



On the mechanisms that give rise to predictive skill on seasonal-to-decadal timescales

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On the mechanisms that give rise to predictive skill on seasonal-to-decadal timescales: with a focus on the North Atlantic

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Thanks to: Paul-Arthur Monerie, Pablo Ortega, Irene Polo, Matt Menary, Fangxing Tian, Buwen Dong, Dan Hodson, Rowan Sutton, Nick Dunstone, Doug Smith, Leon Hermanson, Steve Yeager, David Thornalley

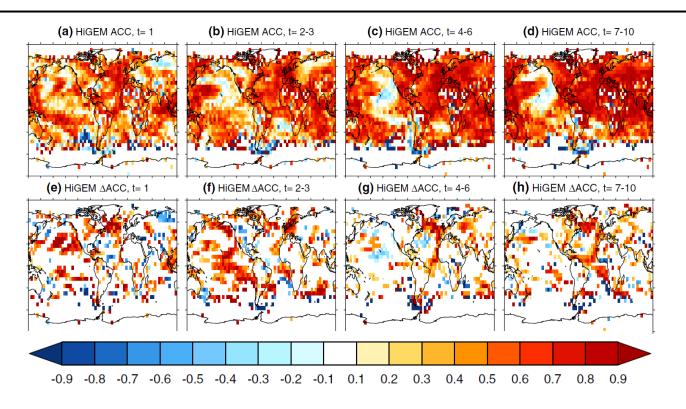






Why study mechanisms in S2D?





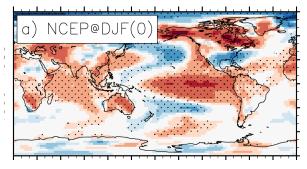
Shaffrey et al, 2017

- Can we expect similar skill in the future?
- Prediction is the ultimate test of our knowledge
 - S2D has highlighted that models underestimate the predictable signal in NAO
- S2D data sets are huge! Novel ways to assess the processes in models?

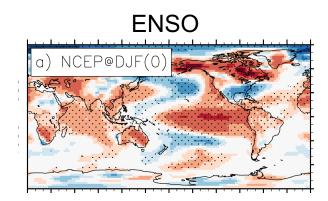




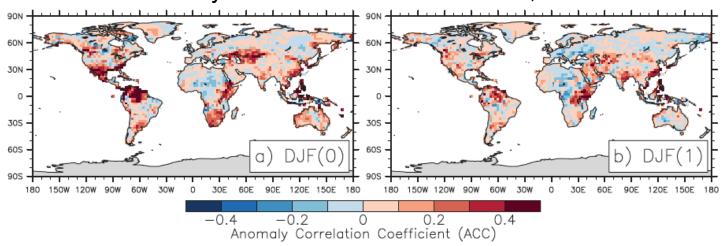
ENSO





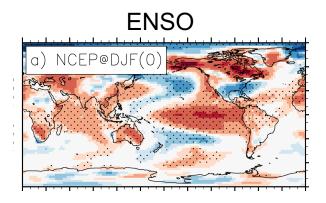


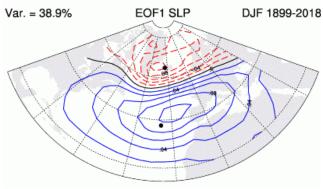
Precip - ACC attributable to ENSO DePreSys3 1990-2015 – 40 members, Nov start



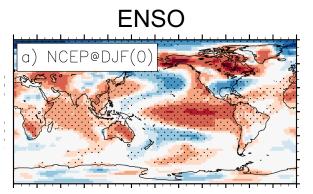
Courtesy Paul-Arthur Monerie and Nick Dunstone

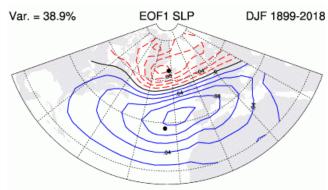


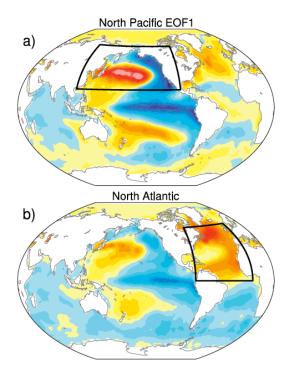




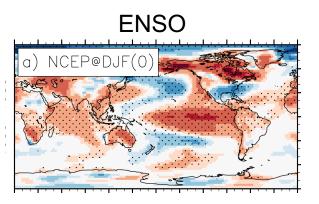


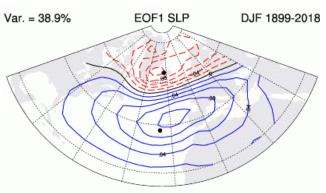


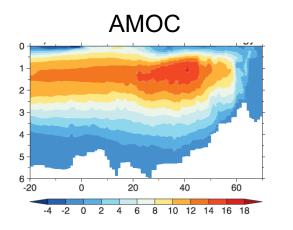


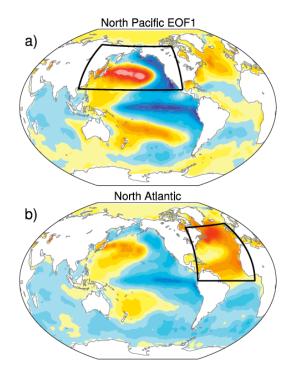




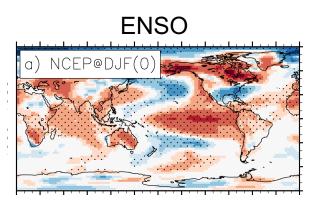


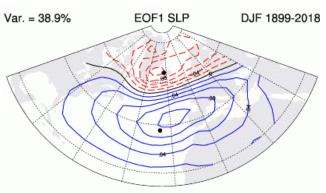


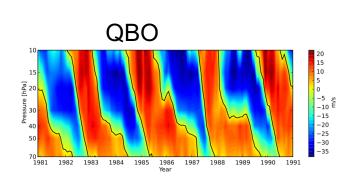


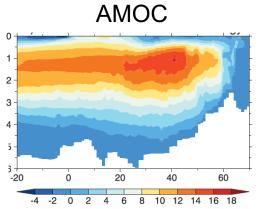


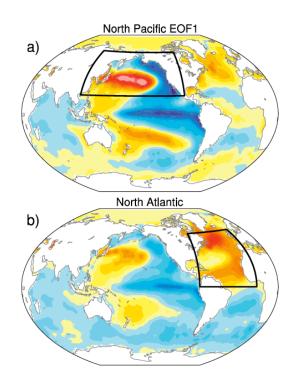


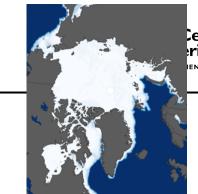




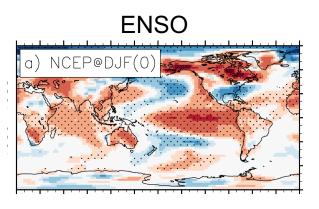


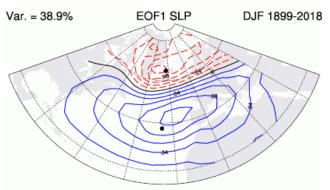


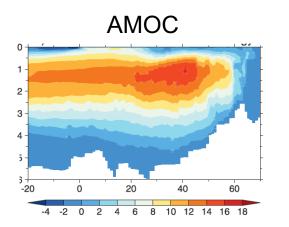


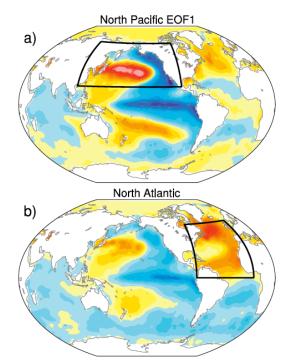


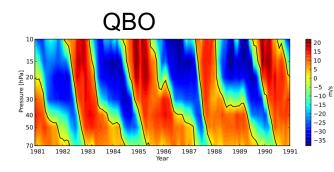
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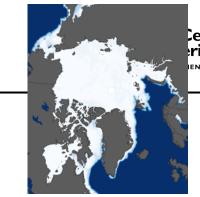




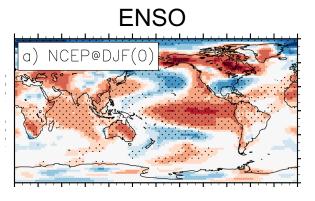


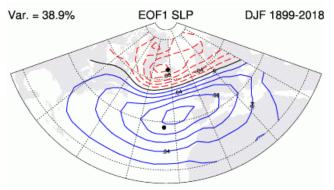


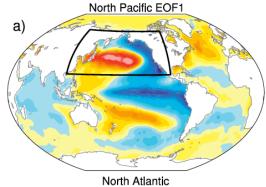


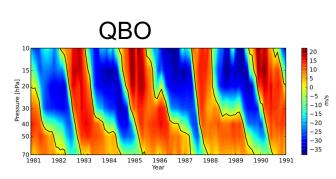


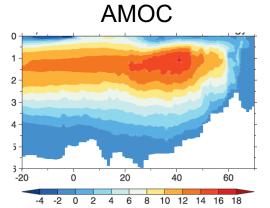


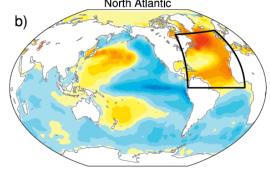


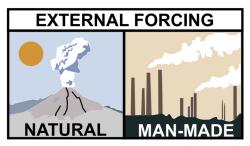


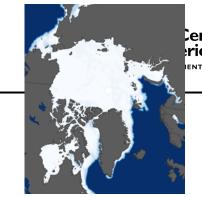




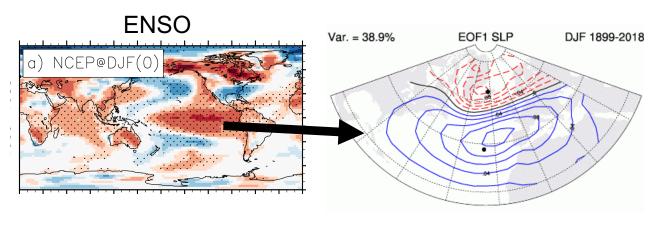


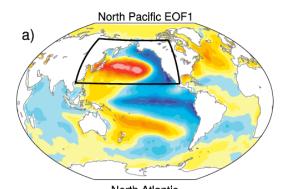


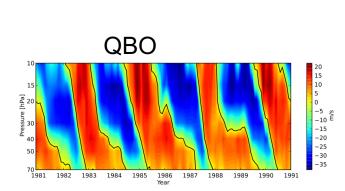


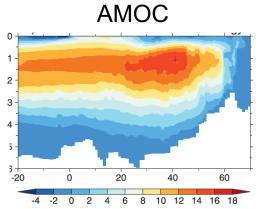


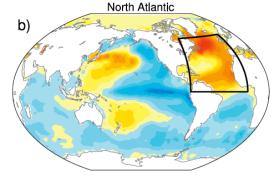
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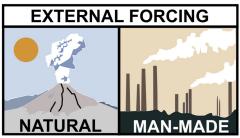


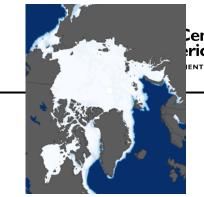




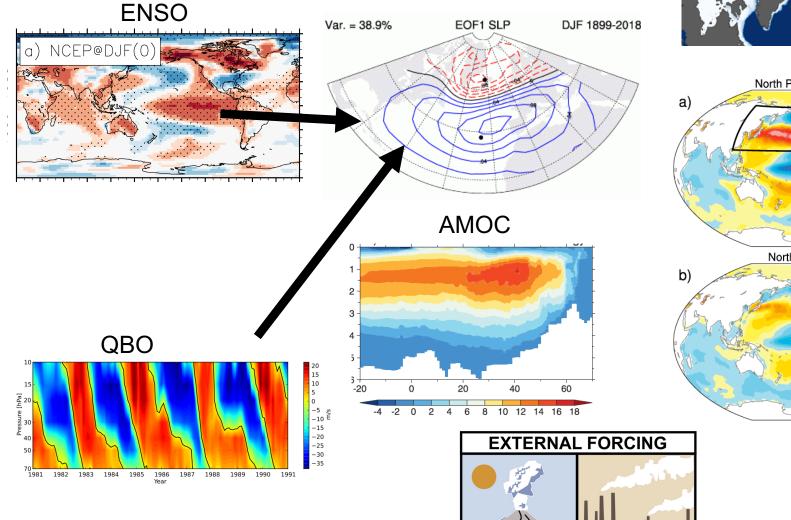




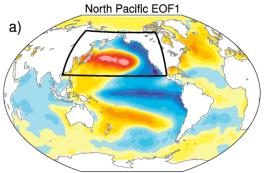


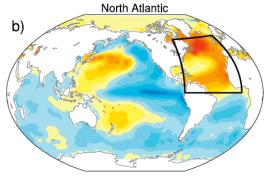


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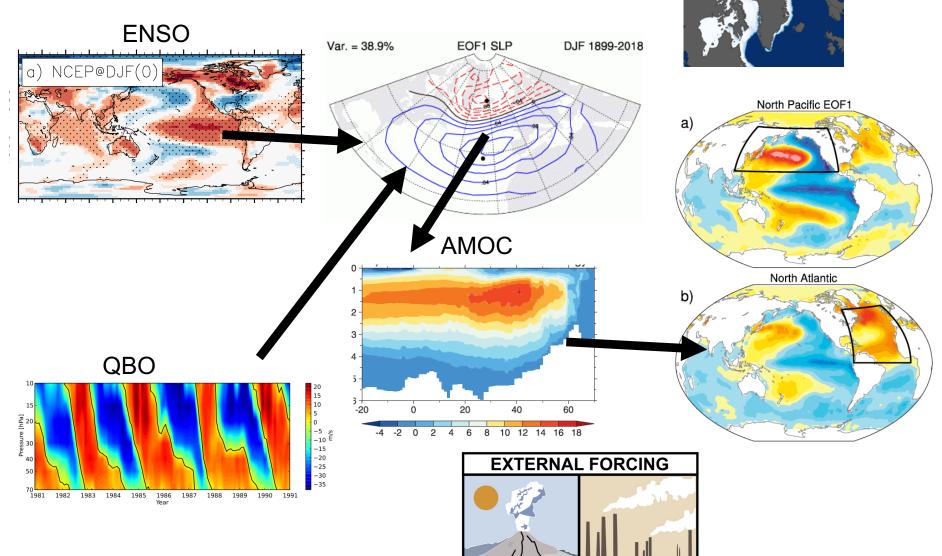


NATURAL



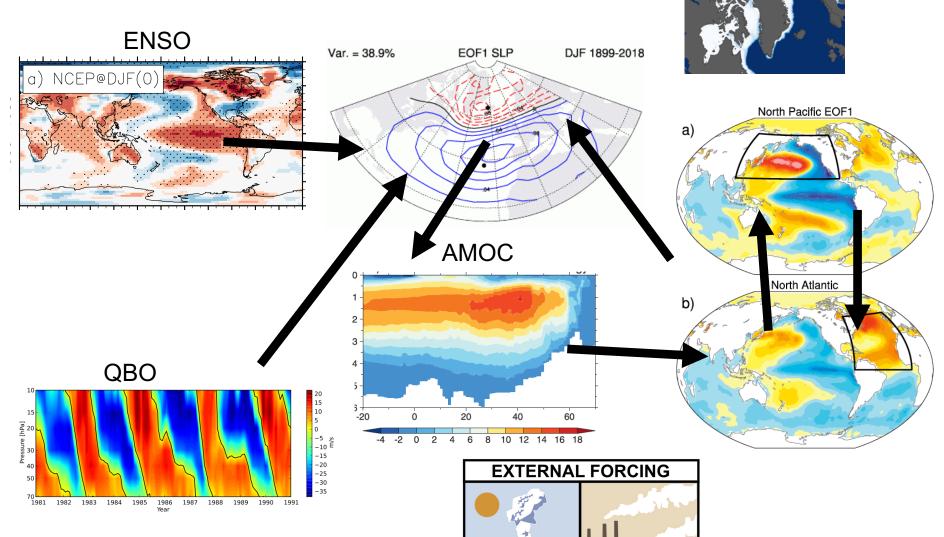






NATURAL





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