

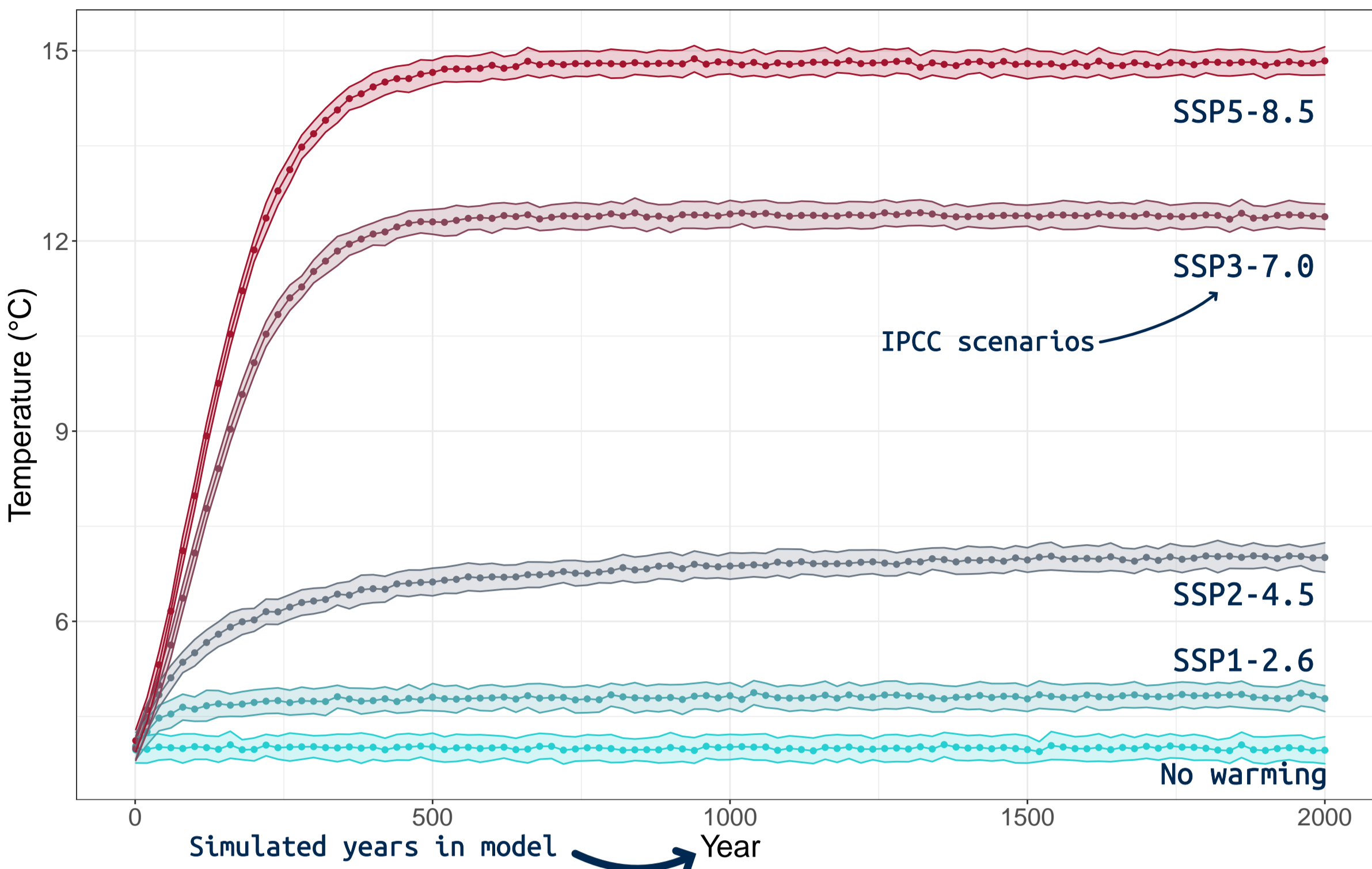
Evolution of Northeast Arctic cod (*Gadus morhua*) in response to concurrent fisheries and climate stressors.

Henrik H. Jessen^a, Anders F. Opdal^a, Katja Enberg^a



Currently looking for Post-doc opportunities!

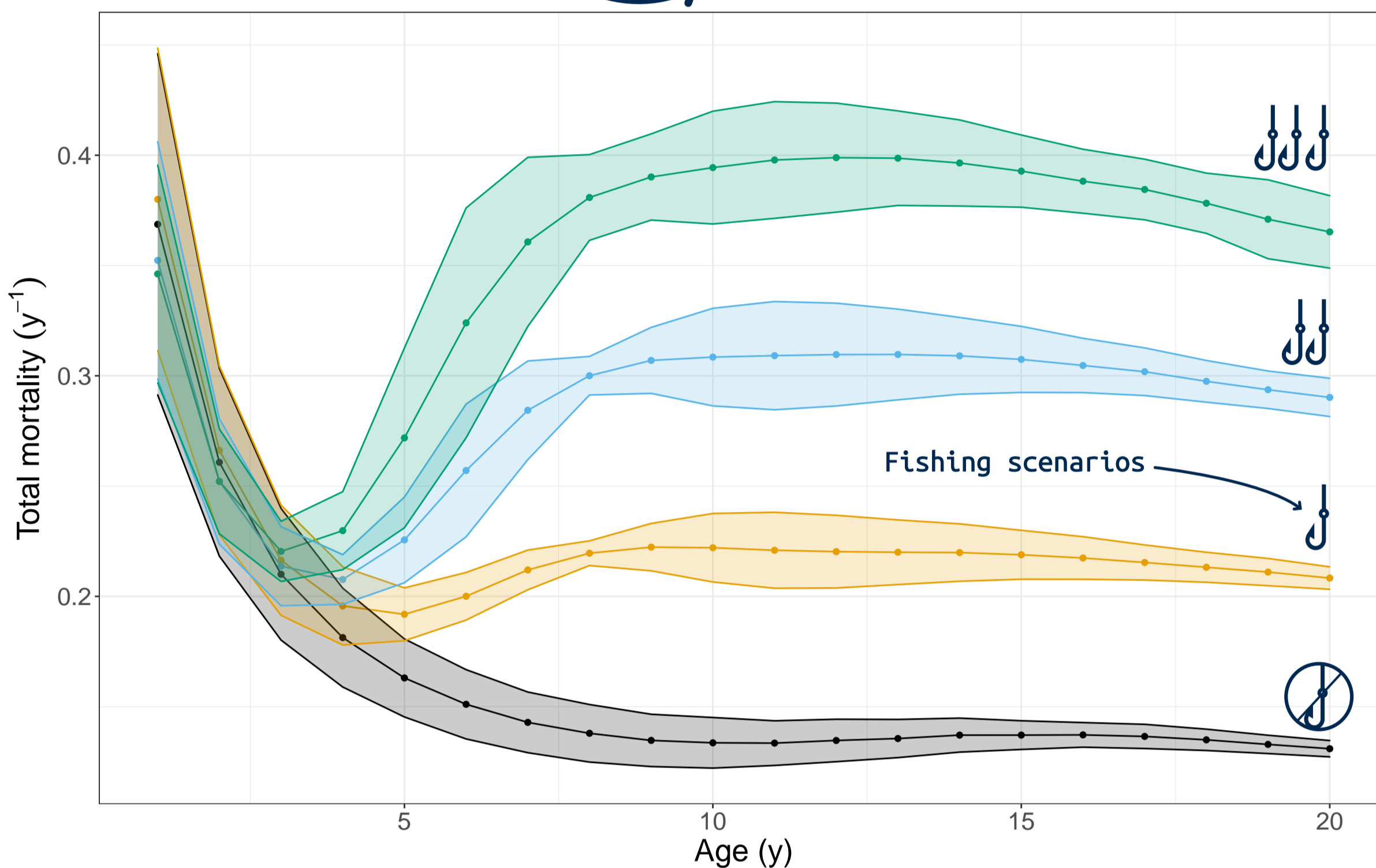
Henrik.Jessen@uib.no
+45 28 89 69 71
@HenrikHJessen



Fisheries and climate warming are both well studied stressors of fish, with the potential to cause evolution for faster pace of life (e.g. Enberg et al. 2009; Holt and Jørgensen 2014), though temperature response in Arctic species may differ from the global average.

Northeast Arctic Cod (NEAC) is a population of Atlantic cod (*Gadus morhua*) that inhabits the Barents Sea, representing the lower thermal range limit of this species.

Using various levels of climate warming and fishing intensity as input, we tested the evolutionary response of NEAC using an Individual-Based Model.



Preliminary results (below) supports previous studies finding that increased fishing leads to faster pace-of-life, but builds on this by showing that, for a species in the colder end of their thermal range, warming temperatures can potentially mitigate the effects of fishing.

