## ShoreZone Mapping in Alaska and the Pacific Northwest

Cindy A. E. Hartmann Moore<sup>1</sup>, Steve G. Lewis<sup>2</sup>, Mary C. Morris<sup>3</sup>, John R. Harper<sup>4</sup>, Mandy R. Lindeberg<sup>5</sup>, Susan M. Saupe<sup>6</sup> and Norman A. Cohen<sup>7</sup>

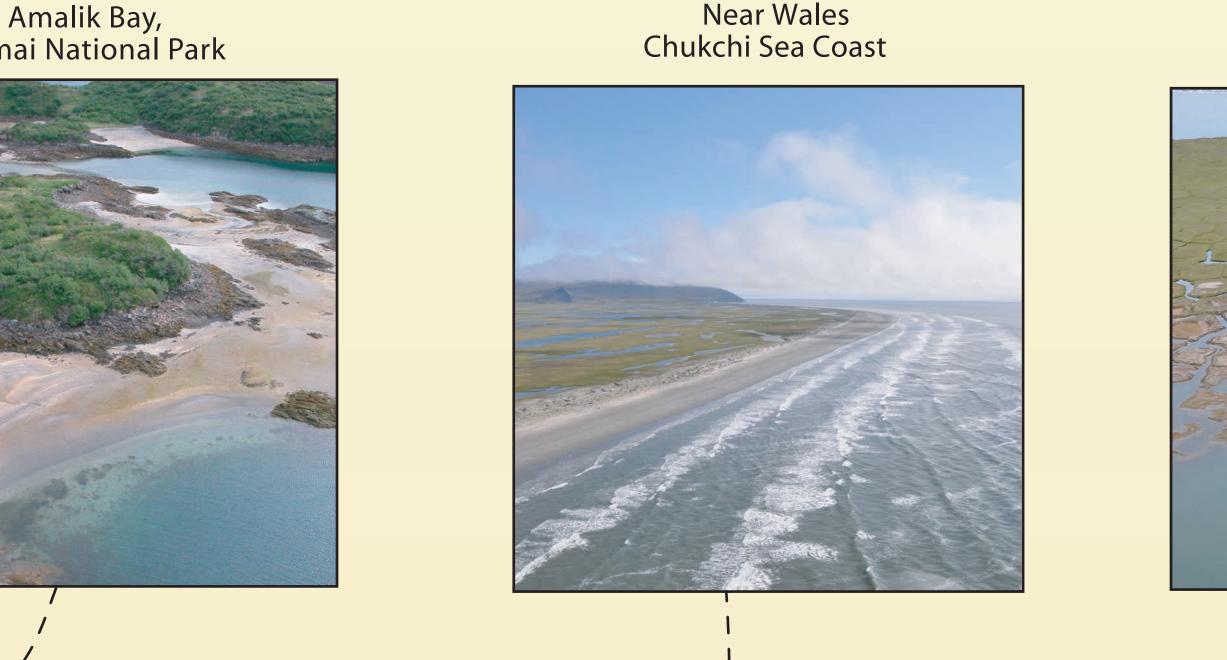
ShoreZone is a coastal habitat mapping and classification system in which spatially referenced aerial imagery is collected specifically for the interpretation and integration of geological and biological features of the intertidal zone and nearshore environment.

104,684 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 59,853 km (78%) of the Alaskan coast. The project is on-going with ~16,500 km of the Alaskan coastline left to be imaged. The Alaska imagery can be viewed online at **shorezone.org** or at

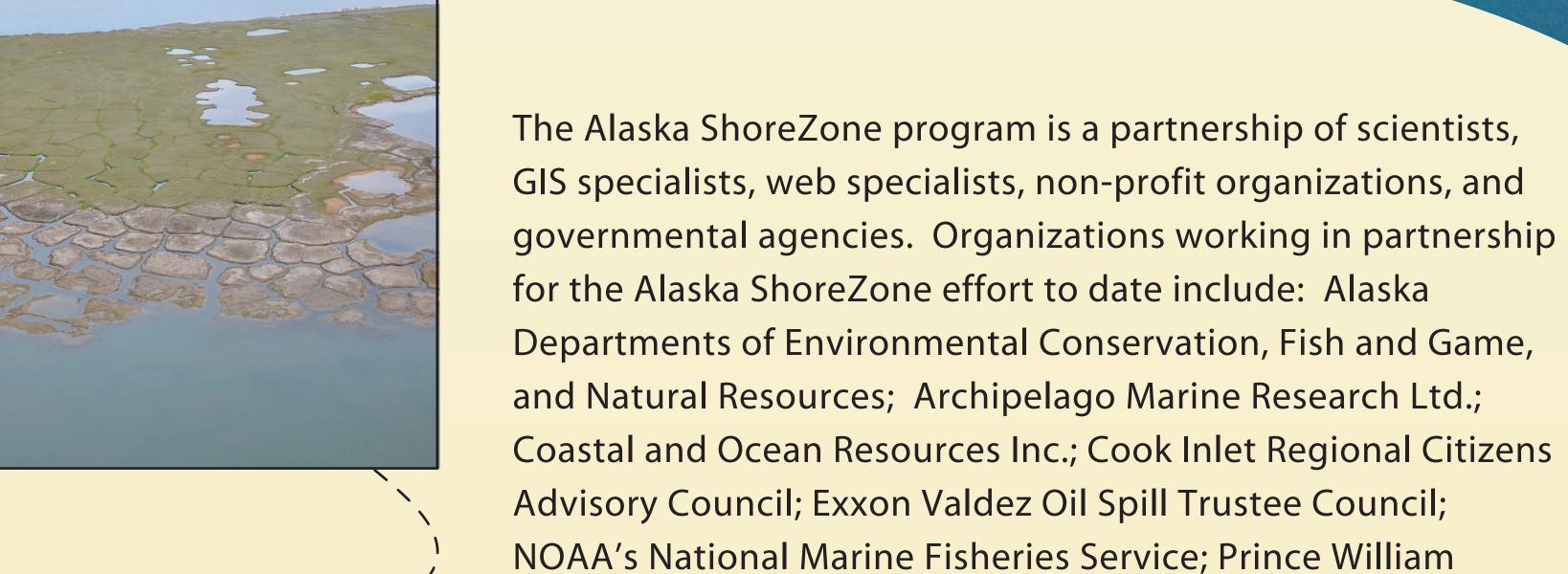
ShoreZone imagery provides a useful baseline and visual reference, while mapped resources (such as shoreline sediments, eelgrass and salt marsh distributions) are an important tool for scientists and managers.

http://alaskafisheries.noaa.gov/shorezone/.

ShoreZone data has many uses, including: oil spill contingency planning and response, conservation planning, habitat research, development evaluation, mariculture site review, recreation, archaeological inventory, and other uses.



Near Colville River Delta Beaufort Sea



SHOREZONE COASTAL HABITAT MAPPING PROGRAM IN ALASKA --

ALASKA

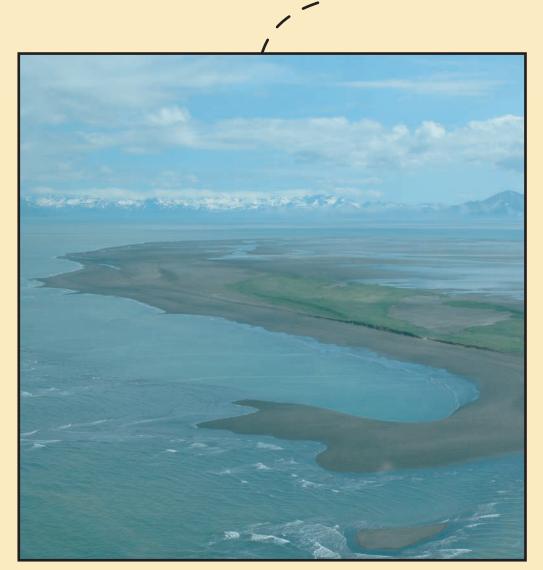
Completed Mapping in progress Imaged, needs mapping — To Do

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; NOAA's National Marine Fisheries Service; Prince William Sound Regional Citizens Advisory Council; The Nature Conservancy; U.S Department of Interior's Bureau of Ocean Energy Management, Fish and Wildlife Service, Geological Survey, and National Park Service; USDA Forest Service; and others.

Saint Lawrence Island and western Alaska are focus areas for ShoreZone work in 2013. Partners are being sought to help fund the collection and mapping of new ShoreZone imagery as well as mapping

The ShoreZone partnership offers the opportunity to build a contiguous integrated coastal resource database that extends from Oregon, through British Columbia, the Gulf of Alaska, western Alaska, and northwards to the Arctic coast (on the order of 120,00km).





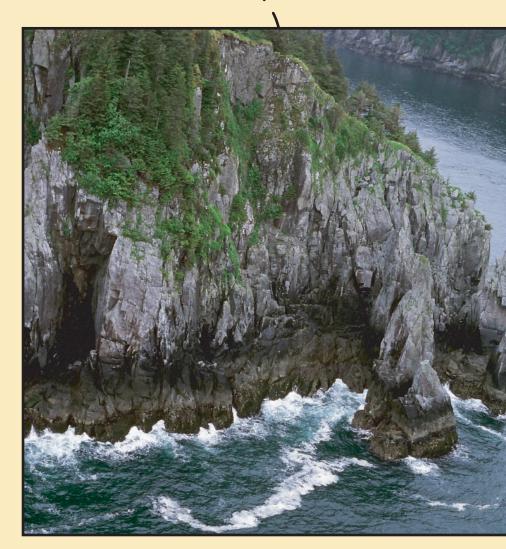
Nelson Lagoon south of Port Moller, Bristol Bay



Dolgoi Island, Alaska Peninsula



Kiliuda Bay, Kodiak Island

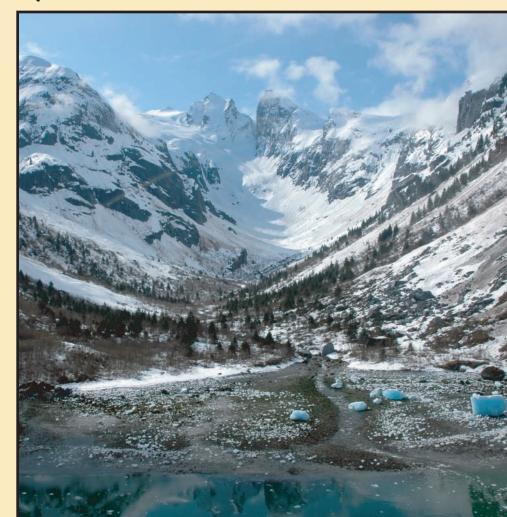


Map Date: January 2013

Entrance to Aialik Bay, near Kenai Fjords National Park



Willard Island, Blackstone Bay, Prince William Sound



LeConte Bay, Frederick Sound, Southeast Alaska