





Seasonal Forecast User presentation

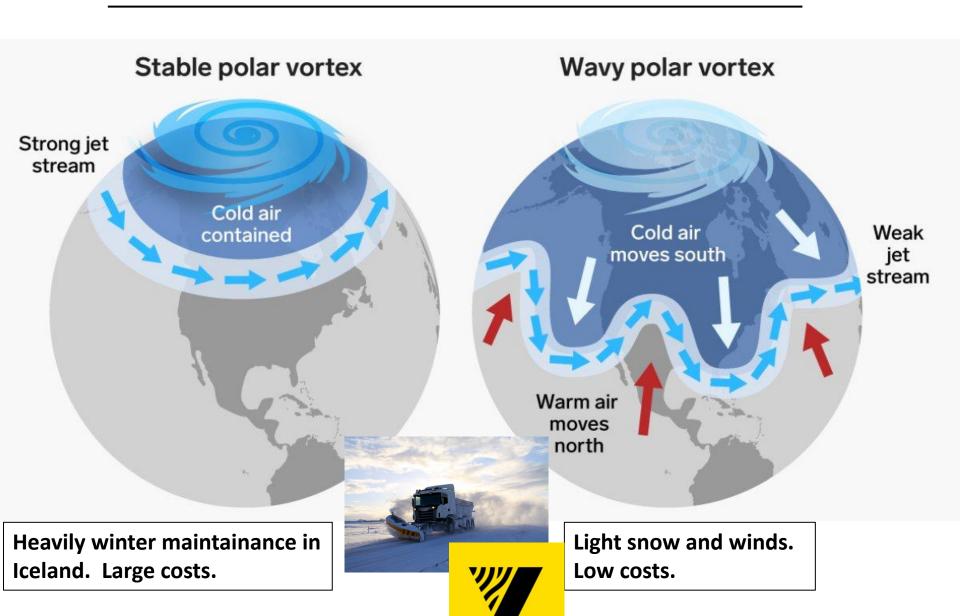
An Icelandic perspective of use /useless
Sesonal Forecasts



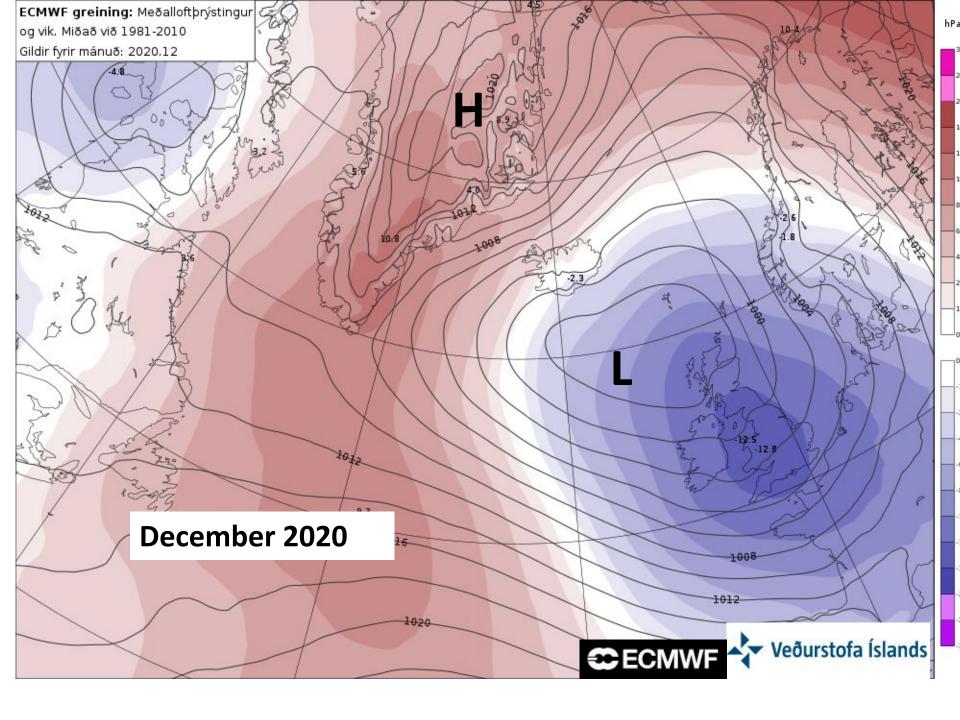
Einar Sveinbjörnsson, Meteorologist, MSc. Veðurvaktin Consulting

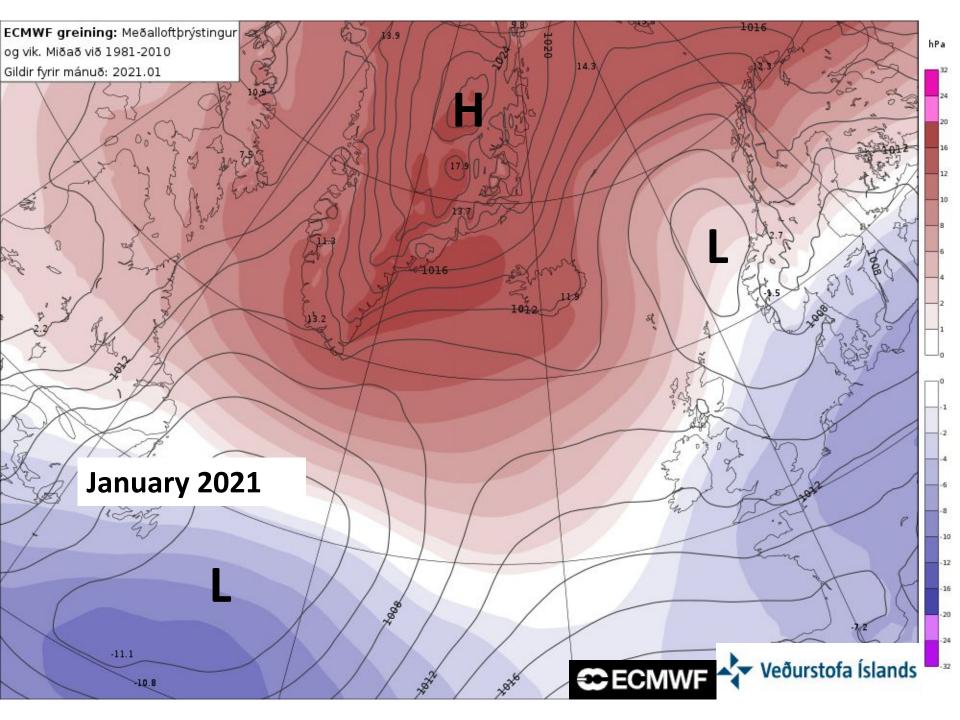


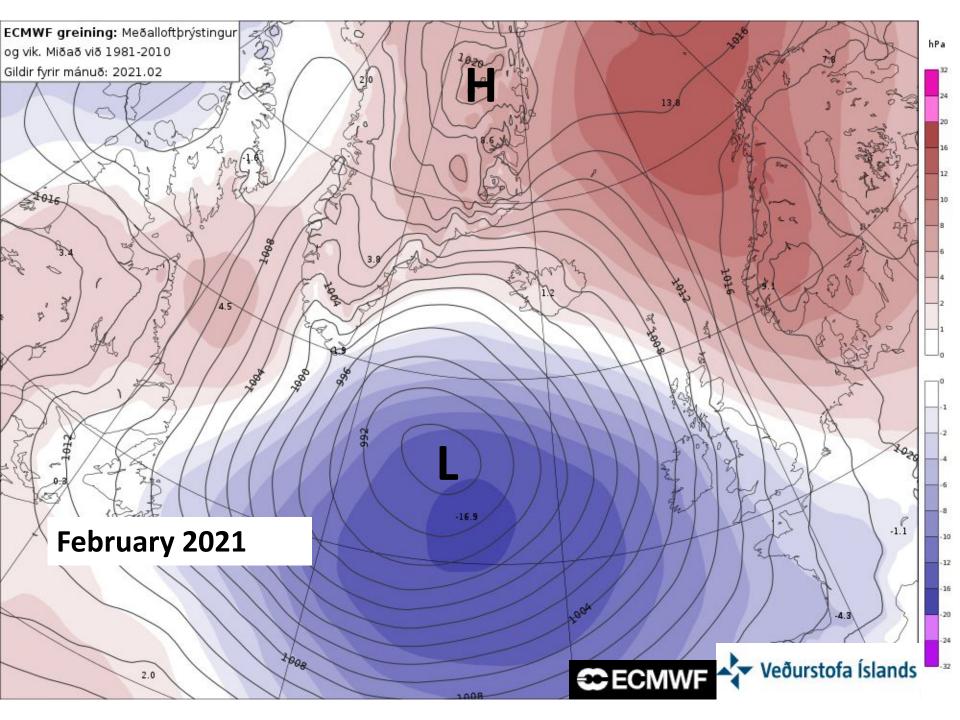
Winter: 2019-2020 Winter: 2020-2021



Icelandic Road Authority







3 months outloock issued November 13th. 2020 Monthly base!

December 2020

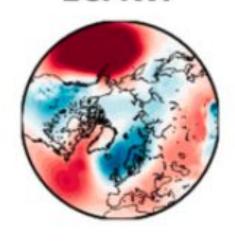
January 2021

February 2020

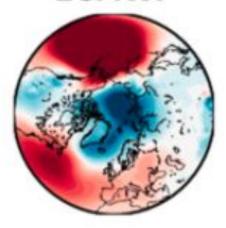
ECMWF



ECMWF



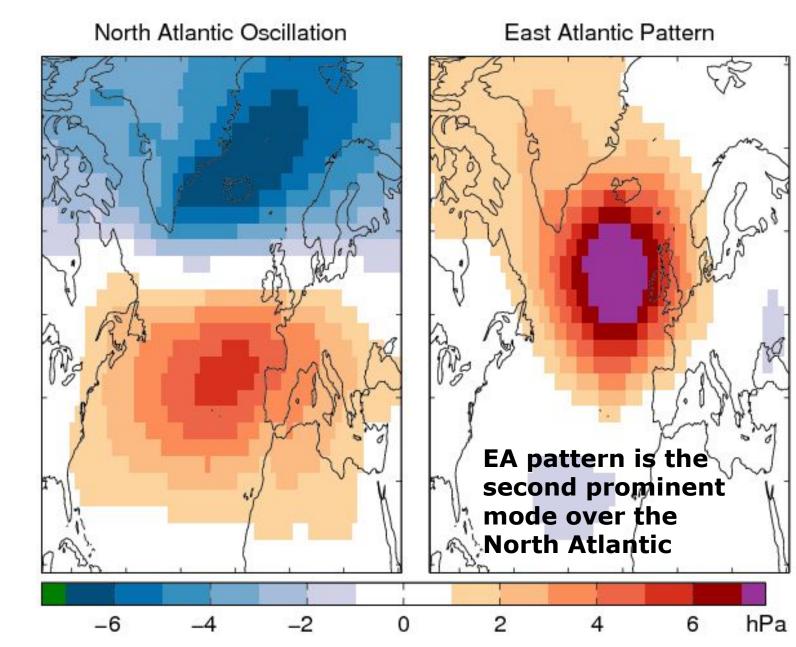
ECMWF



The forecast indicates strongly an high pressure anomaly south of Greenland combined to weaker circulation.

Low pressure anomaly east and southeast of Iceland, and high pressure anomaly near Canadian N-Am. Typical for stronger circulation and low pressure disturbances passing Iceland.

NH Teleconnection indices are useful

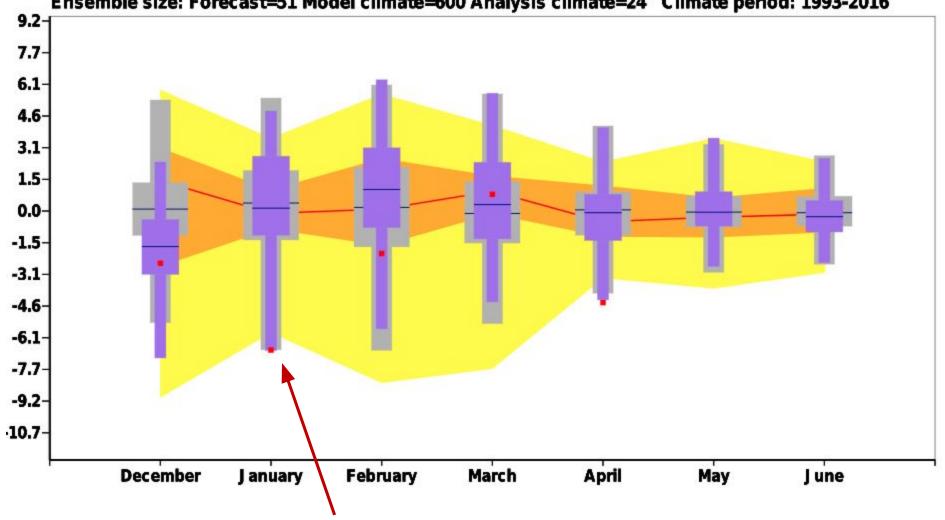


+ PNA (not shown)





Ensemble size: Forecast=51 Model climate=600 Analysis climate=24 Climate period: 1993-2016

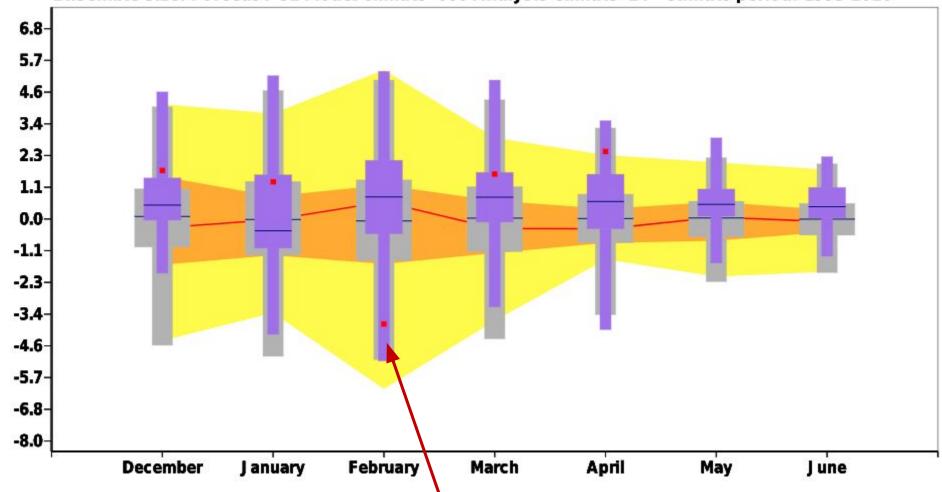




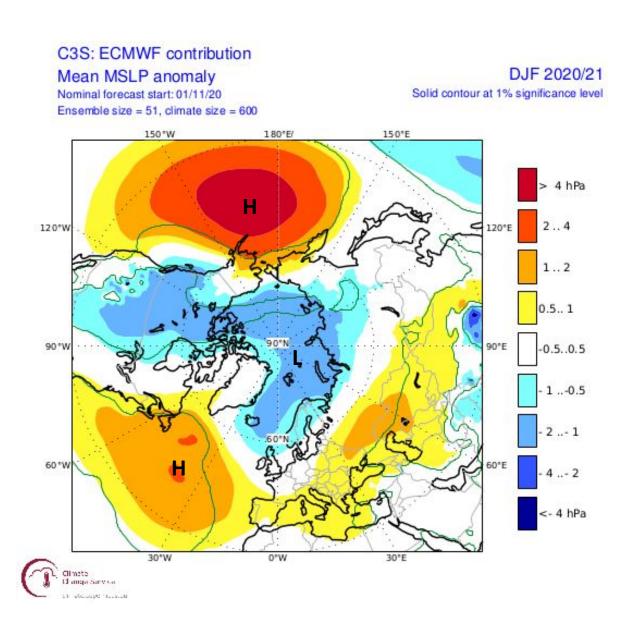
(East Atlantic pattern)

Forecast initial date: 20201201

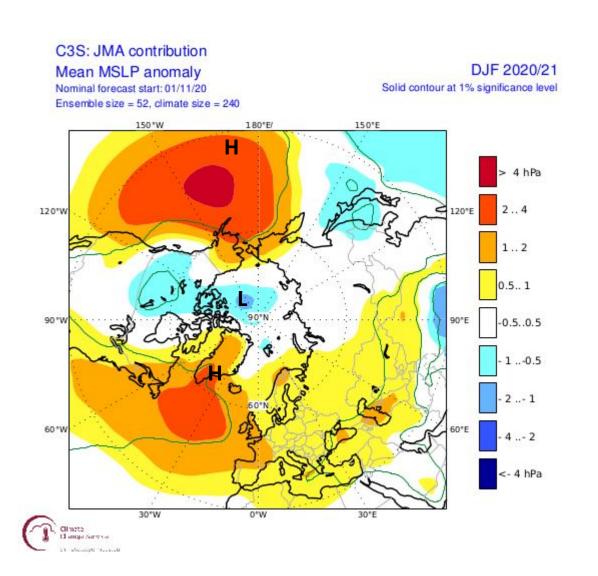
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ECMWF's Dec-Feb SLP anomaly forecast



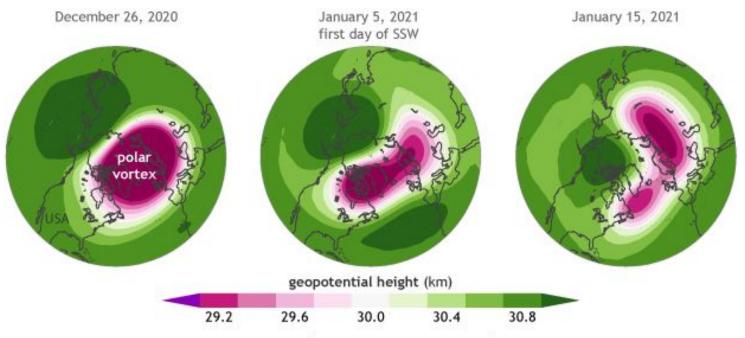
JMA Dec-Feb SLP anomaly forecast

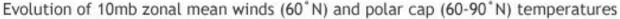


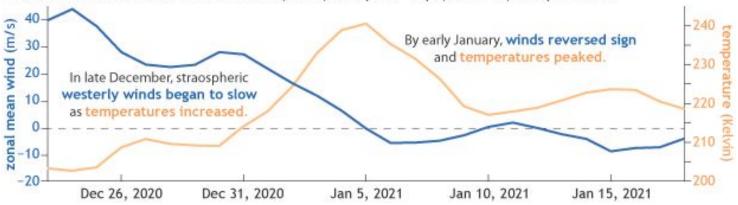
SSW - in early Jan. 2021

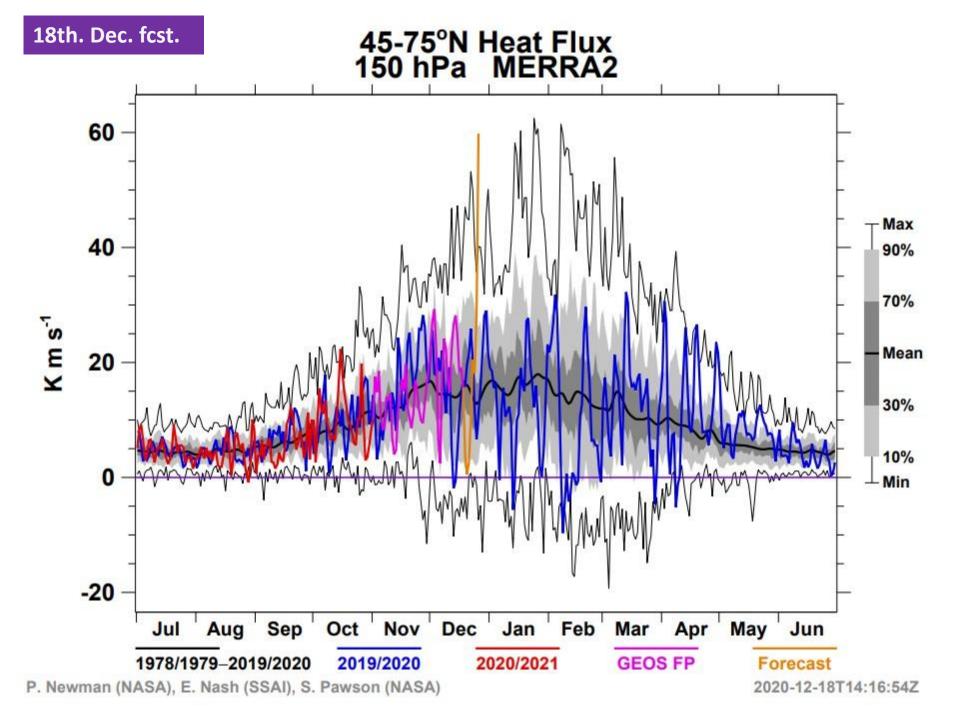
Climate.gov science & information for a climate-smart nation

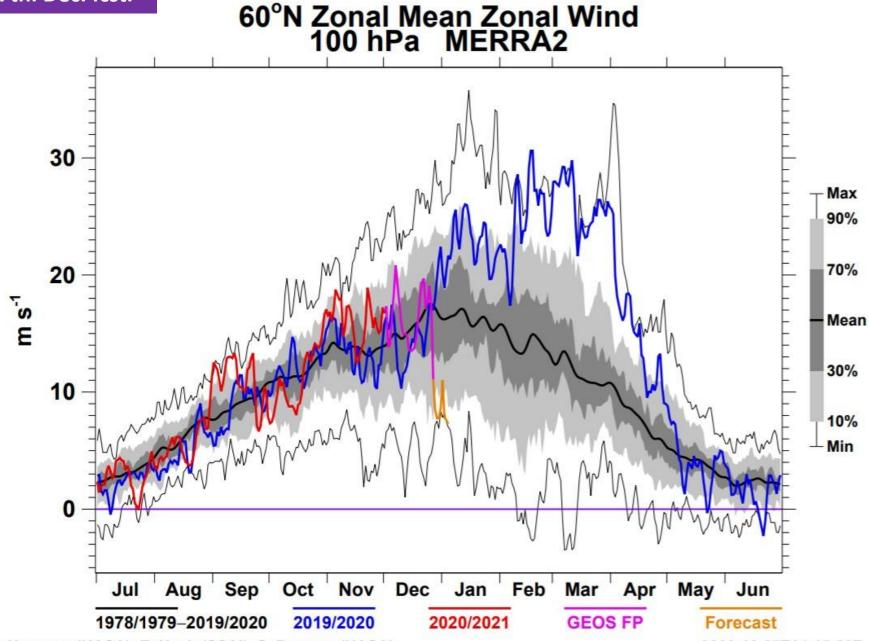
Disruption of stratospheric polar vortex in early January 2021





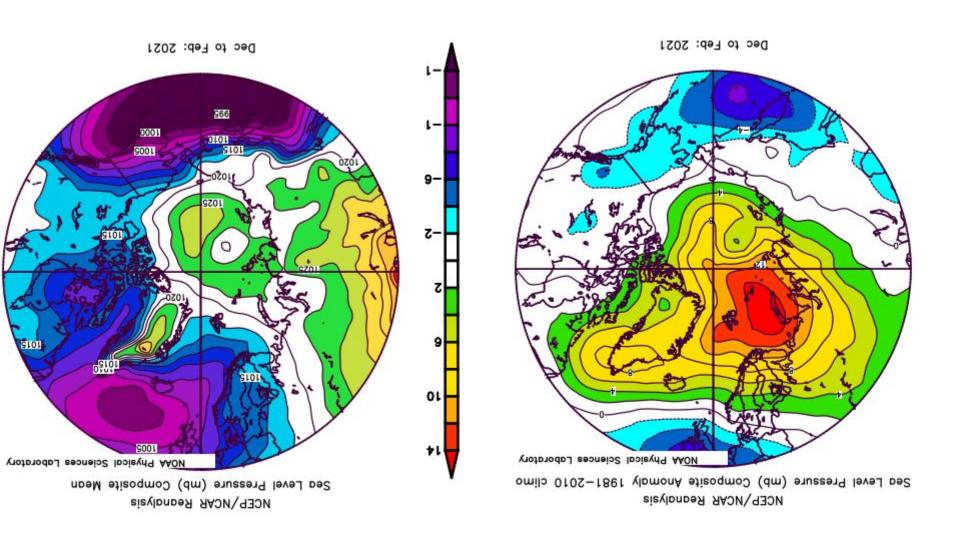






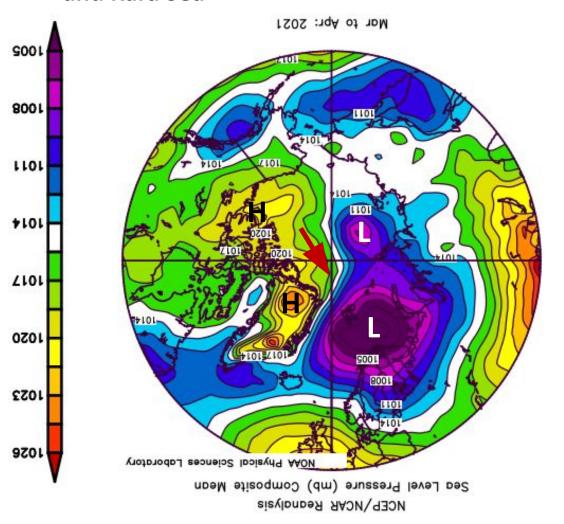
Des 2020 -feb 2020:

Huge Positive pressure anomalie in the Arctic but relatively weak pressure gradients.



March & April 2021:

Ongoing Positive pressure anomaly over Greenland, but low pressure in the Barents Sea and Kara Sea



Creates Ice-drift towards Fram Strait.

- The main weather pattern during a whole season is normally quite variable
 rarely Homogeneus !!
 - Important to split the 3 months outlook to seperate forecasts for each month.
 - Look closer to outlook of main teleconnections indices and how they affect winds, temperature and precipitation in the Arctic and surroundings.



A future goal is to imply possibilities in the winteroutlook for SSW (early or late)
- an era of progressing Research.