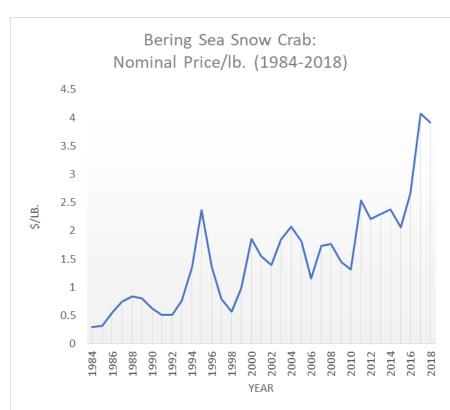


Supporting Bering Sea Crabbers with Seasonal Sea Ice Forecasts

- Bering Sea crab fishery commercially important
 - Bering Sea crab harvests comprise 23% of ex vessel value of all commercially harvested fish in the Bering Sea Aleutian Island Region (approx. \$220 million 2015/2016 season)
- Timing of crab season (Oct. 15-May 15)
 - Currently use short term sea ice forecasts from NWS
 - Evaluate stakeholder need for seasonal sea ice forecast
 - Engage crab fishery stakeholders (approx. 75-100 quota share holders) using online survey
 - Level of interest in seasonal scale sea ice forecast
 - Potential uses for seasonal scale sea ice forecast

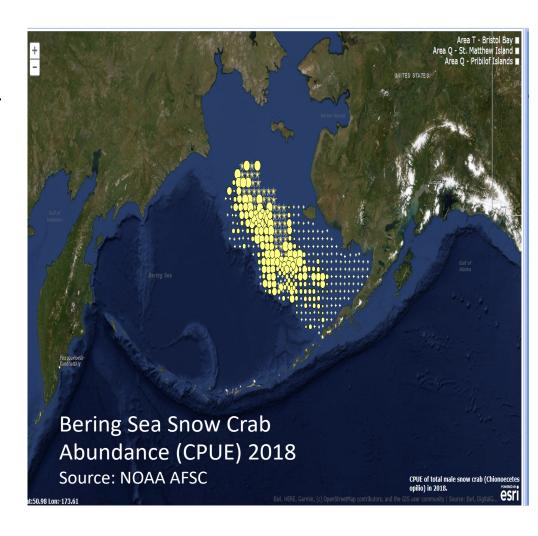




Supporting Bering Sea Crabbers with Seasonal Sea Ice Forecasts

- Areas of Survey Focus
 - Timing of forecasts
 - Priority months for seasonal forecast (Jan.-April)
 - Logistics
 - Planning for fuel purchases
 - Resupply
 - Location
 - Access to St. Paul Island for delivery
 - Please Contact:

Hajo Eicken (heicken@alaska.edu)
Joe Little (jmlittle2@alaska.edu





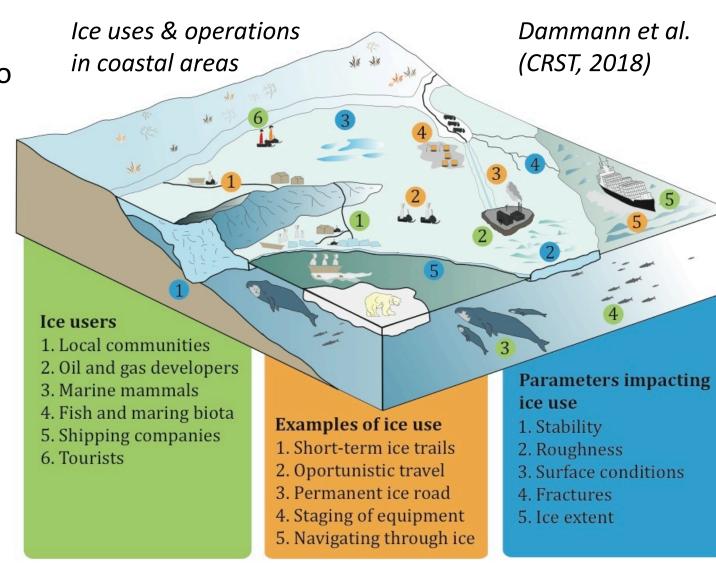
Information needs of regional ice information product users (1/2)

Input and engagement

- National Weather Service Alaska Regio Don Moore, Decision Support Lead
- Alaska Arctic Observatory & Knowledge Hub (arctic-aok.org)
 - Bering Strait to Barter Island
- Sea Ice for Walrus Outlook (SIWO) –
 Bering Straits
- Ikaagvik Sikukun Kotzebue Sound

Key points

- Ice uses & ice hazards change with changing environmental conditions
- Ice quality information needed





Information needs of regional ice information product users (2/2)

- Key user identified priorities
 - Information (ice chart & ice forecast) related to use of coastal ocean/ice during freeze-up period
- Slush ice vs. sheet ice during freeze-up
- Coastal ice berms
- Landfast ice thickness
- Ice stability
- Potential observation/prediction variables
 - Mixed layer supercooling
 - Surface wind stress (slush vs sheet ice)
 - Wave height
 - Onshore component of ice convergence

- ...

