

ECOTIP



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Investigating ecological tipping cascades in the Arctic seas

A decrease in Arctic sea ice and melting of the Greenland Ice Sheet, and subsequent increase in freshwater inflow and stratification, can trigger a change in the biological system: an “ecosystem tipping cascade”.

ECOTIP is a flagship Horizon 2020 research project that operates at this important link between the physical and biological systems – where a change in the hydrography of the Arctic Ocean might trigger a biological change at the base of the marine food web. These changes could have implications for two vitally important marine ecosystem services: fisheries production and carbon sequestration.

ECOTIP combines state-of-the-art field and laboratory studies, analysis of historical and paleo-oceanographic data and trait-based modelling. The project works closely with fishing communities in Greenland and other stakeholders to understand the effects of biodiversity and ecosystem changes on society, and how best to reduce, mitigate and adapt to the changes.



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