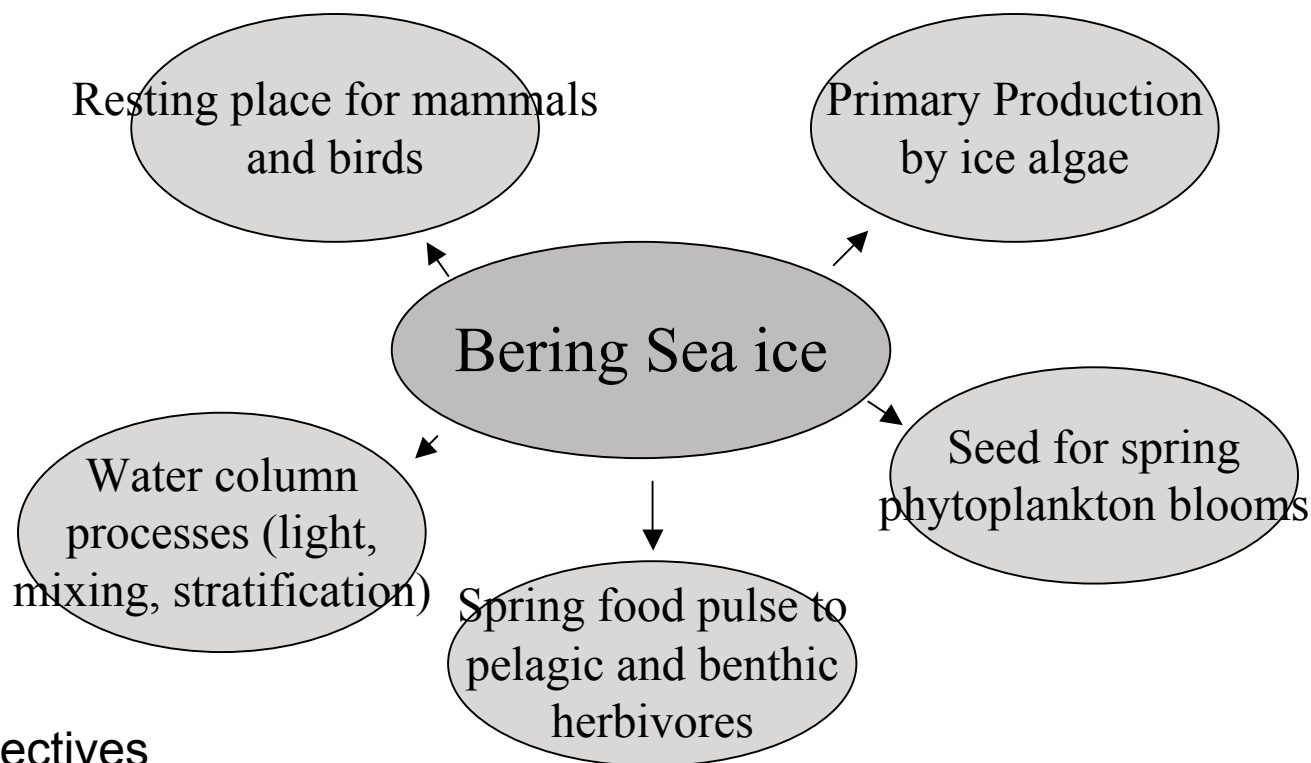


Sea ice algae, a major food source for herbivorous plankton and benthos in the eastern Bering Sea

Gradinger/Bluhm/Iken at UAF



-Objectives

- Ice chemical and physical parameters (thickness, T, S, nutrients, light)
- Pigments, stable isotopes, algal composition in ice and water
- Ice primary production
- Release of particles from sea ice
- Stable isotope composition of pelagic and benthic herbivores
- Turnover rate measurements of one pelagic and one benthic herbivore

Measurements per station

- On ice:
 - 3 locations (depending on ice condition)
 - 12 ice cores (p.l.)
 - 3 water samples, 1 CTD, 3 plankton nets p.l.
 - Deploy sediment traps at one location (for >12h; 1 location, two depths)
 - In situ primary production (4h)

From vessel:

- 2-3 plankton nets
- 3 van Veen grabs

Requests: bridge – sea ice observations