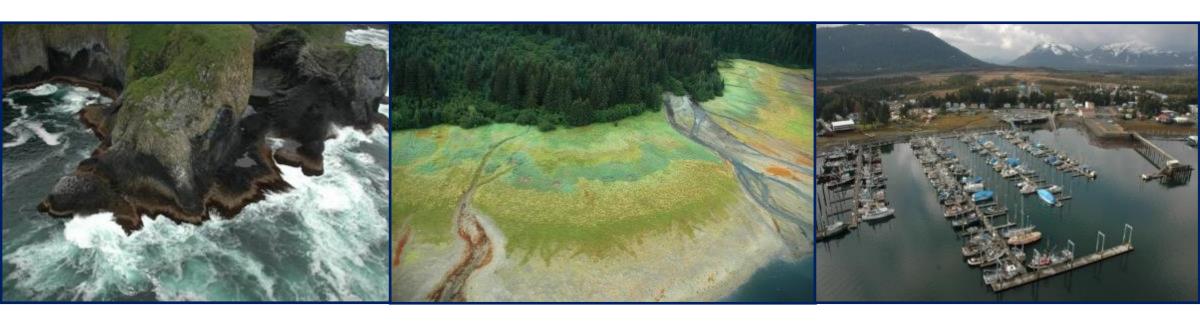


What is ShoreZone?



A standardized coastal imaging and habitat mapping system that characterizes physical and biological attributes of the shoreline in a searchable, georeferenced database.



Coastal Imaging

Low-altitude
Oblique Angle
Video and Stills

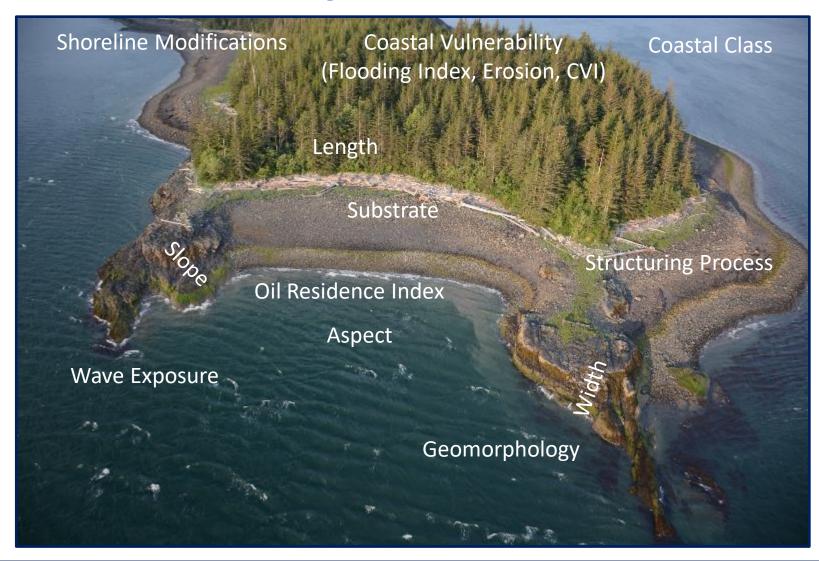




Low tide windows Georeferenced



ShoreZone Physical Attributes

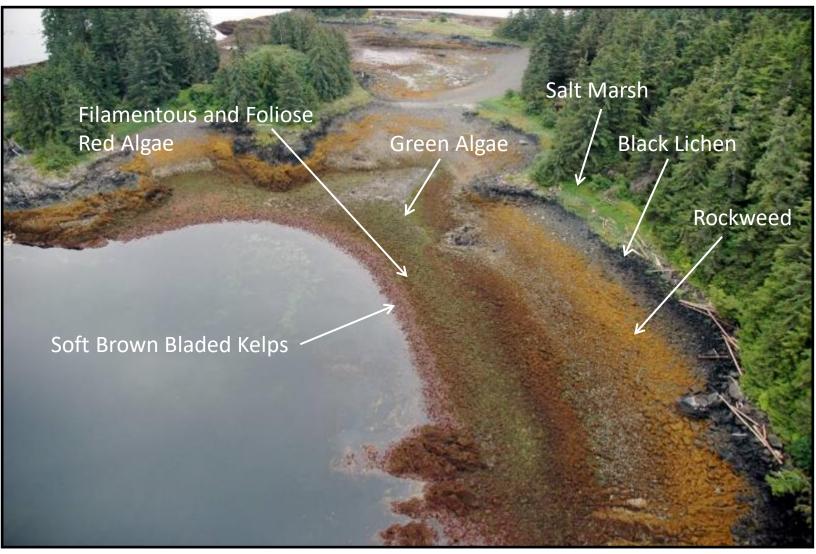




ShoreZone Biological Attributes

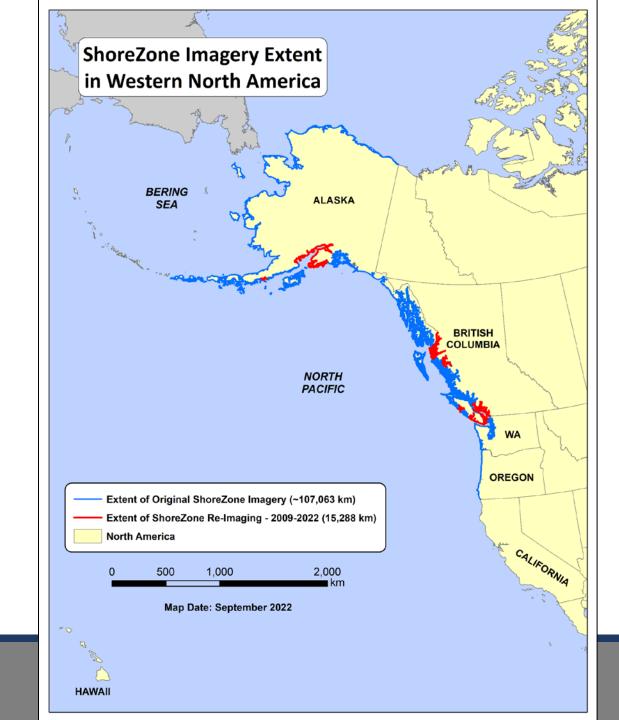
Biobands are assemblages defined by a typical:

- Tide Height
- Colour
- Texture





ShoreZone Across the Pacific Northwest





Applications for ShoreZone Data

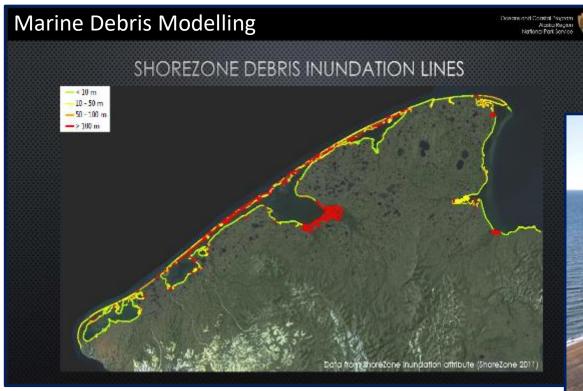


Oil Spill Planning and Response
Risk Management





Applications for ShoreZone Data

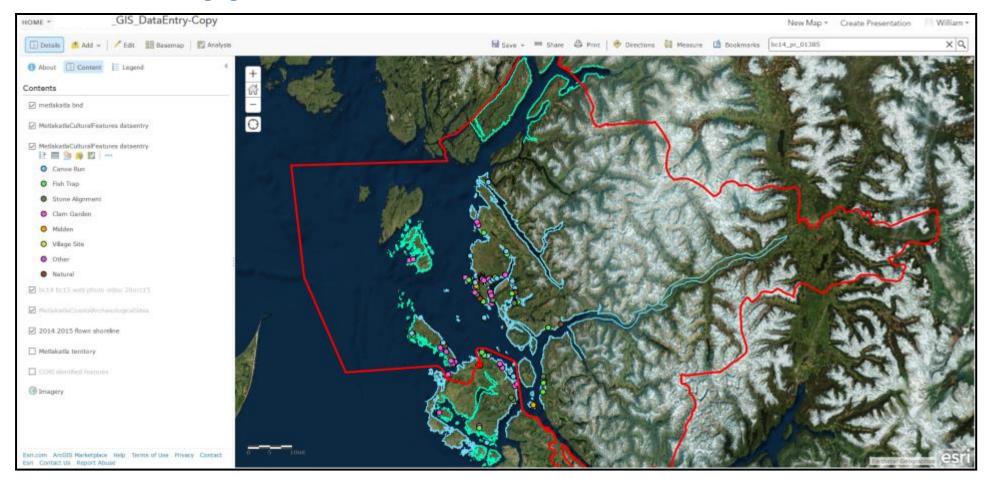


Marine Debris Coastal Vulnerability





Applications for ShoreZone Data



Cultural Features Mapping



Applications for ShoreZone Data Habitat and Species Modelling

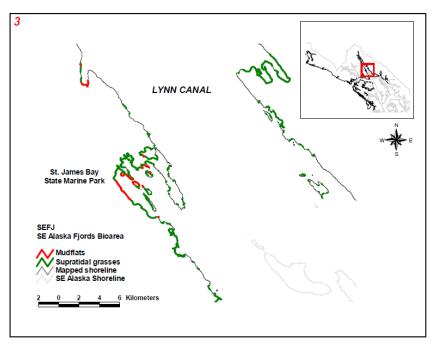
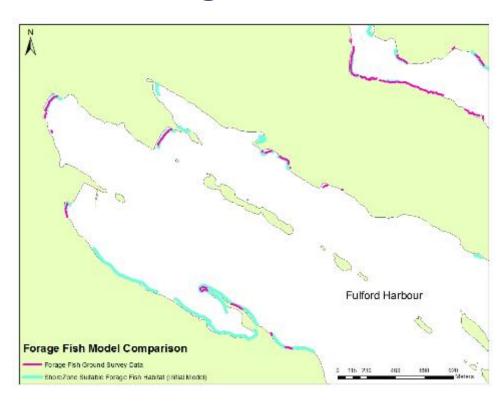


Figure 2.10. Local-level detail map of St. James Bay Marine Park in Lynn Canal, illustrating units with salt marsh vegetation (such as *Pucinella* and sedges, shown in green) overlain by units with fine sediment mapped in the lowest intertidal (shown in red). This combination of habitat attributes is considered particularly suitable for green crab colonization. Shapefiles of query results are provided and can be viewed at any scale for the study area in Southeast Alaska. Location is shown by box 3 in Fig. 2.3.



Green Crab Monitoring

Forage Fish Spawning



Applications for ShoreZone Data Habitat and Species Modelling

Eelgrass and sea otters in SEAK

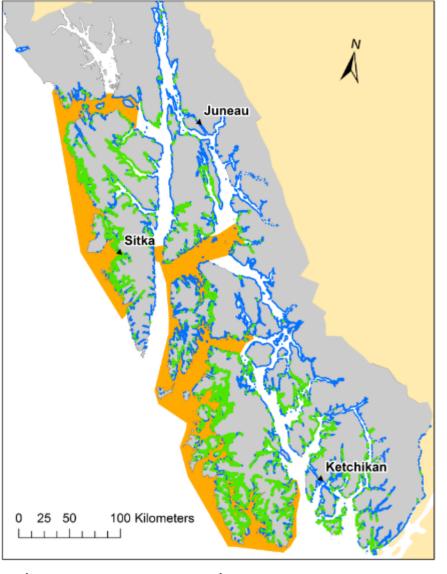


Potential seagrass habitat	14,705 km	22,976 km
Habitat with seagrass	5,793 km <u>39%</u>	4,371 km <u>19%</u>

Sea otter range

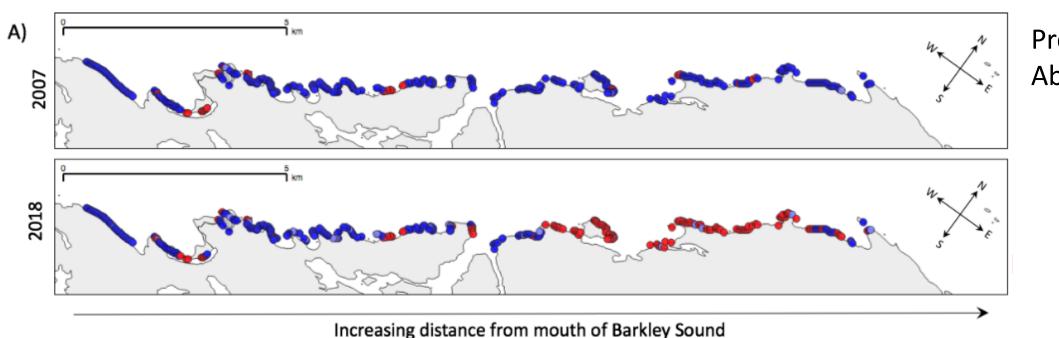
Seagrass

Suitable for seagrass



Applications for ShoreZone Data Change Over Time

Kelps have disappeared from deeper into Barkley Sound



Present Absent

Courtesy of Sam Starko, UVic and Chris Neufeld, BMSC

Applications for ShoreZone DataChange Over Time

Dramatic reduction of kelp/expansion of urchin barrens on North Coast of BC in recent years



Applications for ShoreZone DataChange Over Time

Dramatic reduction of kelp/expansion of urchin barrens on North Coast of BC in recent years



