

SOAR Project Status

Themes

1. The 'New State' of the Pacific Arctic sector: Observations & models of sea ice loss and effects on primary production
2. Response of mid-level trophic species to the 'New State' of the Pacific Arctic: Benthic and pelagic invertebrates + forage fishes (cod, capelin, sand lance etc.)
3. Response of upper-trophic species to the 'New State' of the Pacific Arctic: Marine mammal and seabird distribution, relative abundance and phenology

Progress in Oceanography SOAR Special Issue Papers

Theme 1. The 'New State' of the Pacific Arctic sector: Observations & models of sea ice loss, effects on primary production and acoustic ecology		
Lead Author	Paper Title	Status
Arrigo	Continued increases in Arctic Ocean primary production	Accepted
Frey	Recent regime shifts in sea ice cover across the Pacific Arctic region	In revision
Mathis	Ocean acidification risk assessment for Alaska's fishery sector	Published: OPEN ACCESS
Wood	A decade of environmental change in the Pacific Arctic region	In revision
Theme 2. Response of mid-level trophic species to the 'New State' of the Pacific Arctic: Benthic and pelagic invertebrates + forage fishes (cod, capelin, sand lance etc.)		
Lead Author	Paper Title	Status
Grebmeier	Benthic system analysis at predator-prey "hotspot" sites along a latitudinal gradient in the northern Bering and Chukchi seas	In revision
Logerwell	Fish communities across a spectrum of habitats in the Beaufort and Chukchi seas	In revision
Crawford	Responses of ringed and bearded seals to changes in the Pacific Arctic	In revision
Divoky	Effects of recent decreases in Arctic sea ice on an ice-associated marine bird	In revision
Lovvorn	Limits to benthic feeding by eiders in a critical Arctic migration corridor due to localized prey and changing sea ice	Revised

Theme 3. Response of upper-trophic species to the 'New State' of the Pacific Arctic: Marine mammal and seabird distribution, relative abundance and phenology		
Lead Author	Paper Title	Status
Citta	Ecological characteristics of core-use areas used by Bering-Chukchi-Beaufort (BCB) bowhead whales, 2006-2012	Published: OPEN ACCESS
Clark	A year in the acoustic world of bowhead whales in the Bering, Chukchi, and Beaufort seas	In revision
George	Bowhead whale body condition and links to summer sea ice and upwelling in the Beaufort Sea	Accepted
Harwood	Change in the Beaufort Sea ecosystem: Diverging trends in body condition and/or production of five marine vertebrate species	Accepted
Kuletz	Seasonal spatial patterns in seabird and marine mammal distribution in the Pacific Arctic: identifying biologically important pelagic areas	In revision
MacIntyre	The relationship between sea ice concentration and the spatio-temporal distribution of vocalizing bearded seals (<i>Erignathus barbatus</i>) in the Bering, Chukchi, and Beaufort Seas from 2008-2011	Accepted
Lead Author	Paper Title	
Moore & Stabeno	Synthesis of the synthesis	In preparation