

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 for North Africa SEPTEMBER-OCTOBER-NOVEMBER 2015 issued August 2015

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-November 2015 :

- For temperature:
 - ✚ Normal conditions over Morocco
 - ✚ Normal to above normal conditions over Algeria and Tunisia
 - ✚ Above normal conditions over Libya and Egypt
- For precipitation:
 - ✚ Normal conditions over Morocco except the oriental where normal to above normal are likely
 - ✚ Normal to above normal conditions over Algeria, Tunisia, Libya and Egypt

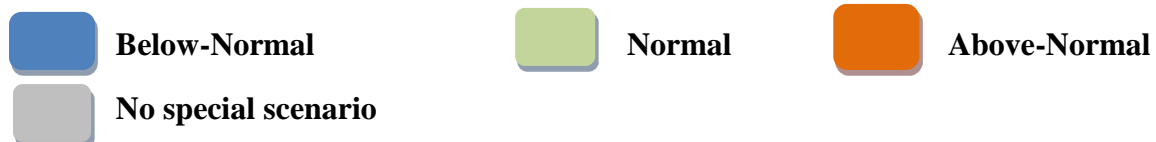
NB: Precipitation forecasts are given for September to May (the main rainy season). Temperature forecasts are given for January to December.

Tables summarizing seasonal forecast for September-October-November 2015

1. Seasonal temperature forecast



























| Model/multi-model | Morocco | Algeria | Tunisia | Libya | Egypt |
|--------------------------|--|---|--|---|---|
| <i>ARPEGE-Climat</i> |  |  |  |  NW  Elsewhere |  |
| <i>ECMWF</i> |  Atlas mountains  Elsewhere |  SE  Elsewhere |  N  S |  |  |
| <i>UK Met-Office</i> |  |  |  |  |  |
| <i>IRI</i> |  |  |  |  |  |
| <i>Statistical model</i> |  |  |  |  |  |
| Synthesis | Probably normal conditions | Probably Normal to above normal conditions | Probably Normal to above normal conditions | Probably above normal conditions | Probably above normal conditions |

Legend







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

2. Seasonal precipitation forecast

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

Legend

| | | |
|---|--|--|
|  Below-Normal (B) |  Normal (N) |  Above-Normal(A) |
|  No special scenario | | |

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