ShoreZone updates and a look ahead

Dr. Carl Schoch
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What is ShoreZone?

A coastal imaging, mapping, and habitat database
How is ShoreZone used?

A database for managing the shore

Habitat inventories

Emergency response and risk management

Climate change

Sarah Cook at 3:45 pm

Coastal Vulnerability
Acquiring ShoreZone video imagery

- During extreme low tides
- High sun angle
- Low-altitude oblique angle
- Images are geo-referenced (x, y, z)
Acquiring still imagery
Physical and biological attributes are interpreted from aerial images

- wave exposure
- geomorphology
- sediment characteristics
- shoreline biology
- habitat classification
- cultural features
Physical ShoreZone mapping

Coastal Class 25
Sand/Pebble Beach

Coastal Class 14
Rock Cliff with Boulder/Sand Beach

Unit Break
Environmental Sensitivity Index (ESI)

Kalen Morrow at 2:40 pm

ESI 2001

ShoreZone ESI 2015

Unimak Island
www.ShoreZone.org

• A collaboration with The Nature Conservancy

• Provides centralized location for:
  – the image library
  – habitat database
  – data dictionaries
  – reports
  – protocols

• Supports a Blog, FAQ’s, social media

• Calendar of events
Online images and habitat attributes
ShoreZone Coastal Mapping Survey of Norton Sound

From July 9-15, the ShoreZone team will be surveying 1,200 miles of coastline in Norton Sound to collect continuous aerial photos and videos at low tide.

Join Maeva Gauthier, Outreach Coordinator at Coastal and Ocean Resources, and the rest of the ShoreZone team to learn more about the survey in Norton Sound happening this week and interesting ways ShoreZone images and data can be used.

Date: Thursday, July 9
Time: 7:00 pm
Location: Beringia Room, Sitnasuak Building, 214 Front Street
For more information, call 443-2522

The Norton Sound ShoreZone survey is supported by the Nature Conservancy, NOAA National Marine Fisheries Service, Western Alaska Landscape Conservation Cooperative (WALCC), and Oil Spill Recovery Institute (OSRI).
Find out more at www.ShoreZone.org
ShoreZone compliance with FGDC

Coastal and Marine Ecological Classification Standard

Marine and Coastal Spatial Data Subcommittee
Federal Geographic Data Committee
June, 2012
ShoreZone time series animation

1979
Saltspring Island
Alaska ShoreZone status update

ShoreZone Coastal Habitat Mapping Program in Alaska

Cindy Hartmann Moore at 3:15 pm
CUSP vs Coast 63 digital shoreline

NOAA CUSP Shoreline versus Coast63

Barter Island

Kachemak Bay

Legend

- NOAA Coast63
- NOAA CUSP

Kalen Morrow at 2:40 pm
Imaging sensitive areas

- USHAGAT/NW
- USHAGAT/SW
- USHAGAT/SW 2
- SUD
- USHAGAT/ROCKS SOUTH
- WEST AMATULI
- SUGARLOAF

Legend:
- Red dot: Sea Lion Haulouts
- Blue dot: Aerial Photos
- 1,500 meter Buffer

Scale: 0 - 5 Kilometers
Mapping sensitive habitats

Nicole Kinsman at 3:30 pm
Carl Schoch at 4:55 pm
ShoreZone offline application

Andy Lanier at 2:15 pm
ShoreZone Questions?

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https://vimeo.com/shorezone/review/142150364/46483b167c
ShoreZone partners

- Nuka Research and Planning Group Landscape Conservation Cooperative
- Oil Spill Recovery Institute
- Prince William Sound Regional Citizens Advisory Council
- Royal Caribbean Cruise Lines, Ocean Fund
- Southeast Alaska Petroleum Resource Organization
- The Gordon and Betty Moore Foundation
- The Nature Conservancy, Alaska
- The Skaggs Foundation
- University of Alaska, Geographic Information Network of Alaska (GINA)
- U.S. Coast Guard Response Division, District 17
- U.S. Fish and Wildlife Service Alaska Region
- USFWS Alaska Peninsula Becharoff National Wildlife Refuge
- USFWS Fisheries & Ecological Services, Cook Inlet Coastal Conservation Program
- USFWS Izembek National Wildlife Refuge
- USFWS National Wildlife Refuge System - Alaska
  - Division of Natural Resources, Inventory, & Monitoring Branch
  - Division of Realty & Conservation Planning
- USFWS Togiak National Wildlife Refuge
- USFWS Yukon Delta National Wildlife Refuge
- U.S. Forest Service - Alaska Region
- U.S. Forest Service, Chugach National Forest
- U.S. Forest Service, Tongass National Forest
- Western Alaska Landscape Conservation Conservation Cooperative