









EIGHTEENTH SESSION OF THE NORTH AFRICA CLIMATE OUTLOOK FORUM

PRESANORD-18

SEASONAL FORECAST FOR DECEMBER-JANUARY-FEBRUARY 2022/2023

Online session

December, 1st & 5th , 2022

SEASONAL OUTLOOK FOR WINTER 2022/2023

Consensual seasonal forecast for boreal winter (December-January-February 2022/2023) over the North Africa region has been produced during the eighteenth session of North Africa Climate Outlook Forum (PRESANOD-18) conducted online on December 1st&5th 2022 in conjunction with the tenth session of the Arab Climate Outlook Forum (ArabCOF-10) and the seventh session of the Gulf Cooperation Council Climate Outlook Forum (GCCCOF-7). 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 La Nina conditions. A set of dynamical and statistical models shows the continuation of La Nina through winter (with more than 70%) with a transition to ENSO-neutral conditions during February-March-April 2023(55% chance). Seasurface temperatures over North Tropical Atlantic are expected to be near normal for DJF 2022/2023. The IOD index reflects the negative phase and is predicted to shift to neutral conditions for December-January-February 2022/2023.

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 DJF2022/2023 across North Africa region.

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

• TEMPERATURE

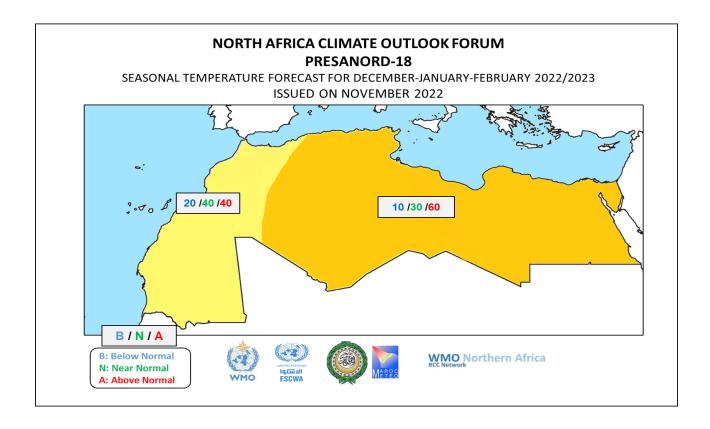


Figure 1: Seasonal forecast of mean temperature for DJF 2022/2023

During DJF 2022/2023, temperatures are likely to be above normal over almost all North Africa countries. Normal to above normal conditions are expected over Morocco, Western Algeria and Mauritania (Fig.1).

PRECIPITATION

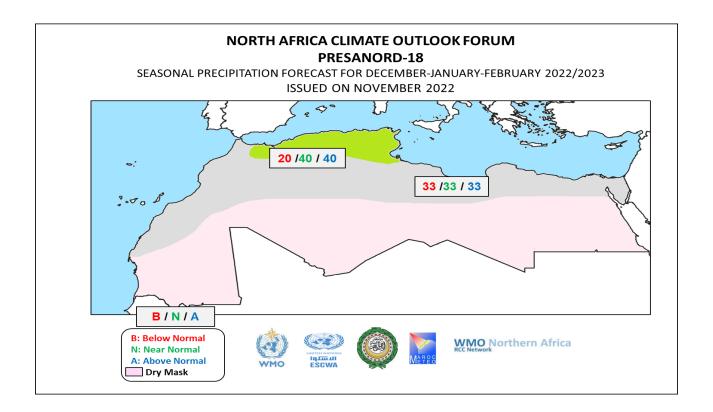


Figure 2: Seasonal forecast of precipitation for DJF 2022/2023

For DJF2022/2023, total precipitation during DJF 2022/2023 is expected to be normal to above normal over Northeastern Morocco, Northern Algeria, most of Tunisia and Northwestern Libya. A dry mask is applied over most of Mauritania, southern Algeria, southern Libya, southern Egypt and Sudan (shaded pink) given that DJF over these areas is climatologically dry season. No special scenario is favored over the remaining area (Fig.2).