



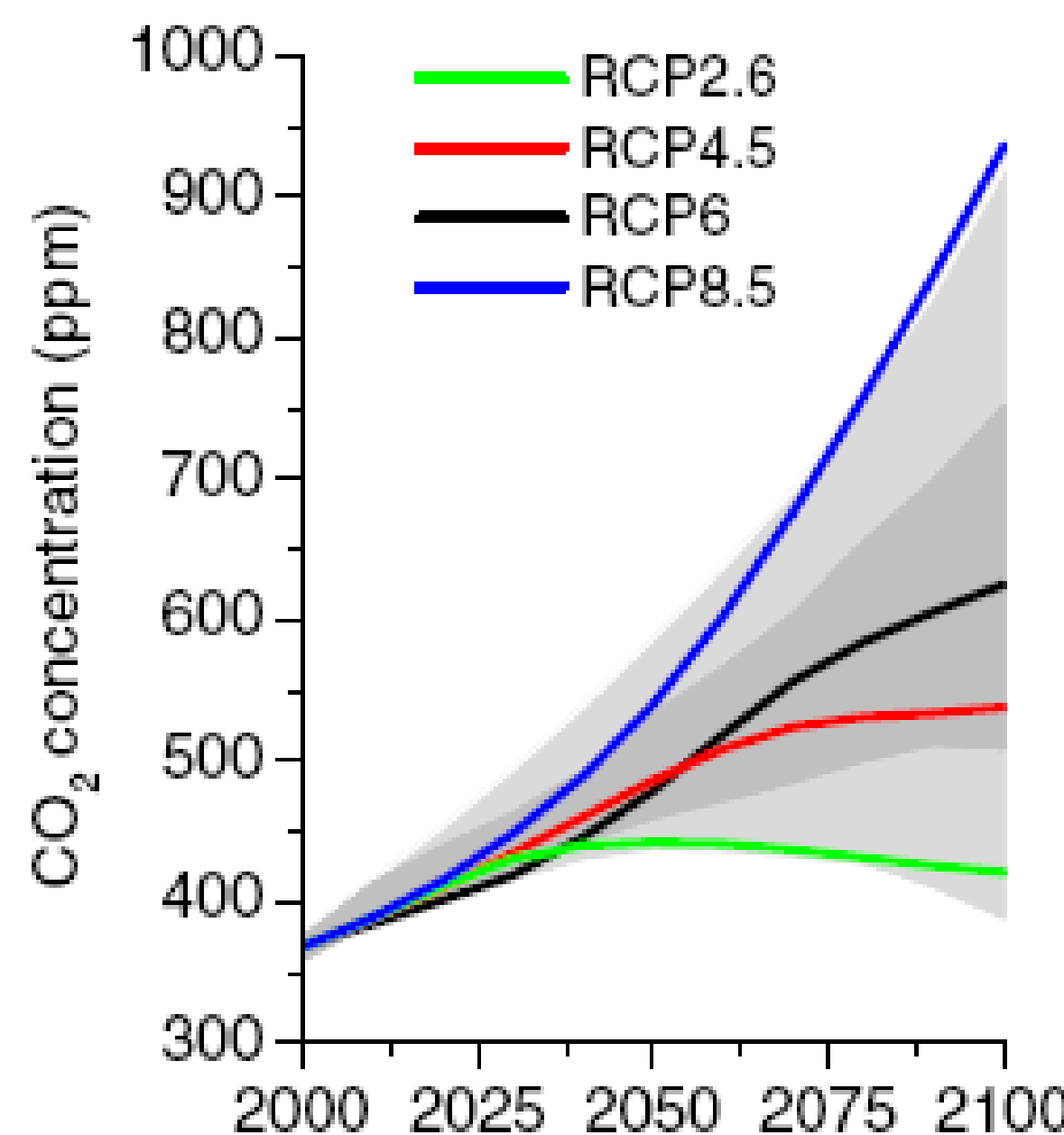
BLUEFISH: Shifting shellfish distributions of the NE Atlantic

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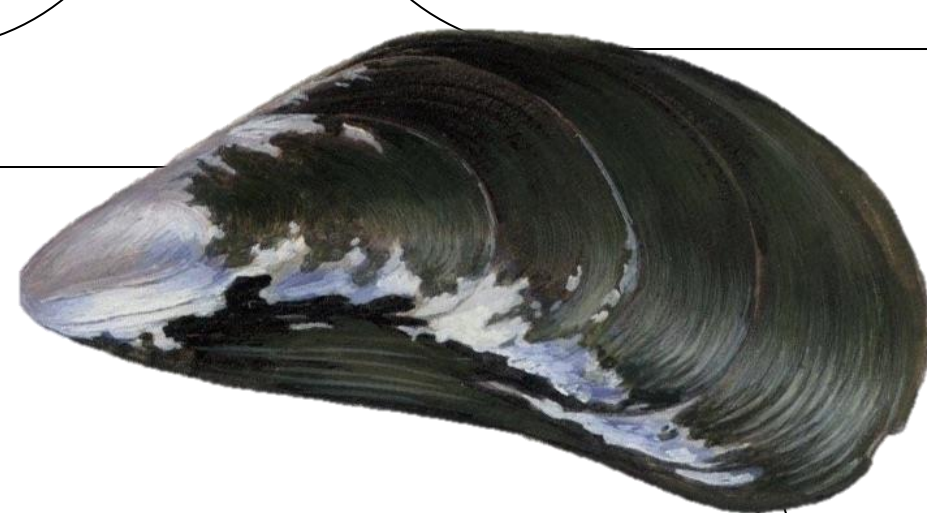


- Climate change is causing redistribution of shellfish
- We use species distribution modelling to predict where species will occur under various climate scenarios.

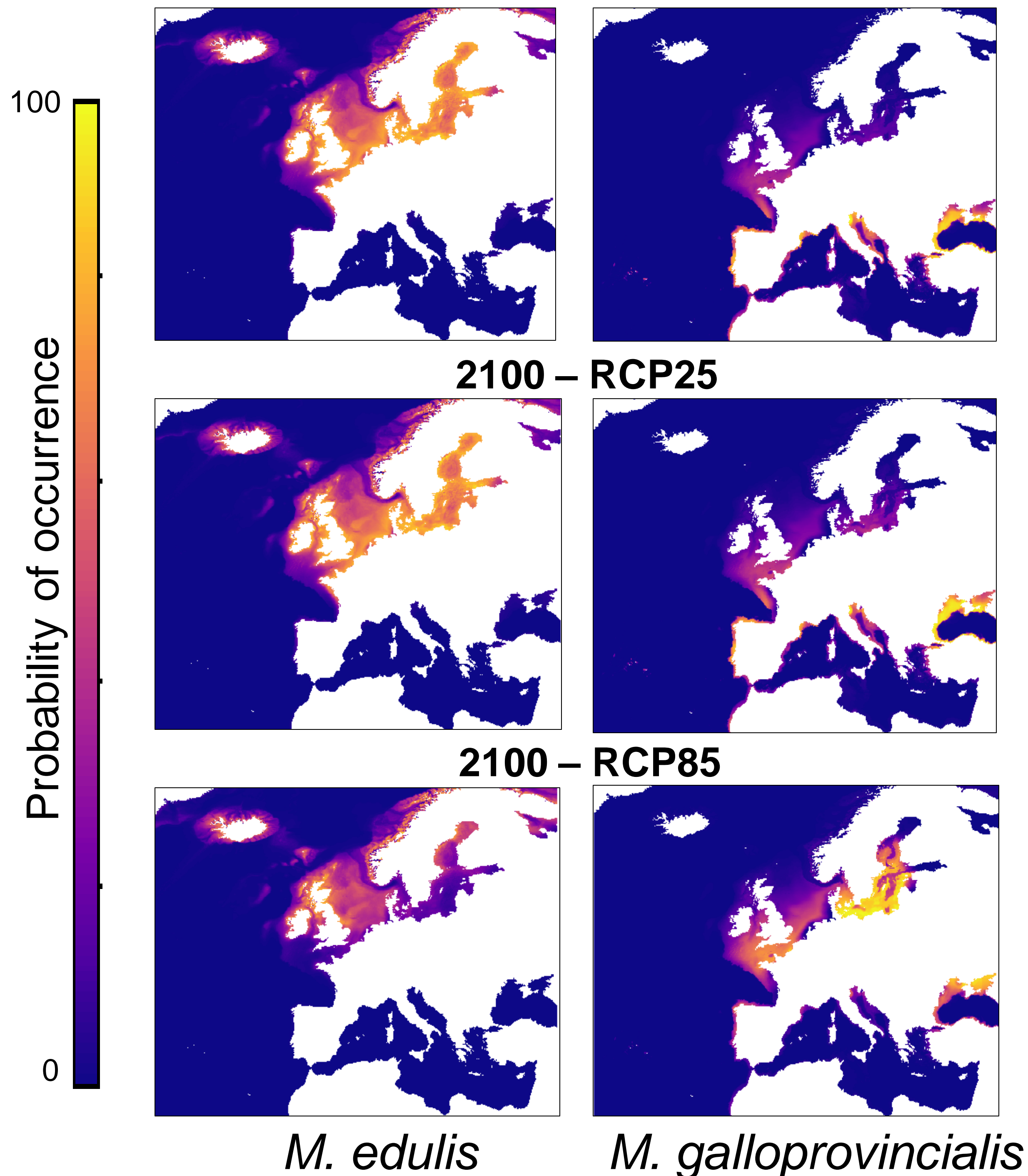


- Emissions scenarios vary widely which **impacts severity of predictions**
- RCP2.6 – emissions substantially cut
- RCP8.5 – “Business as usual”

Mytilus sp. mussels



Current Distribution



M. edulis

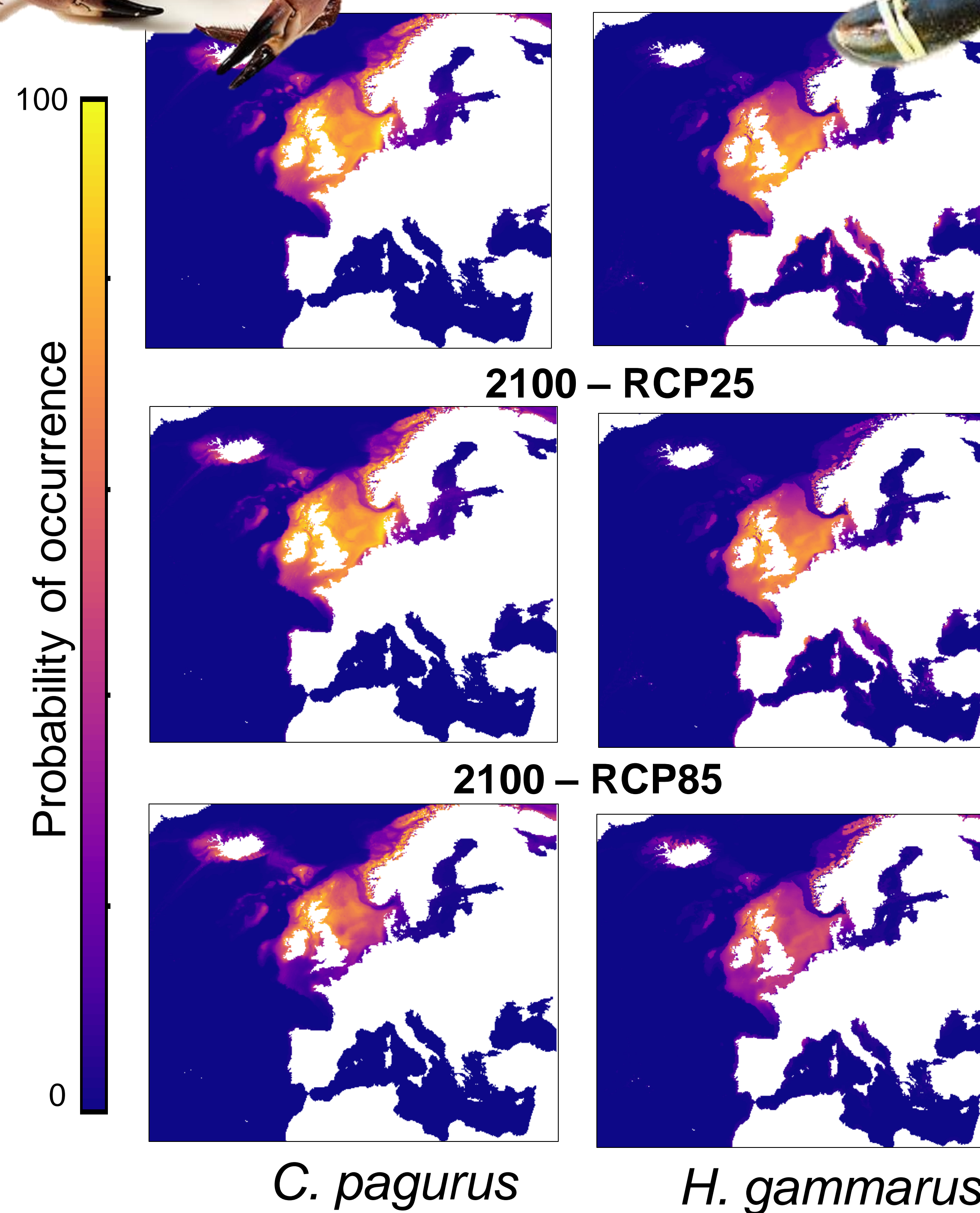
M. galloprovincialis

Cool boreal *M. edulis* will be replaced by warmer Mediterranean *M. galloprovincialis*

Crustaceans



Current Distribution



C. pagurus

H. gammarus

No functional replacement for contracting crab and lobsters

Naturalised aquaculture

- Pacific oyster is farmed throughout the NE Atlantic and naturalisation frontier currently in SW England

