



**ELEVENTH SESSION OF THE ARAB
CLIMATE OUTLOOK FORUM**

**SEASONAL FORECAST FOR JUNE-JULY-AUGUST
2023**

Online session

June 5th, 2023

SEASONAL OUTLOOK FOR SUMMER 2023

Consensual seasonal forecast for boreal summer (June-July-August 2023) over the Arab region has been produced during the eleventh session of the Arab Climate Outlook Forum (ArabCOF-11) conducted online on June 5th, 2023, in conjunction with the nineteenth session of North Africa Climate Outlook Forum (PRESANOD-19) and eighth session of the Gulf Cooperation Council Climate Outlook Forum (GCCCOF-8). It is based on known teleconnections of global and regional patterns as well as on dynamical and statistical model outputs.

ArabCOF operates as an overarching entity in support of two other sub-regional COFs in the region, PRESANORD (RCOF for North Africa) and the Gulf Cooperation Council Climate Outlook Forum (GCCCOF) and, it focuses on the large-scale forcings, such as the North Atlantic Oscillations (NAO), El Niño–Southern Oscillation (ENSO) and Indian Ocean Dipole (IOD), that affect the whole region.

I. RECENT CLIMATE CONDITIONS AND OUTLOOK

Most of the key atmospheric and oceanic variables in the tropical Pacific indicate the transition to El Niño conditions for the three upcoming. Sea-surface temperatures over North Tropical Atlantic and Mediterranean Sea are expected to be above normal for JJA 2023. The IOD index reflects a slightly positive phase and is predicted to continue being positive during JJA 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, the knowledge and understanding of seasonal climate variability and available long-range forecasts, the following seasonal outlook has been developed for JJA 2023 across Arab region.

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

- **TEMPERATURE**

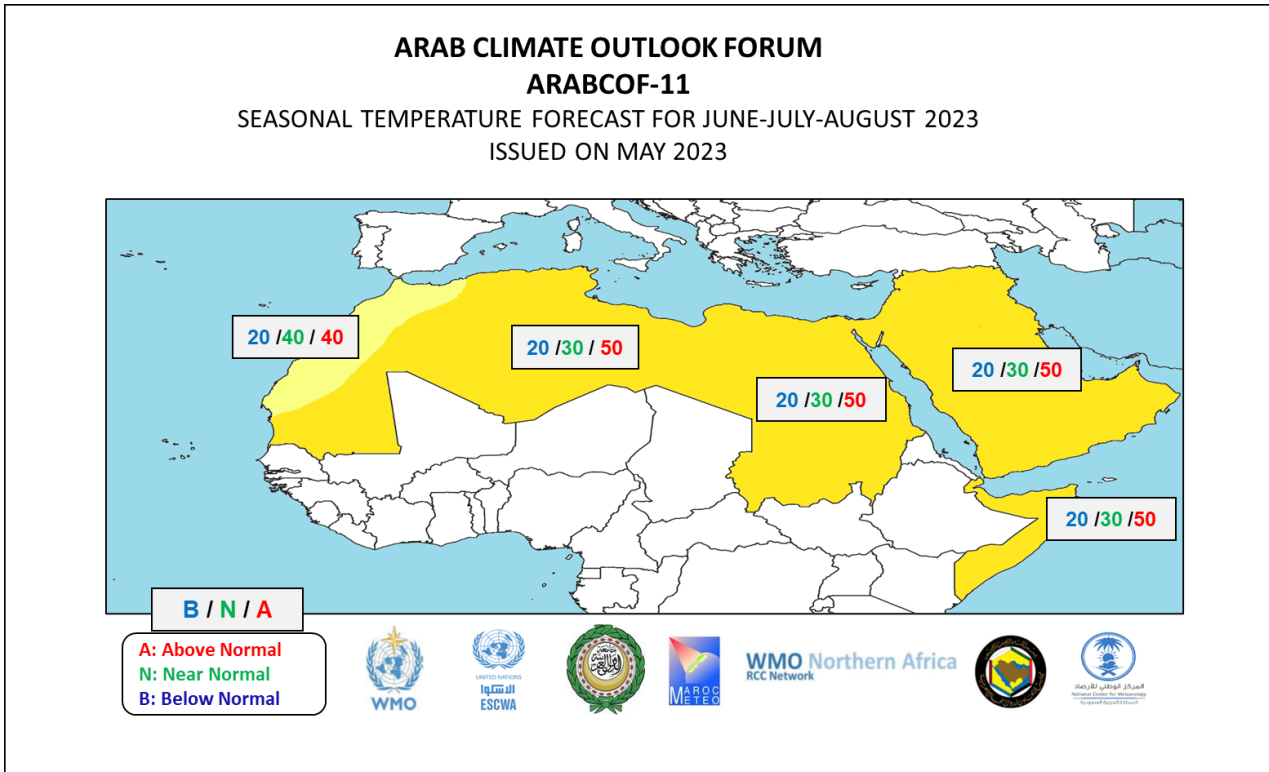


Figure 1: Seasonal forecast of mean temperature for JJA 2023

During JJA 2023, temperatures are likely to be above normal over the entire Arab region. Specifically, normal to above normal temperatures are expected over Morocco and Northwestern Algeria (Fig.1).

- **PRECIPITATION**

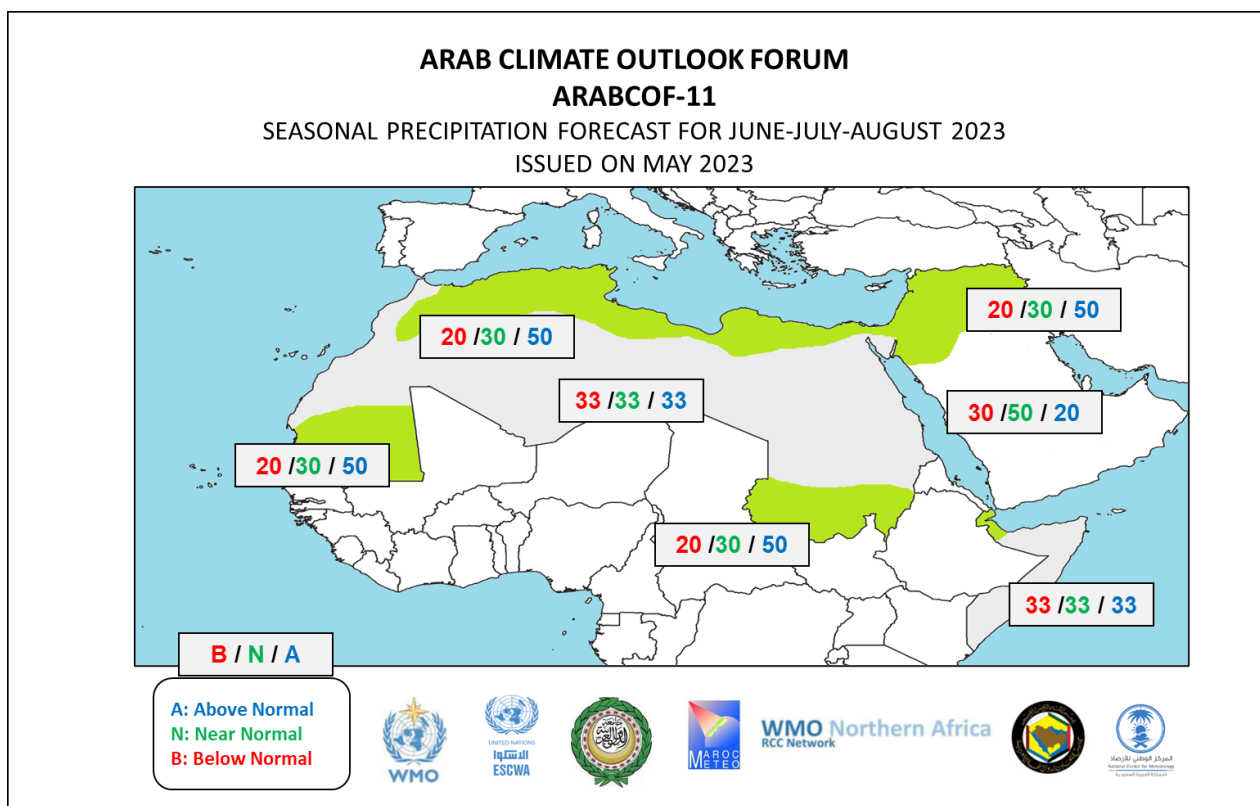


Figure 2: Seasonal forecast of precipitation for JJA 2023

During JJA 2023, total precipitation is expected to be above normal over Northeastern Morocco, most of Mauritania, Northern Algeria, most of Tunisia, Northern Libya, Northern Egypt, Levant countries, Northwestern Saudi Arabia, Southern Sudan and Djibouti. Near normal conditions are predicted over Arabian Peninsula. No special scenario is given over the remaining Arab region (Fig.2).