

SEECOF-26

RCC-LRF Météo-France report for DJF 2021-2022 – **DRAFT**

A) Oceanic forecast :

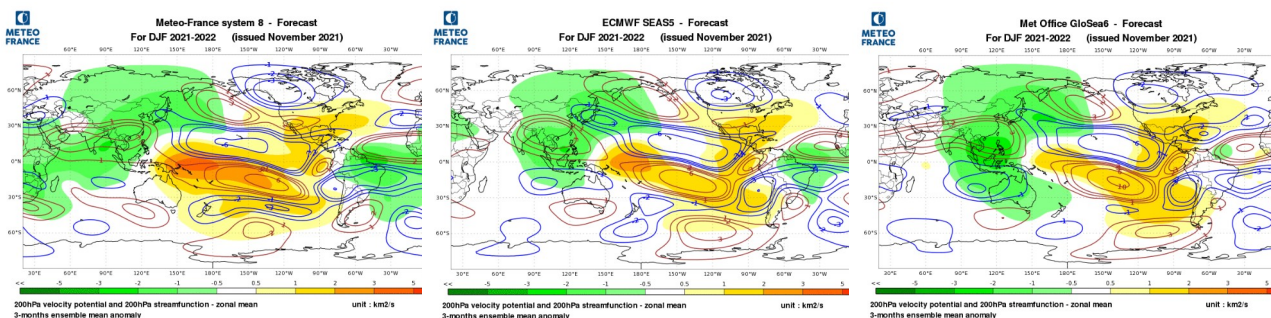
- **ENSO** : **moderate La Niña**. The phenomenon should reach a peak towards the end of the year
- **IOD** : neutral situation during next quarter.
- **Equatorial Atlantic** : strong positive anomaly, decreasing

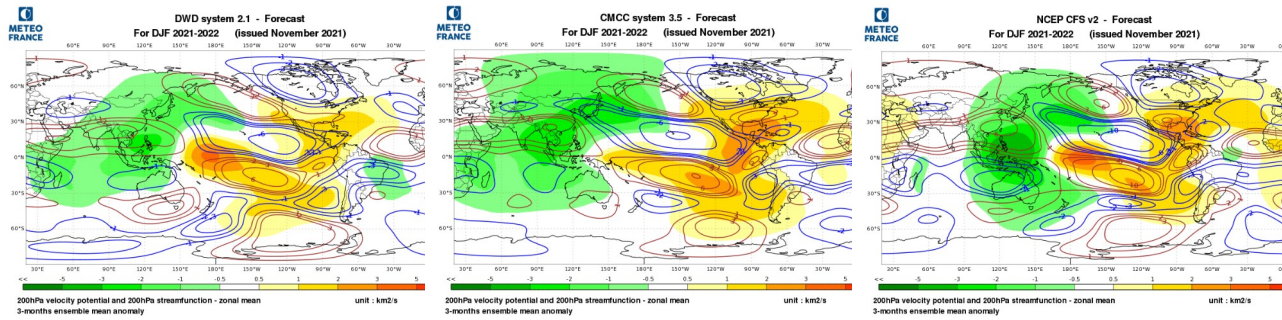
B) Drivers :

- East QBO
- some models suggest a temporary weakening of the polar vortex at the beginning of the winter, that could favour a SSW event and negative AO/NAO. This is not confirmed by the last monthly forecasts (GFS, ECMWF)

C) Atmospheric circulation :

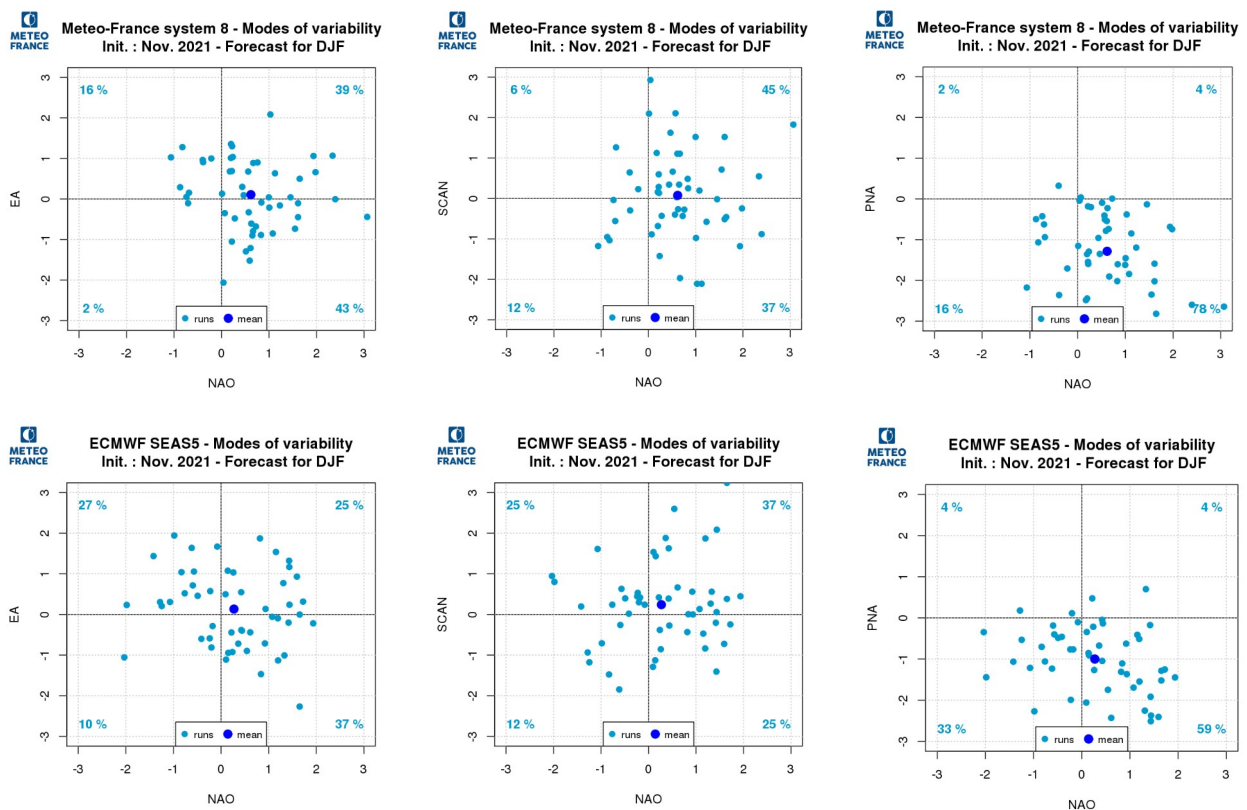
- classical response to "La Niña" in the tropics (upward motion anomaly over the Eastern Indian Ocean and Maritime Continent, downward motion anomaly over Central Pacific).



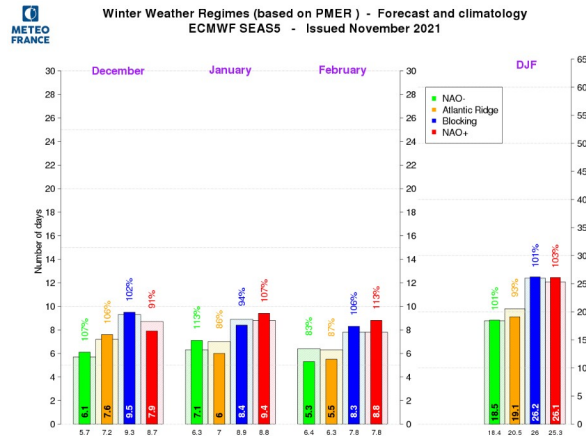
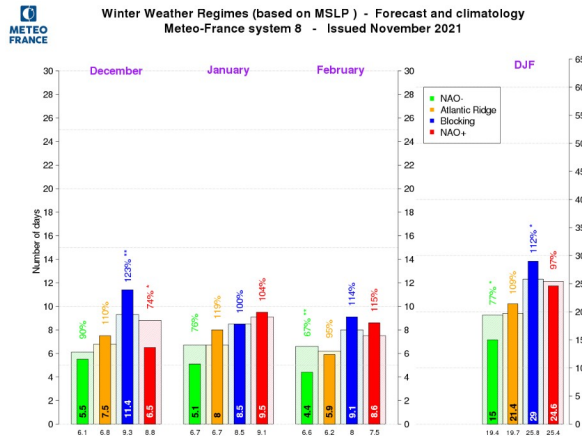


- over the North Atlantic and Europe : all the models predict high field values from USA to West Atlantic. They are less in agreement in the extension toward Europe

- modes of variability : The two models forecast a strong negative PNA. Majority of run in NAO + for MF-S8



- weather regimes : A "normal" winter season with ECMWF-SEAS5, no significant departure from climatology. With MF-S8, significant excess of Blocking and significantly less NAO- situations.



Frequency of SLP weather regimes, compared to model's own climatology, for the next three months and aggregation over the entire quarter, for MF-S8 (left) and SEAS5 (right).

D) Most likely conditions :

over Europe and the Mediterranean basin : a "normal" winter on many European countries.
Milder conditions than normal around the basin A dry signal over the Middle East

