



# PRESANORD PROPOSAL

## Roadmap On Objective Seasonal Forecast

WMO

North Africa Regional Climate Centre  
NA RCC-Network

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### Climate Products

Long Range Forecast 

[Seasonal Outlook](#)  
[Model Prediction](#)  
[Verification \(hindcast\)](#)  
[Subseasonal Forecast](#)

**PRE-COF SESSION, MEDCOF-16, May,25th,2021**

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# Objective Steps towards OSF

## ❑ **Identifying the climate variability of the region:**

Seasonal Forecast <== Comparison to the climatology

## ❑ **Identifying the main action centers impacting the region** (such as the Saharan depression, Acores High..) as well as climate drivers and possible impacts

-Capitalize on what already exists through:

- a review of the climate drivers impacting the region
- Try to identify how to combine the information issued from climate drivers ( Explore new techniques of artificial intelligence )

## ❑ **Explore the range of models available either via copernicus or WMO-LRFMME**

(Meeting with Ernesto and Esteban) by doing either:

- Correction / calibration of models
- Selection of relevant models for the region (for this we can benefit from products from MEDSCOPE toolbox)
- Multimodel Ensemble weighting
- Downscaling of climate models

## Objective Steps towards OSF

- ❑ **Produce relevant information for climate services** depending on the season and the area  
*For instance* :soil moisture and forest fire index for Summer season and the start of the rainy season for Winter
- ❑ **Promote the Objective Seasonal Forecast work** on the Mediterranean region through a scientific paper or document

# Challenges to OSF

## ❑ **Non perfect models**

The forecast cannot be 100% objective <== Relying on experience of regional experts

## ❑ **Combination of information from climate models and climate drivers** (especially when scenarios issued from climate models and drivers are diverging )

➔ The way to proceed is subjective, based on the experience on the expert.

# Conclusion

- Finally, **trying to standardize the methodology** of the seasonal forecast that allows to provide enough **relevant tools** will help to **improve the quality** of the seasonal forecast  
**But**, the forecast cannot be in any way 100% objective given the imperfect nature of climate models  
→ This is the **added value of Human** comparing to machines

THANKS 😊