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NOAA FISHERIES

National Marine Fisheries Service

2022 Groundfish Seminar Series

## Maciej T. Tomczak,

## **SLU Aqua, Swedish Univ. of Agricultural Sciences** Tuesday, December 13th @ 10 am Pacific

Baltic sea ecosystem changes over the last 100 years



The occurrence of regime shifts in marine ecosystems has important implications for environmental legislation that requires setting reference levels and targets of quantitative restoration outcomes. The Baltic Sea ecosystem has undergone large changes in the 20th century related to anthropogenic pressures and climate variability, which have caused ecosystem reorganisation. Here, we compiled and analysed historical information across biotic and abiotic variables from 1925 to 2005 in the Central Baltic Sea. Our analysis shows that for the entire time period, productivity, climate, and hydrography mainly affected the functioning of the food web, whereas fishing became important more recently.

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