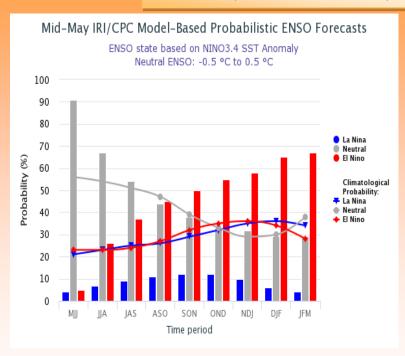


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## **ENSO FORECAST**

(El Niño Southern Oscillation)



In mid May 2018. the east-central tropical Pacific still reflected Enso-neutral conditions. Most of the kev variables, atmospheric also indicated neutral conditions while the upper level wind showed remnants of La Nina. The subsurface water temperatures continued to be above average.

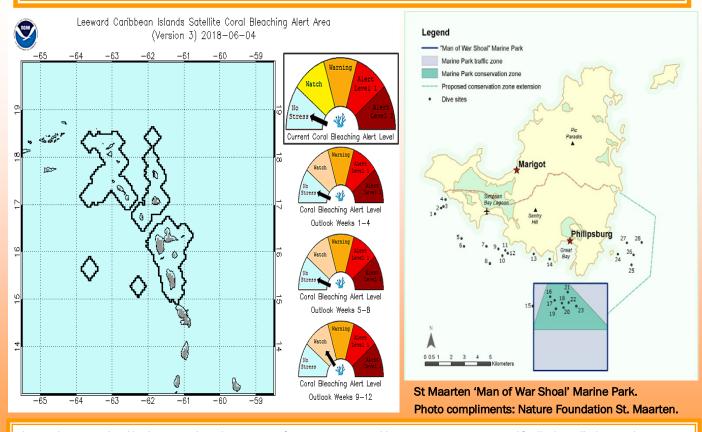
A majority of ENSO Predicting Models are favoring the development of a weak El Nino by the Sept-Oct-Nov (SON) season and to continue through early 2019.

If El Nino manifests by SON, the rainfall in the northern Caribbean is expected to increase, while a reduction rainfall totals will be expected in the southern Caribbean. Caribbean.

# No Thermal Stress Concern for Corals.

Presently sea surface temperatures (SST) around the Leeward Islands and St. Maarten are about  $27.8^{\circ}$ C (82°F). This is slightly above average for this time of year however, this temperature is way below the bleaching threshold (29.3°C/85°F).

As a result no thermal stress on corals is expected at this time and through the end of July 2018. There is a possibility for low thermal stress to begin by the end of August.



This newsletter is produced by the Meteorological Department of St. Maarten. We would appreciate your comments and feedback. Kindly drop us a line at meteo@sintmaartengov.org or call us at (1 721) 520 3312/ 545 4226.

## MAY 2018 IN REVIEW

Total Rainfall	71.5 mm	2.8 in.	
2018 Cumulative Rainfall	290.1 mm	11.4 in.	
Max. 24-Hr. Rainfall	May 2 <sup>nd</sup>	16.2mm/ 0.6 in.	
No. Rain Days (>=1.0 mm)	16 days		
No. Heavy Rain Days (>=10.0 mm)	2 days		
No. Thunderstorm Days	None		
Avg. Wind Speed	11 kts.	13 mph	
Max. Wind Gust		NA	
Avg. Temperature	27.0 °C	81 °F	
Max. Temperature	May 31 <sup>st</sup>	30.7 °C / 88 °F	
Min. Temperature	May 2 <sup>nd</sup> & 11 <sup>th</sup>	22.9°C / 73 °F	

Rainfall for the month of May was within the normal range (56-115mm). A total of 71.5 mm/ 2.8 inches were recorded in sixteen (16) rain days. There were two (2) heavy rainfall days in May.

Temperatures for the month of May were near normal. (Maximum, minimum)

The warmest day was the  $29^{\text{th}}$  with an average temperature of  $27.7^{\circ}\text{C}/82^{\circ}\text{F}$ .

The day with the most sunshine hours was the  $8^{th}$  (12hrs :06min).

The day with the least sunshine hours was the  $2^{nd}$  (4hrs:36 min).

The windiest day was the  $5^{th}$ , with a daily average wind speed of 15 kts. / 17 mph.

Skies were partly cloudy most of the time.

## Year in Review (Jun. 2017 - May 2018)

For the last 12 months rainfall has been slightly below the normal range. December and March were below normal while June, November and February were above the normal range.

### Seasonal Review (Mar-Apr-May 2018)

Total rainfall for the last 3 months was 144.4 mm this amount was below the usual range (163-262mm). There were only two (2) days with slightly heavy rainfall during the last three (3) months. Occasional showers were produced by shallow clouds drifting with the brisk trade winds.

Small craft /high surf warnings were issued due to northerly swells and strong winds in March.

# The 2018 Atlantic Hurricane Season

The National Oceanic & Atmospheric Administration (NOAA) issued its predictions for the 2018 Atlantic Hurricane Season on May  $24^{\text{th}}$ : 10-16 named storms, 5-9 hurricanes and 1-4 Major hurricanes. This suggests a near normal to above normal season. An average season produces 12 named storms, 6 hurricanes and 3 major hurricanes.

No matter how many tropical cyclones are forecast to develop, there is no way to predict so many weeks or months in advance where a certain tropical cyclone is going to develop or what country will it make landfall. Remember, that it takes only one major hurricane to make landfall on our island to make it an active season for us.

The geographical location of our islands make us vulnerable to these forms of natural disasters consequently being prepared and well informed is key.

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	2018 Atlantic Storms Names		
	Alberto	Helene	Oscar
	Beryl	Isaac	Patty
	Chris	Joyce	Rafael
	Debby	Kirk	Sara
	Ernesto	Leslie	Tony
	Florence	Michael	Valerie
	Gordon	Nadine	William

The first tropical storm for the season formed on Friday May  $25^{th}$  over the northwestern Caribbean Sea. The next named storm will be Beryl.

Please note that all data was recorded at the Princess Juliana International Airport and may not necessarily reflect conditions at other points on country St Maarten.

# Summary of Forecast for June to August 2018

- Rainfall totals are expected to be lower than usual.
- Daytime temperatures are expected to be warmer than usual while night-time temperatures are forecast to be slightly cooler than in most recent years.
- Drought conditions expected to continue until the end of July however it is expected that by the end of August it will be alleviated.
- No thermal stress on coral expected by the end of July, possibility increases by the end of August

# Implication of Forecast for Sectors

## <u>Health</u>

- High temperature with increasingly humid air across the region increases the chances of heat waves towards August.
- There will be an increase in the risk of dehydration during the next 3 months which may present other associated symptoms such as weakness, dizziness, fainting etc.
- As temperatures increase vulnerable persons are to be monitored as the risk of morbidity from heat stress increases.

## **Energy Sector**

• Need for power for cooling will continue to increase this season as day-time temperatures are expected to be on the rise.

### **Tourism Sector**

- Fewer disruptions to outdoor activities as drier than usual conditions are expected this season.
- Increase demand for cooling & hydration particularly during the day-time hours.
- Tourists are encouraged to use sunscreen and seek shaded areas between the hours of 10am to 3pm to avoid risk of skin damage on sunny days.
- We are in the hurricane season; Tourism operators should monitor all advisories/ warning issued by the Meteorological Department.

#### **Agriculture**

- Drier than usual season is forecast therefore expect increased surface dryness and dry spells.
- Put irrigation plans in place and monitor for brush fires. Dry conditions may be alleviated by the end of August.

# **NORMAL JUNE CONDITIONS**

Rainfall Total	39.7 mm — 65.9 mm	2— 3 in.
Avg. No. of Rain days	10 days	
Daily Average Temperature	28.4ºC	83ºF
Avg. Max. Temperature	31.5°C	89ºF
Avg. Min. Temperature	26.1∘C	79∘F
Avg. Daily Hours of Sunshine	8 hrs	

# **Important Tips**

Naming of Storms began in the early 1950's. Every year there is a list of 21 names. There are six lists of 21 names which are being rotated and recycled every 6 years. That is, the list of names for 2017 will be used again in 2023, and the list for 2018 will be used again in 2024.

If one of the storms in any year is deadly or costly, that name is retired and a new name beginning with the same letter is selected. For example on the 2017 list 3 names have been retired they are 'Harvey, Irma and Maria'. Consequently on the 2023 list instead of Harvey it will be Harold; Idalia and Margot will replace Irma and Maria respectively.

In the event that in any year there are more than 21 named storms in the Atlantic additional names will be take from the Greek alphabet.

The last time this happened in the Atlantic was in 2005 when an additional 6 names were taken fro the Greek alphabet.

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