

MEDCOF-19

RCC-LRF Météo-France report for DJF-2022/2023 – **DRAFT**

A) Oceanic forecast :

- ENSO : Index Nino3.4 becoming neutral in the next quarter
- IOD : neutral
- Equatorial Atlantic : neutral

Commented [JMS1]: Il me semble que le retour au neutre est plutôt pour le printemps.
La Nina reste le driver principal pour le trimestre

B) Drivers :

- Like "La Niña Central Pacific" pattern associated with negative phase of PDO
- West phase of QBO

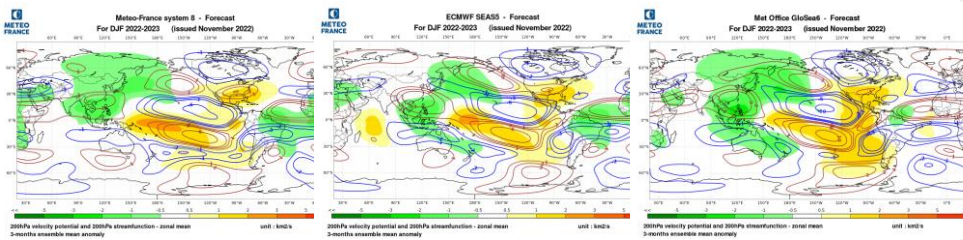
These two main drivers for the next winter promote the positive phase of NAO

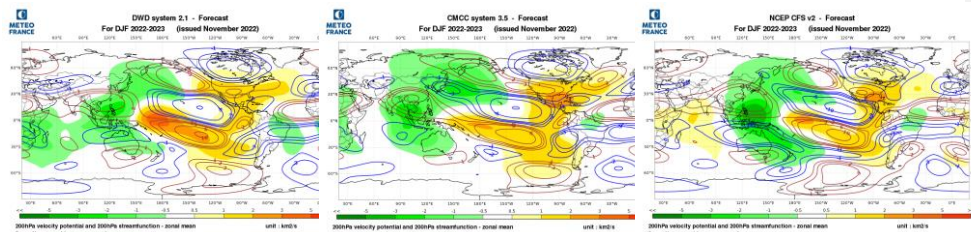
Commented [JMS2]: Rajouter une mention sur le vortex polaire ?

C) Atmospheric circulation :

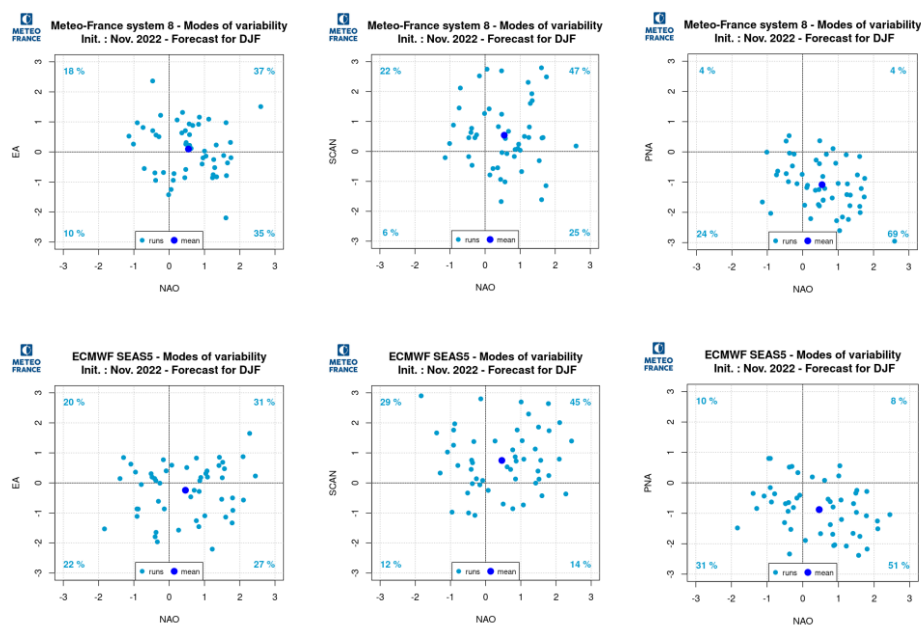
Velocity Potential 200 hPa : Downward anomaly motion over the Central Pacific and upward anomaly motion on the maritim continent and north of south America (link to La Niña) . Over Africa and over the western Indian Ocean, some differences between models.

Streamfunction 200 hPa : Dipole around the equator over the Pacific, with clear teleconnection visible in the North Pacific. In North Atlantic and North Africa, even if models differ in VP200, they quite agree on a positive anomaly over the Northern tropics.



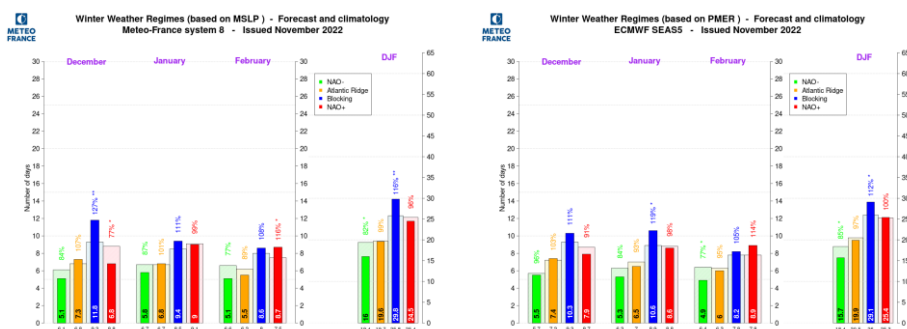


- Z500 : All models agree in forecasting a positive anomaly from Quebec to Europe.
- modes of variability : High confidence in a negative PNA. Strong signal for positive NAO and SCAN. No clear signal for EA.



- weather regimes : The blocking regime is significantly privileged by ECMWF-SEAS5 and MF-S8.

Commented [JMS3]: Particulièrement en début de période décembre pour MF et ECMWF et janvier seulement pour ECMWF
En fin de période, le régime NAO+ deviendrait dominant



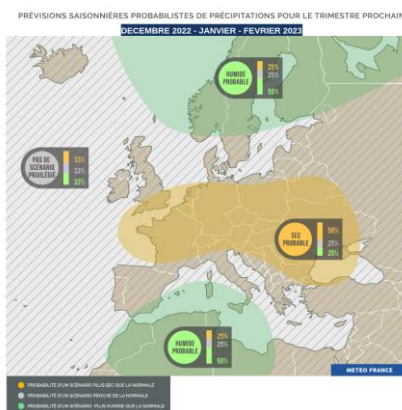
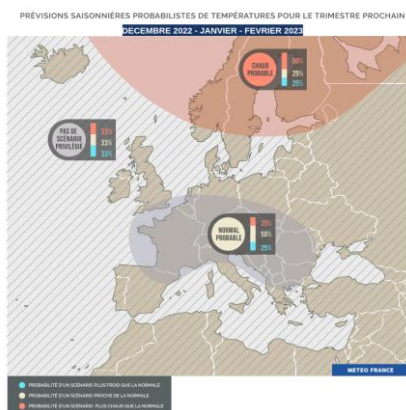
Frequency of SLP weather regimes, compared to model's own climatology, for the next three months and aggregation over the entire quarter, for MF-S8 (left) and SEAS5 (right).

D) Most likely conditions :

over a large part of Europe and the Mediterranean basin : moderate confidence for “normal” scenario for temperature and a dry scenario for precipitation.

on western Mediterranean basin and North Africa: wet scenario is privileged

Commented [JMS4]: Tu pourrais montrer les impacts des régimes blocage et NAO+





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