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Weather & Climate

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November 2021

Summary

- Rainfall total for the month of October 2021 was within the normal range;
- Rainfall for this season (Nov-Dec-Jan) is expected to be above normal.
- Temperatures were above normal in October, next season expected to be more comfortable.

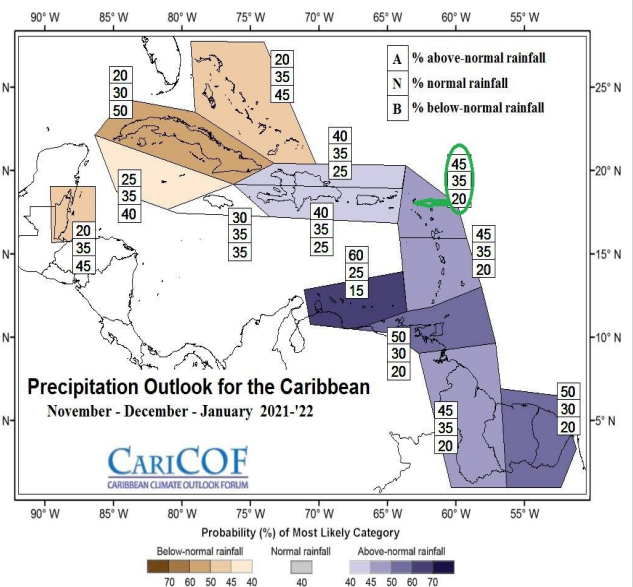
Seasonal Outlook for November to January (NDJ) 2021/22

Rainfall Forecast

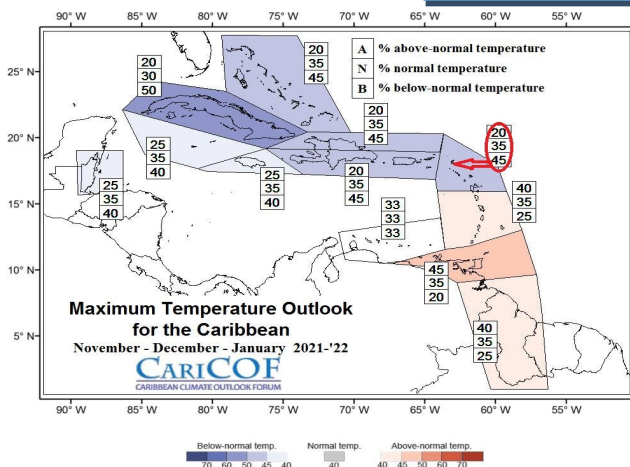
Models are indicating that rainfall totals for the season Nov-Dec-Jan. 2021/22 are likely to be the usual or higher in St. Maarten and across most of the region.

Normal rainfall on St. Maarten during the Oct-Nov-Dec. season ranges 272 mm–325 mm/11-13in, with 37 to 45 wet days. There is usually frequent heavy showers in November, in December rainfall often decreases in frequency and intensity as we transition in the dry season while in Jan. there are sunny days with some showers.

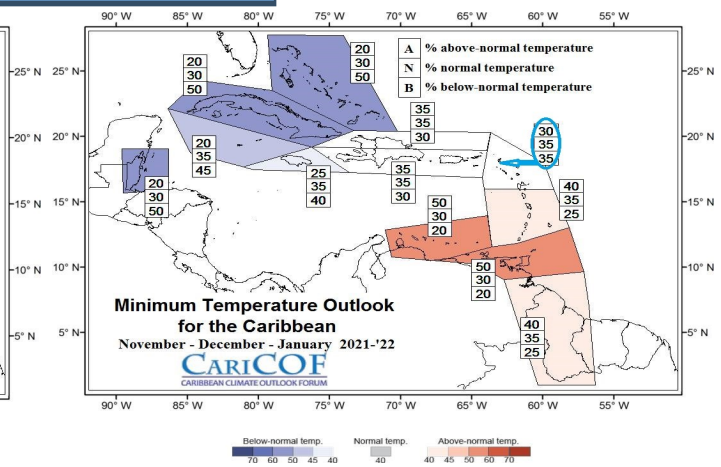
Up to 7 (7-day) wet spells and 4 to 6 (7-day) dry spells are likely on St. Maarten during the season. There is no drought concern until the end of January.



Temperature Forecast



Day-time Temperatures



Night-time Temperatures

Day-time and night-time temperatures are expected to be close to the usual or slightly lower across the Leeward Islands. Some cold nights are expected in January

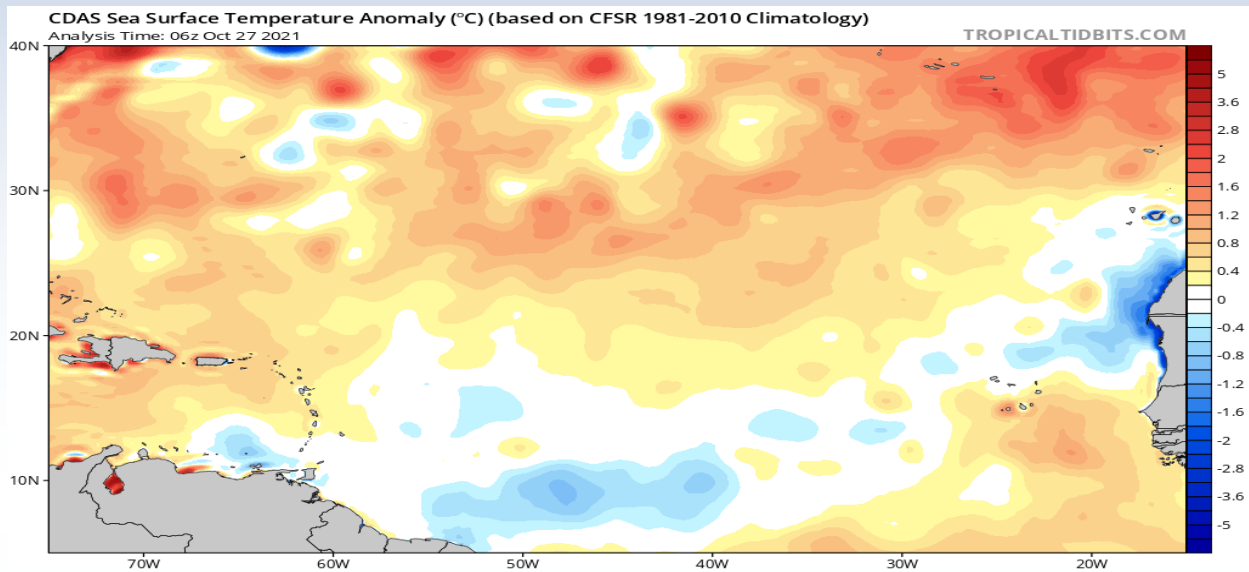
For more information on other Caribbean Outlooks go to <http://rcc.cimh.edu.bb/long-range-forecasts/caricof-climate-outlooks/>

WHAT INFLUENCES THIS SEASON'S CLIMATE?

In mid October, sea surface temperature (SST) in the east-central Pacific was 0.8 degrees C below average and most key atmospheric variables were consistent with La Nina conditions and therefore a La Nina Advisory has been issued.

Majority of the forecast models predict SSTs to cool further through the rest of 2021 into early 2022 and then return to the ENSO neutral phase by Feb-Mar-Apr 2022 season.

SSTs have warmed to 0.5 - 1°C above average around the Caribbean and in portions of the Tropical North Atlantic. Models are forecasting observed SST to remain around average across the Caribbean Sea. Warm SSTs in and around the Caribbean tend to contribute to higher air temperature, above-average humidity, seasonal rainfall totals, an increase in the frequency of extreme rainfall and also higher Atlantic Hurricane Season activity through November or December.



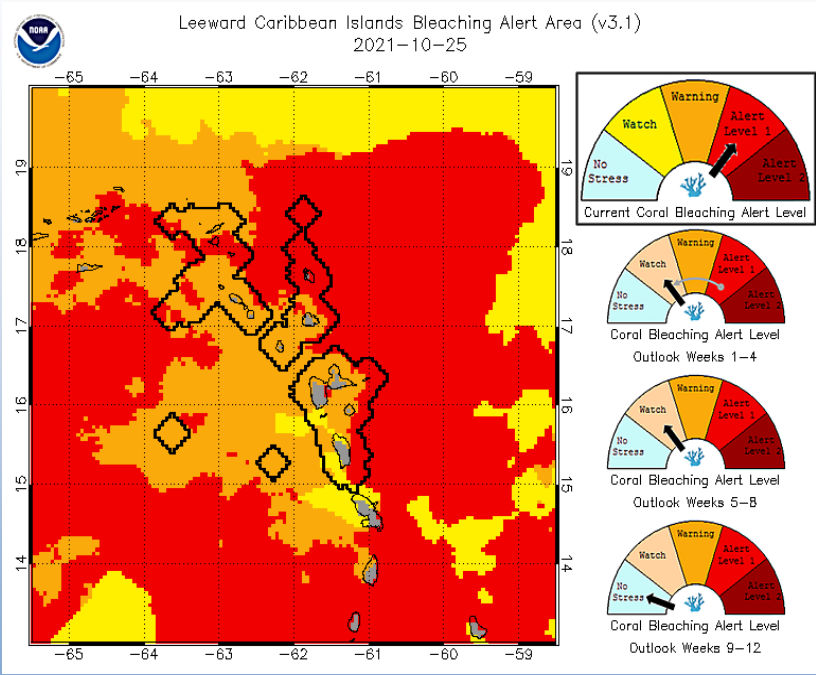
Coral Reef Outlook

Alert Level 1

It is possible that bleaching is currently taking place.

Sea Surface Temperatures are currently near or above the bleaching threshold.

By November, some low thermal stress will continue to occur across the eastern Caribbean. Thereafter temperatures will be cool again therefore no stress on the corals.



OCTOBER 2021 IN REVIEW

Total Rainfall	124.2 mm	4.9 in.
2021 Cumulative Rainfall	587.9 mm	23.1 in.
Max. 24-Hr. Rainfall	19 th Sep	44.9mm/ 1.8 in.
No. Rain Days (≥1.0 mm)	13 days	
No. Heavy Rain Days (≥10.0 mm)	3 days	
No. Thunderstorm Days	5 days	
Avg. Wind Speed	8 kts.	9 mph
Max. Wind Gust	27 kts.	31mph
Avg. Temperature	28.9°C	84°F
Max. Temperature	7 th Oct.	33.2°C / 92°F
Min. Temperature	22 nd Oct.	24.5°C / 76°F

Long /Short Term Seasonal Review**Year in Review
(November 2020— October 2021)**

Total rainfall over the past twelve (12) months was below the normal range (986-1231). A total of 752.1mm/35in. of rainfall was recorded at the Princess Juliana International Airport.

**Seasonal Review
(Aug-Sept-Oct. 2021)**

Total rainfall for the last three (3) months was 261mm/10 inches, this amount was below the normal range (290-408mm). There were seven (7) days with heavy rainfall (>10mm) during that period.

Generally, temperatures were above the normal range for the month of October 2021. Rainfall was within the normal range this month.

The average daily temperature for October was 28.9°C /84°F.

The warmest days were the 3rd & 7th with an average temperature of 29.7°C/86°F. The coolest day was the 14th with an average temperature of 27.7°C/82°F.

There were 14 hot days, 7 of which were very hot.

The warmest nights were the 3rd & 4th with minimum temperature of 28.2°C/83°F. The coolest night was the 22nd with a minimum temperature of 24.5°C/76°F.

The day with the most sunshine hours was the 16th (10hrs:54min).

The day with the least sunshine hours was the 11th (2hrs:48min).

The windiest day was the 5th, with a daily average wind speed of 13 kt./ 15 mph.

The day with the highest wind gust was the 12th with a gust of 27kt/31 mph.

Skies were mostly fair during the month of October.

There were thirteen (13) days with rainfall in October. Three (3) of which had heavy rainfall.

There were three (3) heat wave periods the longest being nine (9) days.

**NORMAL
NOVEMBER CONDITIONS**

Rainfall Total	89 mm – 156 mm	4– 6 in.
Avg. No. of Rain days	14 days	
Daily Average Temperature	27.4°C	81°F
Avg. Max. Temperature	30.0°C	86°F
Avg. Min. Temperature	25.0°C	77°F
Avg. Daily Hours of Sunshine	8 hrs	

Implication of Forecast for Sectors

Energy/Water Sector

Energy demand for cooling purposes may be tempered a bit as cooler temperatures are expected from November.

Tourism Sector

- Continue to observe all health protocols.
- Increased possibility of interruptions to outdoor activities.

Agriculture

- Potential for flooding and waterlogged soils are still possible in November but decreases there after.
- Pests and diseases may increase in extreme dry and wet conditions.

Health

- Wear protective clothing, especially on sunny days as exposure to dangerous UV radiation can cause skin damage.
- Keep hydrated.
- As shower activity becomes more frequent there is the likelihood of an increase in vector borne diseases.
- Proper management of water storage containers e.g., covering with protective mesh helps to reduce this risk.
- Persons with respiratory illnesses should take the necessary precautions during Saharan dust events.

The 2021 Atlantic Hurricane Season

With just a few more weeks to the end of the 2021 Atlantic Hurricane season, activity in the tropical Atlantic has slowed down significantly. October only produced one (1) named storm; Wanda after a very busy September which produced nine (9) named storms.

All the names on the regular list of named storms for 2021 have been used therefore if a storm is named in the coming weeks it will be Adria from the supplementary list since we no longer use the Greek Alphabet.

We should not let our guards down as historically November has produced some dangerous hurricanes and storms. Lenny in 1999, Paloma in 2008, Ida in 2009, Eta and Iota in 2020. Most of the activity during the final month of the hurricane season is usually in the Caribbean Sea and Gulf of Mexico. Seas surface temperatures in these areas are currently very warm therefore it is important to remain vigilant and informed.

Remember it does not have to be a hurricane or storm but an active tropical wave or heavy rainfall event can also have significant impacts on our lives.

For reliable weather information connect with the Meteorological Department St. Maarten (MDS).

Website: www.meteosxm.com

Facebook: [facebook.com/sxmweather](https://www.facebook.com/sxmweather)

Telephone: 721-545-4226/545-2024

BE PREPARED!!!

DON'T WAIT!!!!

2021 ATLANTIC HURRICANE SEASON

STORM NAMES

- | | | |
|------------------------|-----------------------|---------------------|
| • Ana | • Henri | • Odette |
| • Bill | • Ida | • Peter |
| • Claudette | • Julian | • Rose |
| • Danny | • Kate | • Sam |
| • Elsa | • Larry | • Teresa |
| • Fred | • Mindy | • Victor |
| • Grace | • Nicholas | • Wanda |

2021 ATLANTIC HURRICANE SEASON

SUPLIMENTARY LIST STORM NAMES

- | | | |
|-----------|-----------|------------|
| • Adria | • Heath | • Orlanda |
| • Braylen | • Isla | • Pax |
| • Caridad | • Jacobus | • Ronin |
| • Deshawn | • Kenzie | • Sophie |
| • Emery | • Lucio | • Tayshaun |
| • Foster | • Makayla | • Viviana |
| • Gemma | • Nolan | • Will |

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