

Pacific Arctic Region Under Climate Change: Fish Species Redistribution and Alternative Management

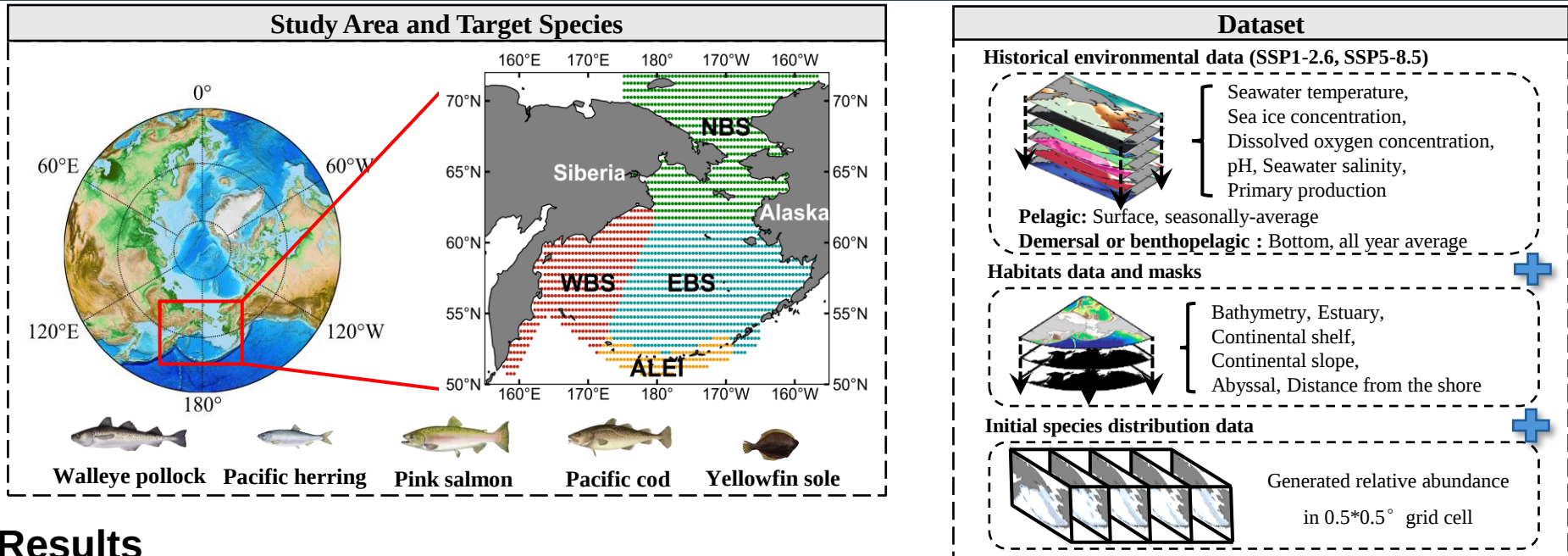
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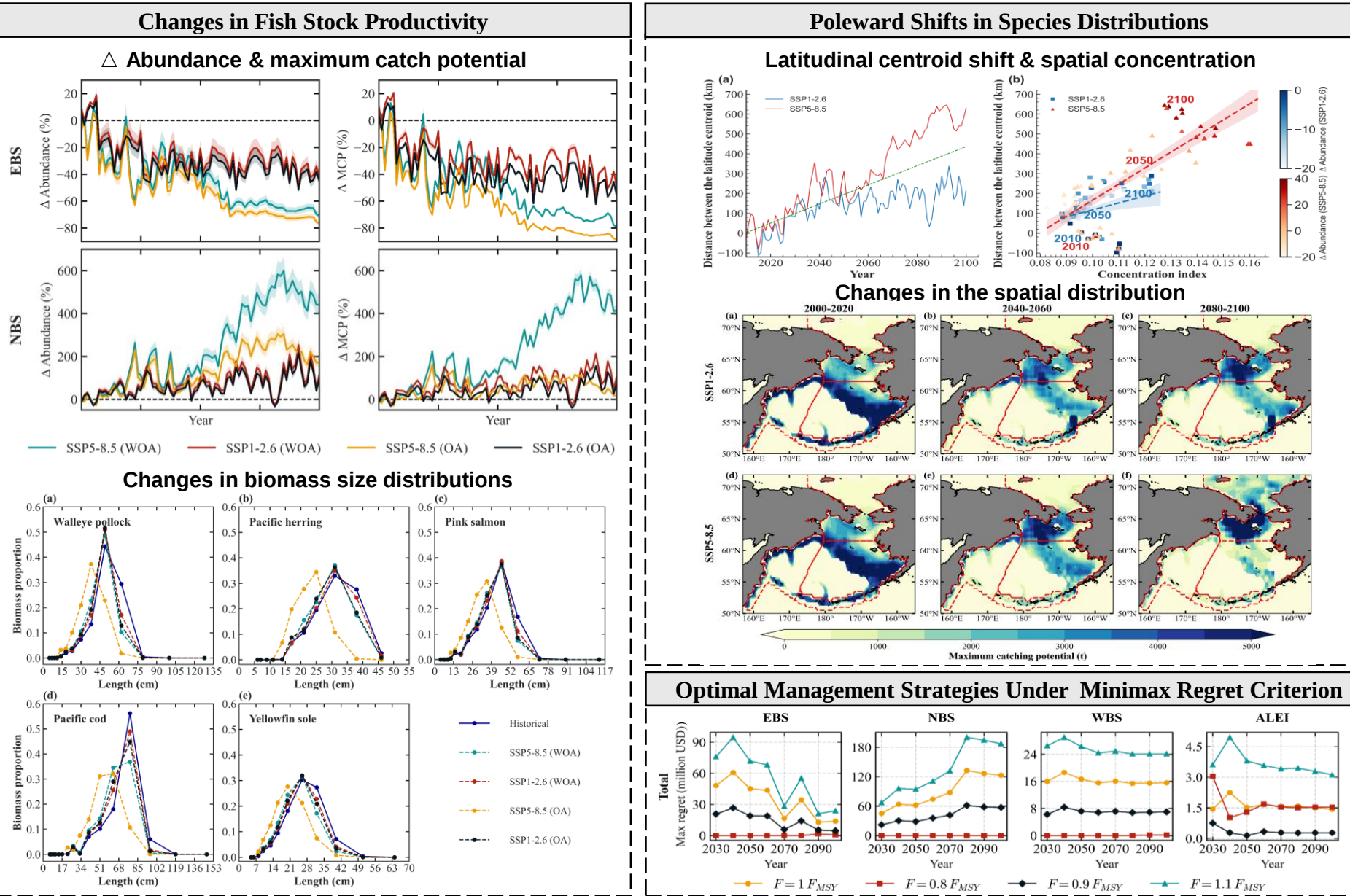
Background

- Rapid warming, sea-ice retreat, and productivity shifts are accelerating the borealization and poleward expansion of fish in the Pacific Arctic Region
- Changing species distributions and altered stock productivity reshape fisheries potential, ecosystem structure, and resource accessibility
- Environmental drivers such as temperature, salinity, and acidification interact with biological traits, producing heterogeneous productivity and body-size Using DBEM simulations and the Minimax Regret criterion, this study identifies robust strategies to minimize economic and ecological risks in a changing Pacific Arctic Region

Study Materials



Results



● 本研究由上海市哲学社会科学规划课题：全球气候变化背景下北极渔业资源净现值时空异质性研究 [2024EJC008] 资助