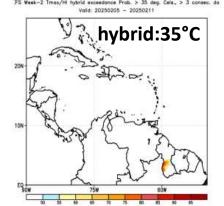
Based on absolute temperature thresholds, excessive and severe heat warnings are issued for northern and southern Guyana and central Suriname.













FS Week-2 Tmax/HI hybrid exceedance Prob. > 37 deg. Cels., > 3 consec. d

Urban Heat Island Alerts for Caribbean



Urban Heat Island Forecasts Week-1



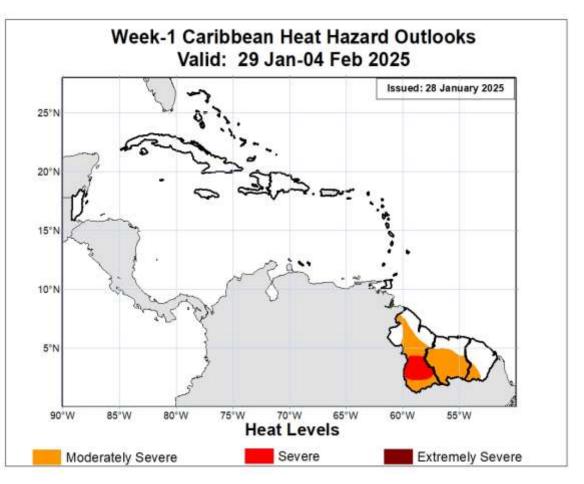
https://www.cpc.ncep.noaa.gov/products/international/UHI/Caribb_day_80.html

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



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

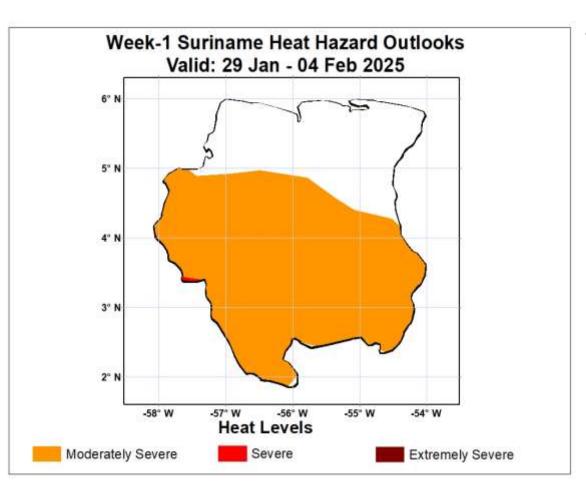
Week-1 Heat Hazards Outlook



There is an increased chance for moderately severe heat over Guyana, southern Suriname and French Guiana. An increased chance for severe heat exists over central Guyana

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

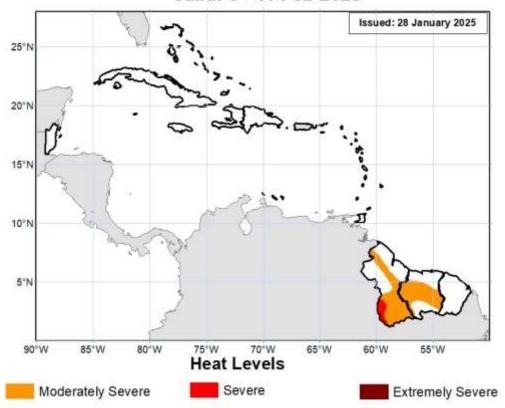
Week-1 Heat Hazards Outlook for Suriname



There is an increased chance for moderately severe heat over southern Suriname.

Week-2 Heat Hazards Outlook

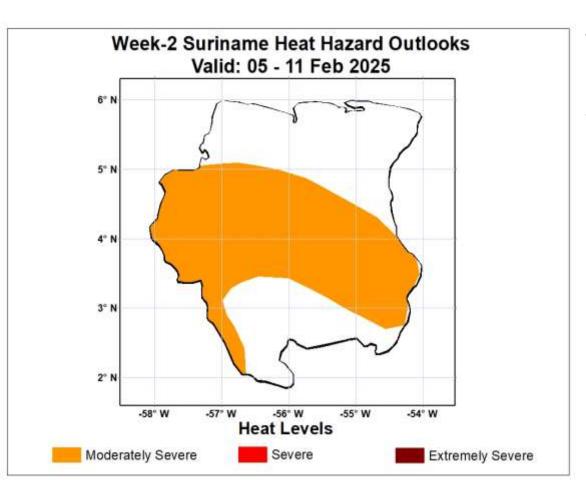
Week-2 Caribbean Heat Hazard Outlooks Valid: 5 - 11 Feb 2025



There is an increased chance for moderately severe heat over northern and southern Guyana and in central Suriname. An increased chance for severe heat exists over southwestern Guyana

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

Week-2 Heat Hazards Outlook for Suriname



There is an increased chance for moderately severe heat over central Suriname during week 2 of the forecast.

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 _map.html