

MEDCOF-15

RCC-LRF Météo-France report for DJF 2020-2021 – **DRAFT**

A) Oceanic forecast :

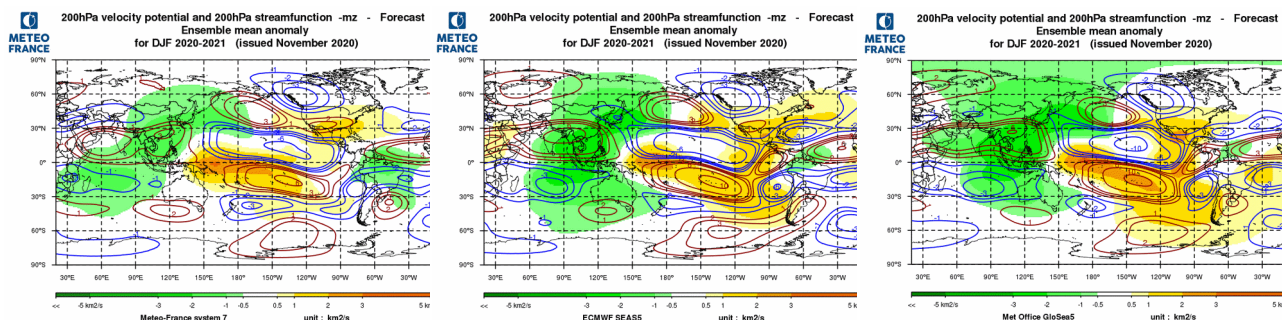
- **ENSO : ongoing moderate La Niña.** The phenomenon should reach a peak towards the end of the year and start to decrease from February.
- **IOD : neutral situation** during next quarter.

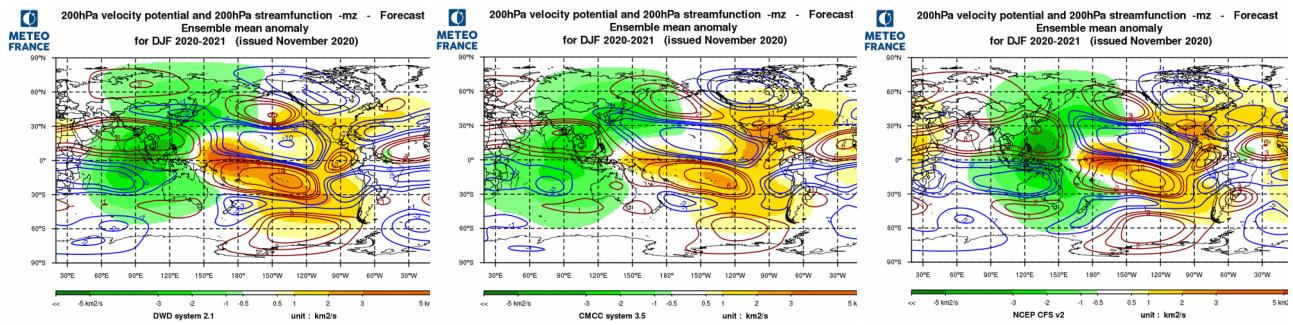
B) Drivers :

- West QBO with an east shift at the end of the quarter.
- Slightly reinforced polar vortex

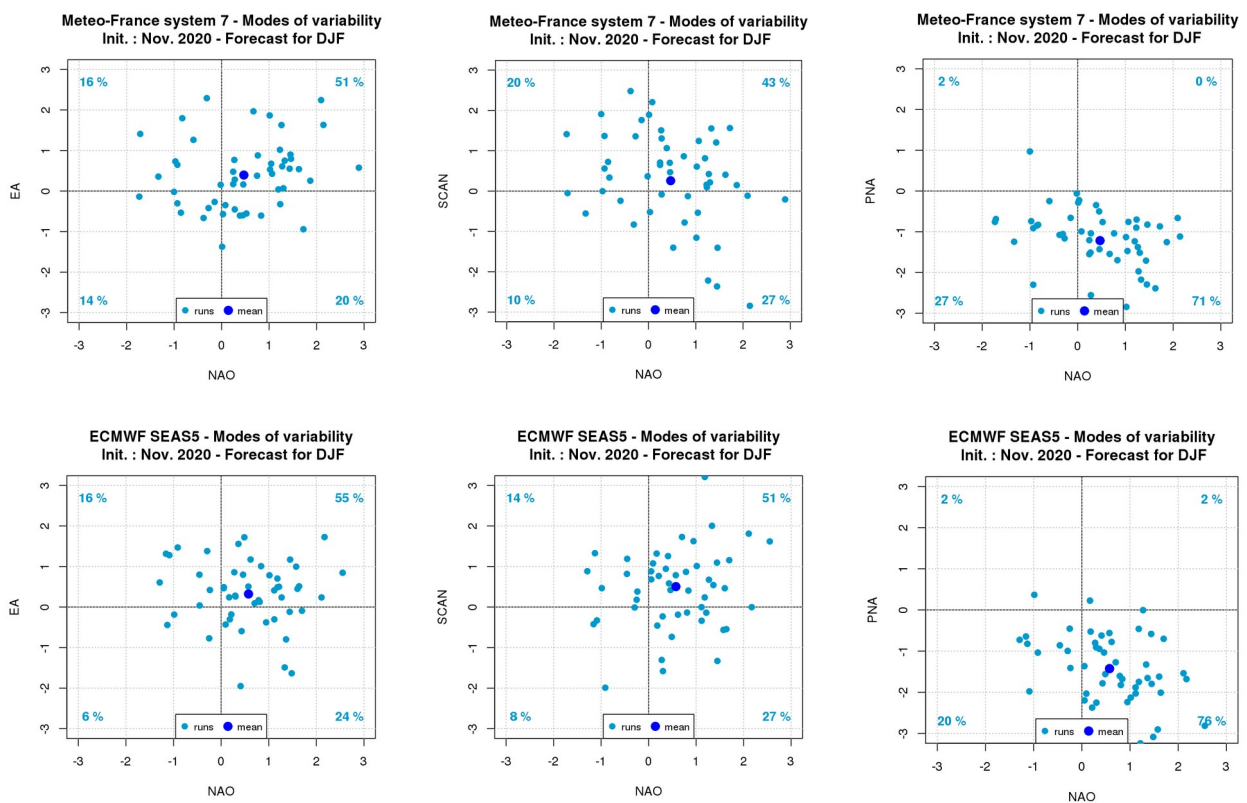
C) Atmospheric circulation :

- classical response to "La Niña" in the tropics (upward motion anomaly over the Eastern Indian Ocean and Maritime Continent, downward motion anomaly over Central Pacific).

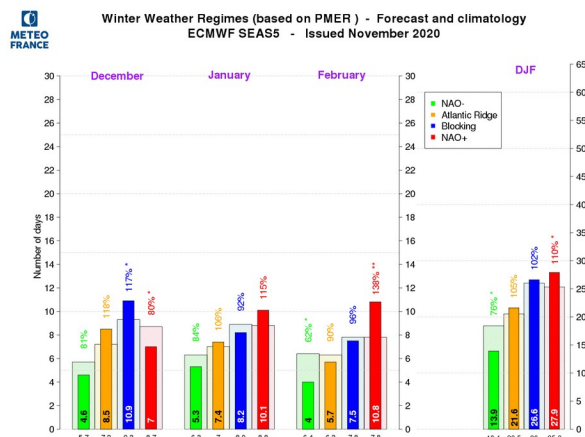
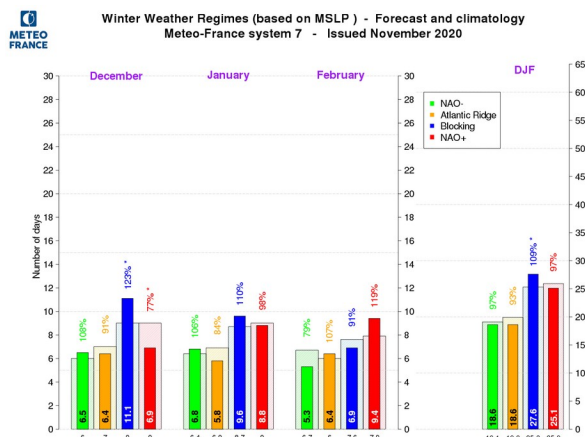




- over the North Atlantic and Europe : all the models predict high field values from USA to Europe. They are less in agreement with the positioning of low relative values further north, around Iceland.
- modes of variability : The two models are very close. Totally strong negative PNA. Majority NAO + EA + and SCAN +.



- weather regimes : The temporal evolution of the two models is identical with blocking favored at the start of the quarter and then gradually more NAO +. SEAS5 switches more frankly towards NAO + (see the field of Z500) from where a quarterly average favoring the NAO + to the detriment of NAO-



Frequency of SLP weather regimes, compared to model's own climatology, for the next three months and aggregation over the entire quarter, for MF-S7 (left) and SEAS5 (right).

D) Most likely conditions :

over Europe and the Mediterranean basin : weak warm signal on the east. Drier than normal in the southwestern part of Europe. Wet probabilities over Scandinavia

