

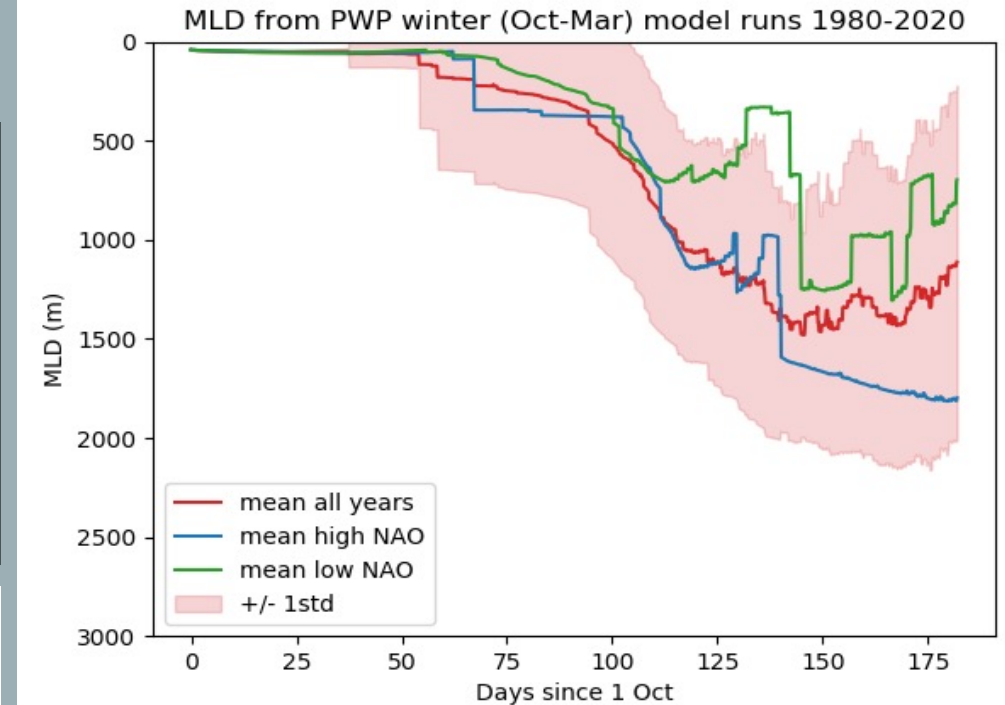
# SENSITIVITY OF CONVECTIVE OVERTURNING AND TURBULENT MIXING OF DISSOLVED GASES IN THE LABRADOR SEA TO ATMOSPHERIC FORCING



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## BACKGROUND

- 1D ocean model (PWP) used to investigate mixed layer depth (MLD) over the course of 1 Oct. - 1 Apr.
- PWP forced with ERA5 reanalysis product, initialized with Argo observations
- Wind stress has negligible affect on MLD compared to thermal fluxes, but forces fluxes of trace gases.



- Composites of 5 model runs with highest/lowest mean winter NAO index
- High NAO index favours deeper mixed layer (final MLD = 1798m)
- Low NAO index favours early re-stratification (final MLD = 697m)

