

Royaume du Maroc

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



المملكة المغربية
الوزارة المنتدبة لدى وزير
الطاقة و المعادن و الماء و البيئة
المكلفة بالماء
مديرية الأرصاد الجوية
الوطنية

SEASONAL FORECAST OUTLOOK BULLETIN FOR May-June-July 2014 IN NORTH AFRICA

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 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: 1. New: Since March 2014, statistical forecasts are elaborated for the outlooks especially for seasons showing interesting scores.

2. A new version of ARPEGE-Climat model with high and variable resolution (between 55km and ~100km over North Africa RCC domain) is operational at Maroc-Météo from January 2014

Synthesis:































The analysis of SST anomalies, knowledge of climate variability of North Africa and seasonal forecast issued from dynamical and statistical models show probably for temperature in MJJ 2014:

- ✚ Normal to above normal conditions northern Morocco
- ✚ Above normal conditions over Algeria, Tunisia, Libya and Egypt

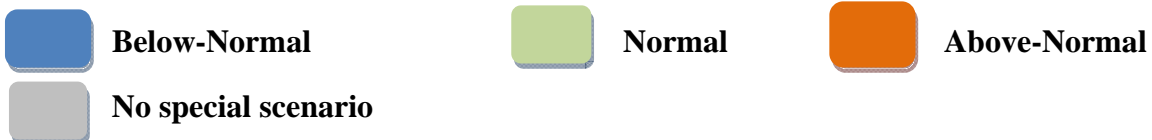
NB: Precipitation forecasts are given for September to May (the main rainy season).
Temperature forecasts are given for January to December.

**Tables summarizing seasonal forecast for May-June-July 2014
in North Africa**

1. Seasonal temperatures forecast

| Model/multi-model | Morocco | Algeria | Tunisia | Libya | Egypt |
|--------------------------|--|--|--|--|---|
| <i>ARPEGE-Climat</i> |  N  S |  |  |  C  Elsewhere |  |
| <i>ECMWF</i> |  N  S |  E  W&N |  |  |  |
| <i>UK Met-Office</i> |  |  E  W |  |  |  |
| <i>IRI</i> |  |  |  |  |  |
| <i>Statistical model</i> |  |  W&N |  |  |  |
| Synthesis | Probably normal to above normal conditions in the north | Probably above normal conditions | Probably above normal conditions | Probably above normal conditions | Probably above normal conditions |

Legend



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