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Marine Institute

Lough Feeagh

Past, Present and Future

Elvira de Eyto
UKLIN October 2025



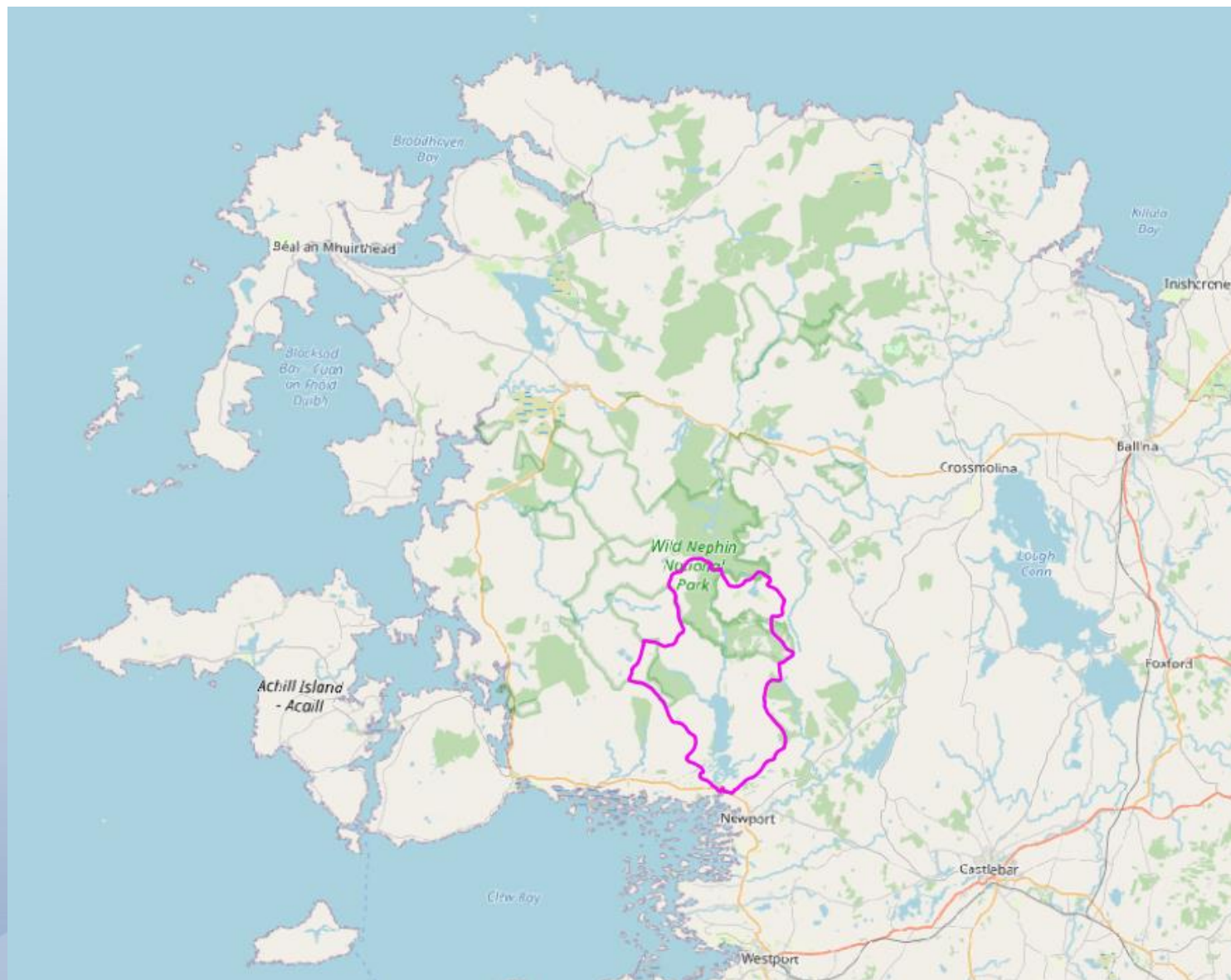


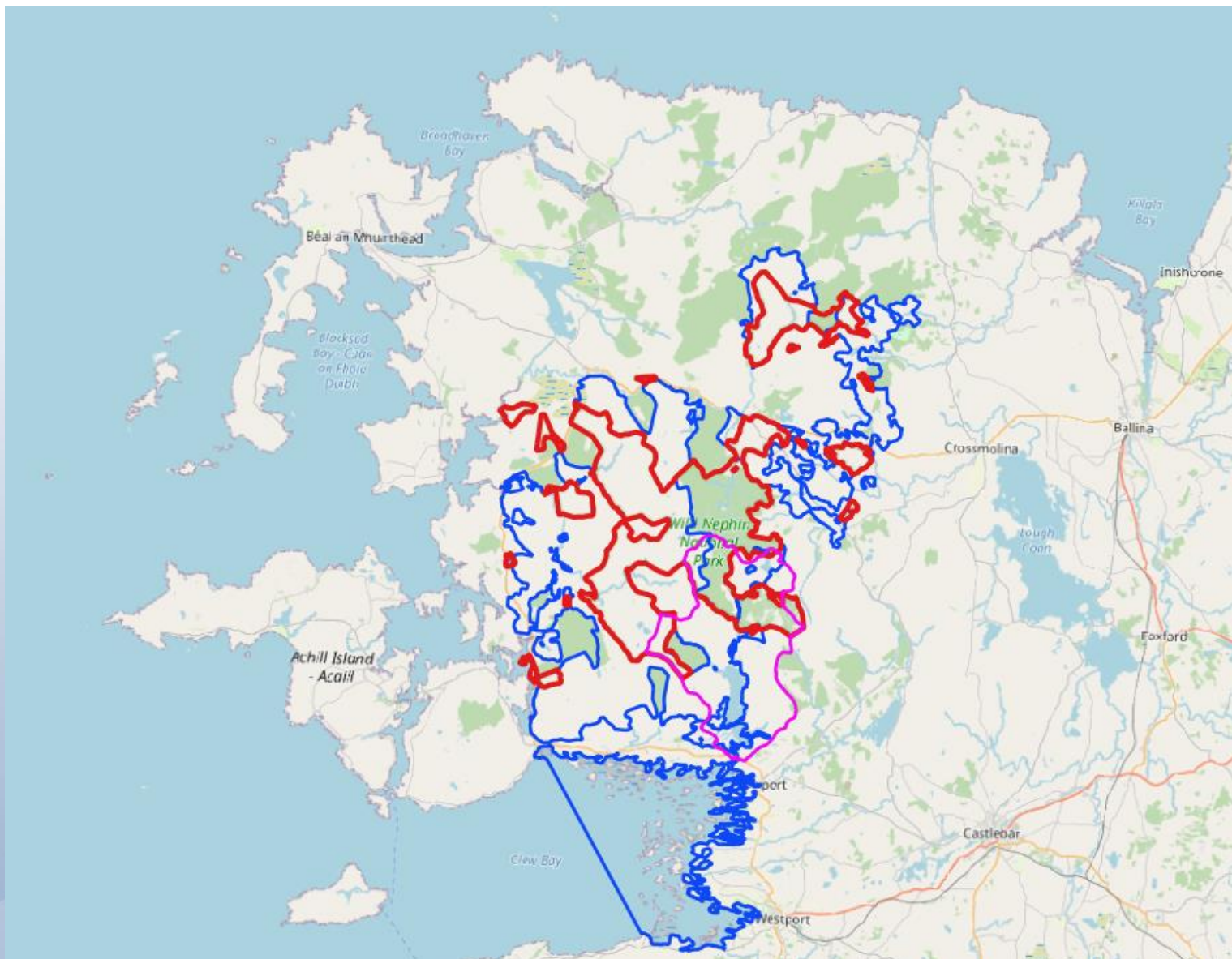
Rogan





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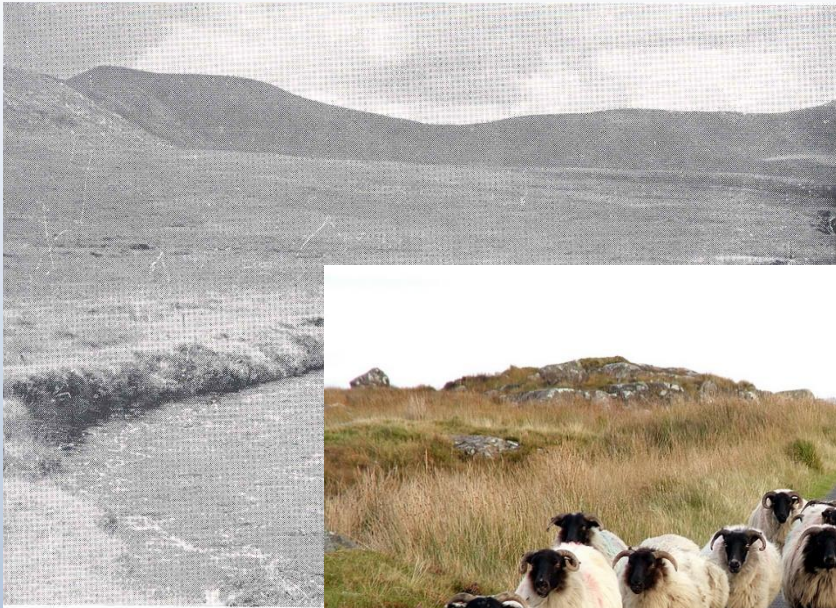


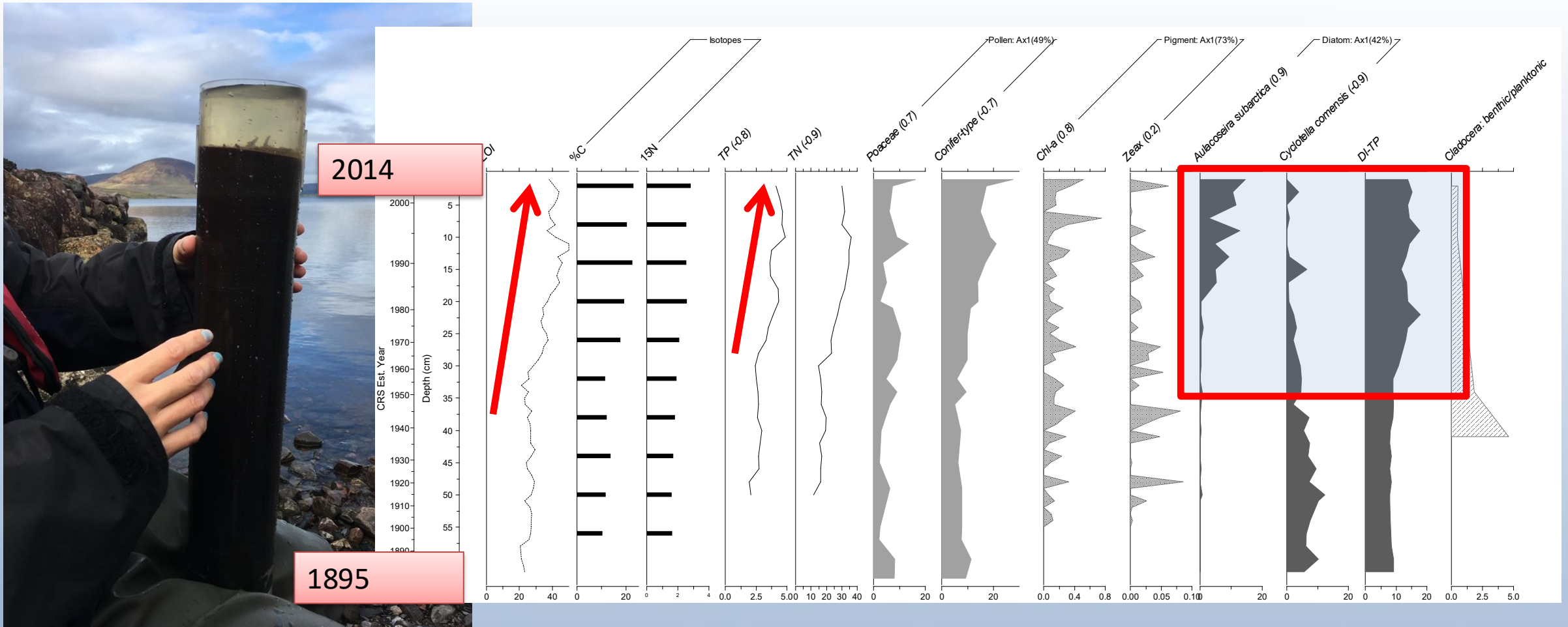
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Past



Changes in freshwater habitats



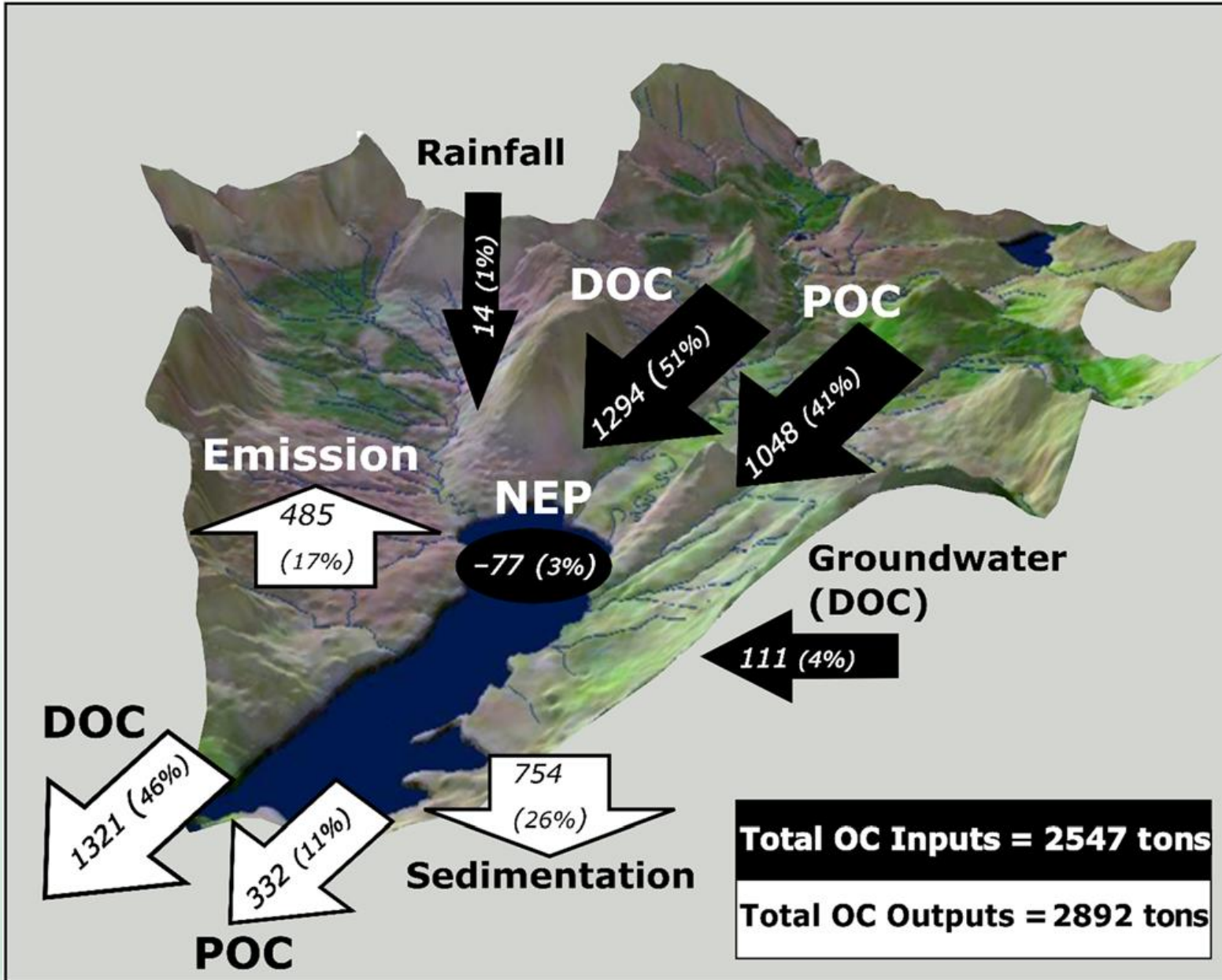




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Present

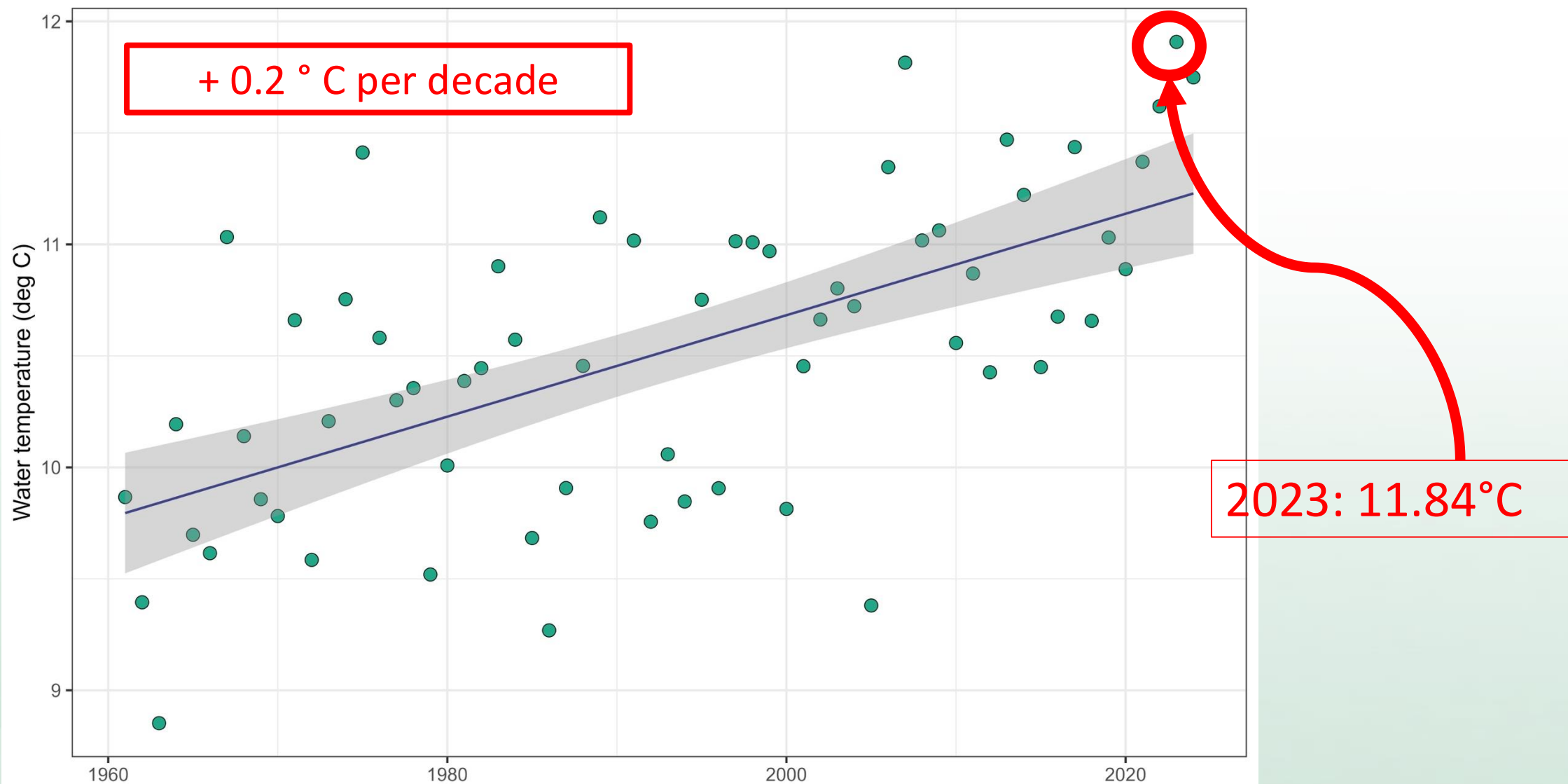




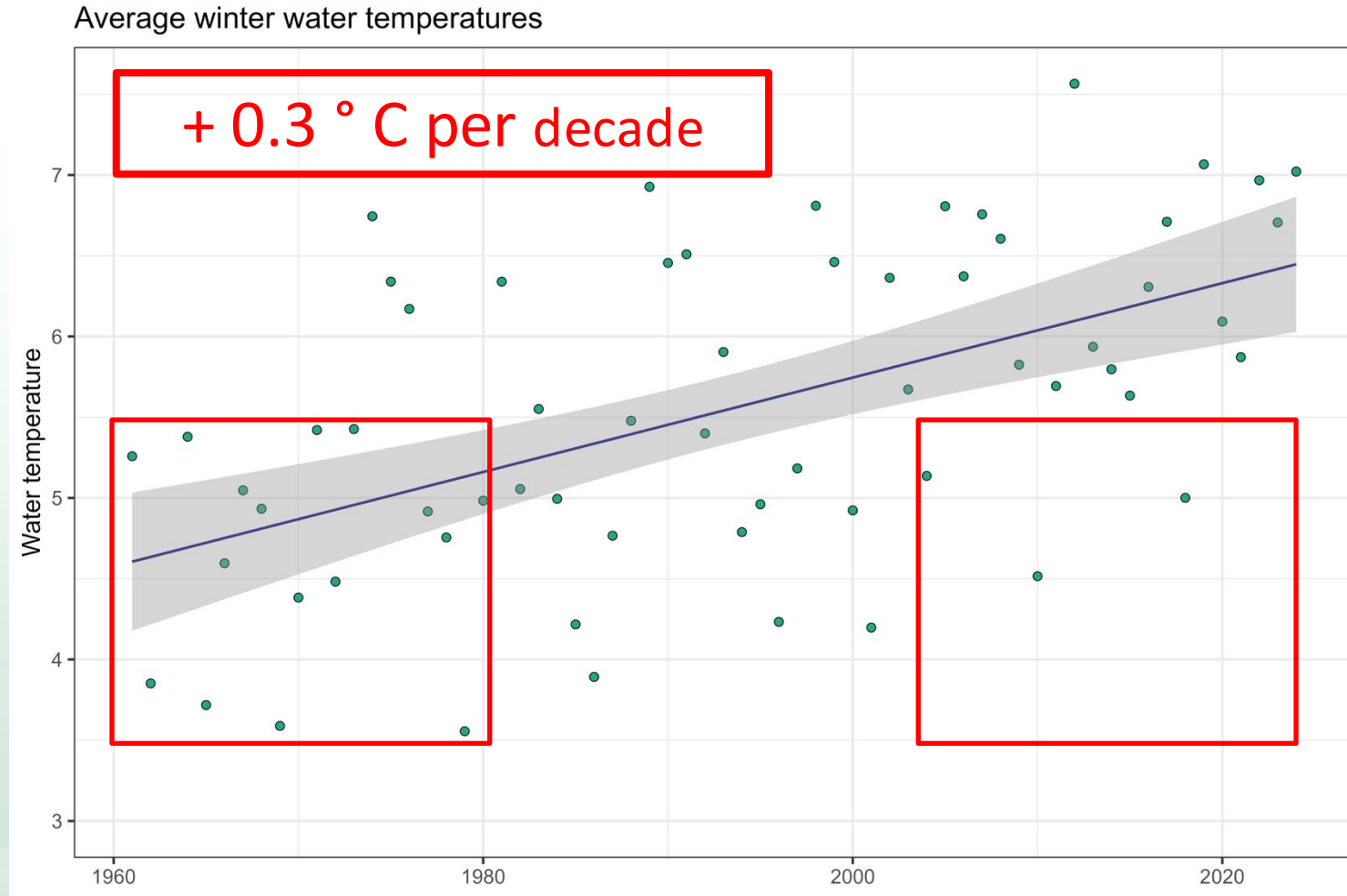
Doyle B.C. et al (2023). *Limnology and Oceanography* **68**, 544–556.
<https://doi.org/10.1002/lno.12292>

The water is getting warmer

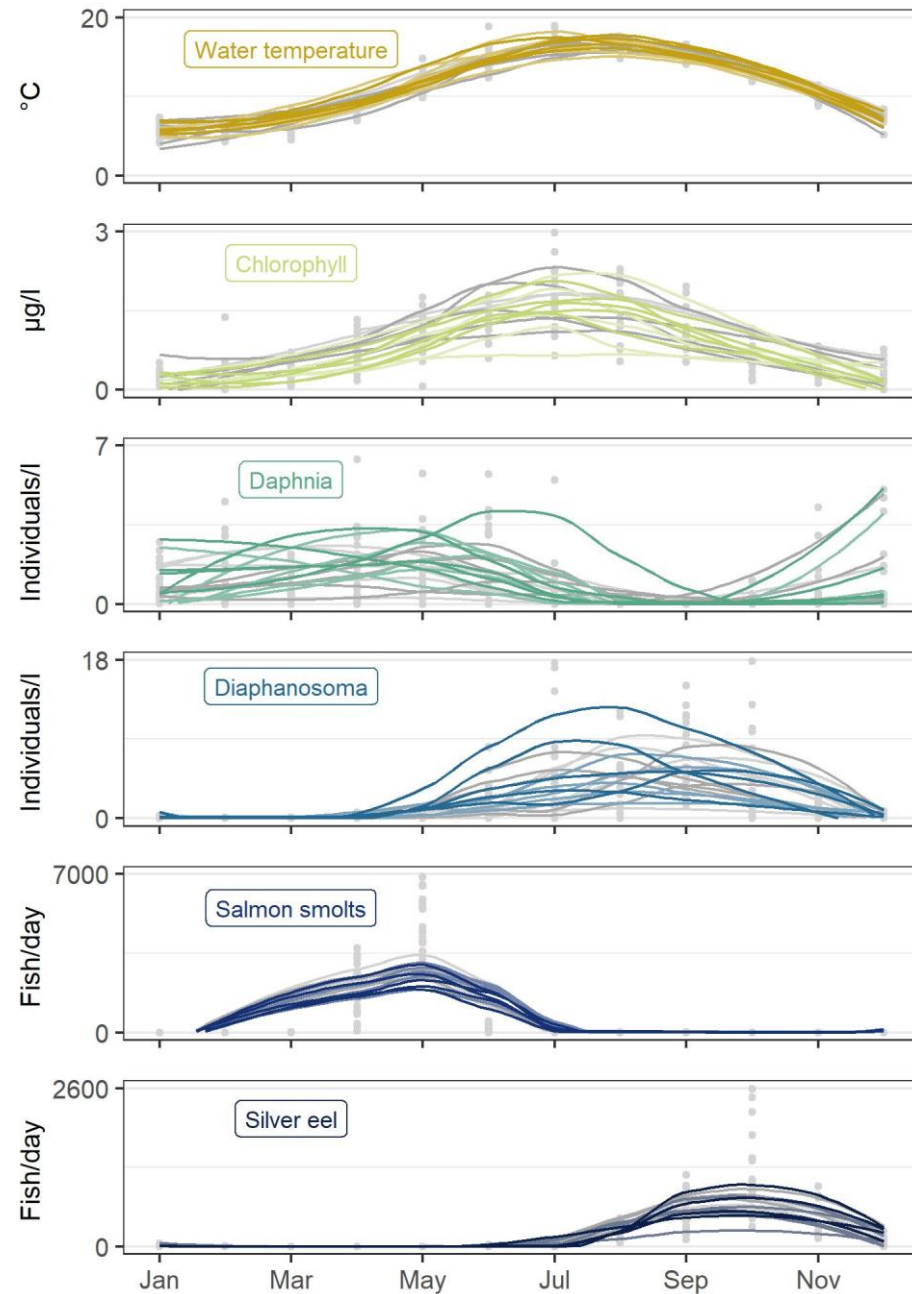
Average annual water temperatures

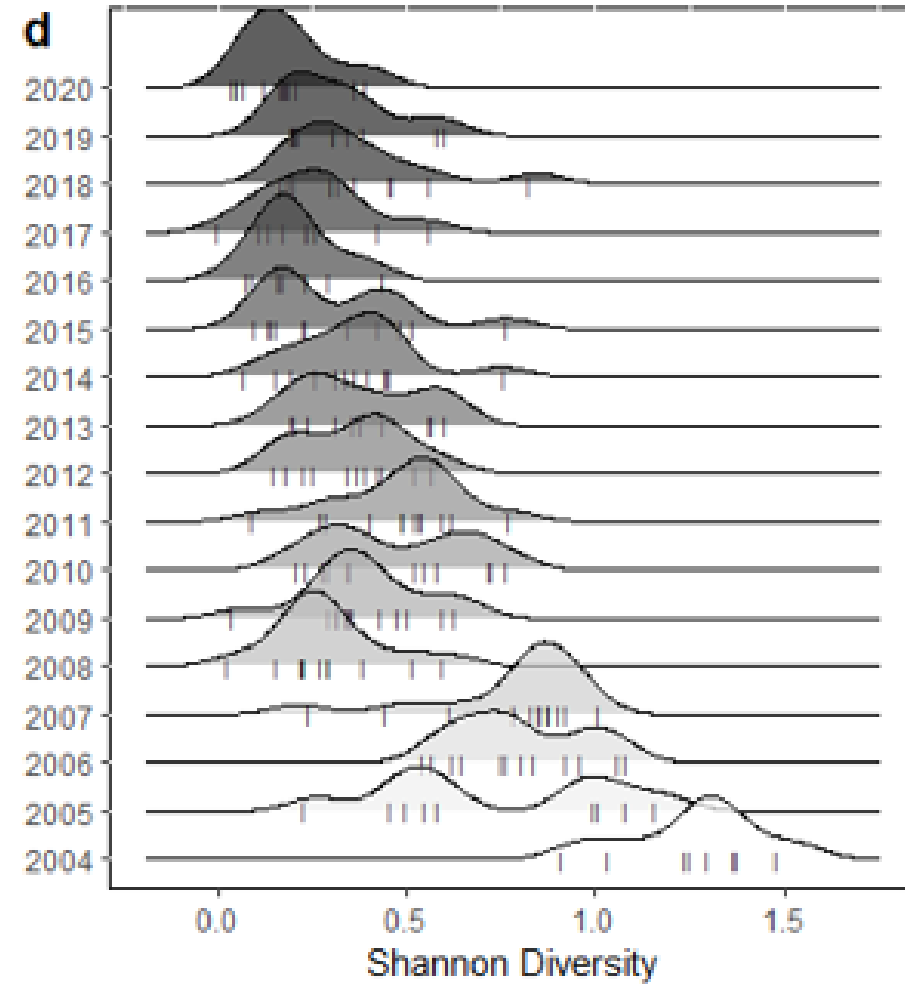
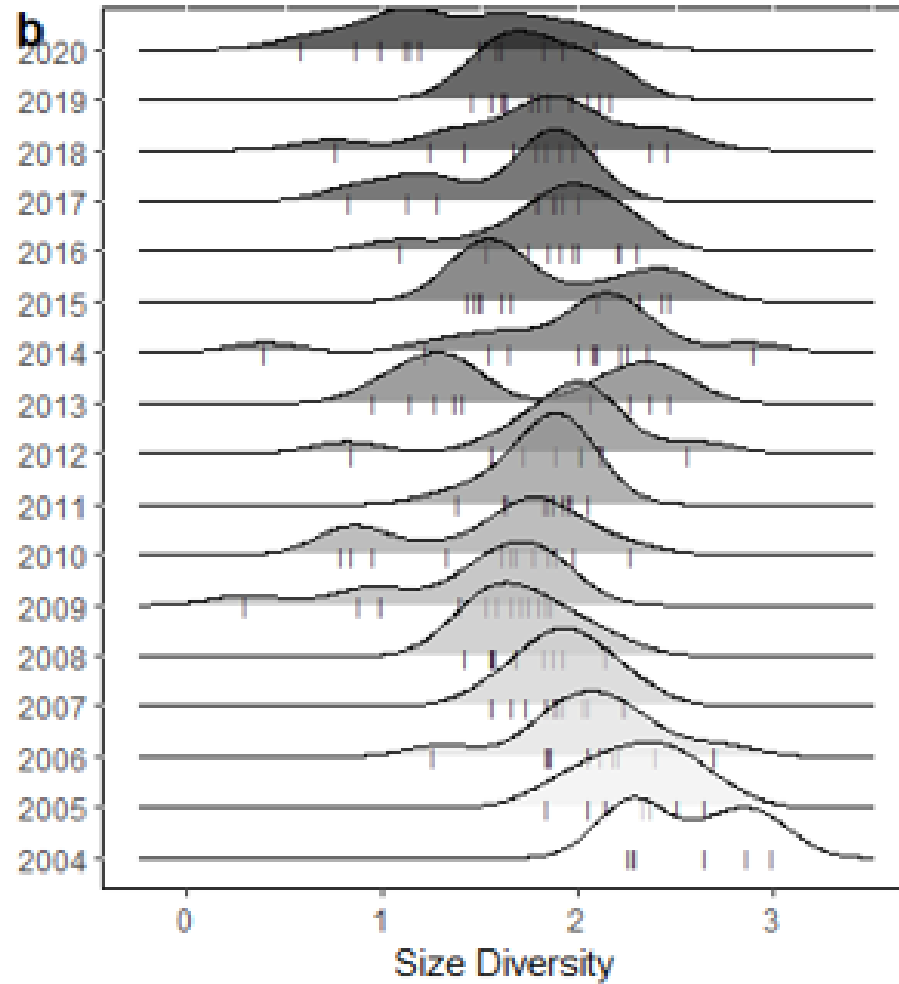


Especially in winter.....



Phenology



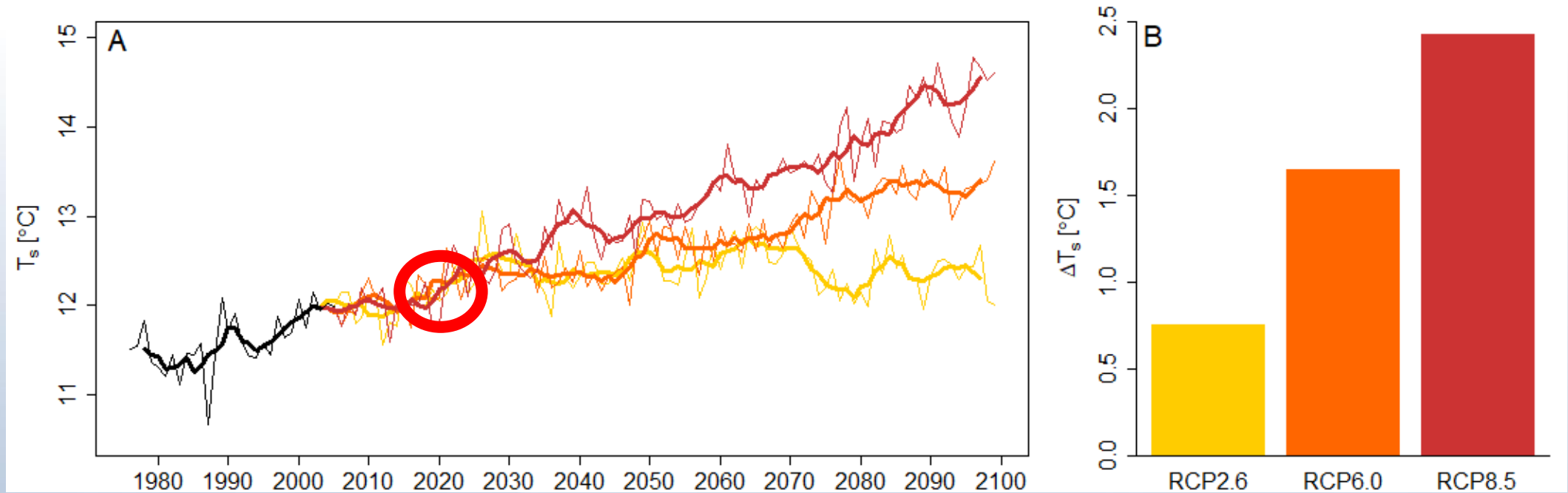


Future



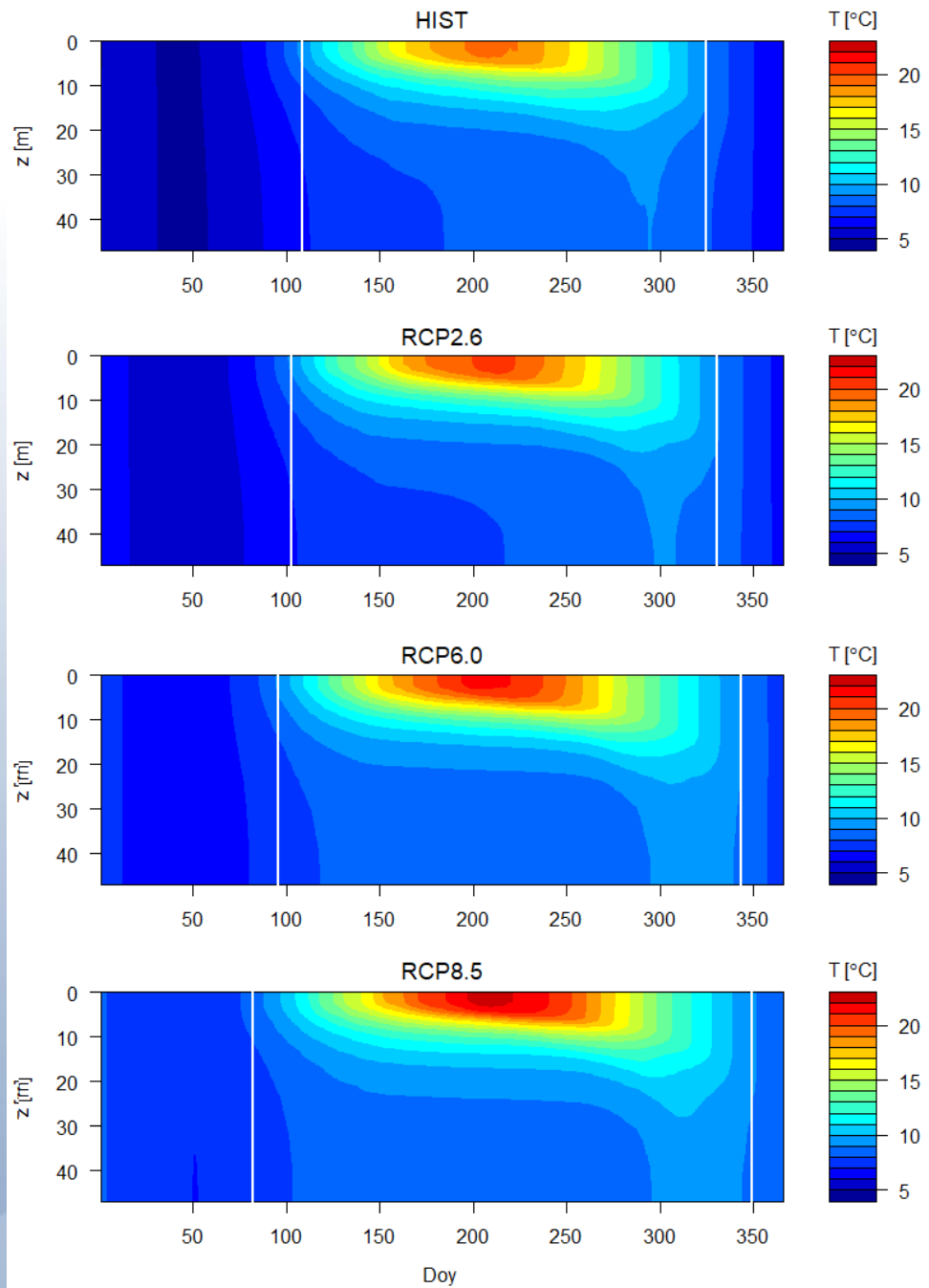
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Ayala et al 2023

<https://doi.org/10.1353/bae.2023.a916008>

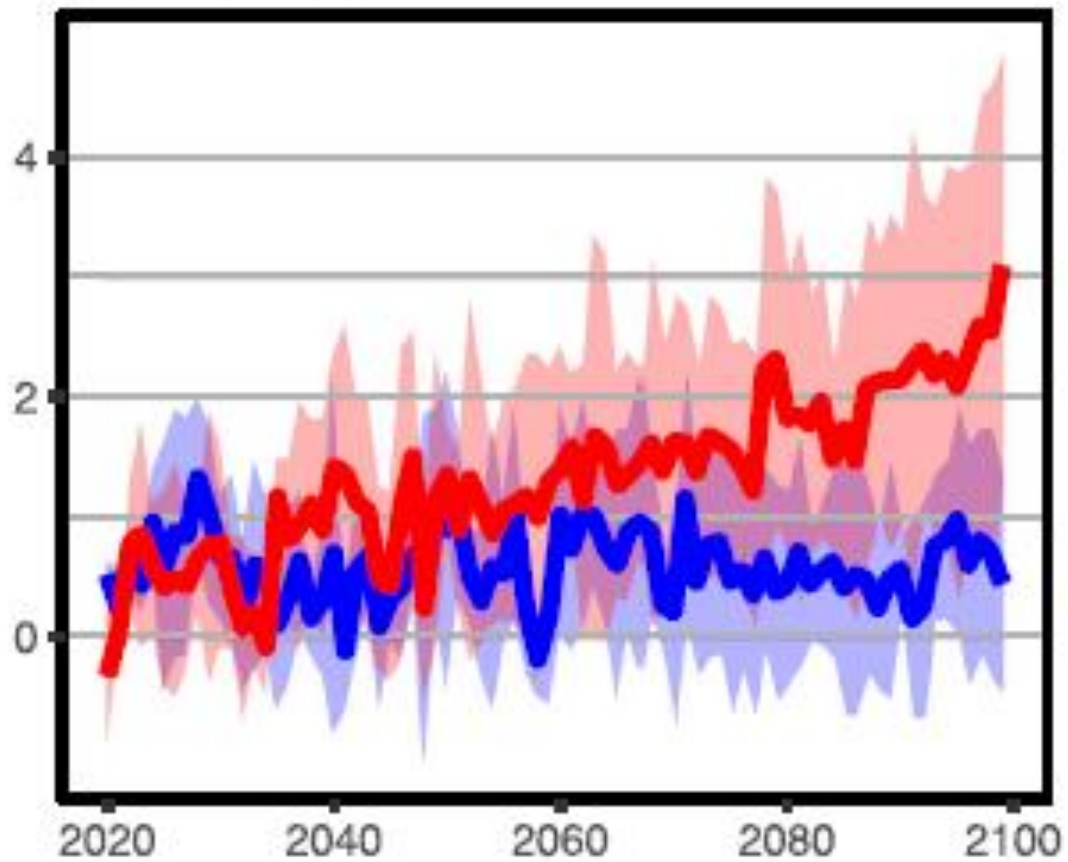




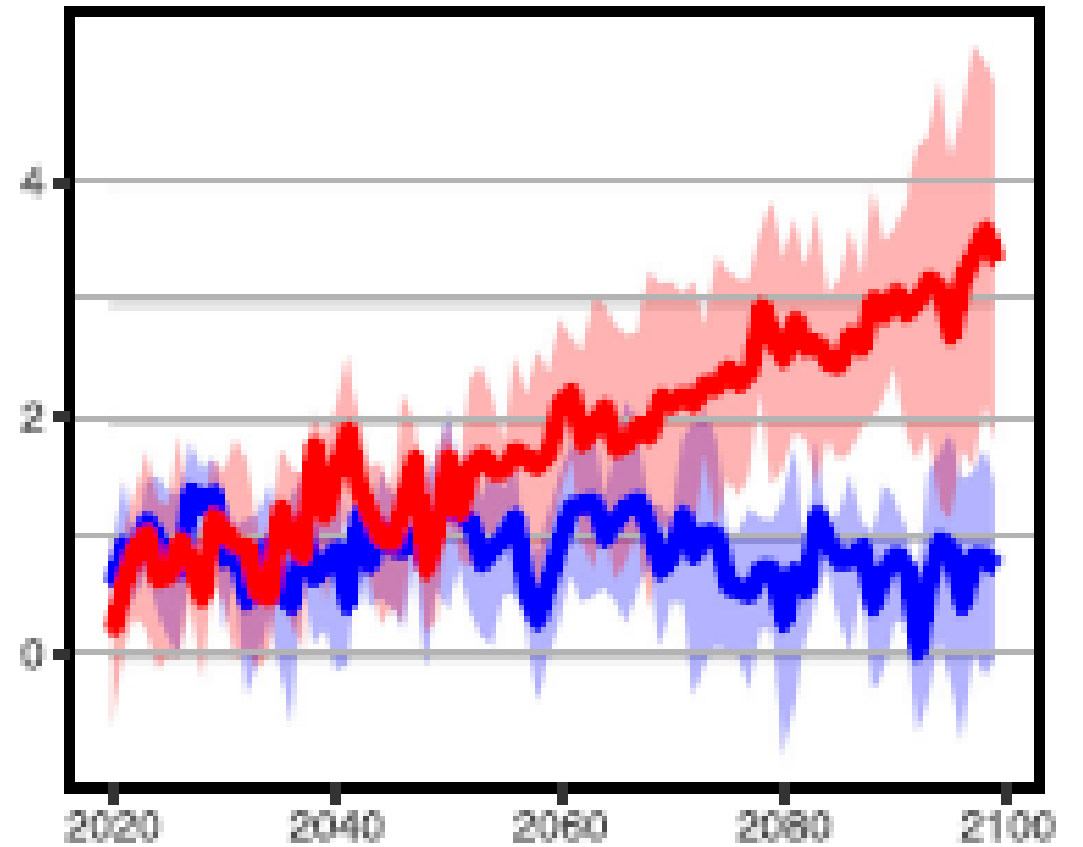
Kelly et al 2020 Climatic change

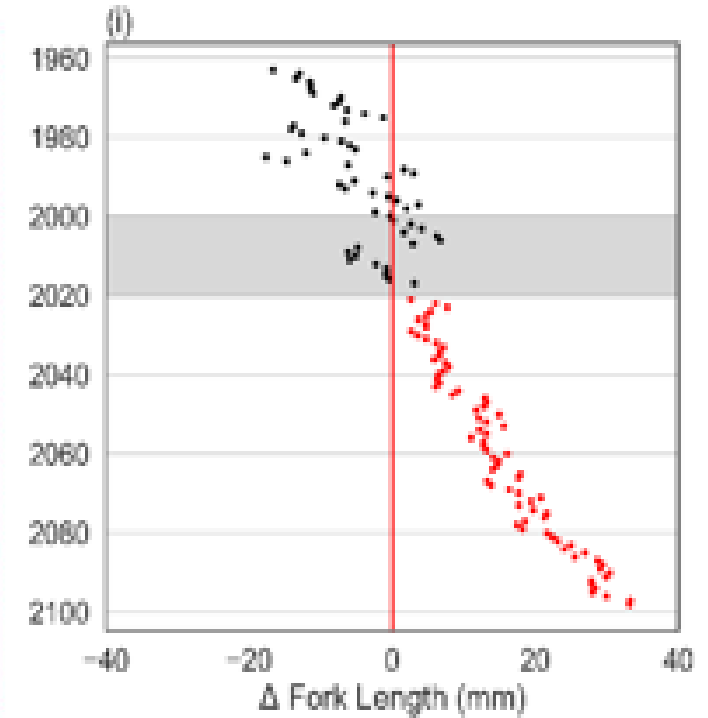
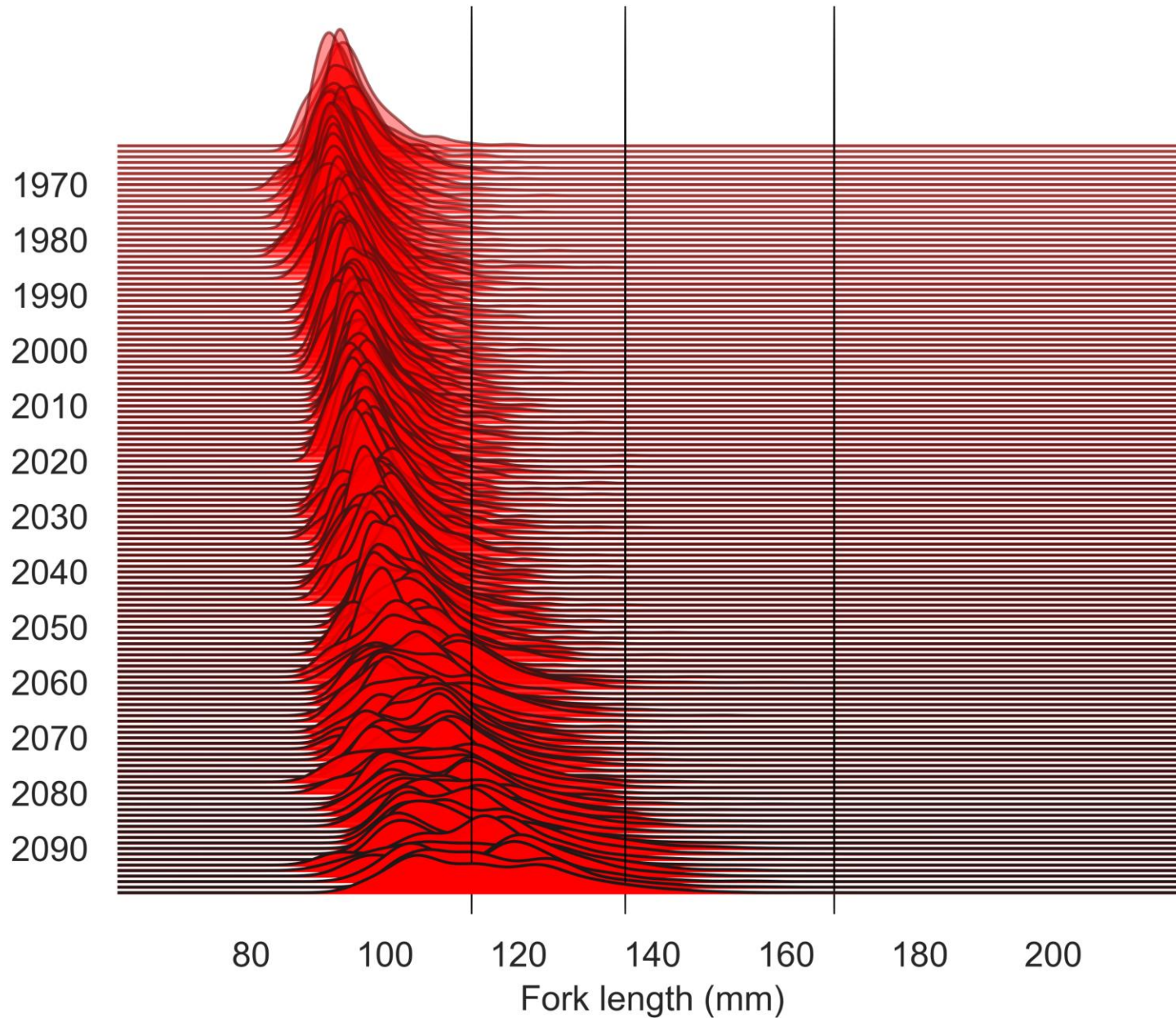
<https://doi.org/10.1007/s10584-020-02887-z>

Bunaveela



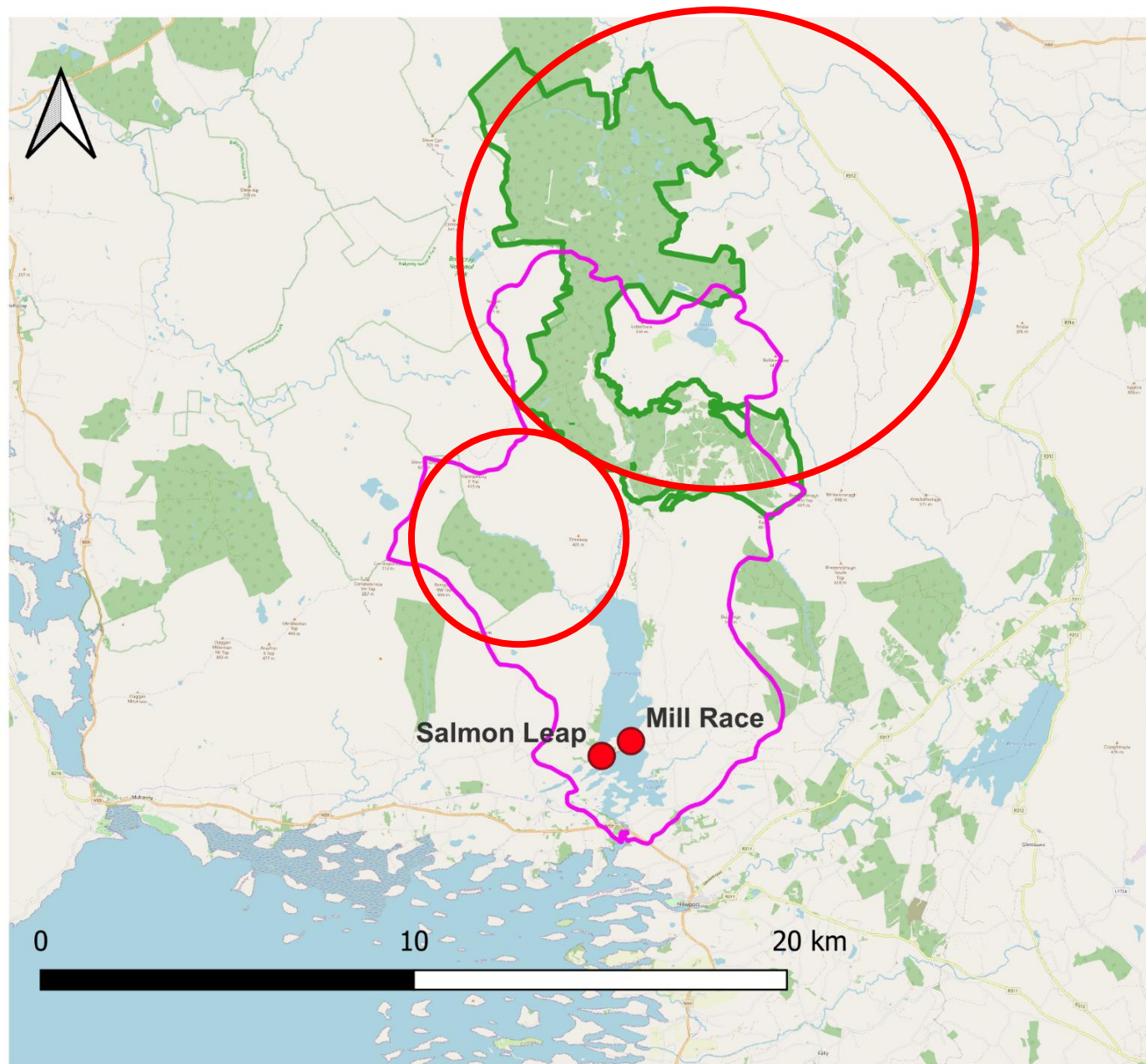
Windermere





Rinaldo et al 2024

<https://doi.org/10.1111/jfb.15603>





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What can we realistically expect from catchment scale restoration?

- Less erosion of peat
- Less Carbon loss
- Higher freshwater survival of salmon
- More productivity
- More stable thermal regime
- Increase in biodiversity
- Ecosystem resilience



Thank you



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