SEASONAL FORECAST OUTLOOK for North Africa

September-October-November 2017 issued August 2017

Seasonal forecast outlook for North Africa RCC domain is based on the ARPEGE-Climat coupled model output jointly with seasonal forecasts issued from ECMWF, UK Met-Office and IRI. The ARPEGE-Climat v5.2 coupled model is running at MAROC-METEO super-computer each month to elaborate seasonal ensemble forecasts. Sets of 27 forecasts are initialized by 9 atmospheric analysis, taken from ECMWF database, and 3 ocean analysis (PSY2G3R3) issued from MERCATOR center.

We also try to exploit the sources of predictability contained in the sea surface temperature (SST) by statistical methods when it is possible. We note, however, that this influence is not the same from one region to another or throughout all the year.

NB: All dynamical forecasts are experimental.

Synthesis:

The analysis of current circulation, sea surface temperature, ENSO phenomenon and dynamical/statistical models outputs show probably for September-October-December 2017:

- For temperature:
  - Normal to above normal conditions over Morocco and Egypt.
  - Above normal conditions over Algeria, Tunisa and Libya,.
- For precipitation:
  - Normal to below normal conditions over Morocco and Egypt.
  - Below normal conditions over Algeria.
  - No special scenario over Tunisia and Libya.

Tables summarizing seasonal forecast for September-October-November 2017

1. Seasonal temperature forecast

Model/multi-model	Morocco	Algeria	Tunisia	Libya	Egypt
ARPEGE-Climat	🟦 Coast 🟧 E&S	🟦 Coast 🟧 Elsewhere	🟦 Coast 🟧 Elsewhere	🟦 C&E 🟧 Elsewhere	🟦
ECMWF	🟧 Almost Morocco	🟧	🟧	🟧	🟧
UK Met-Office	🟧	🟧	🟧	🟧	🟩 to 🟧
IRI	⬜	🟧 SE ⬜ Elsewhere	🟧 N ⬜ Elsewhere	🟧 S&E ⬜ Elsewhere	🟧 S ⬜ Elsewhere
Statistical Model	🟧	🟧	🟧	🟧	🟧
Synthesis	**Probably normal to above normal conditions**	**Probably above normal conditions**	**Probably above normal conditions**	**Probably above normal conditions**	**Probably normal to above normal conditions**

Legend

🟦 **Below-Normal**   🟩 **Normal**   🟧 **Above-Normal**

⬜ **No special scenario**

N :North ; S:South ; W:West ; E:East ; C:Center

2. Seasonal precipitation forecast

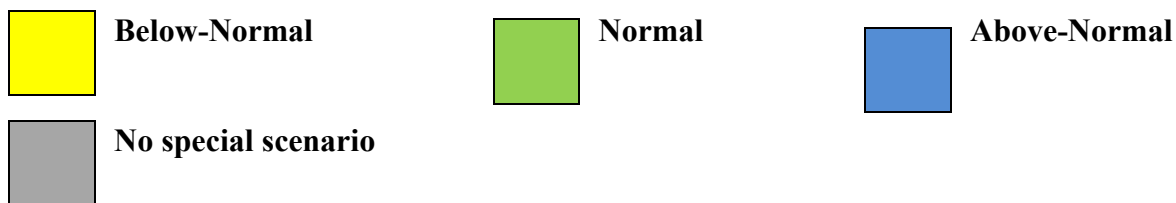| Model/multi-model	Morocco	Algeria	Tunisia	Libya	Egypt
ARPEGE-Climat	■ (yellow)	■ (yellow)	■ (yellow)	■ (yellow)	■ (yellow)
ECMWF	■ NE (yellow) ■ (grey)	■ (grey)	■ (grey)	■ (grey)	■ S (yellow) ■ Elsewhere (grey)
UK Met-Office	■ N (green) ■ Elsewhere (grey)	■ Almost Algeria (yellow)	■ (grey)	■ (grey)	■ S (yellow) ■ Elsewhere (grey)
IRI	■ C&E (blue) ■ Elsewhere (grey)	■ S (blue) ■ Elsewhere (grey)	■ S (yellow) ■ Elsewhere (grey)	■ N (yellow) ■ Elsewhere (grey)	■ NW (yellow) ■ Elsewhere (grey)
Synthesis	**Probably normal to below normal conditions**	**Probably below normal conditions**	**No special scenario**	**No special scenario**	**Probably normal to below normal conditions**

Legend

■ **Below-Normal**   ■ **Normal**   ■ **Above-Normal**

■ **No special scenario**

N: North; S: South; W: West; E: East; C: Center