Outlines

Introduction

Model Forecast

Conclusion

Acknowledgement

ESCWA

WMO OMM

WMO Northern Africa
RCC Network

VERIFICATION SEASONAL FORECAST OUTLOOK OVER ARAB REGION

EMA

Egyptian
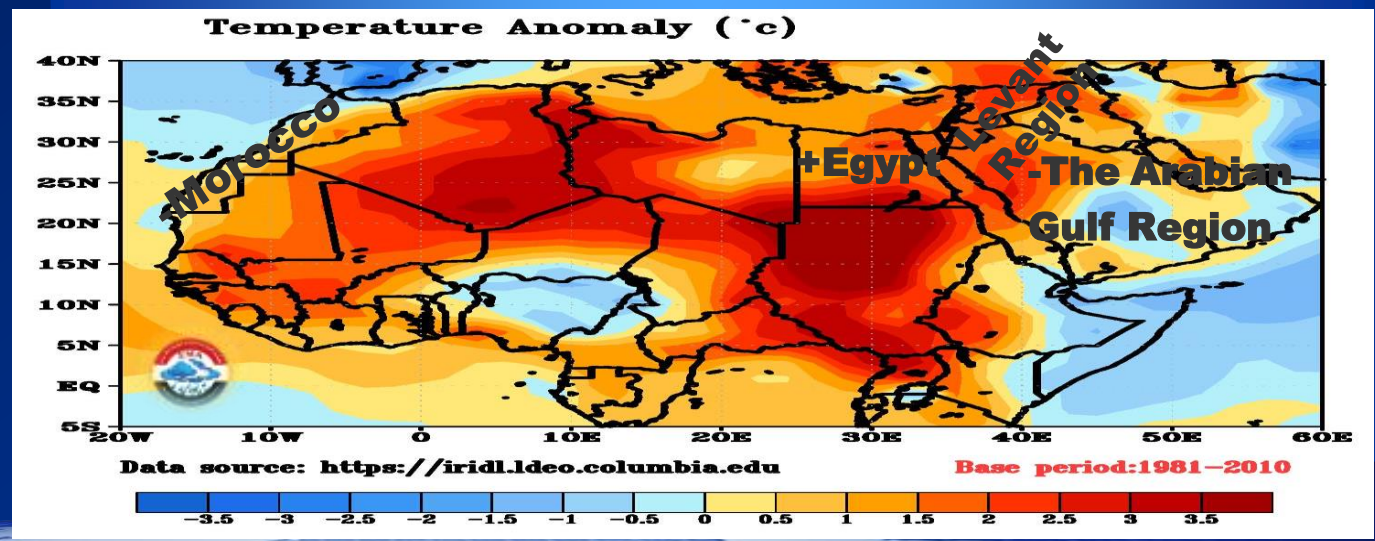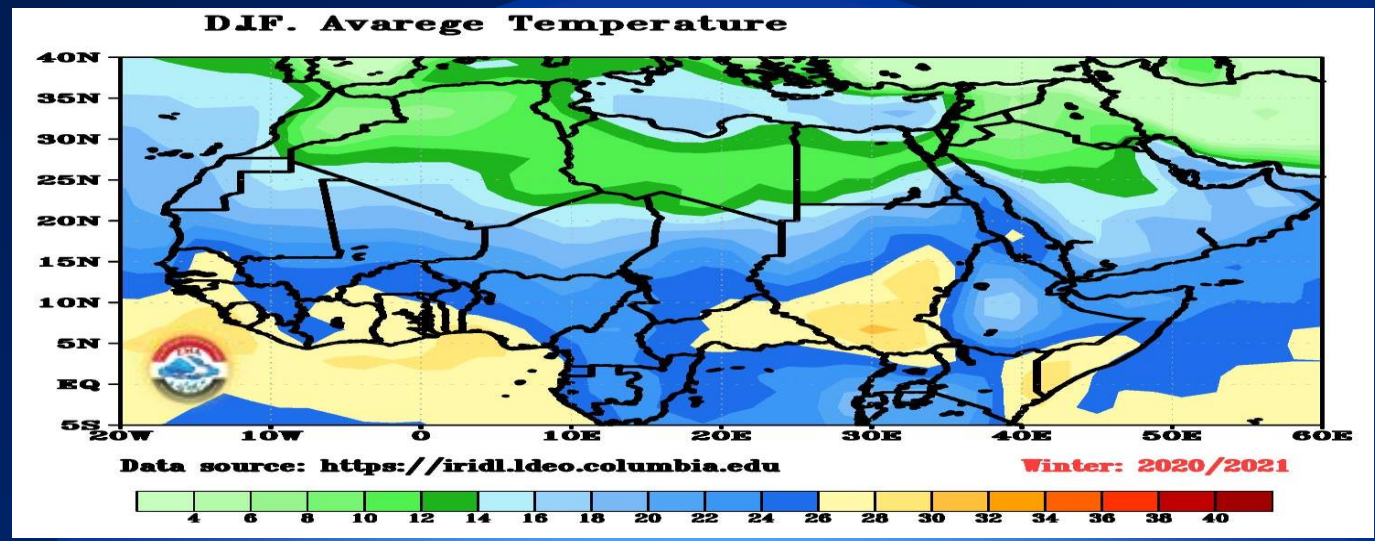Meteorological
Authority (EMA)

Introduction

Forecast verification is an essential component of seasonal climate forecasting: without information about the quality of the forecasts how is anybody to know whether to believe them ? It is very easy to make a forecast ,but it is much harder to make a good forecast, and so the onus is on the forecaster to demonstrate that his/her forecasts are worth listening to. However, the question: "Are these forecasts good?" does not usually have a simple "yes" or "no" answer for a number of reasons. Firstly, forecast quality is not a simple binary quantity: it is perfectly reasonable to ask how good (or bad) the forecasts are rather than just whether they are good or bad. Secondly, forecast quality is not a simple univariate quantity: forecasts can be "good" in a number of different ways, and so forecasts A may be better than forecasts B in some ways but not in others. Hence fairly detailed information about the quality of forecasts can be determined, and it is possible to go beyond asking "Can these forecasts be believed?" to address questions such as "How can these forecasts best be used?" and "How can these forecasts be improved?"

Temperature of the winter season 2020/2021

DJF 2020/21 WINTER TEMPERATURE

DJF. Avarege Temperature

Data source: https://iridl.ldeo.columbia.edu

Winter: 2020/2021

Temperature Anomaly (˚c)

Morocco

+Egypt

Levant Region

-The Arabian Gulf Region

Data source: https://iridl.ldeo.columbia.edu
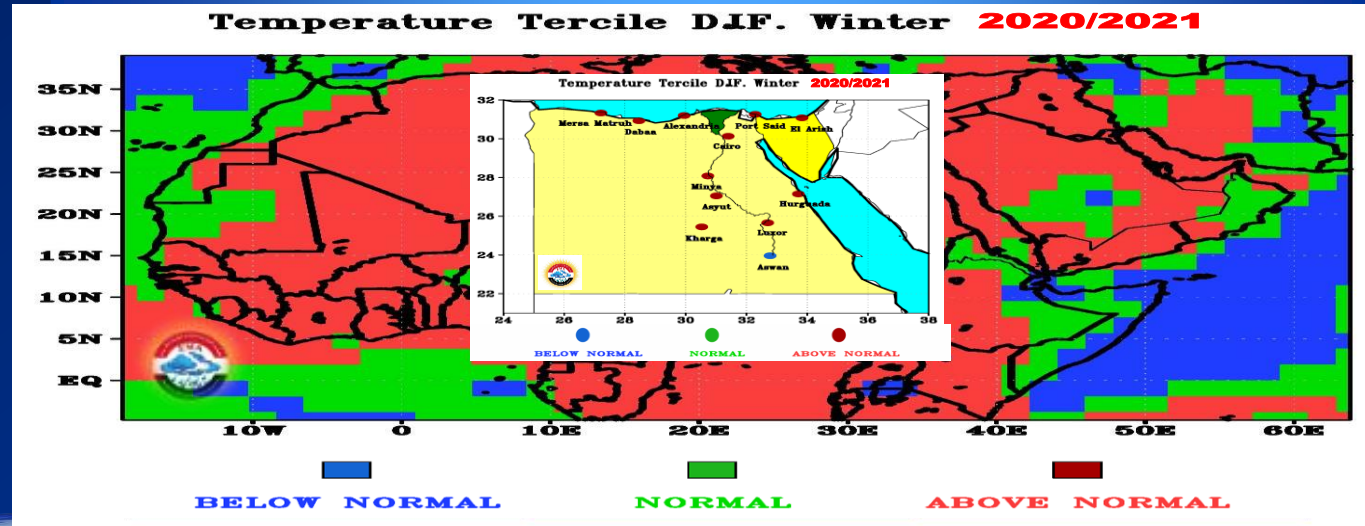
Base period:1981−2010

VERIFICATION SEASONAL FORECAST winter 2020/2021 OUTLOOK OVER ARAB REGION

DJF 2020/21 WINTER TEMPERATURE

conducts seasonal forecast
in 3 categories : Above ,
Near, and Below Normal

ARAB CLIMATE OUTLOOK FORUM
ARABCOF-6
SEASONAL TEMPERATURE FORECAST FOR DECEMBER2020-FEBRUARY2021
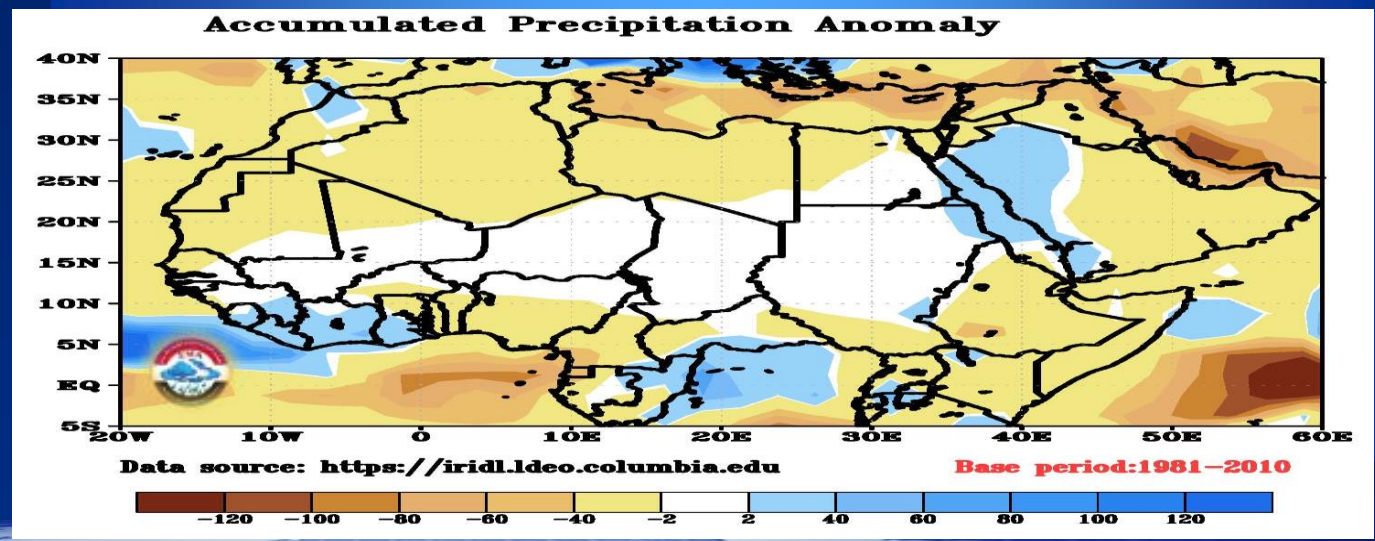ISSUED ON NOVEMBER 2020

B: Below Normal
N: Near Normal
A: Above Normal
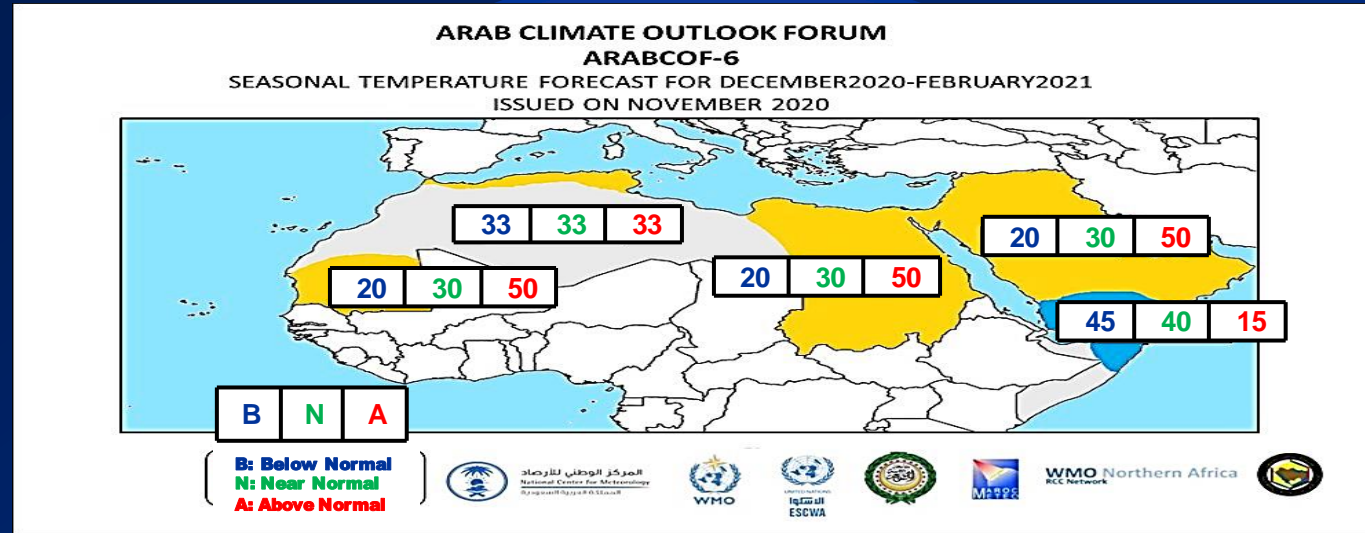
DJF 2020/21 WINTER TEMPERATURE

conducts reanalysis
in 3 categories : Above ,
Near, and Below Normal

Temperature Tercile DJF. Winter 2020/2021

BELOW NORMAL   NORMAL   ABOVE NORMAL

Precipitation of the winter season 2020/2021

DJF 2020/21 WINTER PRECIPITATION

DJF. Accumulated Precipitation (mm)

Data source: https://iridl.ldeo.columbia.edu

Winter: 2020/2021

Accumulated Precipitation Anomaly

Data source: https://iridl.ldeo.columbia.edu

Base period:1981−2010

VERIFICATION SEASONAL FORECAST winter 2020/2021 OUTLOOK OVER ARAB REGION

DJF 2020/21 WINTER PRECIPITATION
conducts seasonal forecast
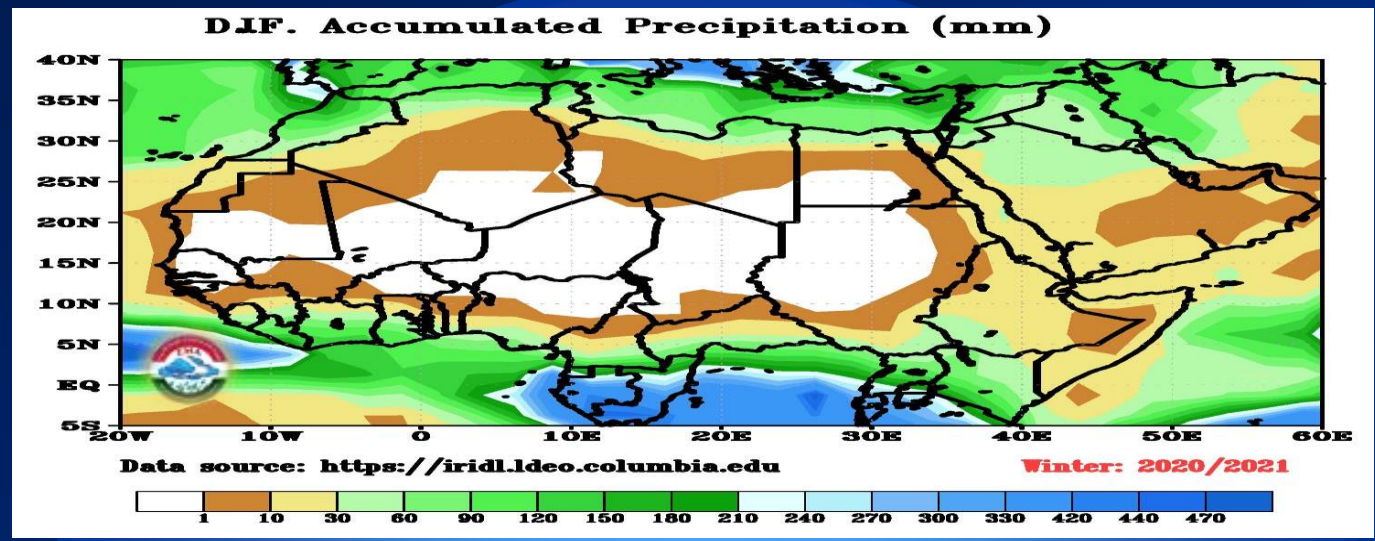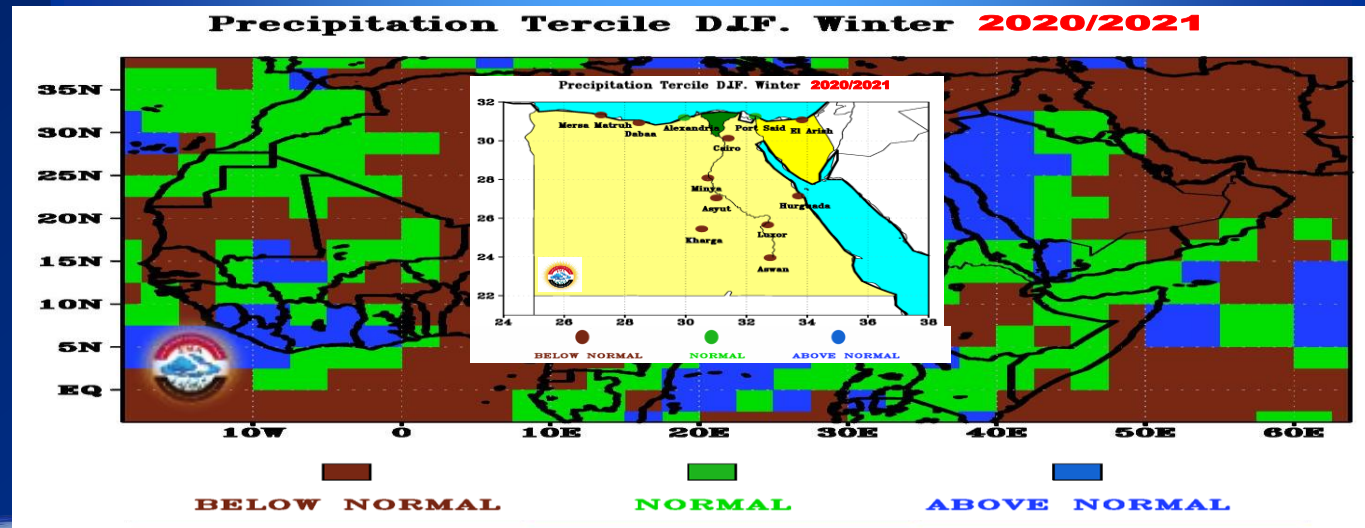in 3 categories : Above ,
Near, and Below Normal

ARAB CLIMATE OUTLOOK FORUM
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SEASONAL PRECIPITATION FORECAST FOR DECEMBER 2020-FEBRUARY 2021
ISSUED ON NOVEMBER 2020

33	33	33
50	30	20
33	33	33
50	30	20

| B | N | A |

B: Below Normal
N: Near Normal
A: Above Normal

WMO Northern Africa
RCC Network

DJF 2020/21 WINTER PRECIPITATION
conducts reanalysis
in 3 categories : Above ,
Near, and Below Normal

Precipitation Tercile DJF. Winter 2020/2021

Precipitation Tercile DJF. Winter 2020/2021

Mersa Matruh, Dabaa, Alexandria, Port Said, El Arish, Cairo, Minya, Asyut, Hurguada, Kharga, Luxor, Aswan

BELOW NORMAL   NORMAL   ABOVE NORMAL

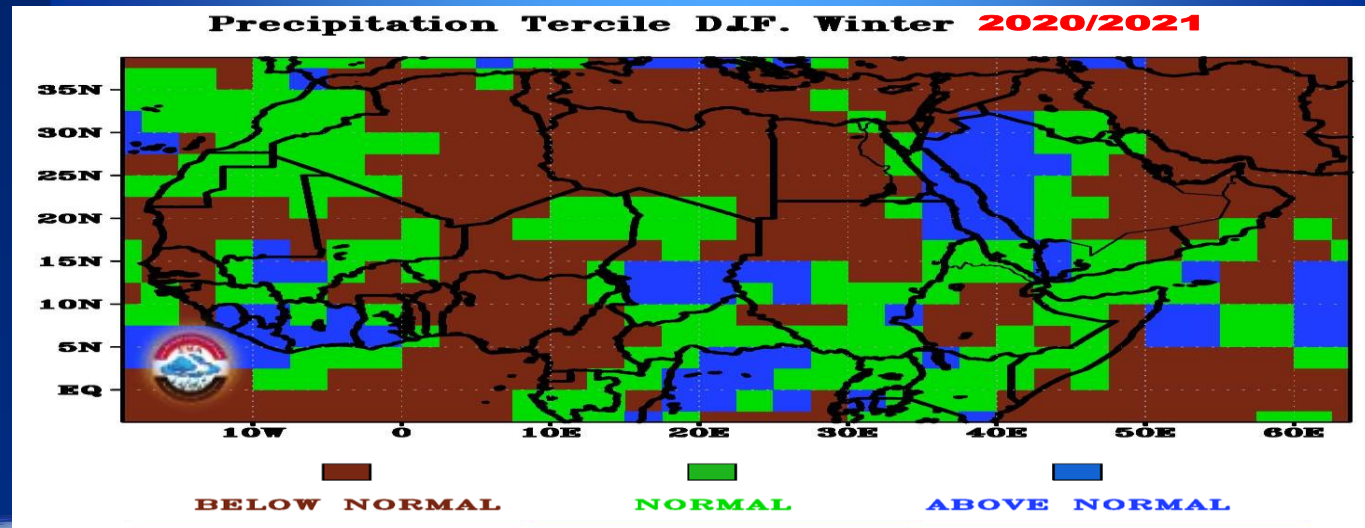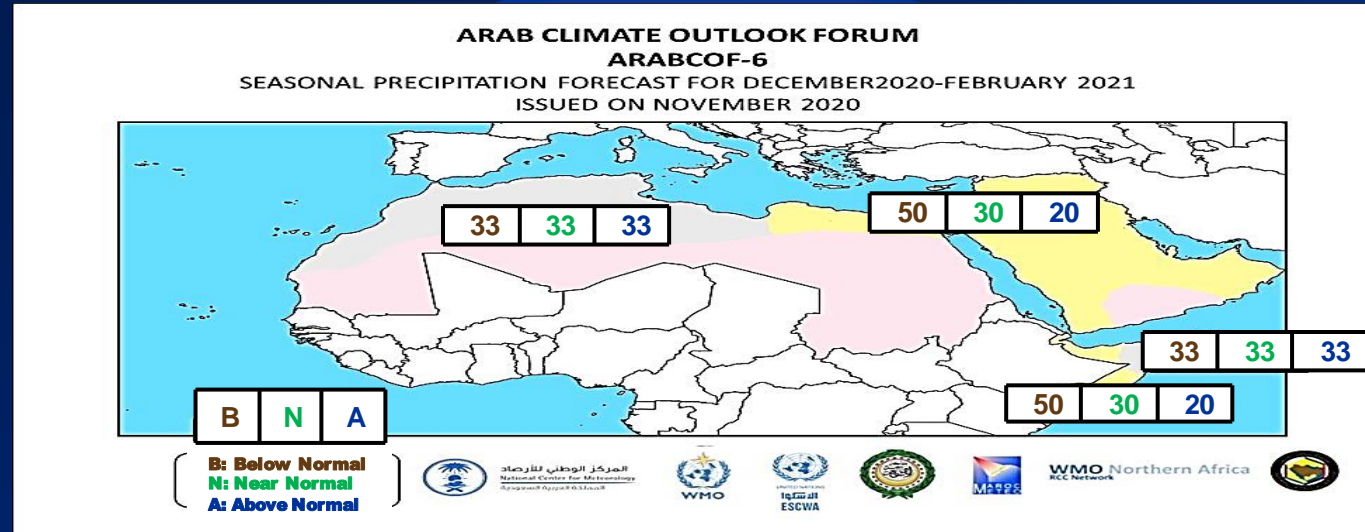BELOW NORMAL   NORMAL   ABOVE NORMAL

VERIFICATION SEASONAL FORECAST winter 2020/2021 OUTLOOK OVER ARAB REGION

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Precipitation Tercile DJF. Winter 2020/2021

BELOW NORMAL   NORMAL   ABOVE NORMAL

VERIFICATION SEASONAL FORECAST WINTER 2020/2021

Table (1)	Seasonal temperature (DJF 2020/2021)				Seasonal precipitation (DJF 2020/2021)			
	Observed (1981-2010) as climatological reference			climate outlook of seasonal forecast for temperature	Observed (1981-2010) as climatological reference			climate outlook of seasonal forecast for precipitation
Country	B	N	A		B	N	A	
Egypt	B (S) Aswan	-	A	A	B (N)	-	-	B
Libya	-	-	A	A (E) & - (W)	B	-	-	-
Algeria	-	-	A	A(N) & -	B (E)	N (W)	-	-
Tunisia	B	-	A	A(N) & -	B	-	-	-
Morocco	-	N (W)	A (E)	-	-	N	-	-
Maritain	-	N (E)	A (W)	A	B (S)	N (N)	-	-
Soudan	-	-	A	A	B	-	-	-
The Levant Region	-	-	A	A	B (N)	N (S)	-	B
The Arabian Gulf Region	-	N (S) Saudi &Oman	A	A	B (E)	N (C)	A(W)	B
Yemen	-	-	A	B	B (E)	N (W)	-	-
Somalia	B(E)	N (W)	A	B(N) & -	B (N)	N (S)	-	B (S) & - (N)