ShoreZone Uses in Washington State

or... What have we been up to for the past 15 years?

Helen Berry

Some major contributors:
John Harper (CORI), Mary Morris (Archipelago), Megan Dethier (UW), Carl Schoch (CORI), Ken Warheit (WDFW), John Carleton (WDFW), etc.
ShoreZone in Washington

3,000 miles (5,000 km)


Distribution

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Overall Assessment of ShoreZone: A staggering number of uses and derivative works
Insights

• 30% of shoreline is armored (1 out of every 3 feet).
• 55% of armoring is associated with single family residences (exempt in some regulations).
Protected vegetation types and shoreline type (most common).

Derivative work: re-classified the ShoreZone shoreline habitats using Dethier (1990).

Derivative work: used SZ vector data, kelp, eelgrass, substrate.

Derivative work: Rockfish EFH (shoreline type & kelp), Groundfish EFH (kelp & seagrass)

Essential Fish Habitat
ShoreZone & Shoreline Master Programs

Legend
- Roads
- Streams
- Parks/Public Open Space

Shoreline Districts
S1a, Western Slope South, High Intensity
S1b, Western Slope South, Shoreline Residential
S2, Western Slope Central, Urban Conservancy
S3, Western Slope North, Natural
S4, Point Defiance Park, Natural
S5, Point Defiance Park, Urban Conservancy
S6, Ruston Way, Urban Conservancy
S67, Schuster Parkway Transition, Urban Conservancy
S7, Schuster Parkway, High Intensity
S8, Thea Foss Waterway, Downtown Waterfront
S9, Puyallup River, Urban Conservancy
S10, Port Industrial, High Intensity
S11, Marine View Drive, Urban Conservancy
S12, Hylebos Creek, Natural
S13, Waters of the State, Aquatic
S14, Wapato Lake, Urban Conservancy
S15, Point Ruston/Slag Peninsula, High Intensity
Oil spills

- Input data to ESI.
- For WDFW, preferred because more detailed.
- ShoreZone units will be basis of pre-segmentation in NWAC (OR & WA).
Landscape Planning Examples

Next up...
Modelling

- Potential eelgrass restoration areas
- Leads: Jeff Gaeckle (DNR) and Ron Thom (PNNL)
Limitations

- Need polygons (area) for unit and features
- Seagrass in large flats=
  - 15% of shoreline with seagrass
  - 50% of total seagrass area
Limitations

- Current enough?
- Change detection?
Other Approaches

- PSNERP - polygon and line features that span nearshore, deltas, and adjacent uplands.