

ShoreZone Mapping in Alaska and the Pacific Northwest

Cindy A. E. Hartmann Moore¹, Steve G. Lewis², Mary C. Morris³, John R. Harper⁴, Mandy R. Lindeberg⁵, Susan M. Saupe⁶ and Darren N. Stewart⁷

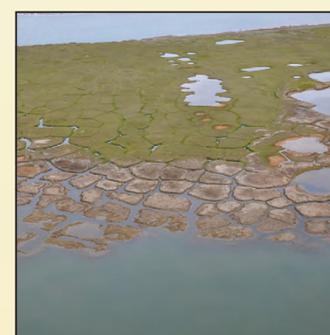
Near Kookooliktook River Lagoon
St. Lawrence Island



Near Wales
Chukchi Sea Coast



Near Colville River Delta
Beaufort Sea

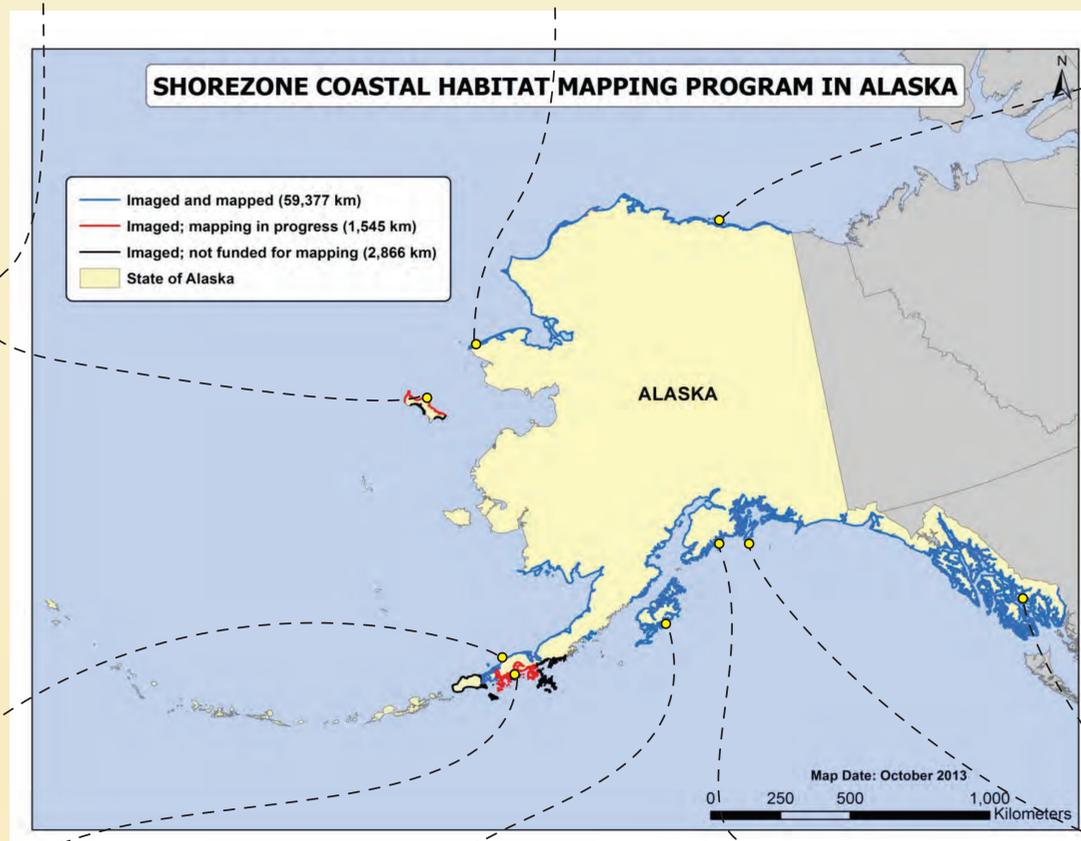


ShoreZone is a coastal habitat mapping and classification system in which spatially referenced aerial imagery is collected specifically for the interpretation and integration of geological and biological features of the intertidal zone and nearshore environment.

108,000 km of ShoreZone imagery exists for the northeast Pacific coastline, including the entire shoreline of Oregon (1,750 km), Washington (4,933 km), British Columbia (37,619 km), and 63,788 km (80%) of the Alaskan coast. The project is on-going with ~15,000 km of the Alaskan coastline left to be imaged. The Alaska imagery can be viewed online at shorezone.org or at <http://alaskafisheries.noaa.gov/shorezone/>.

ShoreZone imagery provides a useful baseline and visual reference, while the mapped resources are an important tool for scientists and managers providing a geo-referenced spatial framework for coastal habitat assessment on local and regional scales.

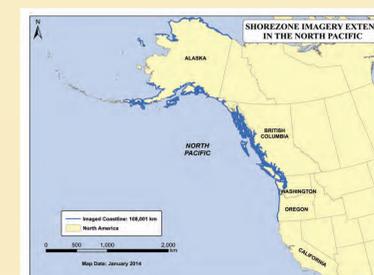
ShoreZone data has many uses, including: oil spill response; planning; fisheries management and research; mariculture site review; recreation; archaeological inventory; marine debris clean up; search and rescue; and others.



The Alaska ShoreZone program is a partnership of federal and state agencies; regional governments; and non-governmental organizations. Groups working in partnership for the Alaska ShoreZone effort to date include: Alaska Departments of Environmental Conservation, Fish and Game, and Natural Resources; Archipelago Marine Research Ltd.; Coastal and Ocean Resources Inc.; Cook Inlet Regional Citizens Advisory Council; Exxon Valdez Oil Spill Trustee Council; National Oceanic and Atmospheric Administration; Oil spill Recovery Institute; Prince William Sound Regional Citizens Advisory Council; The Nature Conservancy; Nuka Research; U.S. Department of Interior's Aleutian and Bering Sea Islands Landscape Conservation Cooperative (LCC), Arctic LCC, Bureau of Ocean Energy Management, Bureau of Safety and Environmental Enforcement; Fish and Wildlife Service, Geological Survey, National Park Service and Western Alaska LCC; USDA Forest Service; and others.

The Alaska Peninsula and western Alaska are focus areas for ShoreZone work in 2014. Partners are being sought to help fund the mapping of ShoreZone imagery working towards the goal of a continuous coastline dataset for all of Alaska.

The ShoreZone partnership offers the opportunity to build a contiguous integrated coastal resource database for the Pacific Northwest and beyond.



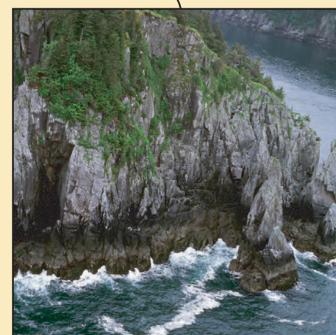
Nelson Lagoon south of Port Moller,
Bristol Bay



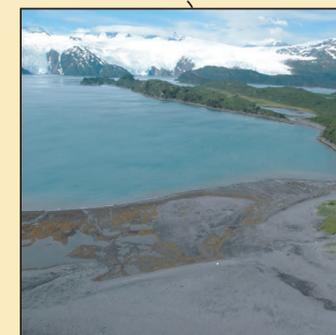
Dolgoi Island,
Alaska Peninsula



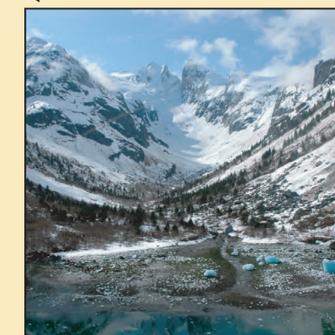
Kiliuda Bay,
Kodiak Island



Entrance to Aialik Bay,
near Kenai Fjords National Park



Willard Island, Blackstone Bay,
Prince William Sound



LeConte Bay, Frederick Sound,
Southeast Alaska

¹NOAA National Marine Fisheries Service
Alaska Region, Habitat Conservation Division
P.O. Box 21668, Juneau, AK 99802
T: 907-586-7585, F: 907-586-7358, E: cindy.hartmann@noaa.gov

²NOAA National Marine Fisheries Service
Alaska Region, Analytical Team
P.O. Box 21668, Juneau, AK 99802
T: 907-586-7416, E: steve.lewis@noaa.gov

³Archipelago Marine Research Ltd.
525 Head Street, Victoria, BC, Canada V9A 5S1
T: 250-383-4535, F: 250-383-0103, E: marym@archipelago.ca

⁴Coastal and Ocean Resources Inc.
759 A Vanalman Road, Victoria, BC, Canada V8Z 3B8
T: 250-655-4035, F: 250-655-1290, E: john@coastalandoceans.com

⁵NOAA National Marine Fisheries Service
Alaska Fisheries Science Center, Ted Stevens Marine Research Institute
17109 Point Lena Pool Road, Juneau, AK 99801
T: 907-789-6616, F: 907-789-6094, E: mandy.lindeberg@noaa.gov

⁶Cook Inlet Regional Citizens Advisory Council
1130 West 6th Avenue, Suite 110, Anchorage, AK 99501
T: 907-278-7222, F: 907-283-6102, E: saupe@circac.org

⁷The Nature Conservancy
715 L street, Suite 100, Anchorage, AK 99501
T: 907-865-5711; E: dstewart@tnc.org