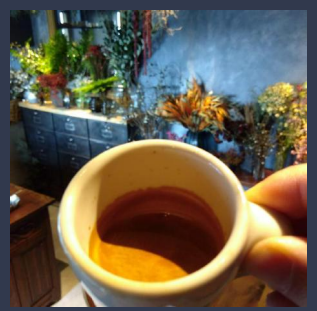
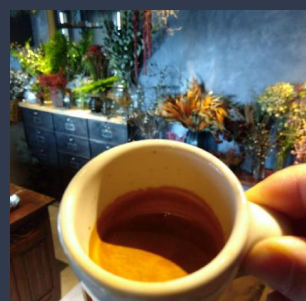




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Connecting the North Atlantic subpolar gyre and the northern European shelf seas: a satellite-based Lagrangian perspective



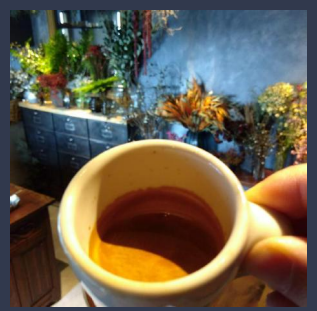


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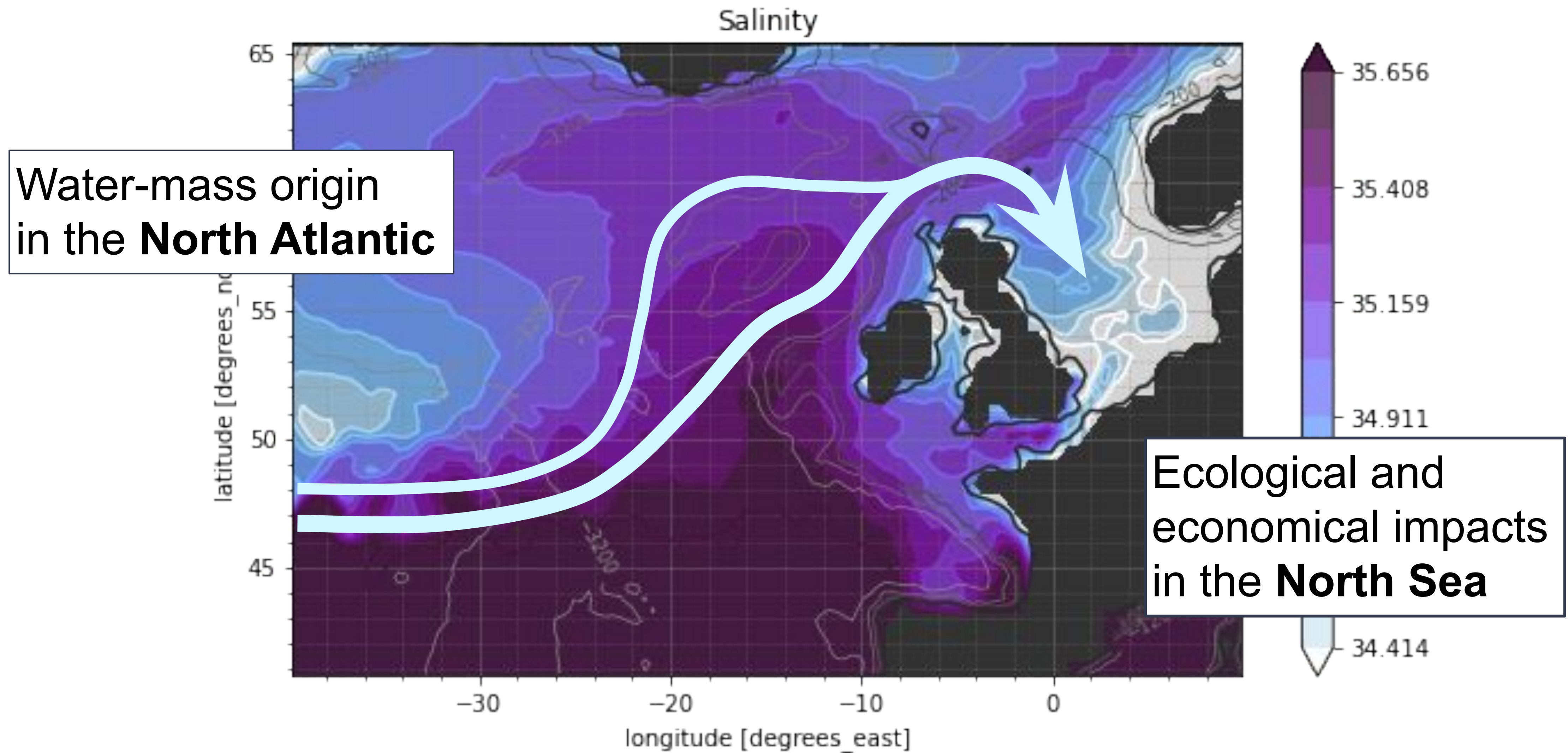


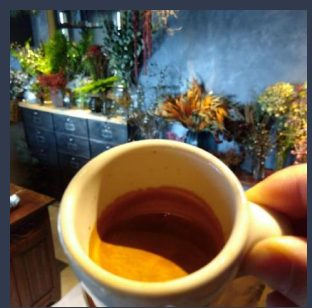
Why?





Why?



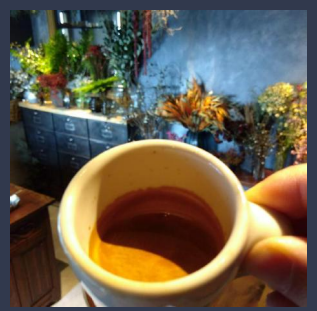


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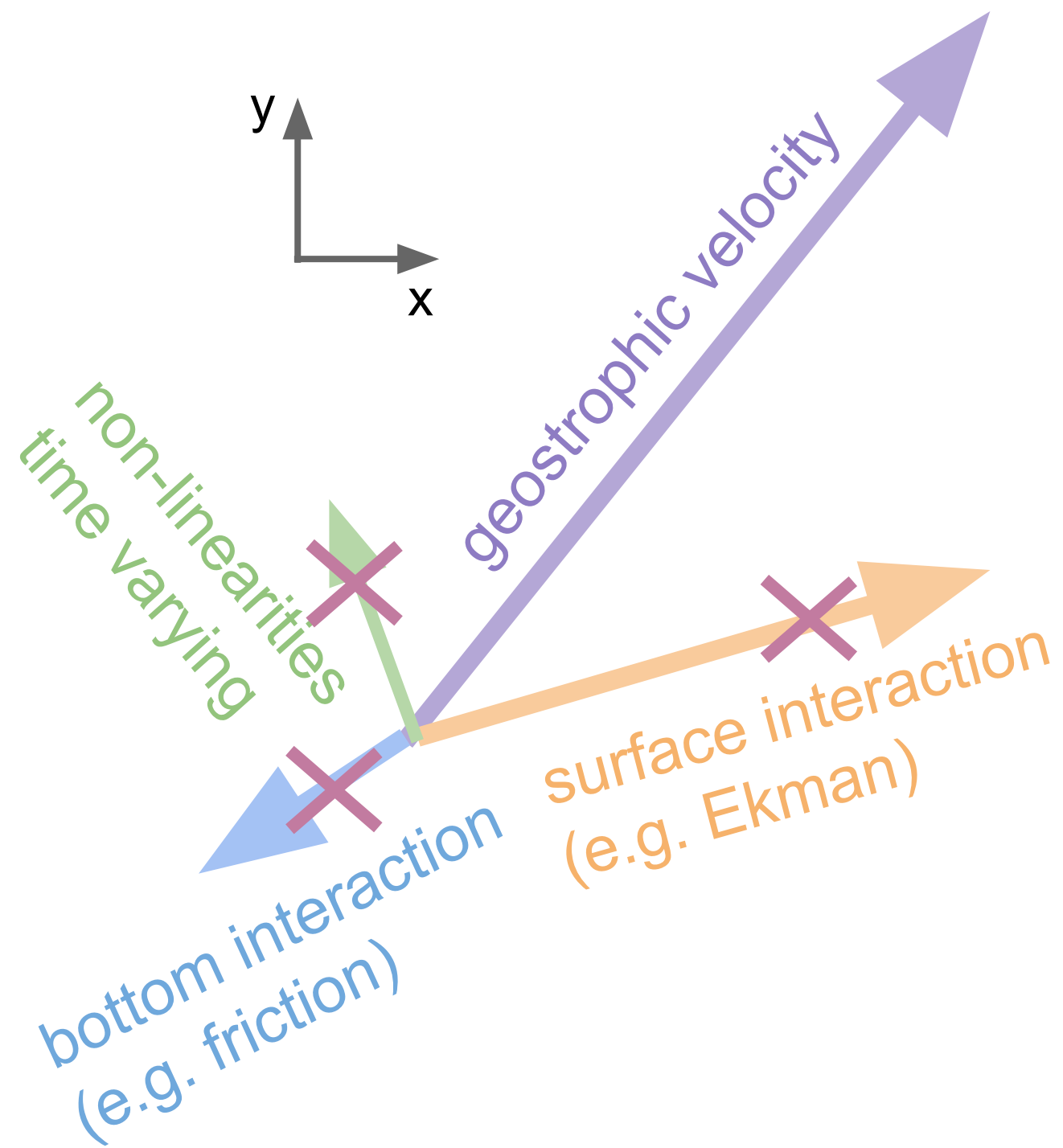
How?



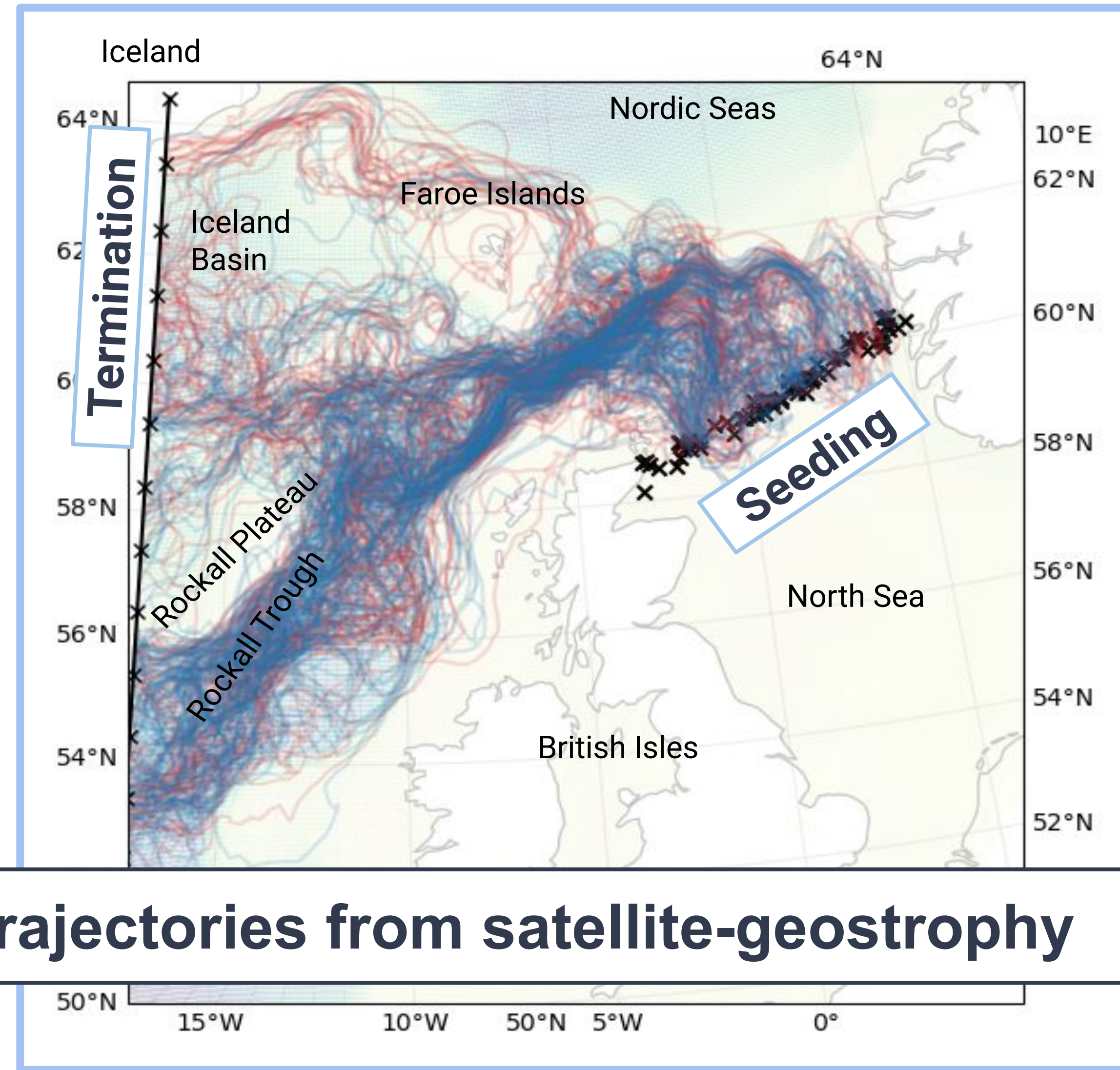


How?

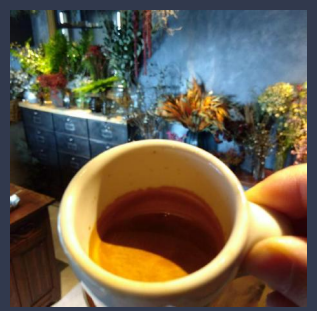
$$\rho \frac{D\mathbf{v}}{Dt} + \rho f \hat{\mathbf{e}} \times \mathbf{v} = -\rho \mathbf{g} - \nabla p + \mu \nabla^2 \mathbf{v}$$



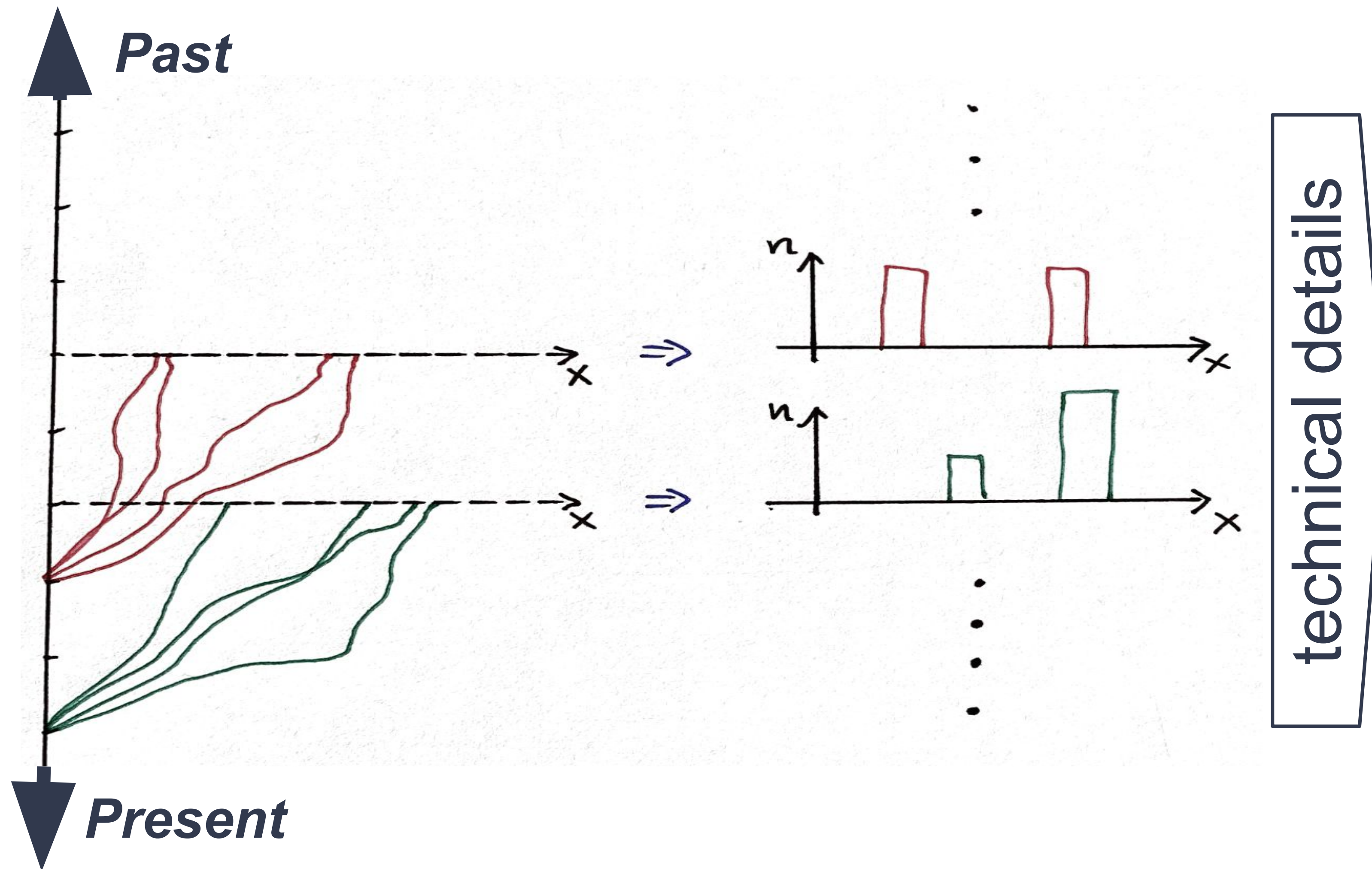
X Dropped terms
but not on basis of scale analysis



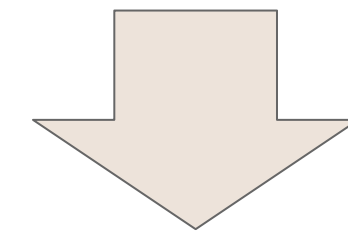
trajectories from satellite-geostrophy



How?



time series
 $\Rightarrow X(t, y, x)$



**Principal
Component
Analysis**



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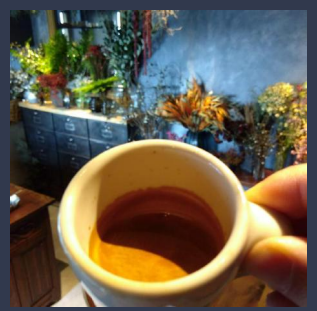
And?

Ezra Eisbrenner^{1,2}, Léon Chafik^{1,2}, Kristofer Döös^{1,2}

1 Department of Meteorology, Stockholm University (MISU); 2 Bolin Centre for Climate Research

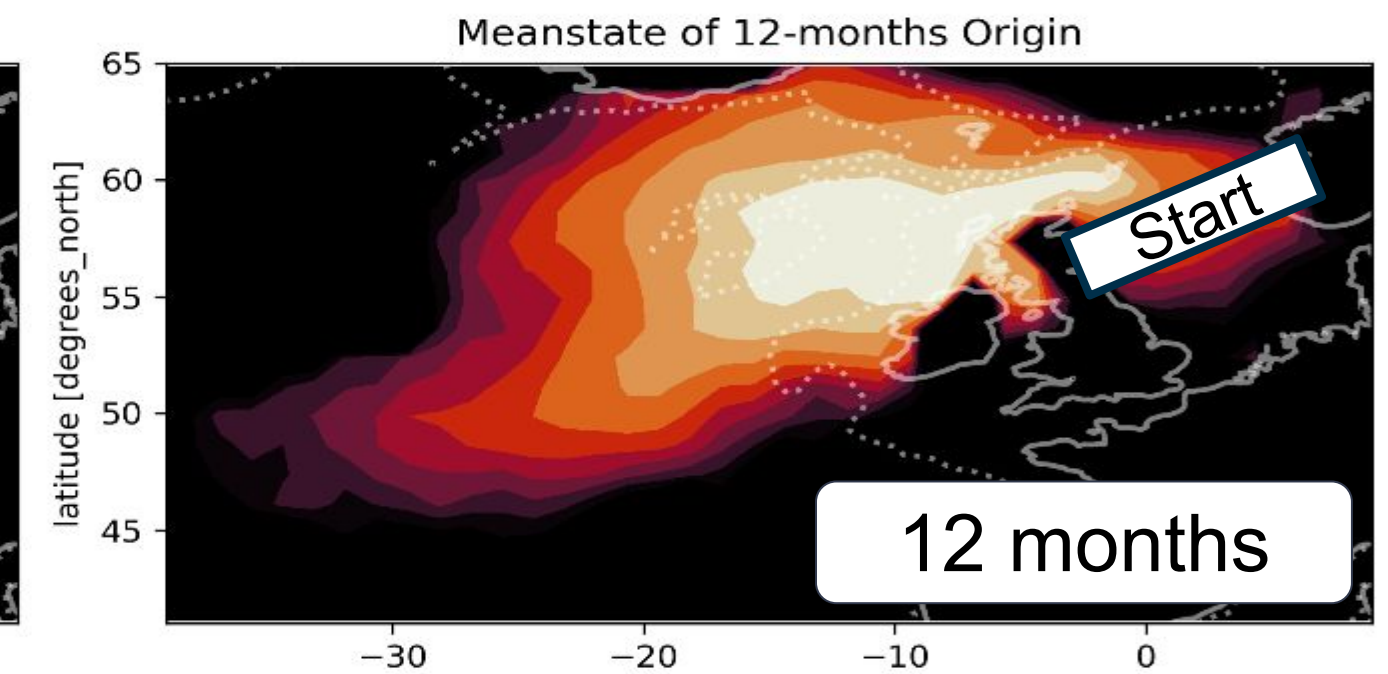
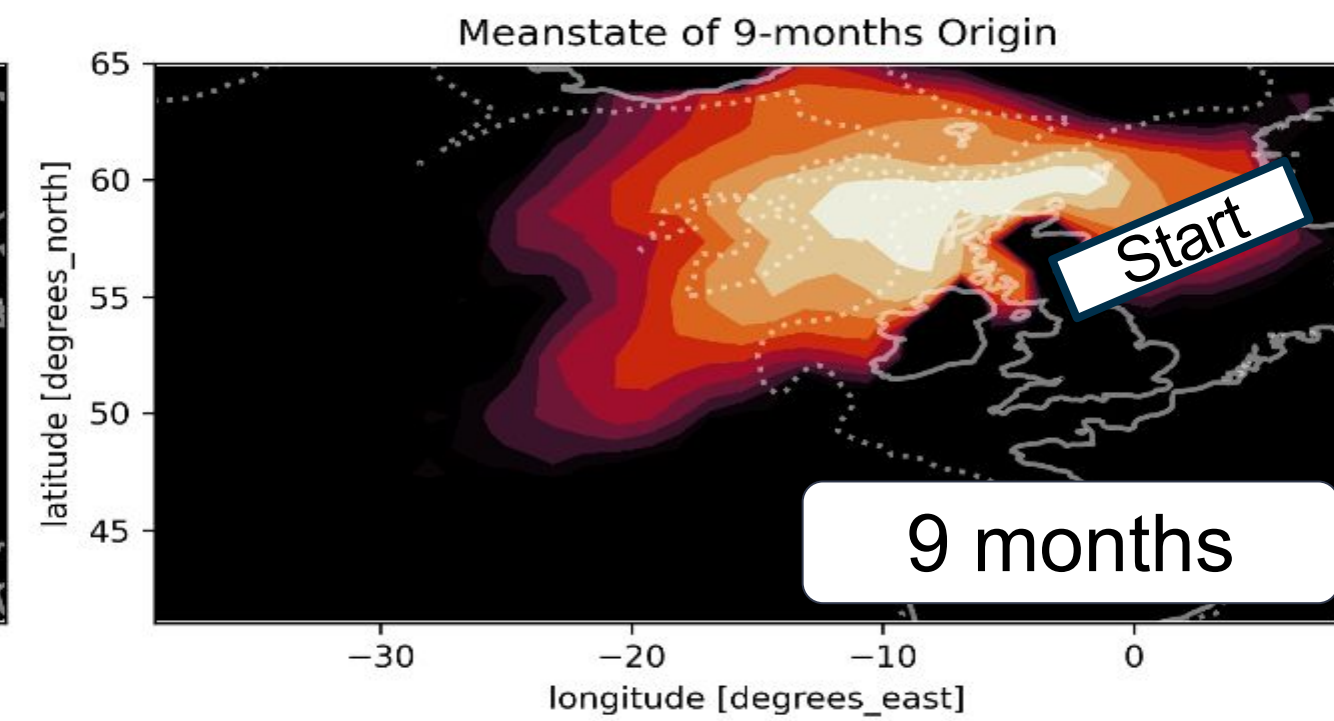
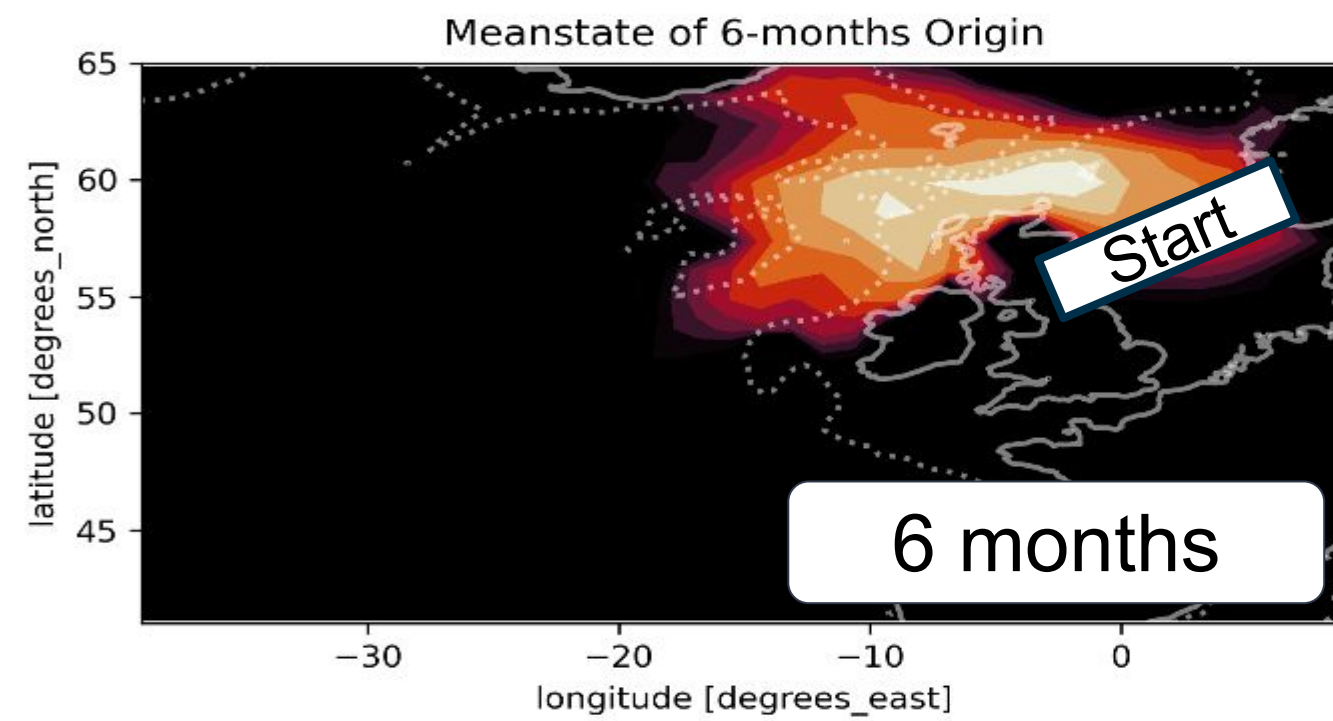


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for Climate Research

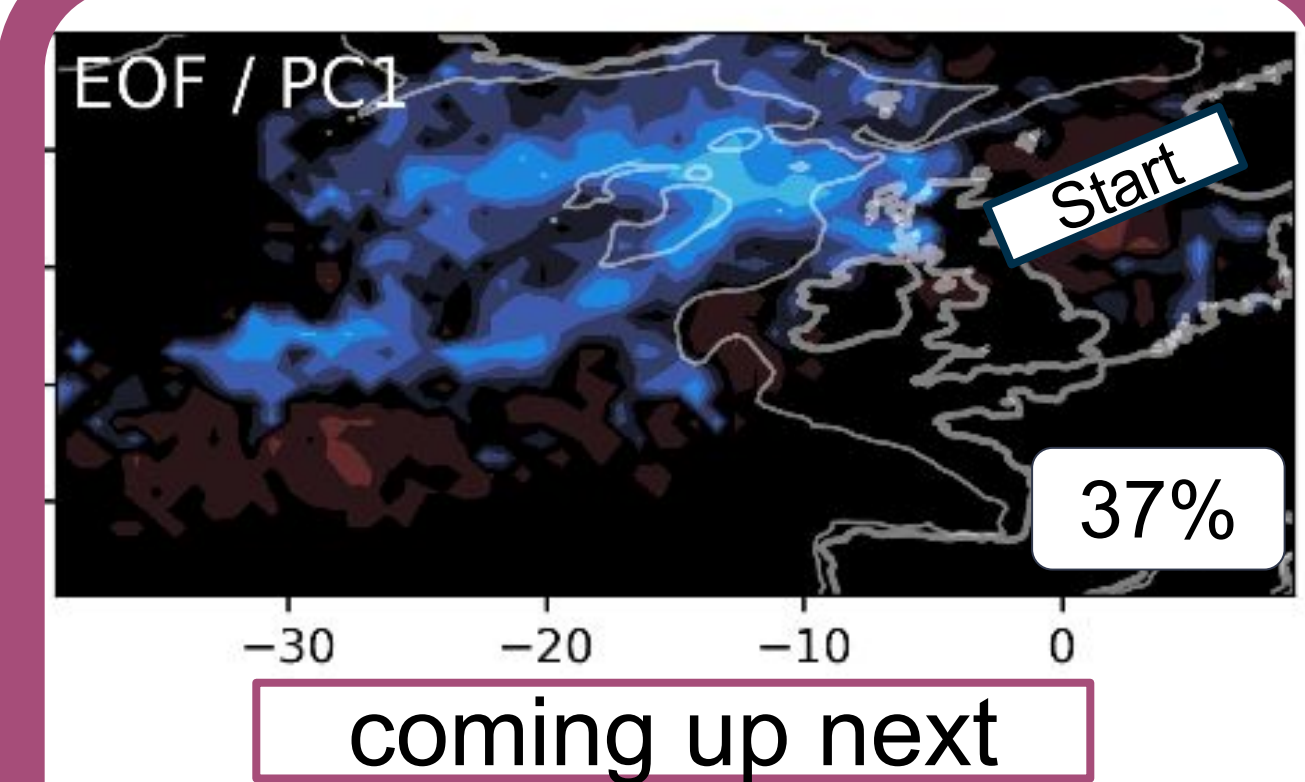
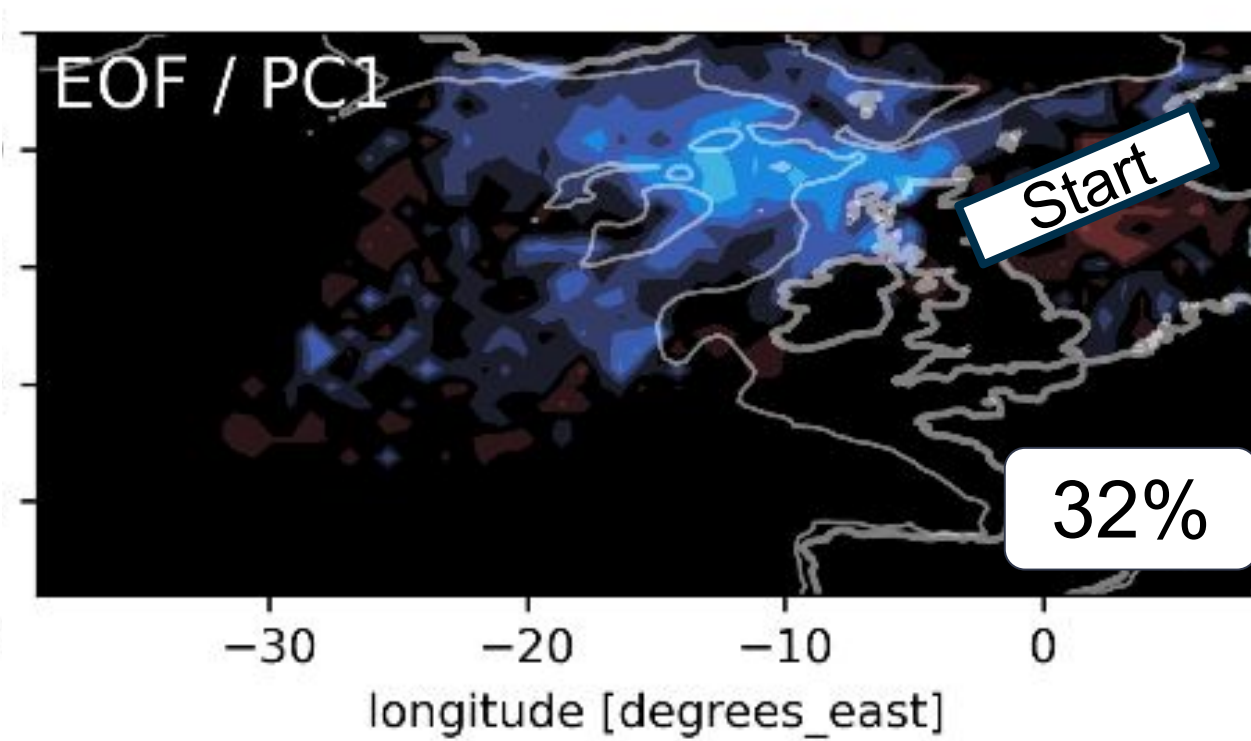
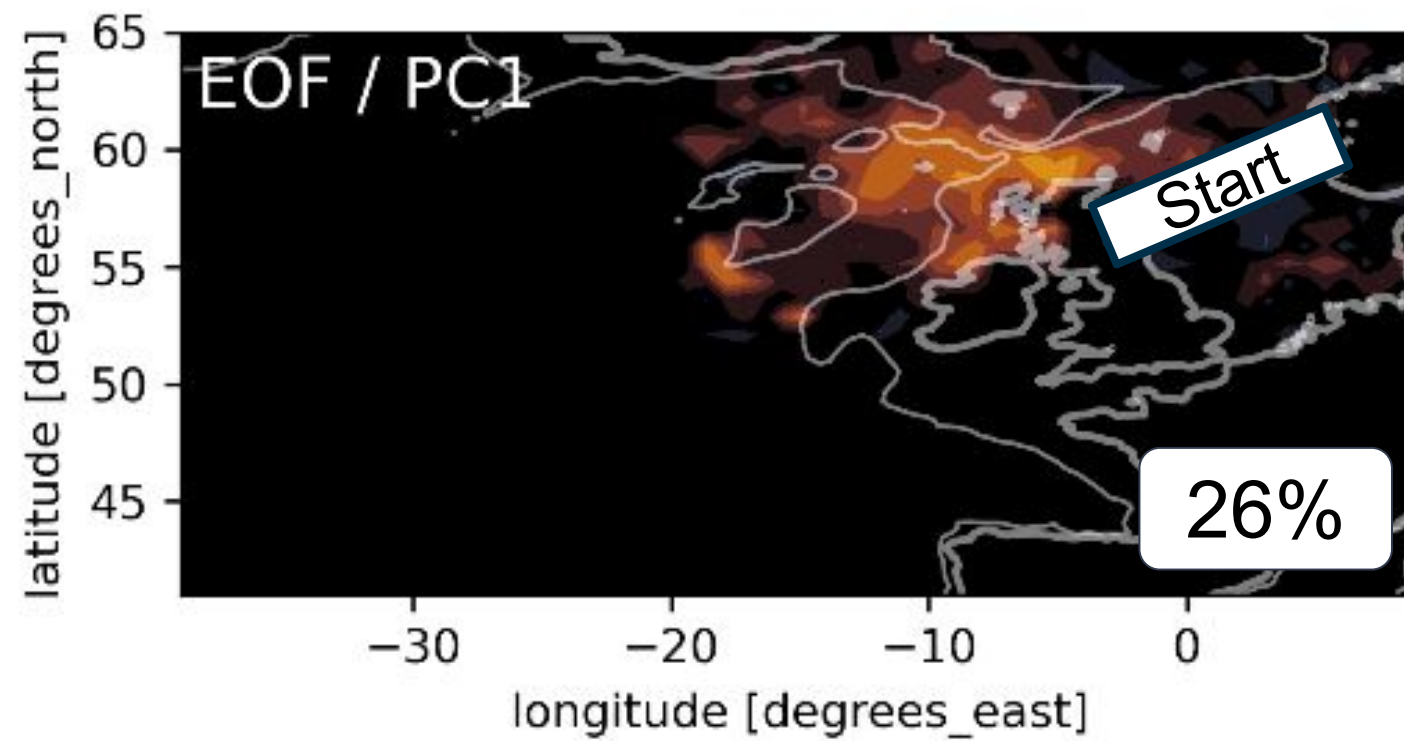


And?

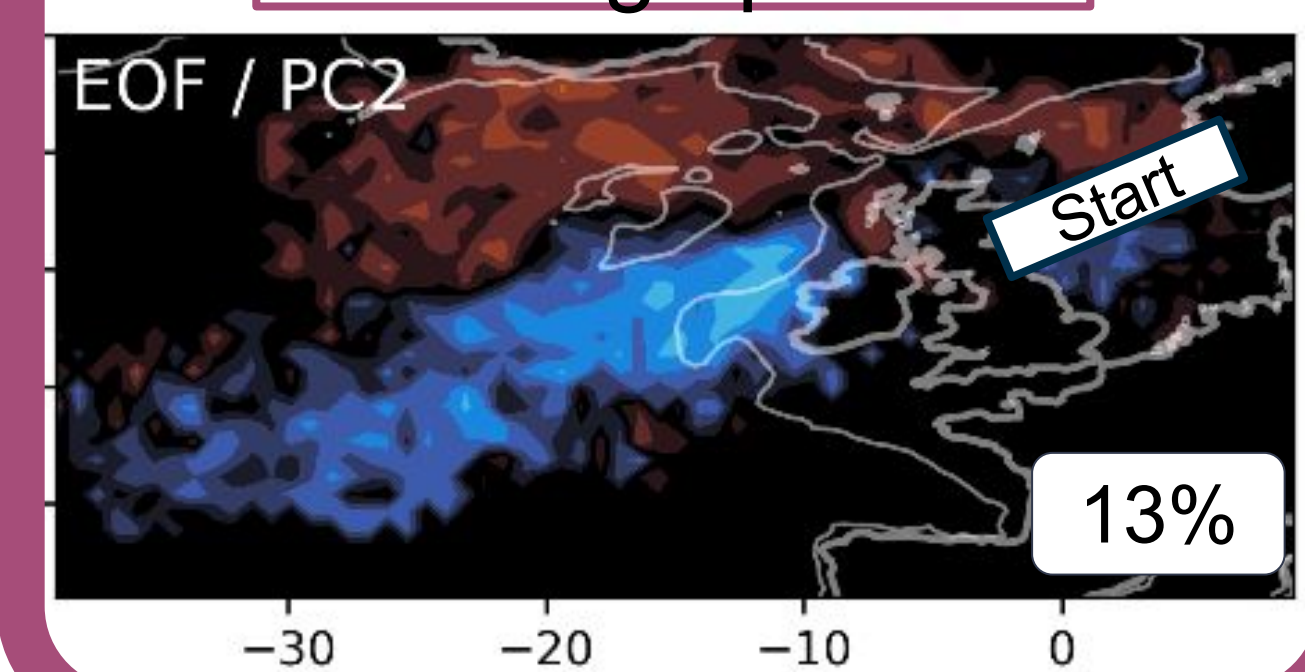
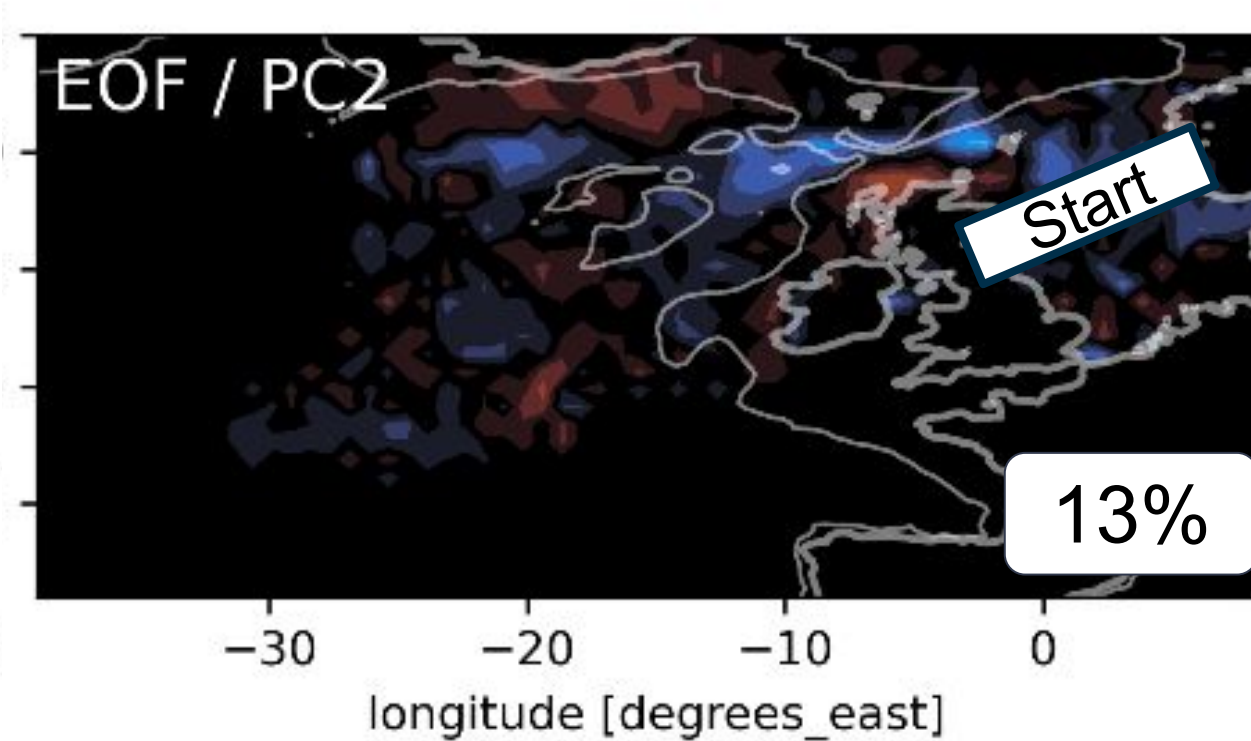
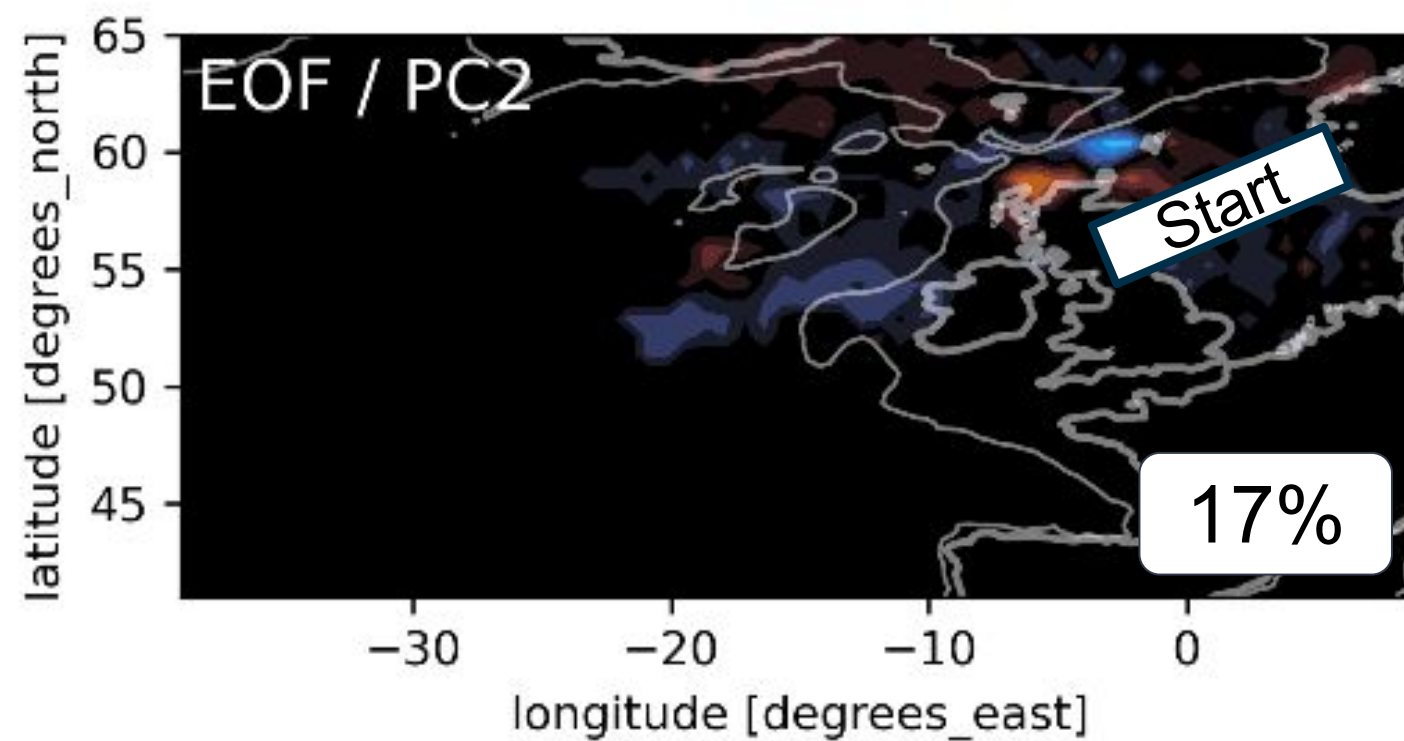
log(mean)

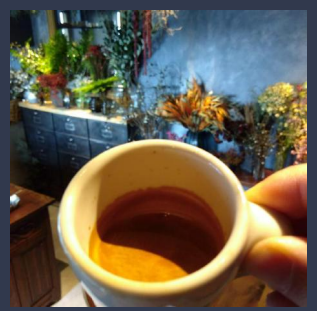


EOF1



EOF2

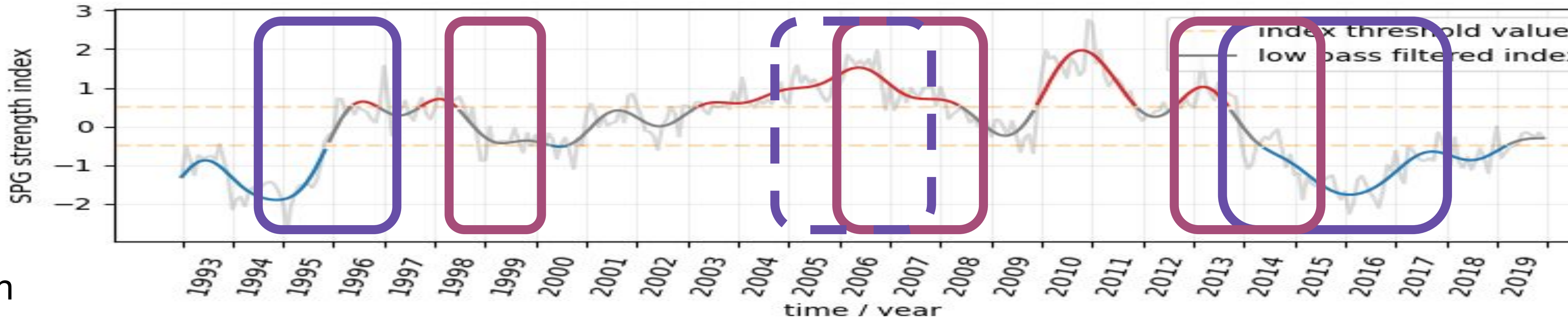




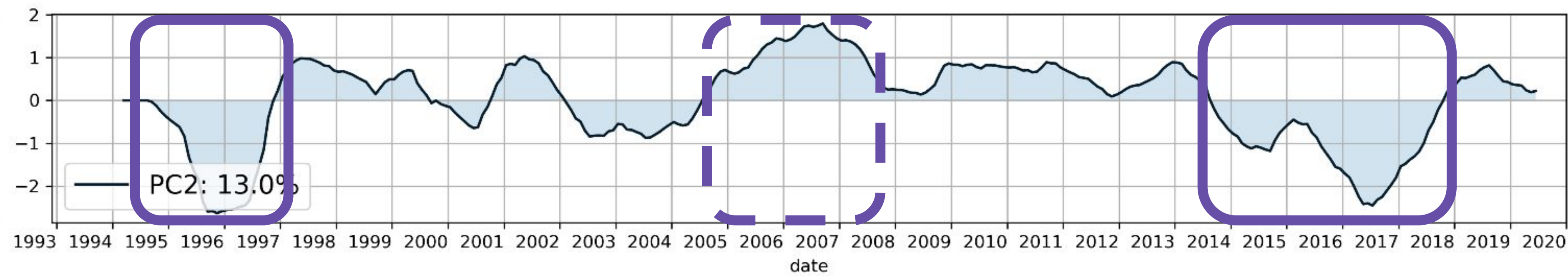
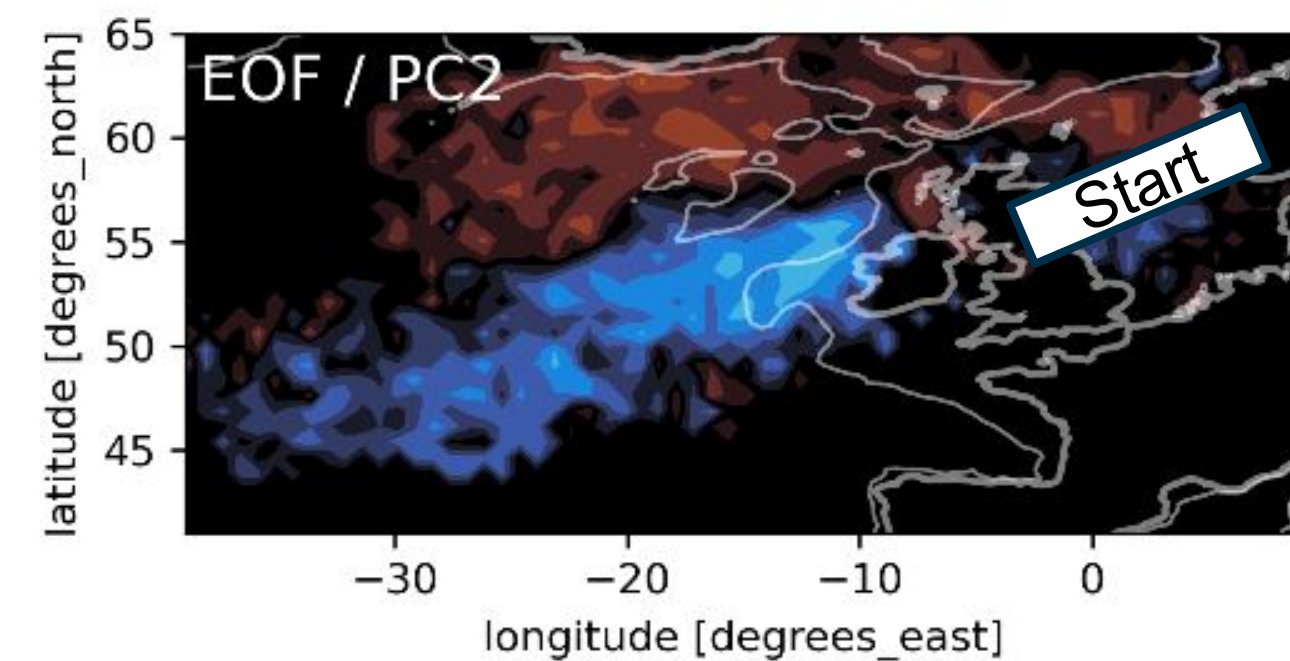
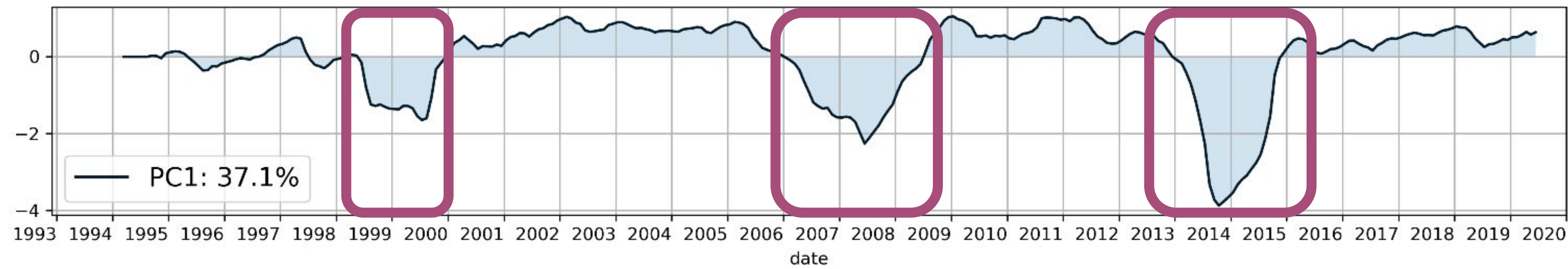
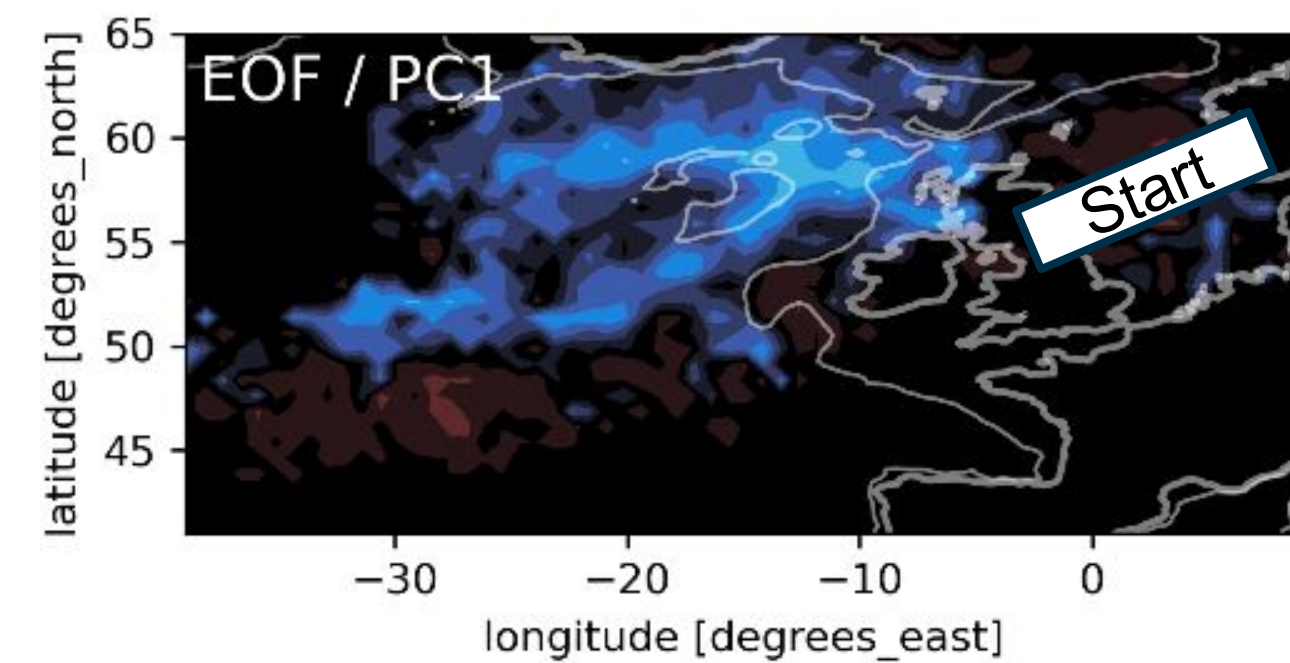
And?

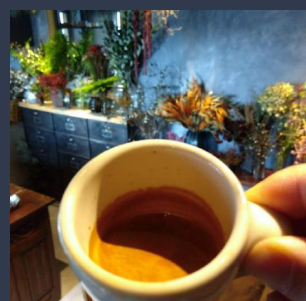
weak SPG

strong SPG



12 month origin



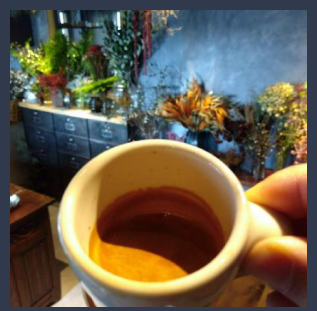


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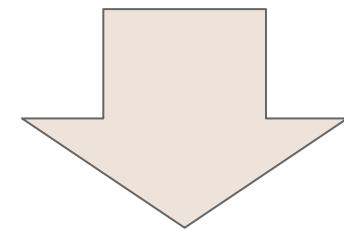
Well...



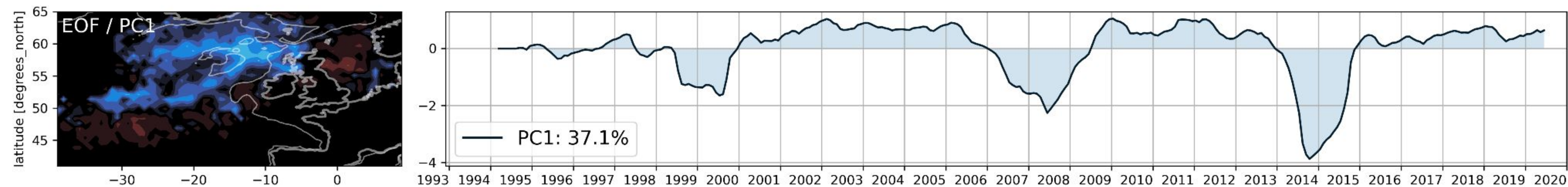
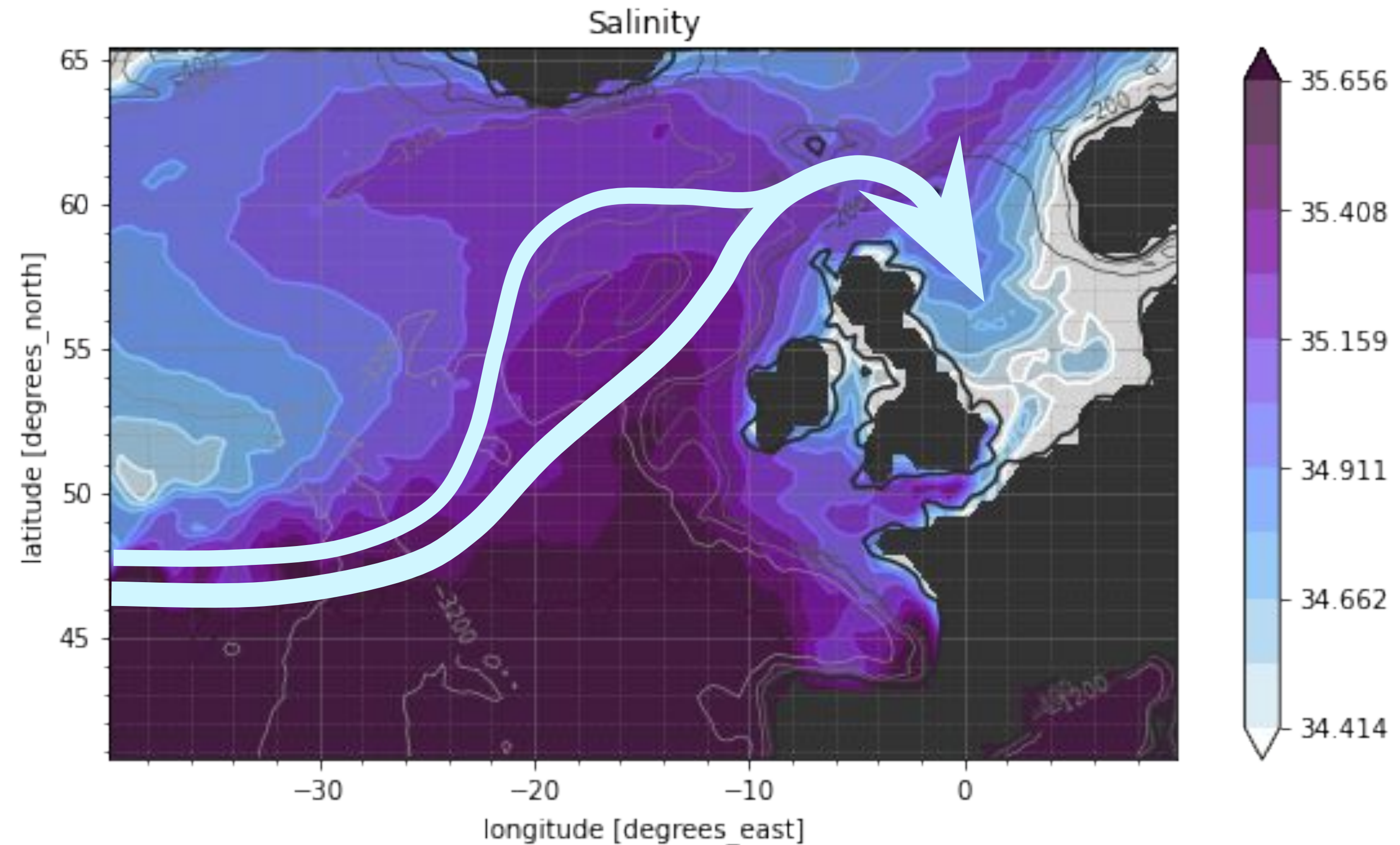


Planned next step

(Actually) **linking geostrophy to water-mass properties**



Decorrelation-time between origin and seeding for T and S



Reach out to me!



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