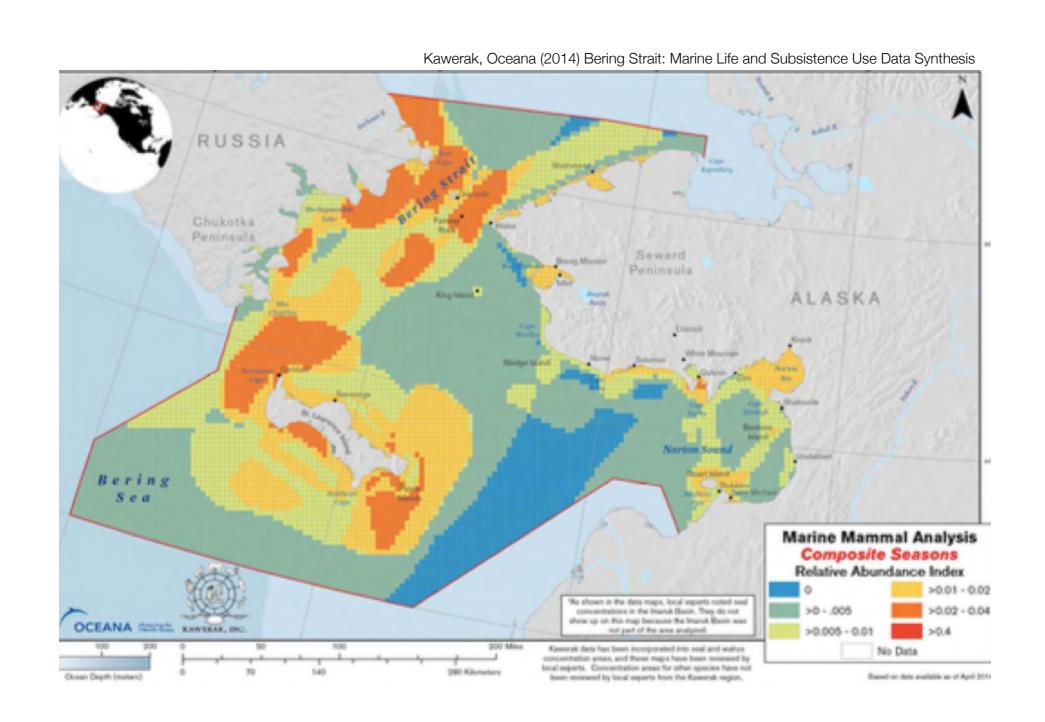


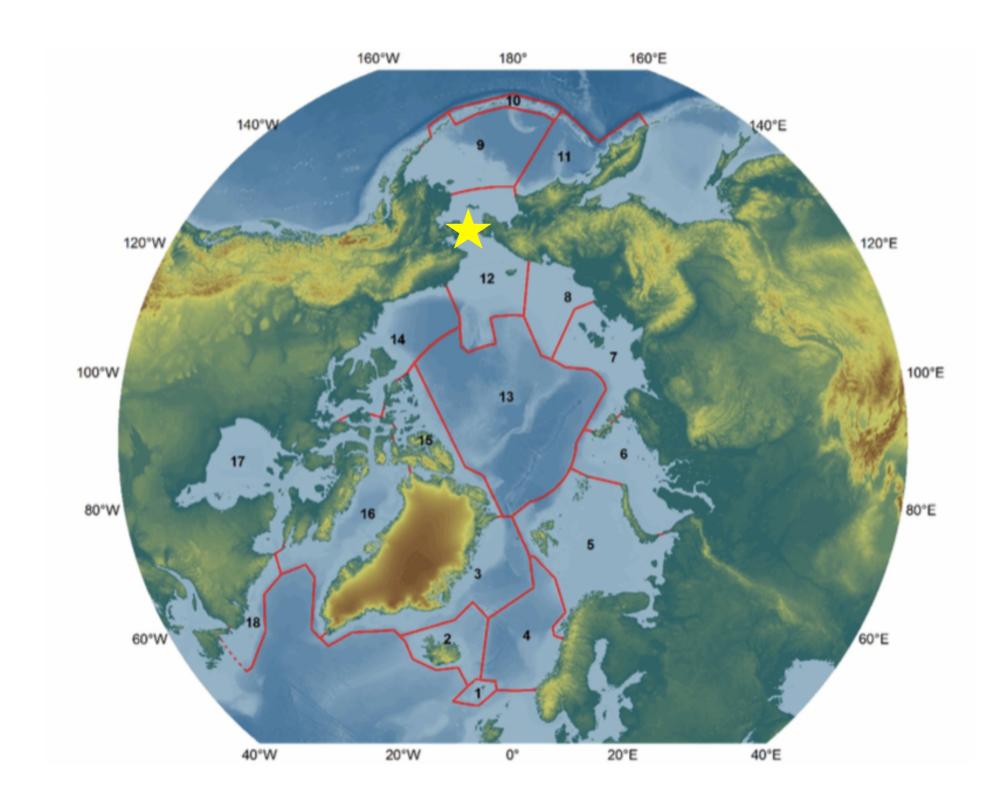
Cross-scale comanagement successes in the Bering Strait Region

Ecosystem Approach to Management of Arctic Ecosystems: Status of Implementation Session IV. Case studies- Steps toward Implementation Kelsey Aho 24 August 2016

Bering Strait Region

Southern portion of LME #12: Northern Bering Chukchi Seas





This research evaluates if and how international agreements support the communities who depend on the transboundary Northern-Bering Chukchi Sea (LME #12) marine ecosystem.

Identify the ecosystem

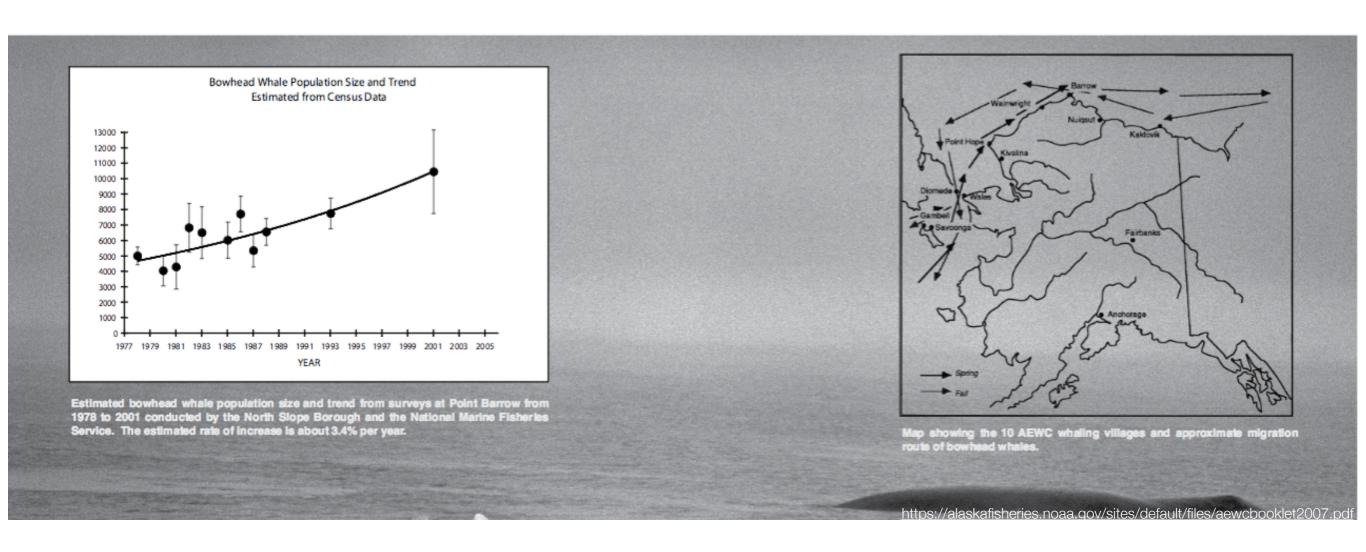
Describe the ecosystem

Set ecological objectives

Assess the ecosystem

Value the ecosystem

Manage human activities



Bering-Beaufort-Chukchi Bowhead whale population

Identify the ecosystem

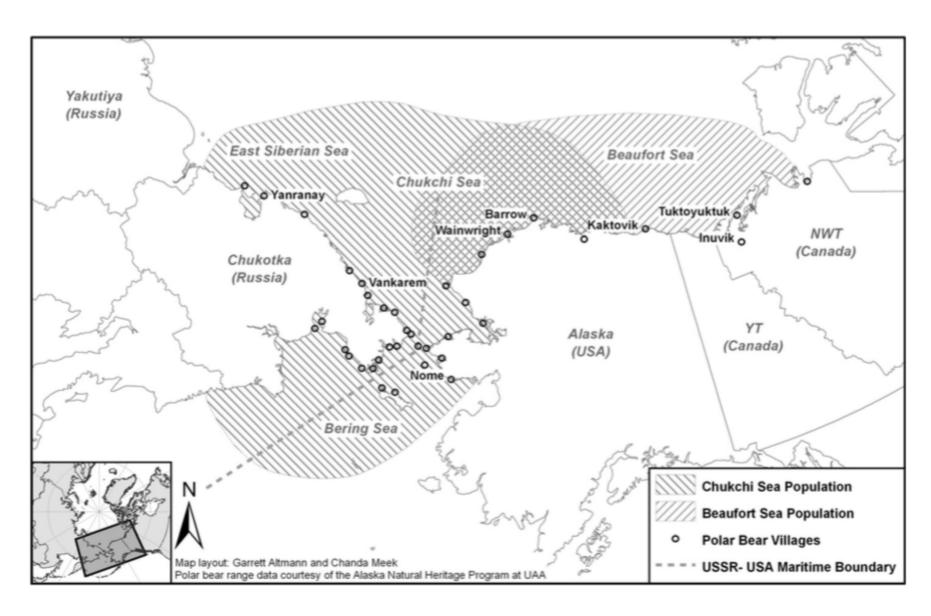
Describe the ecosystem

Set ecological objectives

Assess the ecosystem

Value the ecosystem

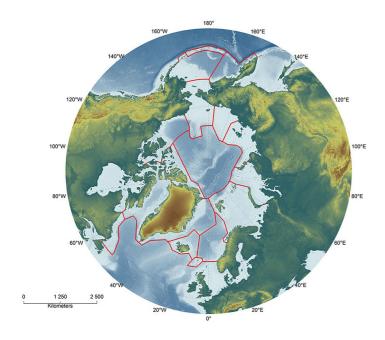
Manage human activities



Alaska-Chukotka polar bear population

	Polar Bear (2000-2016)	Bowhead Whale (1977-2016)	
Incentives	Cultural relevance The Inuvialuit-Iñupiaq Agreement Increased poaching	1975/6 selective moratorium Traditional ecological knowledge on population data, made available to IWC	
Norms	 Polar bear integrated into ecosystem-based traditional values Global icon of climate change concern Interdependence on Bowhead 	Traditional values and culture (e.g. language) Post-MMPA general concern	
Capacities	International: World Wildlife Fund, International Union for Conservation of Nature, US-Russia Bilateral Polar Bear Commission National: U.S. Fish and Wildlife Service (USFWS), National Park Service (NPS), U.S. Geological Survey Regional: North Slope Borough (NSB), Alaska Nanuuq Commission, Chukotka Autonomous Okrug, Association of Traditional Marine Mammal Hunters in Chukotka (ChAZTO), RAIPON-Chuktoka (CAIPON), Alaska Dept. of Fish and Game (ADF&G)	International: International Whaling Commission, Inuit Circumpolar Council National: NPS, National Marine Fisheries Service (NMFS), Russian Academy of the Sciences Regional: Alaska Eskimo Whaling Commission, NSB, NSB's Department of Wildlife Management, Alaska Fisheries Science Center, ADF&G, ChukTINRO, ChATZO, Chukotka Science Support Group Local: Whaling Captains Associations in Gambell, Savoonga, Wales, Little Diomede, Kivalina, Point Hope, Point Lay, Wainwright, Barrow, Nuiqsut, Kaktovik	
Information	Unclear communication between stakeholders Scientific uncertainty on population numbers	Clear communication of duties Positive scientific certainty on population numbers	

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	Polar Bear (2000-2016) goals	Bowhead Whale (1977-2016)	AEWC
Incentives	Cultural relevance The Inuvialuit-Iñupiaq Agreement Increased poaching	 1975/6 selective moratorium Traditional ecological knowledge on population data, made available to IWC 	
Norms	 Polar bear integrated into ecosystem-based traditional values Global icon of climate change concern Interdependence on Bowhead 	Traditional values and culture (e.g. language) Post-MMPA general concern	5000 to 16892
Capacities	International: World Wildlife Fund, International Union for Conservation of Nature, US-Russia Bilateral Polar Bear Commission National: U.S. Fish and Wildlife Service (USFWS), National Park Service (NPS), U.S. Geological Survey Regional: North Slope Borough (NSB), Alaska Nanuuq Commission, Chukotka Autonomous Okrug, Association of Traditional Marine Mammal Hunters in Chukotka (ChAZTO), RAIPON-Chuktoka (CAIPON), Alaska Dept. of Fish and Game (ADF&G)	International: International Whaling Commission, Inuit Circumpolar Cour National: NPS, National Marine Fisheries Service (NMFS), Russian Academy of the Sciences Regional: Alaska Eskimo Whaling Commission, NSB, NSB's Department of Wildlife Management, Alaska Fisheries Science Center, ADF&G, ChukTINRO, ChATZO, Chukotka Science Support Group Local: Whaling Captains Associations in Gambell, Savoonga, Wales, Little Diomede, Kivalina, Point Hope, Point Lay, Wainwright, Barrow, Nuiqsut, Kaktovik	50% to 78% - 100%
Information	Unclear communication between stakeholders Scientific uncertainty on population numbers	Clear communication of duties Positive scientific certainty on population numbers	



From LME to LME

