

August 2026

Final Issued 2026-10-11 · Baseline 1991-2020 · next update 2026-10-12

1 Key messages and climate synopsis

- National mean temperature of 29.3 °C (+1.3 °C relative to 1991–2020): the warmest August in the 1979–2026 series.
- National precipitation of 146.7 mm, 85% of normal: the 7th driest August in the 1981–2026 series (tied with 1984).
- Maximum temperature exceeded its 90th percentile on 71% of days (national mean; 10% expected).
- Heat waves of national extent: 3; cold waves: 0.
- 60% of the country was in drought by SPI-3 (Jun–Aug 2026), mainly in Artemisa, La Habana and Mayabeque.
- El Niño conditions of strong intensity in the equatorial Pacific (ONI JJA 2026: +1.8 °C).

Source: NOAA CPC / PSL, UCSB Climate Hazards Center

Mean temperature

29.3 °C

+1.3 °C vs. normal (normal 28.0)

Above normal

1st warmest of 48 (1979–2026)

Maximum temperature

34.2 °C

+2.1 °C vs. normal (normal 32.2)

Extremely above normal

1st warmest of 48 (1979–2026)

Minimum temperature

24.4 °C

+0.5 °C vs. normal (normal 23.9)

Normal

6th warmest of 48 (1979–2026) (tied with 1985, 1997)

Precipitation

146.7 mm

85% of normal (normal 172.6)

Near normal

7th driest of 46 (1981–2026) (tied with 1984)

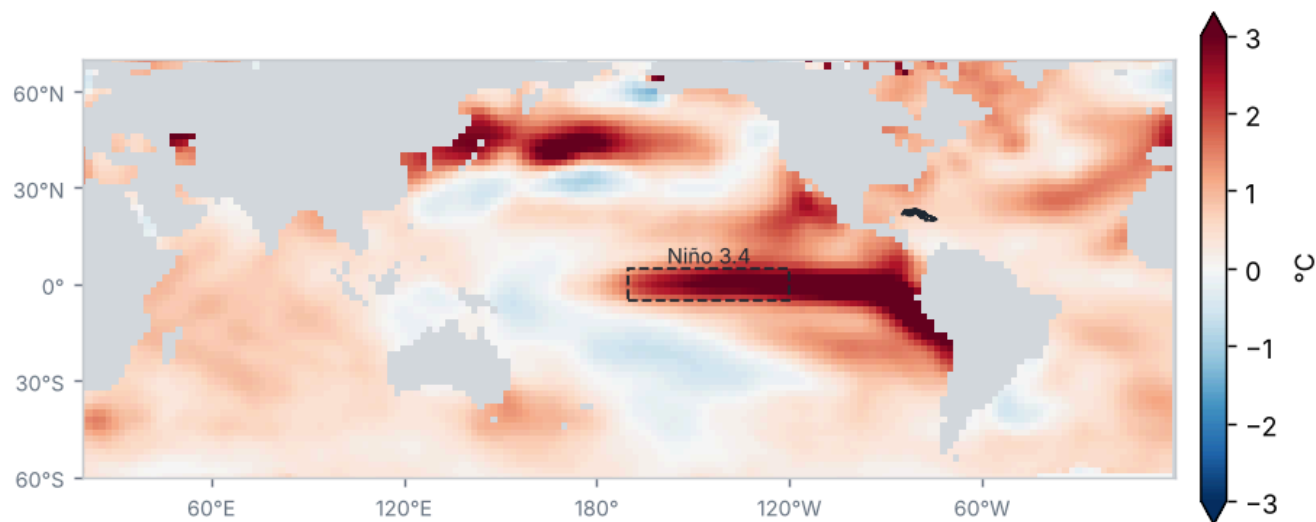
Station records

0

Source: NOAA CPC / PSL, UCSB Climate Hazards Center

2 Global and regional climate drivers

Sea-surface temperature anomaly, August 2026 (°C, 1991–2020)



Source: NOAA NCEI / PSL

Sea-surface temperature anomaly in the Niño regions (°C)

Region	Anomaly (°C)	Change from preceding period (°C)
Niño 1+2	4.1	0.5
Niño 3	3.1	0.8
Niño 3.4	2.5	0.5
Niño 4	0.9	-0.1

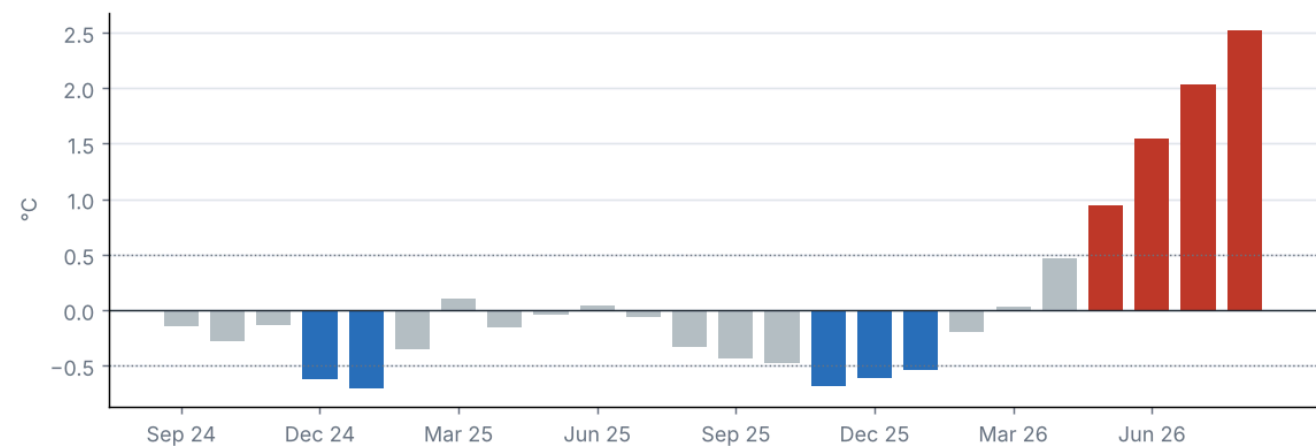
Mean of the months in the period (OISST v2.1)

Source: NOAA CPC

El Niño conditions of strong intensity: the Oceanic Niño Index (ONI) for JJA 2026 was +1.8 °C.

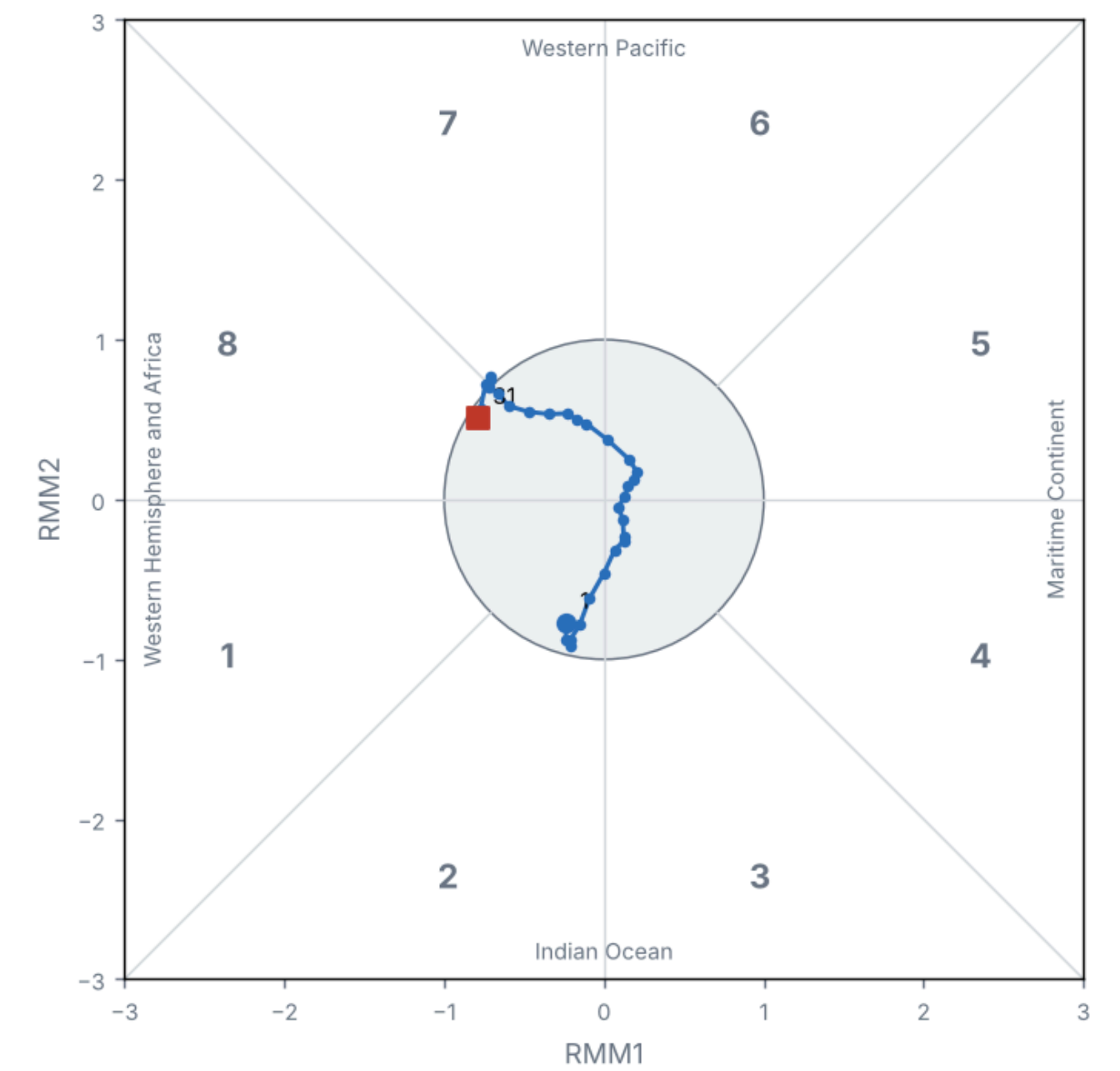
Source: NOAA CPC

Monthly Niño 3.4 anomaly, last 24 months (°C)



Source: NOAA CPC

MJO phase diagram (real-time OMI)



Source: NOAA PSL

Teleconnection indices

Index	Value	Phase
NAO	-1.9	Negative

North Atlantic Oscillation (NAO).

Source: NOAA CPC

The Niño 3.4 anomaly was +2.52 °C (+0.49 °C relative to the preceding period).

The MJO was active on 4 of 31 days, most often in phase 7 (Western Pacific); mean amplitude 0.6.

Other indices: NAO -1.92 (negative phase).

3 Precipitation

National precipitation

146.7 mm

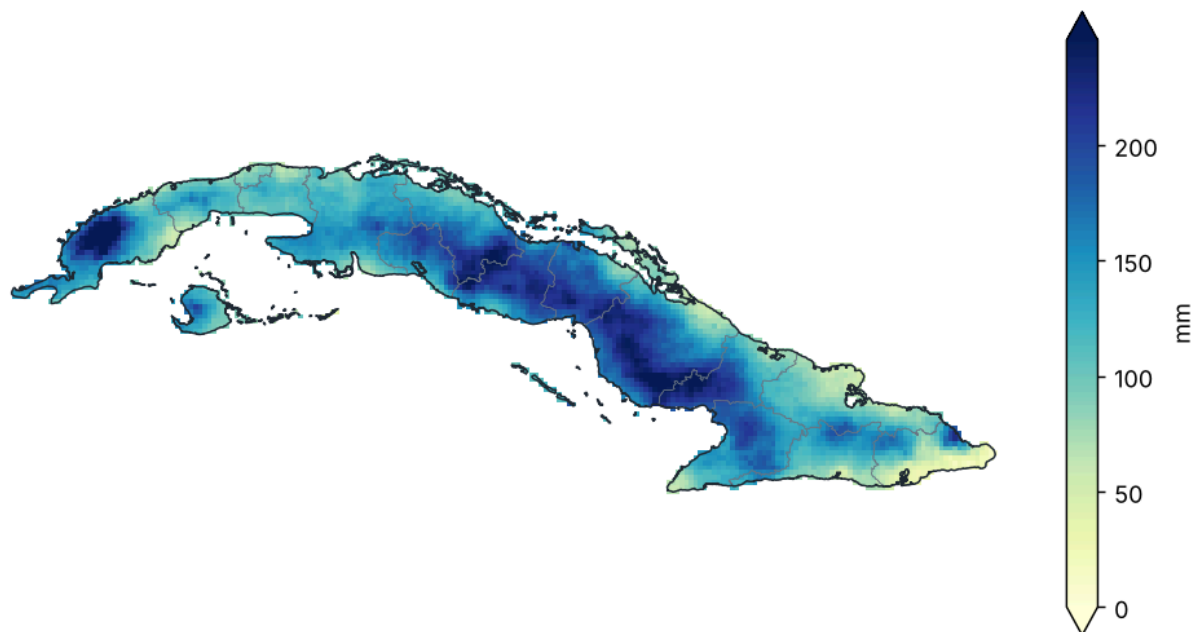
85% of normal (normal
172.6)

Near normal

7th driest of 46 (1981–2026)
(tied with 1984)

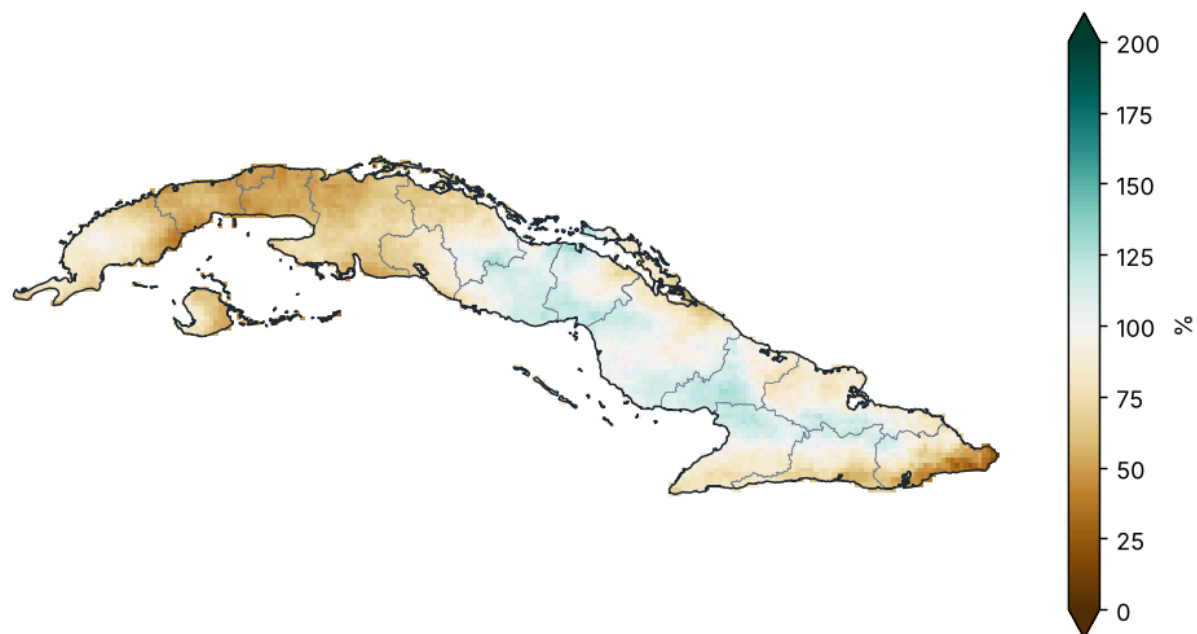
Source: UCSB Climate Hazards Center

Accumulated precipitation



Source: UCSB Climate Hazards Center

Percent of normal precipitation (1991–2020)



Source: UCSB Climate Hazards Center

Percent of normal by state



Source: UCSB Climate Hazards Center

Precipitation by region

Region	Total (mm)	Normal (mm)	Difference (%)	Category
Western Cuba	134.1	206.1	-34.9	Below normal
Central Cuba	173.5	180.6	-3.9	Near normal
Eastern Cuba	126.6	134.6	-6.0	Near normal

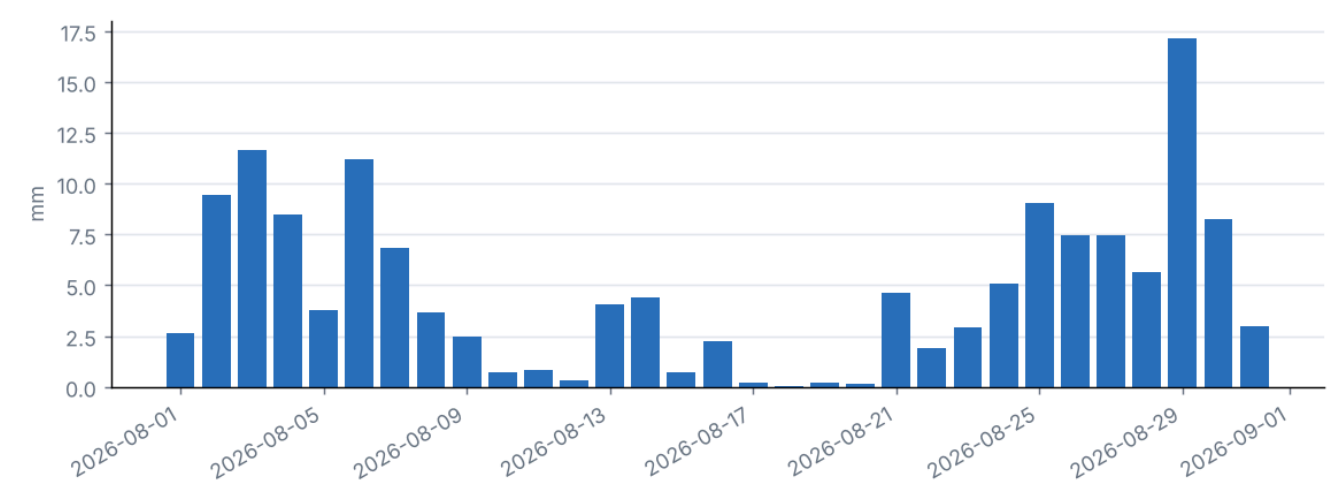
Source: UCSB Climate Hazards Center

Largest 24-hour rainfall at stations

Station	State	Max 24 h rainfall (mm)	Date
Guantanamo Bay Nas	Guantánamo	4.5	2026-08-01

Source: NOAA NCEI

Daily national mean precipitation



Source: UCSB Climate Hazards Center

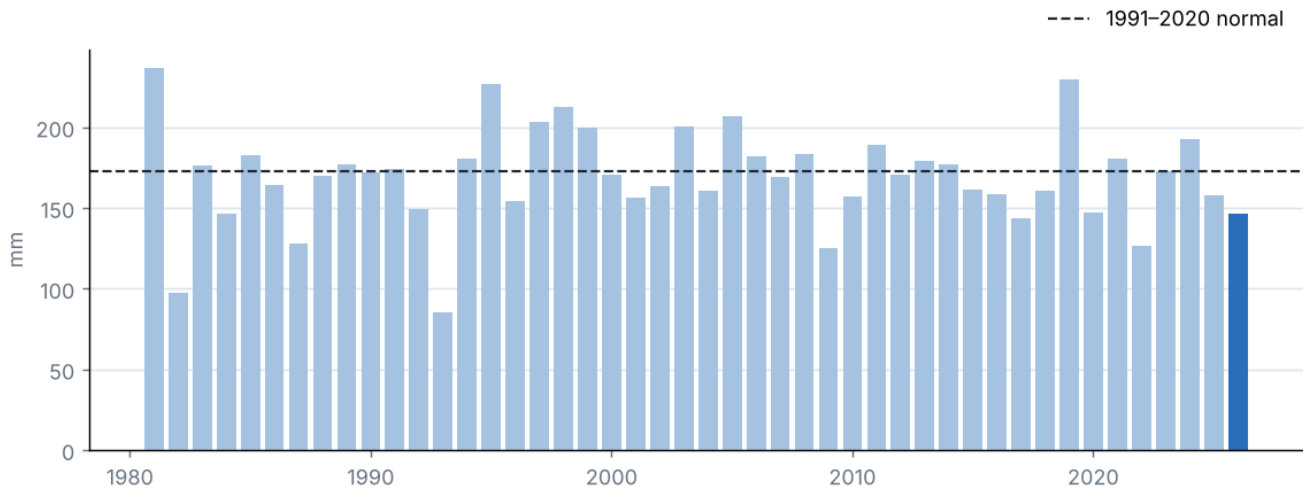
Daily national mean and grid-cell maximum

Day	National mean (mm)	Grid maximum (mm)	State
2026-08-01	2.6	20.9	Granma
2026-08-02	9.5	34.1	Holguín
2026-08-03	11.6	48.0	Matanzas
2026-08-04	8.5	44.1	Granma
2026-08-05	3.8	43.8	Pinar del Río
2026-08-06	11.2	43.9	Camagüey
2026-08-07	6.9	24.7	Artemisa
2026-08-08	3.7	27.6	Artemisa
2026-08-09	2.5	21.7	Guantánamo
2026-08-10	0.7	18.6	Guantánamo
2026-08-11	0.8	16.9	Camagüey
2026-08-12	0.4	8.9	Pinar del Río
2026-08-13	4.1	25.2	Las Tunas
2026-08-14	4.4	24.4	Ciego de Ávila
2026-08-15	0.7	21.9	Pinar del Río
2026-08-16	2.2	16.1	Las Tunas
2026-08-17	0.2	12.8	Camagüey
2026-08-18	0.0	1.4	Guantánamo
2026-08-19	0.2	11.3	Camagüey
2026-08-20	0.2	3.8	Guantánamo
2026-08-21	4.6	39.0	Las Tunas
2026-08-22	1.9	16.6	Matanzas
2026-08-23	2.9	30.8	Cienfuegos
2026-08-24	5.1	24.8	Villa Clara
2026-08-25	9.0	30.4	Matanzas
2026-08-26	7.5	36.4	Cienfuegos
2026-08-27	7.5	33.6	Sancti Spíritus
2026-08-28	5.7	17.8	Sancti Spíritus
2026-08-29	17.1	46.7	Camagüey
2026-08-30	8.2	35.4	Ciego de Ávila

Day	National mean (mm)	Grid maximum (mm)	State
2026-08-31	3.0	19.5	Santiago de Cuba

Source: UCSB Climate Hazards Center

National precipitation in August of each year



Source: UCSB Climate Hazards Center

National accumulated precipitation was 146.7 mm, 85% of the 1991–2020 average (172.6 mm), category “Near normal”. It was the 7th driest August in the 1981–2026 series (tied with 1984).

The region with the highest percentage of normal was Central Cuba (96%) and the lowest was Western Cuba (65%).

The largest daily grid-cell total was estimated on 3 August in Matanzas (48.0 mm).

Source: UCSB Climate Hazards Center

4 Temperature

Mean temperature

29.3 °C

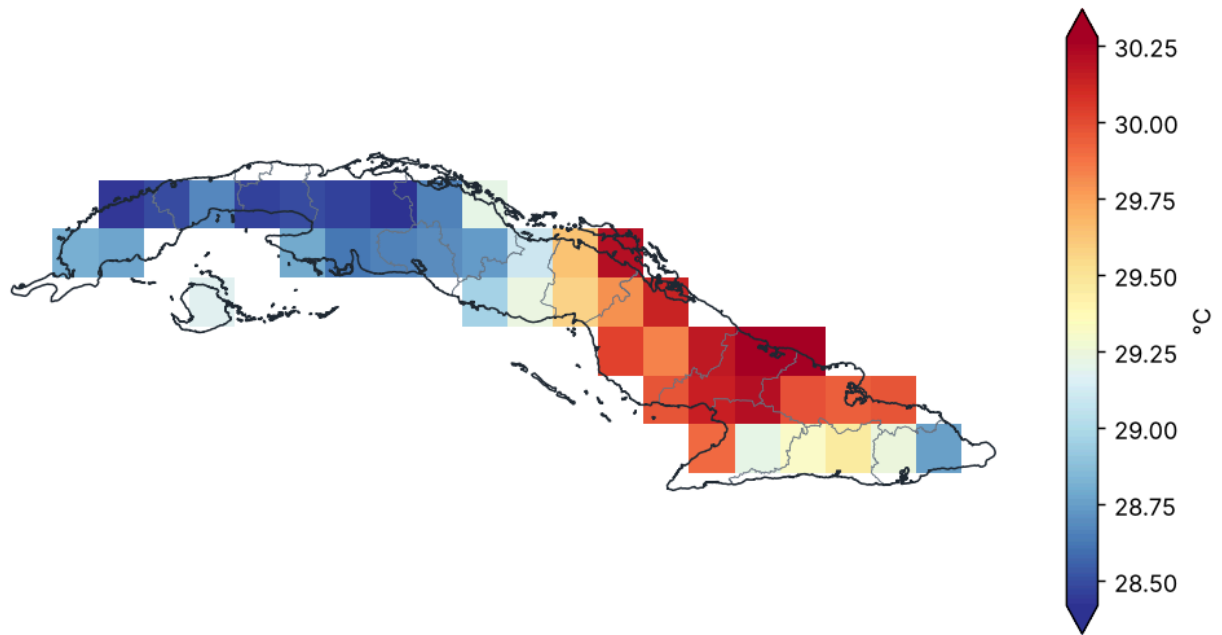
+1.3 °C vs. normal (normal 28.0)

Above normal

1st warmest of 48 (1979–2026)

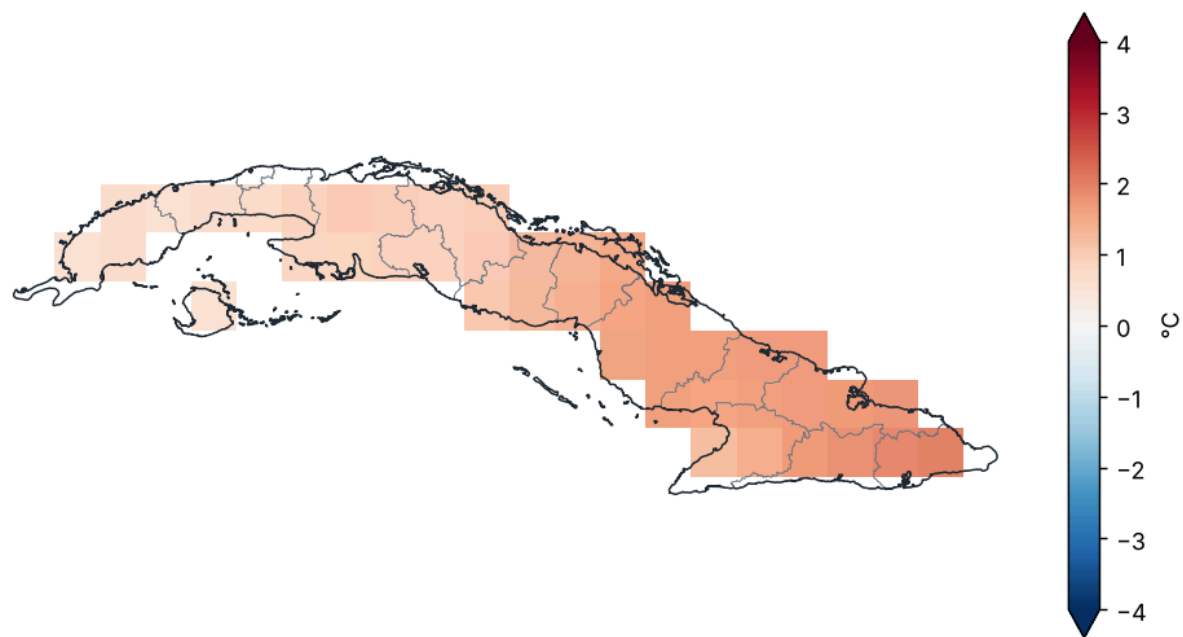
Source: NOAA CPC / PSL

Mean temperature



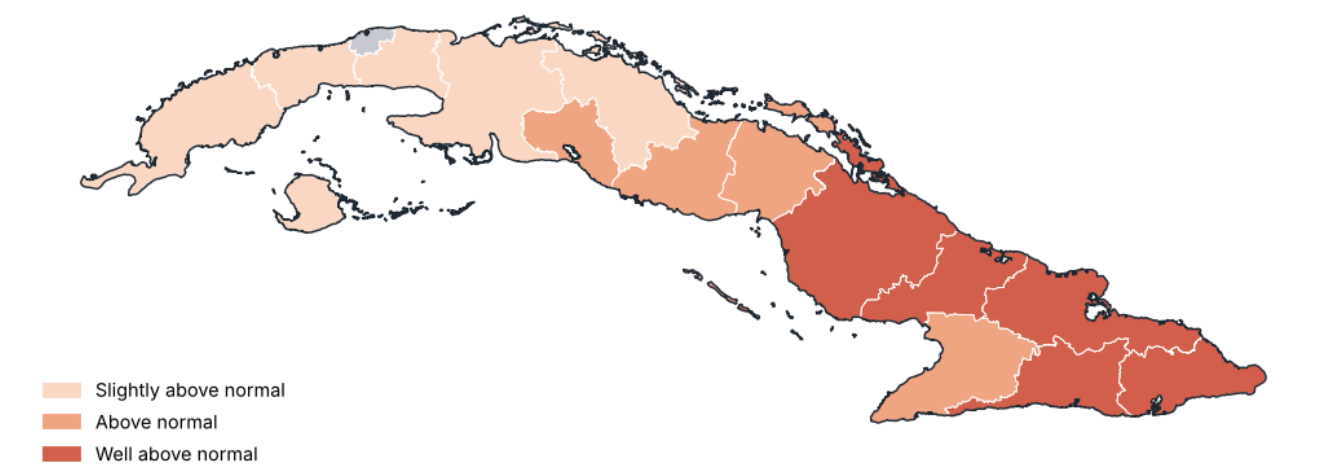
Source: NOAA CPC / PSL

Mean temperature anomaly (1991–2020)



Source: NOAA CPC / PSL

Mean temperature anomaly by state



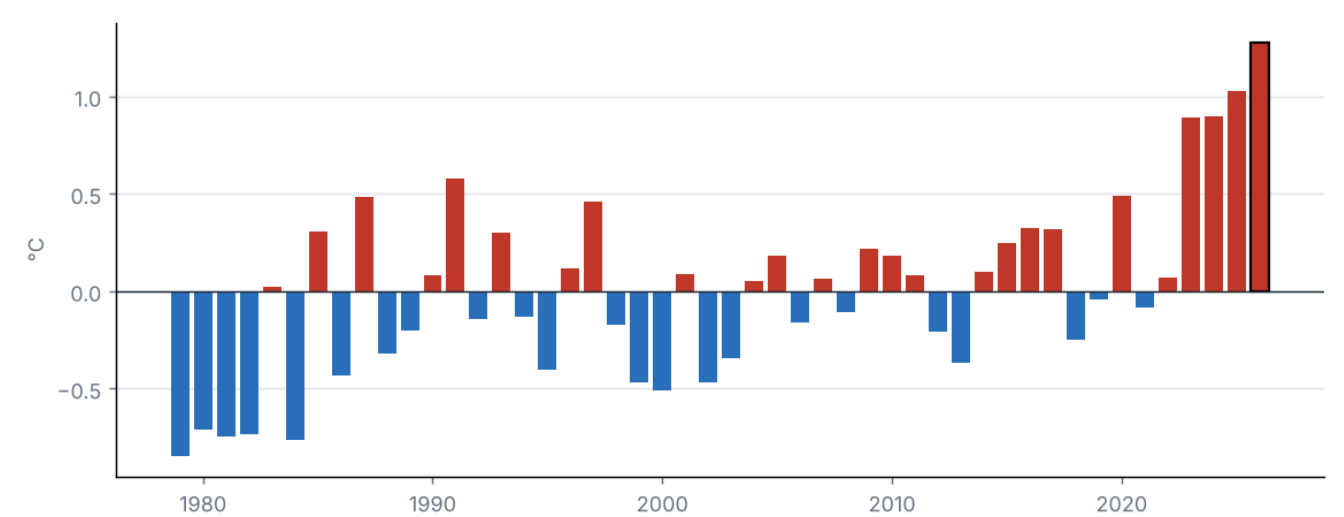
Source: NOAA CPC / PSL

Stations with the largest positive anomaly

Region	State	Station	Altitude (m)	Anomaly (°C)
Eastern Cuba	Guantánamo	Guantanamo Bay Nas	16.0	0.4

Source: NOAA NCEI

National mean temperature anomaly in August of each year



Source: NOAA CPC / PSL

The national mean temperature was 29.3 °C, 1.3 °C above the 1991–2020 average (28.0 °C), category “Above normal”. It was the warmest August in the 1979–2026 series.

By region, the largest anomaly was in Eastern Cuba (+1.7 °C) and the smallest in Western Cuba (+0.7 °C).

Source: NOAA CPC / PSL

Maximum temperature

34.2 °C

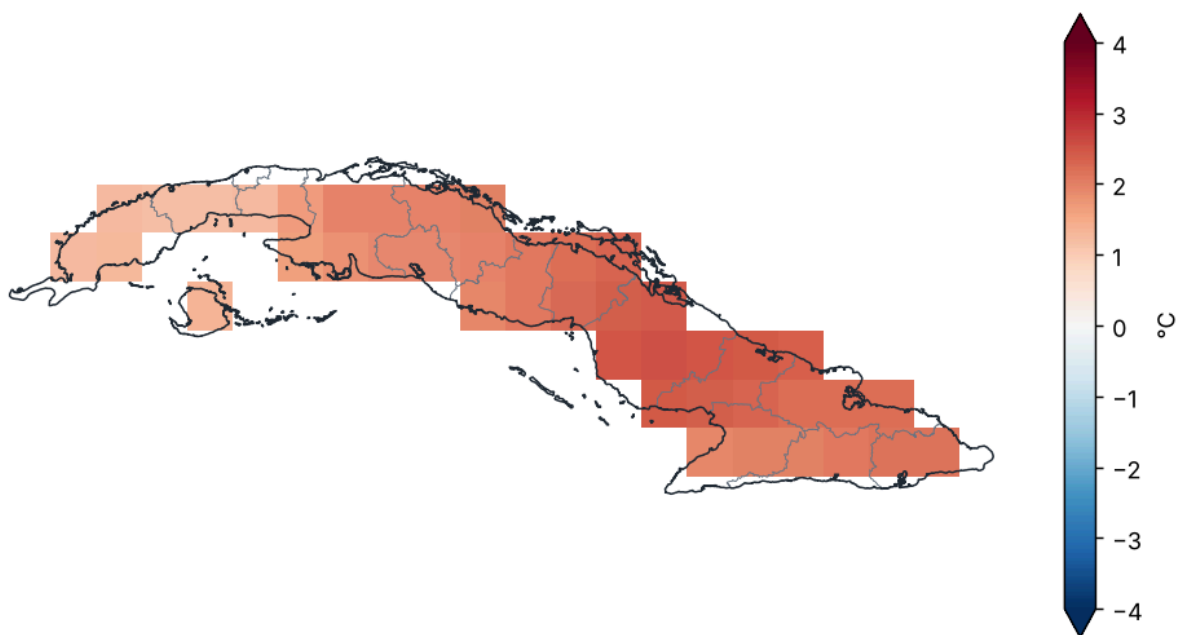
+2.1 °C vs. normal (normal 32.2)

Extremely above normal

1st warmest of 48 (1979–2026)

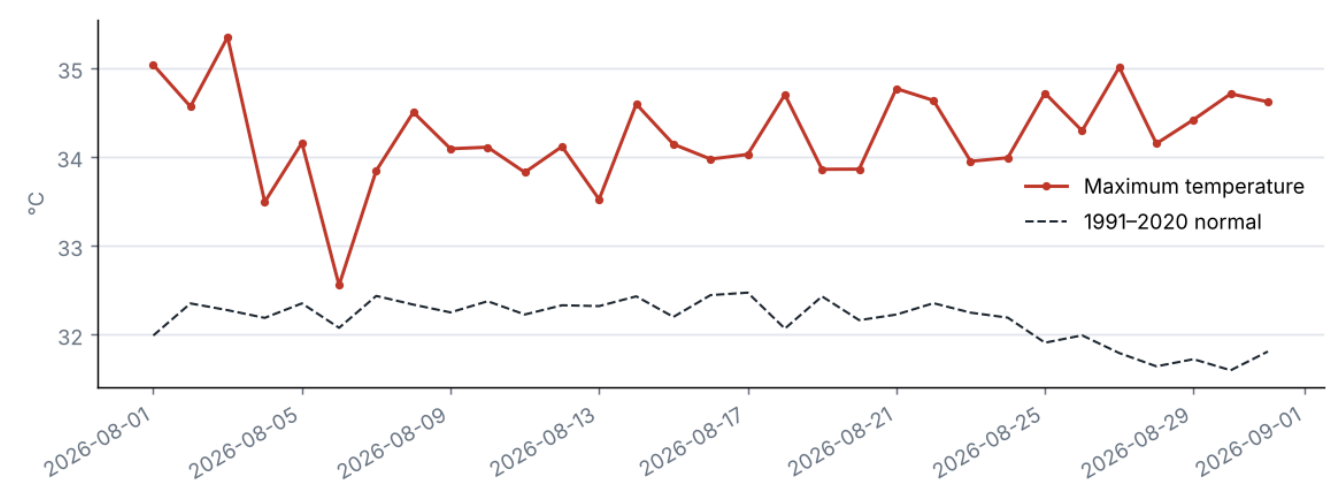
Source: NOAA CPC / PSL

Maximum temperature anomaly (1991–2020)



Source: NOAA CPC / PSL

Daily national maximum temperature



Source: NOAA CPC / PSL

The national maximum temperature was 34.2 °C, 2.1 °C above the 1991–2020 average (32.2 °C), category “Extremely above normal”. It was the warmest August in the 1979–2026 series.

By region, the largest anomaly was in Eastern Cuba (+2.3 °C) and the smallest in Western Cuba (+1.6 °C).

Source: NOAA CPC / PSL

Minimum temperature

24.4 °C

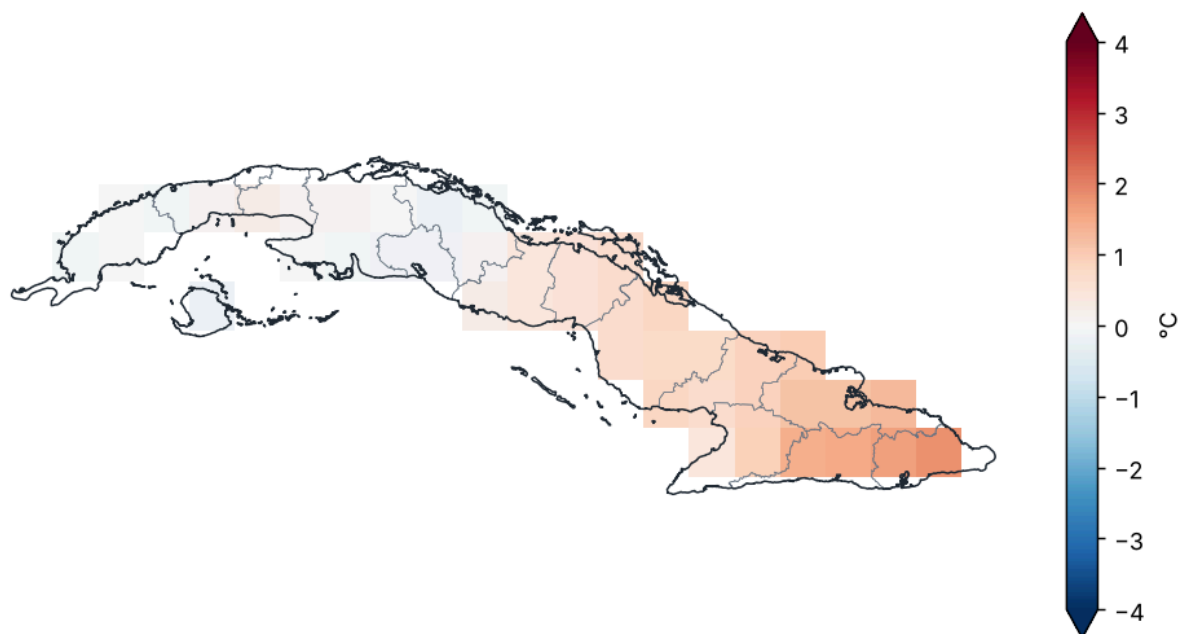
+0.5 °C vs. normal (normal 23.9)

Normal

6th warmest of 48 (1979–2026) (tied with 1985, 1997)

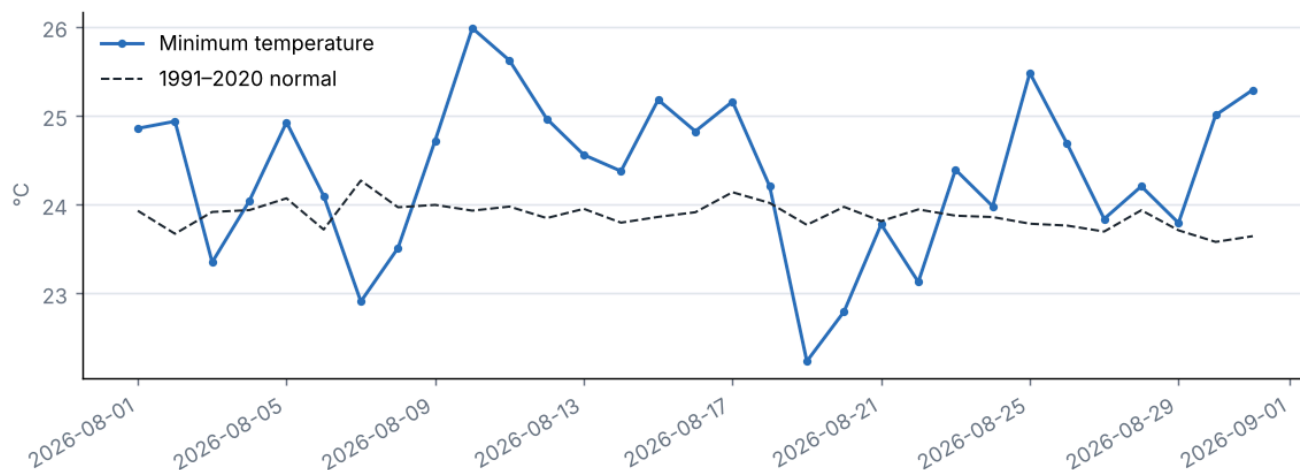
Source: NOAA CPC / PSL

Minimum temperature anomaly (1991–2020)



Source: NOAA CPC / PSL

Daily national minimum temperature



Source: NOAA CPC / PSL

The national minimum temperature was 24.4 °C, 0.5 °C above the 1991–2020 average (23.9 °C), category "Normal". It was the 6th warmest August in the 1979–2026 series (tied with 1985, 1997).

By region, the largest anomaly was in Eastern Cuba (+1.1 °C) and the smallest in Western Cuba (−0.1 °C).

5 Climate extremes and records

Highest maximum temperature

35.0 °C

Guantanamo Bay Nas, GTM · 2026-08-11

Lowest minimum temperature

23.9 °C

Guantanamo Bay Nas, GTM · 2026-08-05

Highest 24 h rainfall

4.5 mm

Guantanamo Bay Nas, GTM · 2026-08-01

Source: NOAA NCEI

Highest maximum temperature by state

State	Station	Temperature (°C)	Date
Guantánamo	Guantanamo Bay Nas	35.0	2026-08-11

Source: NOAA NCEI

Lowest minimum temperature by state

State	Station	Temperature (°C)	Date
Guantánamo	Guantanamo Bay Nas	23.9	2026-08-05

Source: NOAA NCEI

Climate-extremes indices (national mean)

Index	Description	Value	Normal	Difference	Unit
TX90p	Warm days (Tmax > 90th percentile)	71.3	10.0	61.3	%
TN90p	Warm nights (Tmin > 90th percentile)	24.3	10.0	14.3	%
TX10p	Cool days (Tmax < 10th percentile)	1.2	10.0	-8.8	%
TN10p	Cold nights (Tmin < 10th percentile)	6.3	10.0	-3.7	%
FD	Frost days (Tmin < 0 °C)	0.0	0.0	0.0	d
SU	Summer days (Tmax > 25 °C)	31.0	30.9	0.1	d
TR	Tropical nights (Tmin > 20 °C)	30.9	31.0	-0.1	d
WSDI	Warm spell days (≥ 6 days)	17.2	—	—	d
CSDI	Cold spell days (≥ 6 days)	0.0	—	—	d
Rx1day	Maximum 1-day precipitation	30.3	23.0	7.3	mm
Rx5day	Maximum 5-day precipitation	34.0	39.8	-5.8	mm
CDD	Consecutive dry days (< 1 mm)	16.4	11.9	4.5	d
CWD	Consecutive wet days (≥ 1 mm)	1.5	3.1	-1.6	d

Percentile indices relative to calendar-day percentiles of 1991–2020 (5-day window); counts and maxima averaged over the country's grid cells.

Source: NOAA CPC / PSL

Heat and cold waves

Dates	Type	Details
2026-08-05 – 2026-08-12	Heat wave	Up to 89% of the country above the 90th percentile of Tmax. Regions: Central Cuba and Eastern Cuba.
2026-08-17 – 2026-08-22	Heat wave	Up to 100% of the country above the 90th percentile of Tmax. Regions: Western Cuba, Central Cuba and Eastern Cuba.
2026-08-24 – 2026-08-31	Heat wave	Up to 100% of the country above the 90th percentile of Tmax. Regions: Western Cuba, Central Cuba and Eastern Cuba.

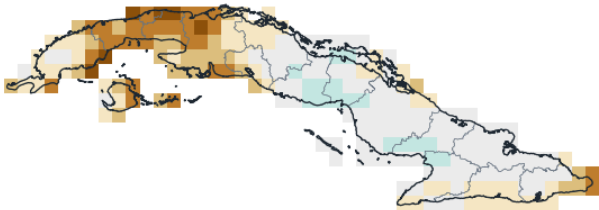
Wave: at least 3 consecutive days with at least half of the country above the 90th percentile of maximum temperature (heat) or below the 10th percentile of minimum temperature (cold). At most the 10 most intense are listed.

Source: NOAA CPC / PSL

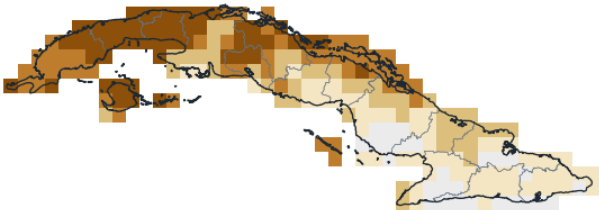
6 Drought

Standardized Precipitation Index (SPI) ending August 2026

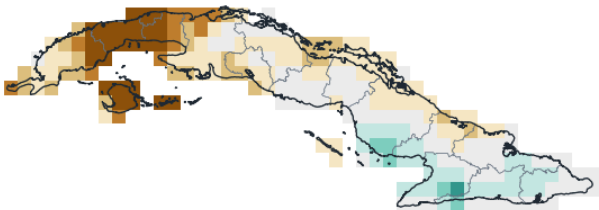
SPI-1



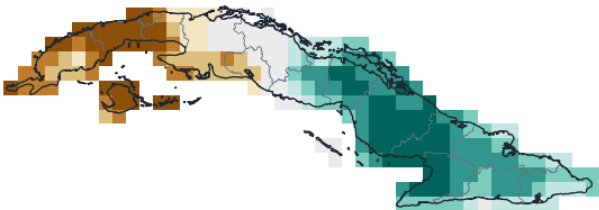
SPI-3



SPI-6



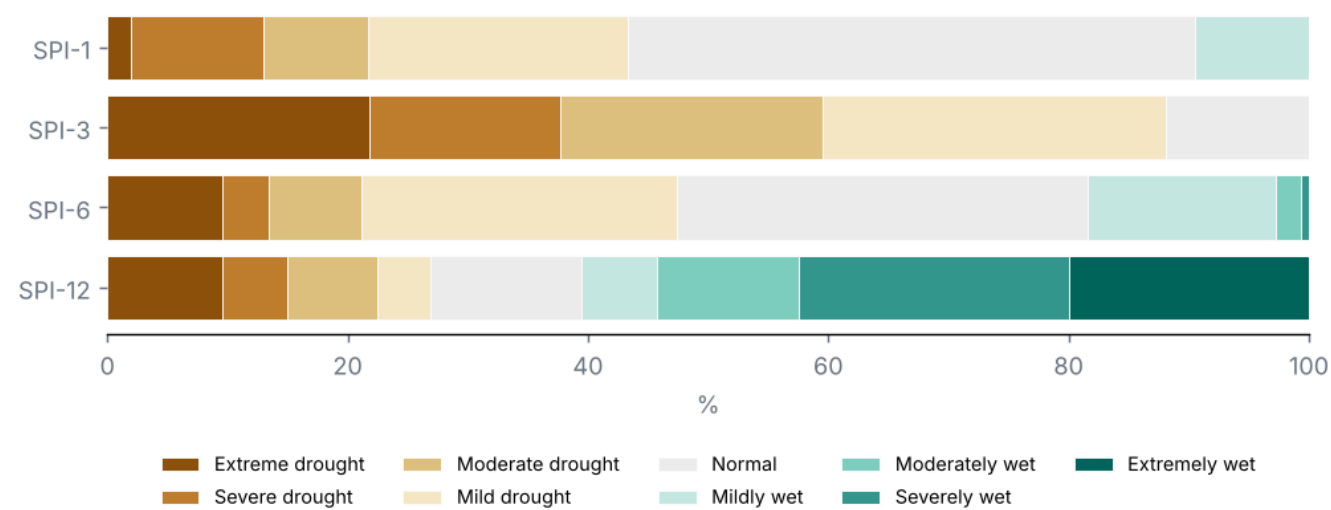
SPI-12



SPI computed from CHIRPS; gamma distribution fitted to 1991–2020 accumulations.

Source: UCSB Climate Hazards Center

Share of the country by SPI category



Source: UCSB Climate Hazards Center

States with the lowest SPI-3

State	SPI-1	SPI-3	SPI-6	SPI-12	Category
Artemisa	-1.7	-3.0	-2.9	-2.5	Extreme drought
La Habana	-1.9	-3.0	-2.8	-2.3	Extreme drought
Mayabeque	-1.8	-2.8	-2.2	-1.7	Extreme drought
Isla de la Juventud	-1.3	-2.5	-2.3	-2.3	Extreme drought
Pinar del Río	-1.0	-2.1	-1.3	-1.7	Extreme drought
Cienfuegos	-0.8	-1.9	-0.8	-0.9	Severe drought
Villa Clara	-0.3	-1.8	-0.6	0.2	Severe drought
Matanzas	-1.3	-1.7	-0.9	-0.8	Severe drought
Ciego de Ávila	0.2	-1.4	-0.5	1.8	Moderate drought
Sancti Spiritus	0.3	-1.2	-0.5	1.0	Moderate drought

Source: UCSB Climate Hazards Center

SPI-3 (Jun–Aug 2026): national mean -1.37 ; 60% of the country in drought ($SPI \leq -1.0$) and 38% in severe or extreme drought.

Most affected states: Artemisa (-2.99), La Habana (-2.98) and Mayabeque (-2.75).

SPI-1 (August 2026): 22% of the country in drought.

SPI-6 (Mar–Aug 2026): 21% of the country in drought.

SPI-12 (Sep 2025–Aug 2026): 22% of the country in drought.

7 Severe weather and notable events

Notable events

Dates	Type	Details
2026-04-21 – 2026-10-09	Drought	GDACS Orange alert: Drought in The Bahamas, Belize, Costa Rica, Cuba, Dominican Republic, Guatemala, Honduras, Haiti, Mexico, Nicaragua, El Salvador.

GDACS alerts and station rainfall of 150 mm or more in 24 hours (after quality control).

Source: GDACS

No tropical cyclone came within 300 km of the country.

9 Outlook

Outlook for September 2026: most likely tercile

Precipitation



Mean temperature



Source: NOAA CPC

Outlook for Sep–Nov 2026: most likely tercile

Precipitation



Mean temperature



Source: NOAA CPC

Probability of each tercile by region, Sep–Nov 2026 (%)

Region	Precipitation: below	Precipitation: normal	Precipitation: above	Temp.: below	Temp.: normal	Temp.: above
Western Cuba	33.0	33.0	33.0	5.0	17.0	78.0
Central Cuba	37.0	34.0	30.0	6.0	23.0	71.0
Eastern Cuba	52.0	28.0	20.0	13.0	17.0	69.0

Source: NOAA CPC

Probabilistic outlook from the North American Multi-Model Ensemble (NMME), initialised in September 2026, relative to 1991–2020 terciles. It is not an official forecast: consult the national meteorological service.

Precipitation, September 2026: above normal is favoured over 0% of the country and below normal over 35%.

Mean temperature, September 2026: above normal is favoured over 100% of the country and below normal over 0%.

Precipitation, Sep–Nov 2026: above normal is favoured over 0% of the country and below normal over 49%.

Mean temperature, Sep–Nov 2026: above normal is favoured over 100% of the country and below normal over 0%.

10 Annexes

Report climate regions



Monthly precipitation by state (mm)

State	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Pinar del Río	23.0	18.9	64.7	105.2	199.5	115.6	93.8	160.7
Artemisa	44.0	17.3	62.7	41.1	153.7	75.3	81.6	113.4
La Habana	53.1	23.4	52.9	29.5	139.0	62.3	83.1	92.6
Mayabeque	43.3	23.8	63.2	40.2	200.5	129.8	82.4	108.5
Matanzas	61.0	17.5	82.3	50.0	227.6	238.4	79.8	133.2
Isla de la Juventud	74.8	31.0	20.0	70.2	112.2	71.3	94.9	126.2
Cienfuegos	72.6	28.0	93.4	84.1	234.4	197.5	81.4	170.5
Villa Clara	59.5	41.5	117.8	84.1	247.3	137.1	66.0	161.8
Sancti Spíritus	40.6	53.4	106.7	73.1	201.1	180.8	81.6	191.6
Ciego de Ávila	27.3	60.0	96.6	117.3	152.2	148.9	52.9	170.9
Camagüey	38.0	64.8	132.2	101.5	203.5	191.2	65.4	174.0
Las Tunas	26.4	51.7	132.1	77.9	140.3	140.5	62.8	168.9
Holguín	58.9	73.8	193.8	138.3	84.5	134.2	46.1	101.6
Granma	53.8	45.5	189.9	113.2	152.6	172.0	93.5	154.4
Santiago de Cuba	41.0	52.5	253.8	139.1	154.8	178.9	74.2	121.5
Guantánamo	65.4	97.9	216.2	181.2	88.9	137.9	51.1	85.9

CSV

Source: UCSB Climate Hazards Center

Monthly maximum temperature by state (°C)

State	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Pinar del Río	25.9	26.0	29.1	30.1	32.0	31.9	32.7	33.4
Artemisa	25.5	25.6	28.7	29.7	31.9	31.9	32.7	33.4
La Habana	—	—	—	—	—	—	—	—
Mayabeque	26.0	26.2	29.2	30.2	32.6	32.5	33.4	33.8
Matanzas	26.6	26.9	29.6	30.5	32.9	32.8	33.9	34.0
Isla de la Juventud	25.9	26.0	29.0	29.8	32.1	32.0	32.9	33.2
Cienfuegos	26.8	26.9	29.5	30.4	32.9	33.0	34.2	34.1
Villa Clara	26.3	26.1	28.8	29.7	32.5	32.9	34.0	34.0
Sancti Spíritus	27.1	26.3	28.8	29.9	32.8	33.0	34.6	34.2
Ciego de Ávila	27.4	26.5	28.9	30.3	33.2	33.5	35.4	35.0
Camagüey	28.1	26.8	29.4	30.5	33.3	33.6	35.5	35.1
Las Tunas	28.7	27.4	29.8	30.7	33.4	33.9	35.6	35.2
Holguín	28.2	27.0	29.0	29.8	32.4	33.2	34.6	34.4
Granma	28.8	27.8	29.8	30.4	32.8	33.3	35.0	34.6
Santiago de Cuba	28.4	27.3	29.2	29.9	32.0	32.7	34.2	34.0
Guantánamo	27.8	26.5	28.2	28.9	30.8	31.5	32.8	32.8

CSV

Source: NOAA CPC / PSL

Monthly mean temperature by state (°C)

State	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Pinar del Río	21.7	20.7	24.5	25.7	27.9	28.1	28.4	28.7
Artemisa	21.0	20.0	23.8	24.9	27.6	27.9	28.3	28.6
La Habana	—	—	—	—	—	—	—	—
Mayabeque	21.1	20.1	23.9	24.9	27.7	27.9	28.4	28.5
Matanzas	21.7	20.7	24.3	25.2	27.8	28.0	28.6	28.5
Isla de la Juventud	22.5	21.3	25.2	26.1	28.6	28.7	29.1	29.2
Cienfuegos	22.2	21.0	24.4	25.5	27.9	28.0	28.8	28.7
Villa Clara	22.2	20.8	24.3	25.3	27.8	28.1	28.8	28.8
Sancti Spíritus	22.9	20.9	24.4	25.1	27.9	28.4	29.2	29.1
Ciego de Ávila	23.1	21.0	24.3	25.1	28.1	28.9	29.8	29.7
Camagüey	23.9	21.6	25.0	25.7	28.4	29.1	30.0	30.0
Las Tunas	24.5	22.2	25.5	26.0	28.7	29.4	30.2	30.2
Holguín	24.5	22.5	25.3	25.8	28.3	29.1	29.9	30.0
Granma	24.2	22.5	25.3	25.8	28.2	28.9	29.6	29.6
Santiago de Cuba	24.3	22.6	25.0	25.6	27.8	28.5	29.4	29.4
Guantánamo	24.2	22.5	24.6	25.2	27.3	28.1	29.0	29.0

CSV

Source: NOAA CPC / PSL

Monthly minimum temperature by state (°C)

State	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Pinar del Río	17.6	15.3	20.0	21.3	23.8	24.2	24.2	24.0

State	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Artemisa	16.5	14.4	19.0	20.2	23.4	24.0	23.9	23.8
La Habana	—	—	—	—	—	—	—	—
Mayabeque	16.1	14.0	18.6	19.7	22.9	23.3	23.3	23.2
Matanzas	16.7	14.5	19.0	19.9	22.7	23.1	23.3	23.1
Isla de la Juventud	19.1	16.7	21.4	22.3	25.0	25.3	25.4	25.1
Cienfuegos	17.6	15.1	19.4	20.5	22.9	23.1	23.4	23.3
Villa Clara	18.1	15.5	19.8	20.8	23.0	23.3	23.6	23.6
Sancti Spiritus	18.6	15.5	19.9	20.4	23.1	23.8	23.7	24.0
Ciego de Ávila	18.7	15.5	19.6	19.8	22.9	24.4	24.1	24.5
Camagüey	19.8	16.4	20.5	20.8	23.5	24.7	24.4	24.9
Las Tunas	20.3	17.0	21.1	21.3	24.0	25.0	24.8	25.2
Holguín	20.9	18.1	21.6	21.9	24.3	25.1	25.3	25.5
Granma	19.7	17.2	20.7	21.2	23.6	24.5	24.2	24.6
Santiago de Cuba	20.2	17.9	20.9	21.3	23.7	24.4	24.5	24.8
Guantánamo	20.5	18.6	20.9	21.6	23.8	24.6	25.2	25.2

CSV

Source: NOAA CPC / PSL

Stations used

Id	Name	State	Latitude	Longitude	Altitude (m)	Days with data (Tmax) (%)
CUW00011706	Guantanamo Bay Nas	Guantánamo	19.9	−75.2	16.2	100.0

CSV

Source: NOAA NCEI

- Report data (JSON)
- Tables (CSV)

11 Glossary, methodology and sources

Anomaly: difference between the observed value and its 1991–2020 normal. Percent of normal: observed total divided by the normal, times 100. Station record: most extreme daily value for the same month in all earlier years of record (at least 20 years).

Temperature: CPC_TEMP (0.5° daily grid); mean temperature is (Tmax + Tmin)/2. Precipitation: CHIRPS. National, regional and state averages are weighted by the area of each grid cell inside each polygon. Normals refer to 1991–2020; ranks compare values rounded to one decimal. Stations: GHCN-Daily (NOAA NCEI); values flagged by its quality control are discarded, as are daily values more than 5 robust standard deviations from the station median and variables whose monthly anomaly differs by more than 3 °C from the gridded analysis. Period means require at least 80% of days with data and station normals at least 20 complete years. This report is generated automatically and does not replace official information from the national meteorological service.

Source	Product	License	Citation
UCSB Climate Hazards Center	CHIRPS v3.0, 0.05°	See provider terms	Climate Hazards Center, UC Santa Barbara. CHIRPS v3.0.

Source	Product	License	Citation
NOAA CPC	ONI, Niño-region SST indices (OISST v2.1), NAO and AO	Public domain (NOAA)	NOAA Climate Prediction Center climate indices.
NOAA CPC / PSL	CPC Global Unified Gauge-Based Analysis of Daily Precipitation, 0.5°	Public domain (NOAA)	CPC Global Unified Precipitation data provided by NOAA PSL, Boulder, CO, USA.
NOAA CPC / PSL	CPC Global Unified Temperature, daily 0.5°	Public domain (NOAA)	CPC Global Unified Temperature data provided by NOAA PSL, Boulder, CO, USA.
NOAA NCEI / PSL	Extended Reconstructed SST v5 (ERSST v5), 2°	Public domain (NOAA)	Huang et al. (2017), J. Climate, doi:10.1175/JCLI-D-16-0836.1
GDACS	Global Disaster Alert and Coordination System event list	See provider terms	—
NOAA NCEI	GHCN-Daily	Public domain (NOAA)	Menne et al. (2012), J. Atmos. Oceanic Technol., doi:10.1175/JTECH-D-11-00103.1
NOAA NCEI	IBTrACS v04r01 tropical-cyclone best tracks	Public domain (NOAA)	Knapp et al. (2010), Bull. Amer. Meteor. Soc., doi:10.1175/2009BAMS2755.1
NOAA CPC	North American Multi-Model Ensemble (NMME) tercile probabilities, 1°	Public domain (NOAA)	Kirtman et al. (2014), Bull. Amer. Meteor. Soc., doi:10.1175/BAMS-D-12-00050.1
NOAA PSL	Real-time OLR MJO Index (ROMI)	Public domain (NOAA)	Kiladis et al. (2014), Mon. Wea. Rev., doi:10.1175/MWR-D-13-00301.1
geoBoundaries	geoBoundaries gbOpen (OpenStreetMap, Wambacher)	Open Data Commons Open Database License 1.0	—

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