Royaume du Maroc

Ministère délégué auprès du Ministre
de l'Energie des Mines de l'Eau et de
l'Environnement, chargé de l'Eau
Direction de la Météorologie Nationale

المملكـــة المـغربيــة

الوزارة المنتــدبة لــدى وزير
الطـاقـة و المعـــادن و المـــاء و الــبيئــة
المكـلفة بالمـــاء
مديـــرية الأرصاد الجويــــة الوطنيـــة

SEASONAL FORECAST OUTLOOK for North Africa

June-July-August 2017 issued May 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 June-July-August 2017:

- For temperature:
    - Normal to above normal conditions over Morocco.
    - Above normal conditions over Algeria, Tunisia , Libya and Egypt.

*NB: **Precipitation forecasts are given for September to May (the main rainy season). Temperature forecasts are given for January to December**.*

Tables summarizing seasonal temperature forecast for June-July-August 2017

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

Legend

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

⬜ **No special scenario**
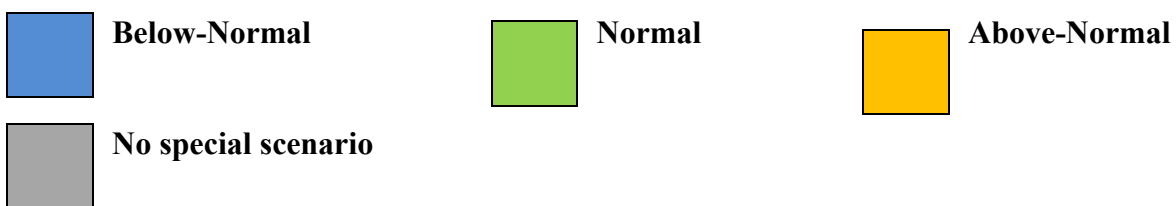
N :North ; S:South ; W:West ; E:East ; C:Center