

Arctic sea ice biology

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Arctic sea ice is a unique habitat for hundreds of marine species, including microalgae, uni- and multi-cellular animals. Our research focuses on the role of sea ice for the marine food webs, including determination of abundances, activities and diversity of ice communities. Our presentation will address some aspects of our studies, e.g. primary productivity, biomass, stable isotopic composition, and diversity, with a regional focus on the Bering, Chukchi and Beaufort Seas. We will also present examples for the tight connectivity between sea ice and pelagic and/or benthic realms through vertical particle flux and animal migrations.