



# Climate monitoring and assessment of the current state of climate

RCC-NA-Climate Monitoring node  
National Institut of Meteorology



**ArabCOF7**

**1 juin 2021**

## Climate Monitoring : April 2021

The following monitoring summary is based on climate monitoring working reports from:

WMO RA VI RCC-CM Node; **Deutscher Wetterdienst (DWD), Germany**

WMO RA VI RCC-LRF Node, **Meteo- France (M-F), France**

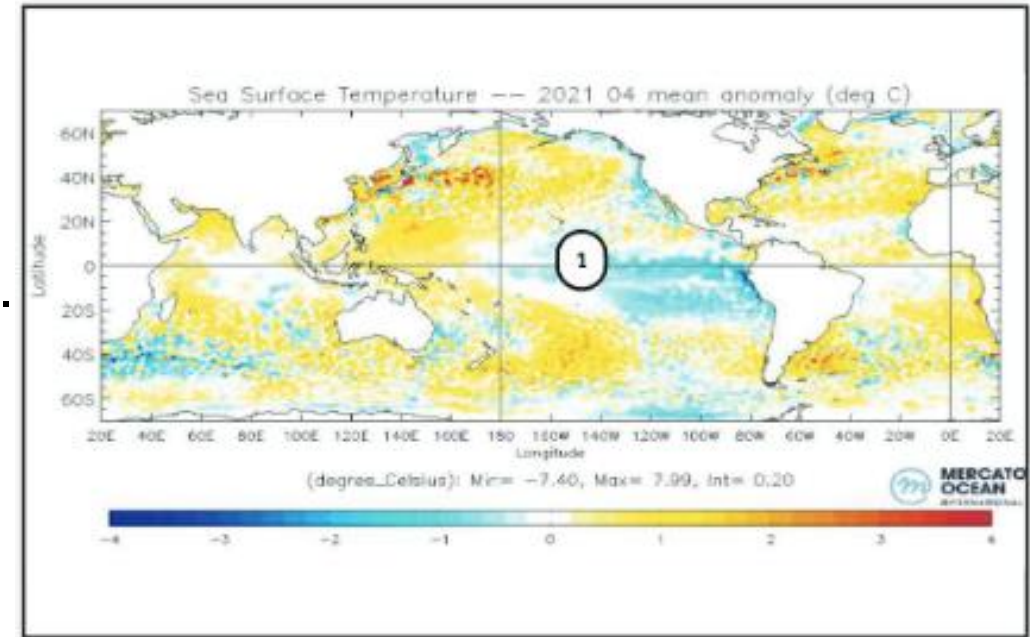
WMO RA I North Africa RCC-CM Node ; **National Institut of Meteorology (INM), Tunisia**

Unfortunately the RCC-NA products are not updated due to engineers' strike since March

# Oceanic Analysis

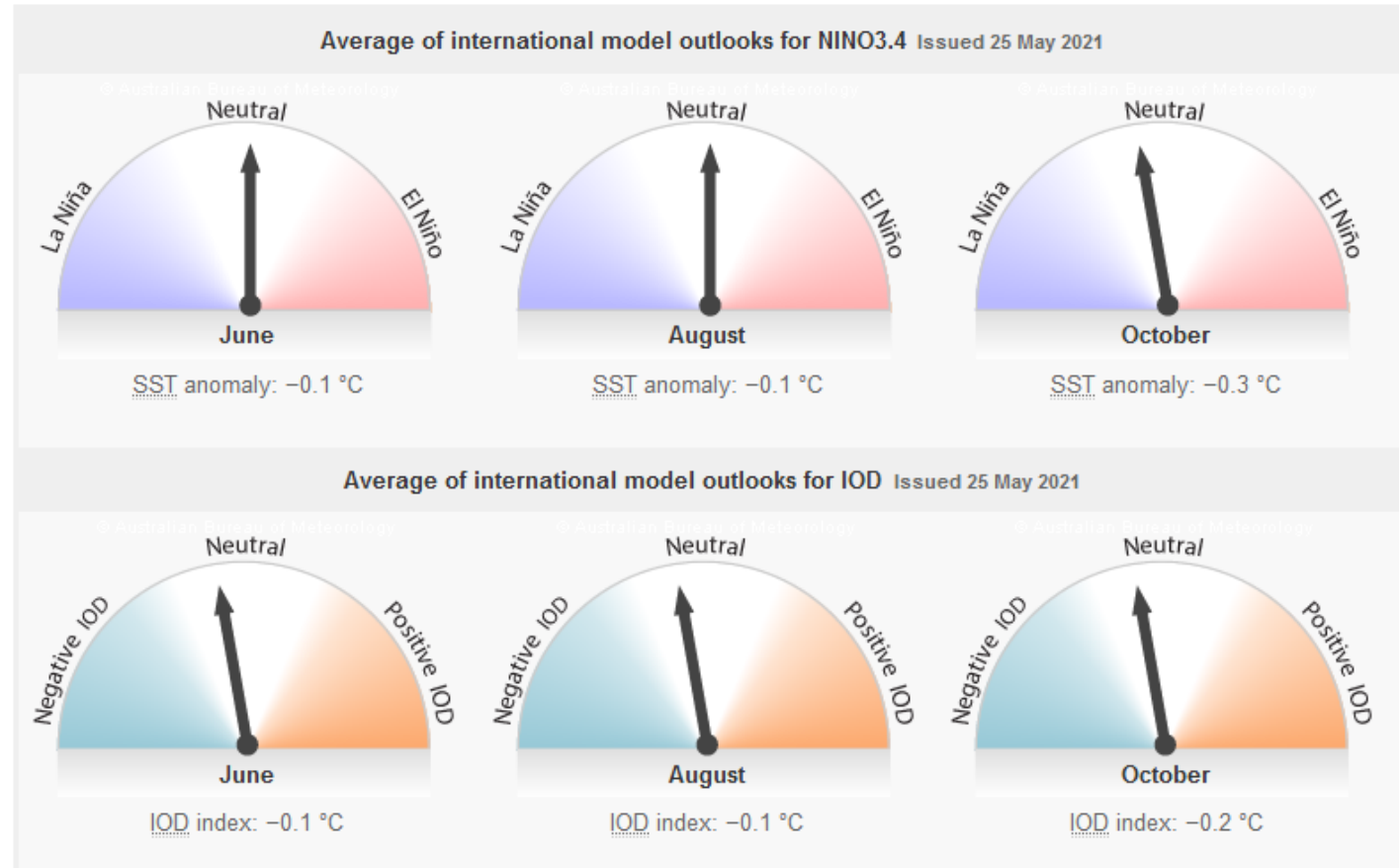
**In the Pacific Ocean:  
According to Mercator: “La Niña” almost neutral:**

The El Niño–Southern Oscillation (ENSO) remains neutral. Climate model outlooks show this neutral ENSO state is likely to continue for at least the coming six months.



# Oceanic Analysis: Indian Ocean

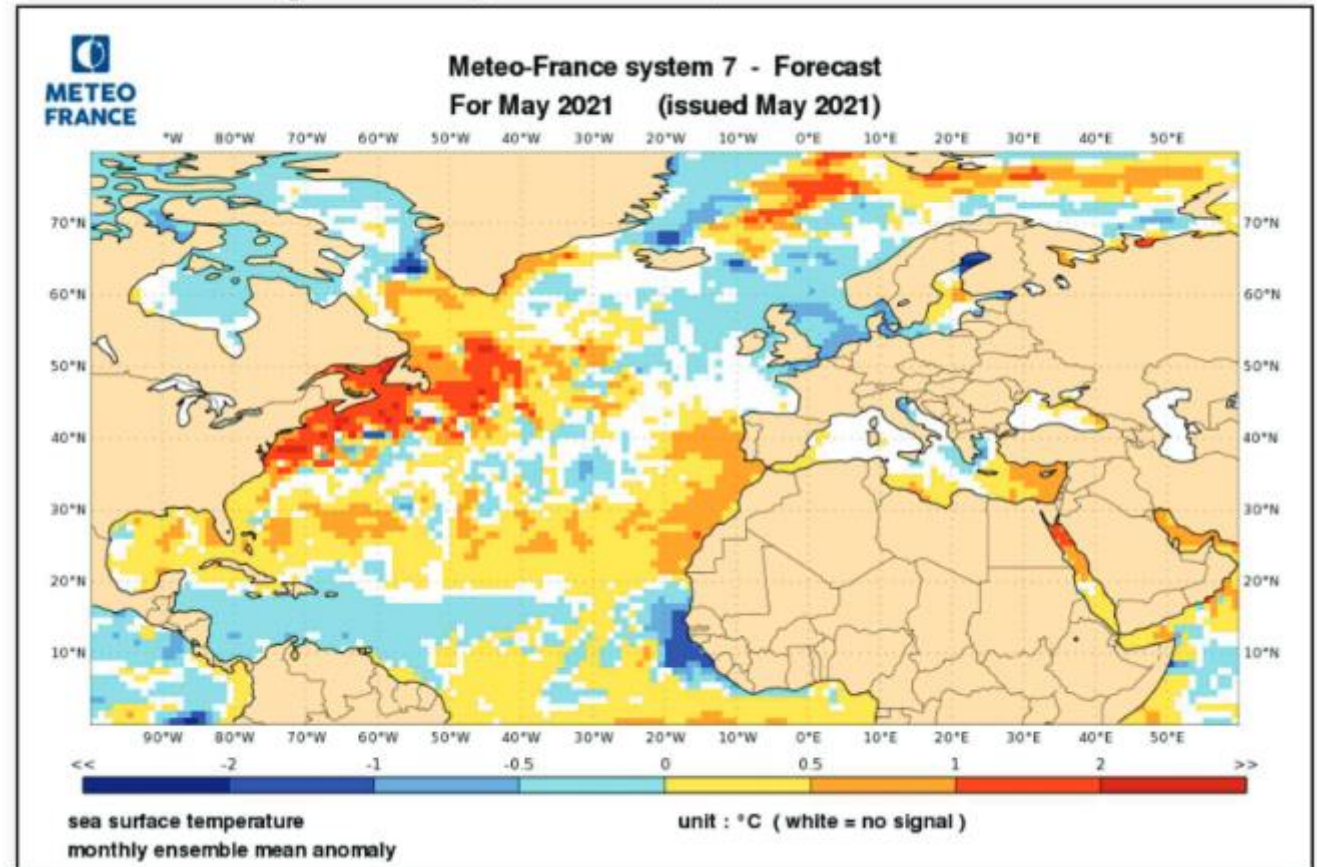
Neutral conditions in the tropics. Still warm anomalies in the southern hemisphere, despite a general cooling. No significant west-east gradient, therefore near-neutral Indian Ocean Dipole (IOD).



# Oceanic Analysis : Atlantic Ocean

## In the Atlantic Ocean:

Neutral conditions in the tropics. In the northern hemisphere, a large positive anomaly pattern between 20°N and 45°N. Compared to March 2021, there is a warming tendency close to West Africa and West Iberia.



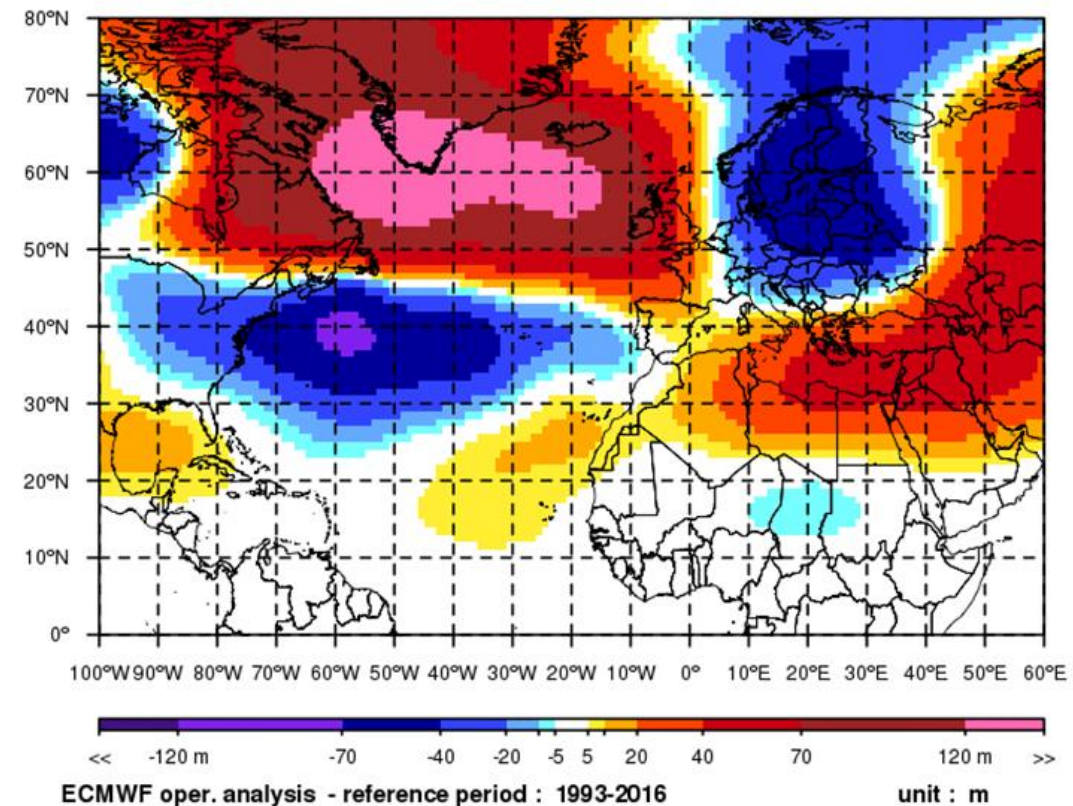
## Oceanic Analysis : In the Mediterranean and Black Sea

Sea surface temperature (SST) was slightly above normal in the entire Mediterranean basin except the Adriatic Sea, which had a slightly below-normal temperature. Compared to March 2021, the Mediterranean became cooler due to atmospheric cooling over Europe. In the Black Sea, SST was around normal

# Atmospheric Circulation Analysis

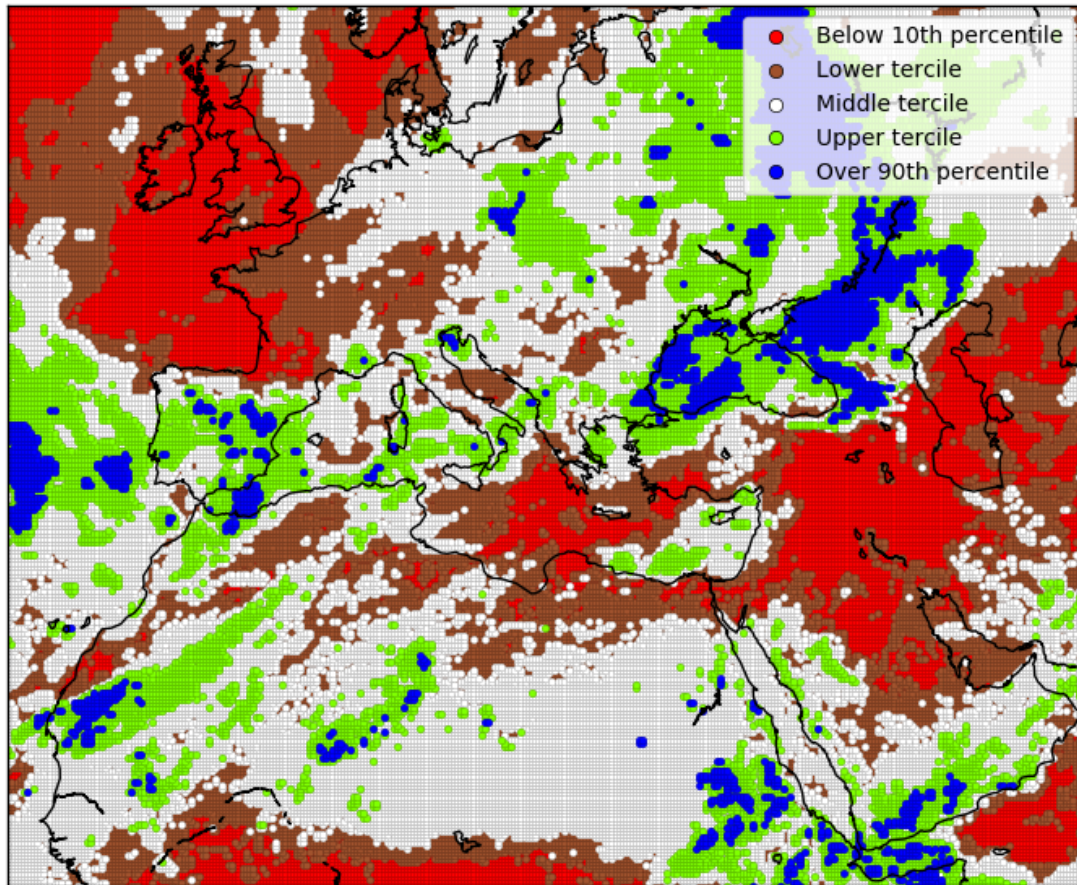
- The north atlantic oscillation NAO was neutral or slightly in a negative phase in april 2021
- Anticyclonic conditions over eastern parts of the MedCOF domain (eastern Mediterranean) and much of North Africa, northern part of Arabian Peninsula.

500 hPa Geopotential Height - Analysis  
Ensemble mean anomaly  
April 2021



# PRECIPITATION

Observed categories (ref. 1981-2010) ['April'] 2021



## Precipitation in Arab region

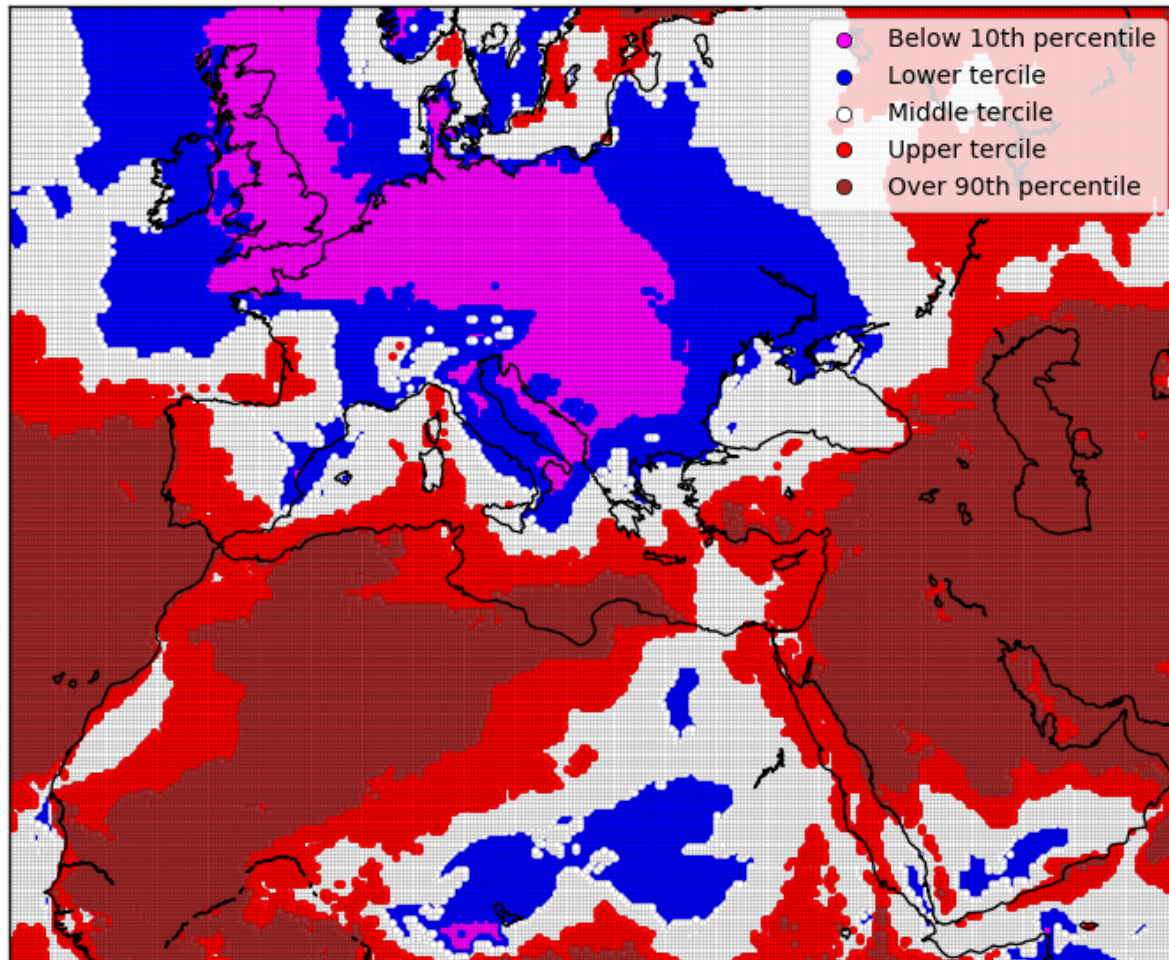
In North Africa, it was mainly dry in large parts in the north of the domain in April 2021 except in Morocco and northern coasts of Algeria and Tunisia. Above-normal precipitation was mostly in places in Morocco.

In the Southern part of Arabian Peninsula, Yemen and Somalia, precipitations were above normal



# TEMPERATURE

Observed categories (ref. 1981-2010) ['April'] 2021



## Temperature in Arab region

North Africa was within the warm subtropical air most of the time and often under high-pressure influence, so almost the whole domain was warmer than normal, except in Egypt, where temperatures were mostly in the middle tercile, partly even in the lower tercile.

For Arabian Peninsula, temperature in april was over 90<sup>th</sup> percentile. Yeman temperature was below normal



Thanks for you attention

