METEOROLOGICAL DEPARTMENT ST.MAARTEN

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Weather & Climate

Key Points

- Temperatures remain **above normal** since April 2023.
- Rainfall for the Jun-Jul-Aug season is expected to be **normal**.
- The 2025 Atlantic hurricane season is predicted to be **above normal**.

SEASONAL OUTLOOK FOR JUNE TO AUGUST (JJA) 2025

Rainfall Forecast

Normal Rainfall *Jun-Jul-Aug Season*	201 mm - 295 mm | 8 -11 inches 32 - 41 wet days
Jun-Jul-Aug 2025	• Likely to be normal • up to 6 (7-day) wet spells • up to 5 (7-day) dry spells

Rainfall intensity and frequency increases. However, a mid summer dry spell is often experienced in July.

Temperature Forecast

Day-time Temp. **Night-time Temp.**	Above normal

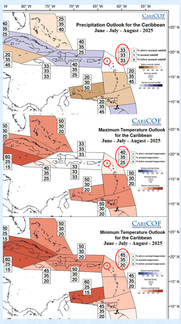
Episodes of hazardous heat and intense heatwaves could be spared until early August.

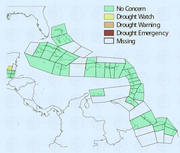
Drought Alert

There is no drought concern for St.Maarten and most places in the region by the end of August 2025. However, it is advised to monitor resources and monthly updates, and upgrade infrastructure and management plans.

Flash Flood Potential

Moderate Chance 25% - 50%	Atleast **1** event could cause flash flooding/ flooding





Short term drought alert levels at the end of August 2025

IMPLICATION OF FORECAST FOR SECTORS

Health

- UV radiation will continue to increase this season.
- Keep hydrated, wear protective clothing, and limit outdoor activities.
- An increase in Saharan Dust incursion is likely; persons with allergies/respiratory illnesses should be vigilant.

Tourism

- Increased disruptions to outdoor activities.
- Monitor weather forecasts as we are in the hurricane season.

Energy/ Water

- Energy demand for cooling purposes will continue to increase.

Agriculture

- Schedule irrigation during dry spells.
- Pests and diseases are likely to increase with increasing moisture levels.

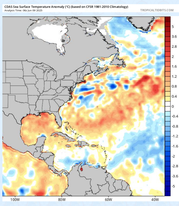
What Influences This Season's Climate ?

As of mid-May 2025, the equatorial Pacific is in an ENSO-neutral state. The IRI ENSO Plume forecast indicates a high probability (92%) for ENSO neutral conditions continuing through July 2025.

Neutral conditions are likely to continue from August to October 2025, with probabilities above 50%. There's a lower chance it will last until the end of the year. However, there's a smaller chance that La Niña conditions might return.

Sea Surface Temperatures (SSTs) in the Caribbean Sea and the Tropical North Atlantic have cooled to approximately 0.5°C above normal. Models confidently forecast that above-average SSTs, ranging from 0.2°C to 0.5°C, will persist across these regions through the Sep-Oct-Nov 2025 season.

Warm sea surface temperatures (SSTs) in and around the Caribbean lead to higher air temperatures, increased humidity, and seasonal rainfall totals. This also results in more frequent severe weather, including tropical cyclones. While intense heatwaves are expected, they will be less than in 2024.



May In Review

Average Temperature	**27.8°C | 82°F**
Maximum Temperature	**May 21st** *31.7°C | 89°F*
Minimum Temperature	**May 17th** *22.7°C | 73°F*

Most Sunshine Hours	**May 5th** *11hrs:48mins*
Least Sunshine Hours	**May 1st** *00hrs:12mins*

Warmest Day *Average Temperature*	**May 30th** *28.6°C | 83°F*
Coolest Day *Average Temperature*	**May 17th** *25.2°C | 77°F*
Longest Dry Spell	**6 days** *May 18th - 23rd*

Average Wind Speed	**9 kt | 10 mph**
Windiest Day *Daily Average Wind Speed*	**May 13th** *13 kt | 17 mph*
Highest Wind Gust	**May 12th & 13th** *29 kt | 33 mph*

Total Rainfall	**58.9 mm | 2.3 in**
2025 Cumulative Rainfall	**258.7 mm | 10.2 in**
Maximum 24-hr. Rainfall	**22.4 mm | 1.2 in**
No. of Rain Days	**8 days**
No. of Heavy Rain Days	**2 days**
No. of Thunderstorm Days	**4 days**

For the month of May, rainfall was within the normal range. It was significantly lower than 2024. Meanwhile, temperatures remain above the normal range since April 2023, but lower than 2024.

LONG / SHORT TERM SEASONAL REVIEW

Year In Review

Jun 2024 - May 2025

Normal Rainfall Recorded Rainfall	**956 mm - 1180 mm** 1109 mm | 44 inches

Seasonal Review

Mar-Apr-May 2025

Normal Rainfall Recorded Rainfall *Heavy Rain Days (>10 mm)*	**148 mm - 250 mm** 174.4 mm | 7 inches *2 days*

Normal June Conditions

Total Rainfall	35 - 59 mm | 1 - 2 in
Average No. of Rain Days	9 days
Daily Average Temperature	28.4°C | 83°F
Avg. Max. Temperature	31.3°C | 88°F
Avg. Min. Temperature	26.2°C | 79°F
Avg. Daily Hrs. of Sunshine	8 hrs

NEWS

2025 ATLANTIC HURRICANE SEASON

The 2025 Atlantic hurricane season begins on **June 1st and lasts until November 30th**.

Based on historical data, an average hurricane season produces approximately **14 named storms**, with **7 hurricanes**, including **3 major hurricanes** (category 3 or higher, with winds of 111 mph or greater).

Forecasts from multiple reputable agencies suggest an **above-normal** season. The **National Oceanic and Atmospheric Administration (NOAA)** projects a 60% chance of above-average activity).

The prediction for an above normal season as shown above, is primarily due to the following conditions:

Above-average sea surface temperatures in the North Atlantic Ocean, Gulf and Caribbean Sea. Although slightly cooler than last year, these warm waters continue to provide essential fuel for storm development.

ENSO-Neutral Conditions: The El Niño-Southern Oscillation (ENSO) is expected to remain in a neutral phase throughout the season. While El Niño typically suppresses hurricane activity and La Niña tends to enhance it, neutral conditions can still yield highly active seasons—especially when combined with other favorable elements, such as:

- Warm SSTs in the tropical Atlantic
- Low vertical wind shear
- Favorable African Easterly Waves
- Elevated mid-level atmospheric moisture

Despite the favorable conditions, **frequent Saharan dust intrusions**, though difficult to predict, could potentially suppress storm development.

2025 ATLANTIC HURRICANE SEASON

	NAMED STORMS	HURRICANES	MAJOR HURRICANES
1991-2020 Average	14	7	3
2024	18	11	5
Colorado State Uni.	17	9	4
Weather Channel	19	9	4
N.O.A.A	13 - 19	6 - 10	3 - 5

This newsletter is produced by

the Meteorological Department of St. Maarten.

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For more information on other Caribbean Outlooks go to:
http://rcc.cimh.edu.bb/long-range-forecasts/caricof-climate-outlooks

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