



# **FIFTEENTH SESSION OF THE NORTH AFRICA CLIMATE OUTLOOK FORUM**

## **PRESANORD-15**

### **SEASONAL FORECAST FOR JUNE-JULY-AUGUST 2021**

**Online session**

**June, 1<sup>st</sup> & 3<sup>rd</sup> 2021**

National Meteorological Service of Morocco

# SEASONAL OUTLOOK FOR SUMMER 2021

Consensual seasonal forecast for boreal summer (June-July-August 2021) over the North Africa region has been produced during the fifteenth session of North Africa Climate Outlook Forum (PRESANOD-15) conducted online on June 1<sup>st</sup> and 3<sup>rd</sup> 2021 in conjunction with the seventh session of the Arab Climate Outlook Forum (ArabCOF-7) and the fourth session of the Gulf Cooperation Council Climate Outlook Forum (GCCCOF-4). It is based on known teleconnections of large and regional patterns as well as on dynamical and statistical model outputs.

## I. RECENT CLIMATE CONDITIONS AND OUTLOOK

Most of the key atmospheric and oceanic variables in the tropical Pacific indicate the end of La Nina during late spring and return to ENSO-neutral conditions. According to the recent WMO El Nino/La Niña Update, most of dynamical and statistical models indicate that ENSO-neutral conditions are likely to continue during boreal summer<sup>1</sup>. Sea-surface temperatures are expected to be near normal over Tropical Atlantic and Indian Ocean for JJA 2021. The IOD index reflects near-neutral conditions and is predicted to continue being neutral during JJA 2021<sup>2</sup>.

It is worth noting that seasonal forecast gives average tendencies for a season and in some cases sub-seasonal fluctuations can prevail.

## II. SEASONAL OUTLOOK

Given the current oceanic and atmospheric patterns, knowledge and understanding of seasonal climate variability and available long-range forecasts, the following seasonal outlook has been developed for JJA 2021 across North Africa region.

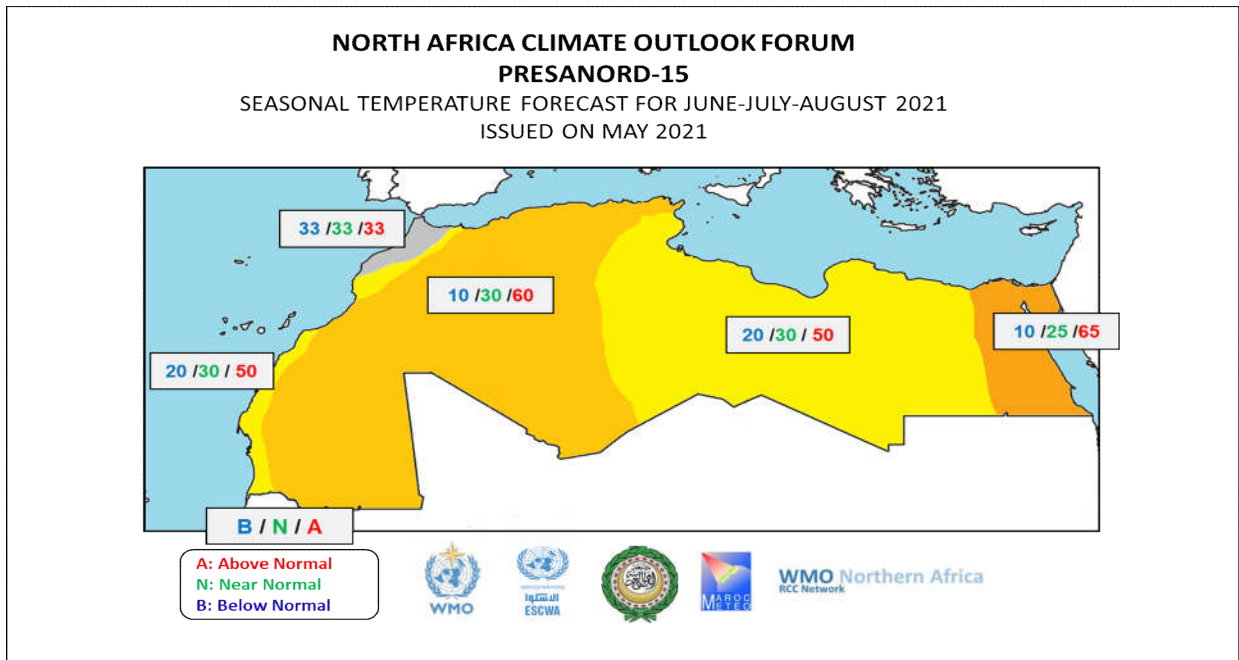
The maps show the probabilistic consensus forecast for 3 categories of anomalies for seasonal mean temperature and total precipitation.

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<sup>1</sup> [WMO El Nino/La Niña Update](#)

<sup>2</sup> WMO Global Seasonal Climate Update JJA 2021

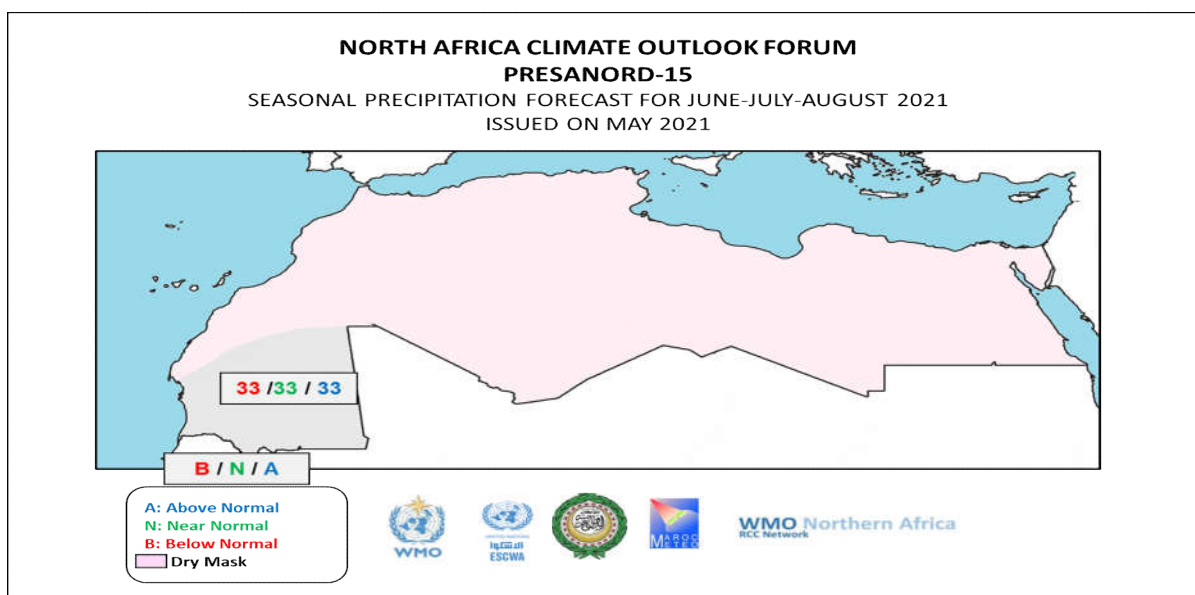
- **TEMPERATURE**



**Figure 1: Seasonal forecast of mean temperature for JJA 2021**

During JJA 2021, temperatures are likely to be above normal over almost all North Africa countries with a higher probability of warmer than normal conditions over Eastern Egypt (Fig.1). An equal chance between the three temperature categories (above normal, near normal and below normal) is given over Northwest of Morocco.

- **PRECIPITATION**



**Figure 2: Seasonal forecast of precipitation for JJA 2021**

A dry mask (Fig.2) is applied over most of the North African countries (shaded pink) given that JJA is climatologically very dry season. For the remaining area, there is an equal chance between the three precipitation categories (above normal, near normal and below normal) over Most of Mauritania during JJA 2021 (Fig.2).