Biomarker distributions in surface sediments of the northern Barents Sea: a basis for accurate palaeo sea-ice reconstructions

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- Highly-branched isoprenoid (HBI) lipid biomarkers produced by sea-ice diatoms (IP₂₅, IPSO₂₅) and phytoplankton (HBI III, HBI IV)
- Used collectively for reconstructing Spring sea ice concentrations (SpSIC) and phytoplankton blooms at the seasonal ice edge (HBI T₂₅)
- New data on HBIs in surface sediments (multicores) in a S-N transect
- Findings correspond well to satellite data (1988-2017 means) of Spring sea ice concentrations and chlorophyll-a
- Ongoing work:
  - subsurface (1-5 cm)
  - palaeo (Holocene)

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