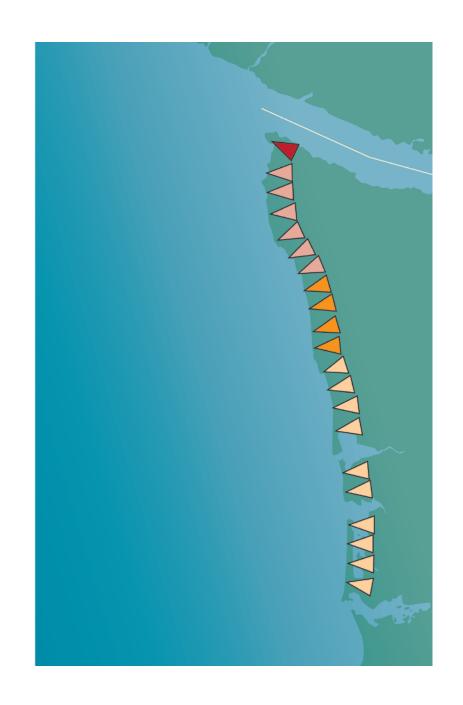
Conceptual models of six habitat types in Washington State marine spatial planning waters.

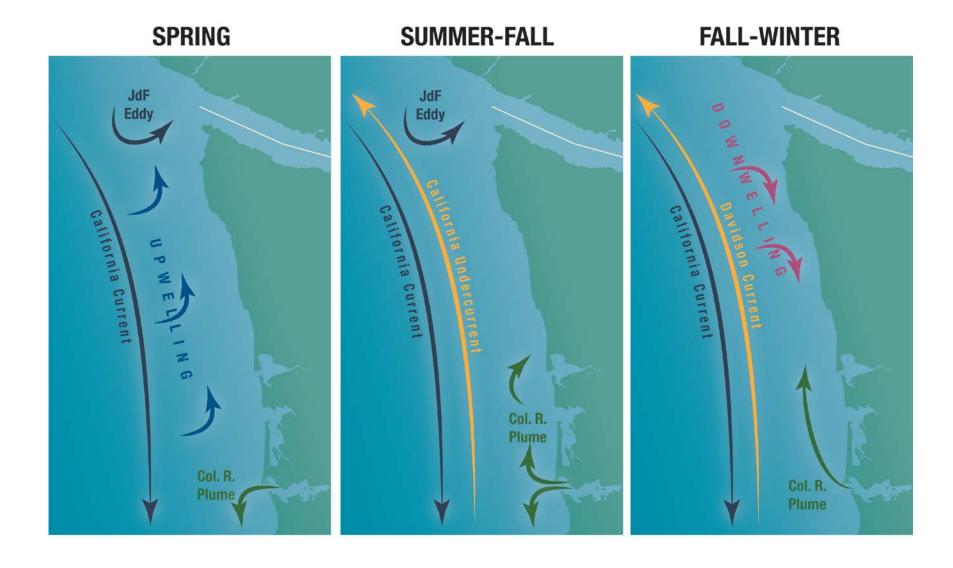
Graphics by: Su Kim, Office of the Science Director Division, Northwest Fisheries Science Center, National Marine Fisheries Service, National Oceanic and Atmospheric Administration, 2725 Montlake Blvd E., Seattle, WA 98112

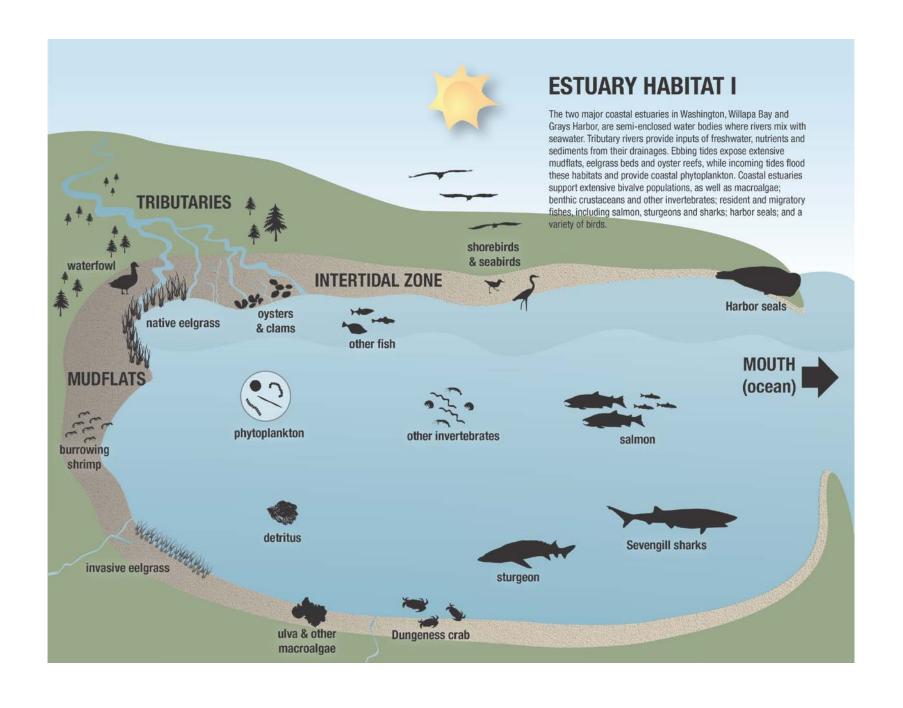
Content developed by: Kelly S. Andrews and Chris J. Harvey, Conservation Biology Division, Northwest Fisheries Science Center, National Marine Fisheries Service, National Oceanic and Atmospheric Administration, 2725 Montlake Blvd E., Seattle, WA 98112

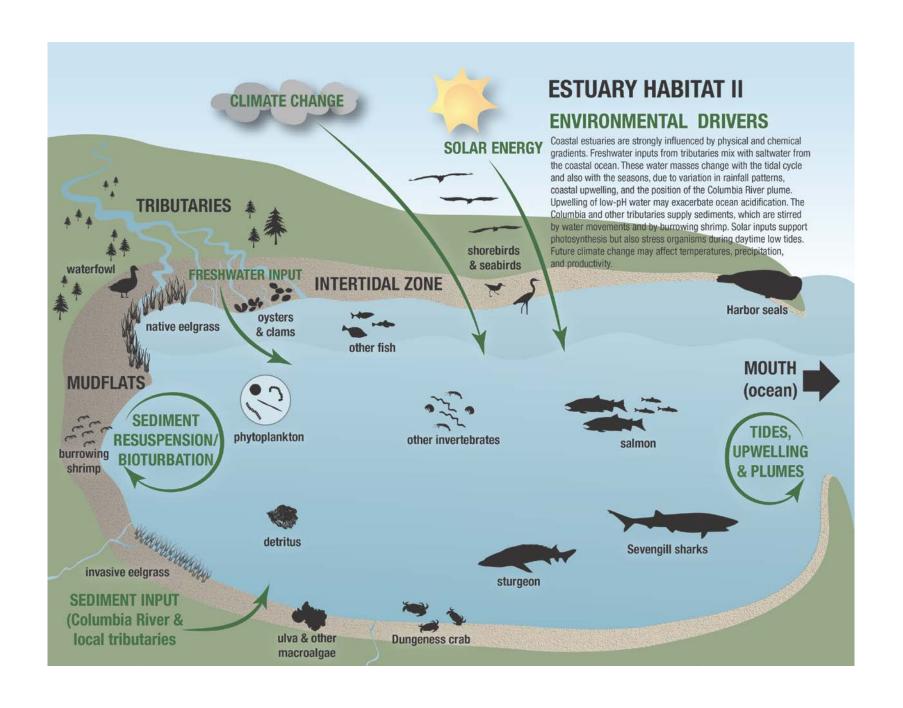
DOMINANT COASTAL FEATURES

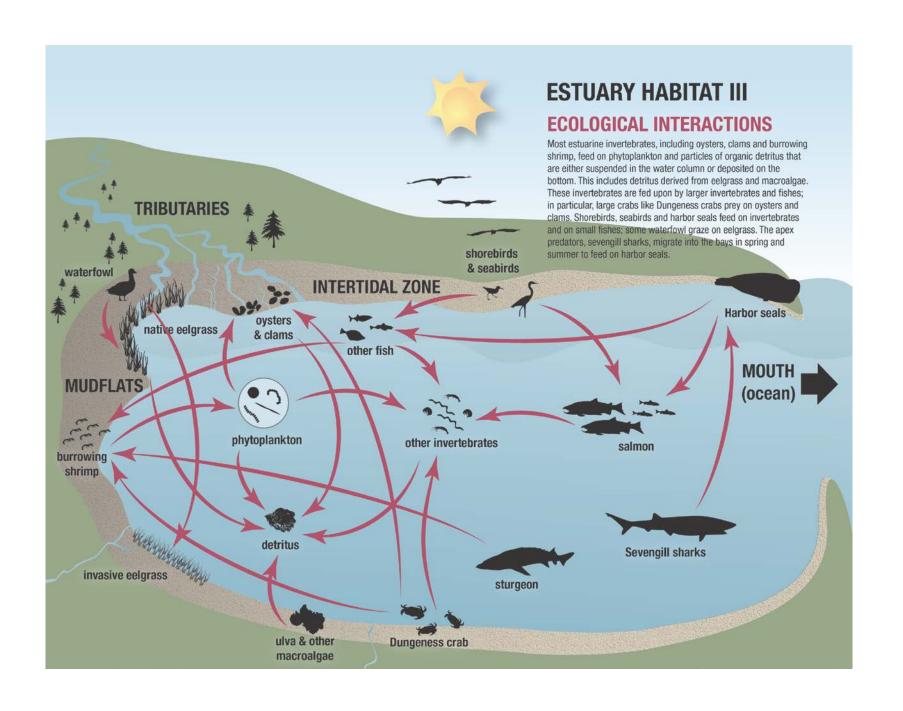
- = rocky cliffs, bedrock benches
- = mixed: rocky cliffs and benches with beach desposits; frequent offshore islands and sea stacks
- = mixed: sandy bluff and sand/gravel beach with some rocks, headlands, islands
- = sandy beach

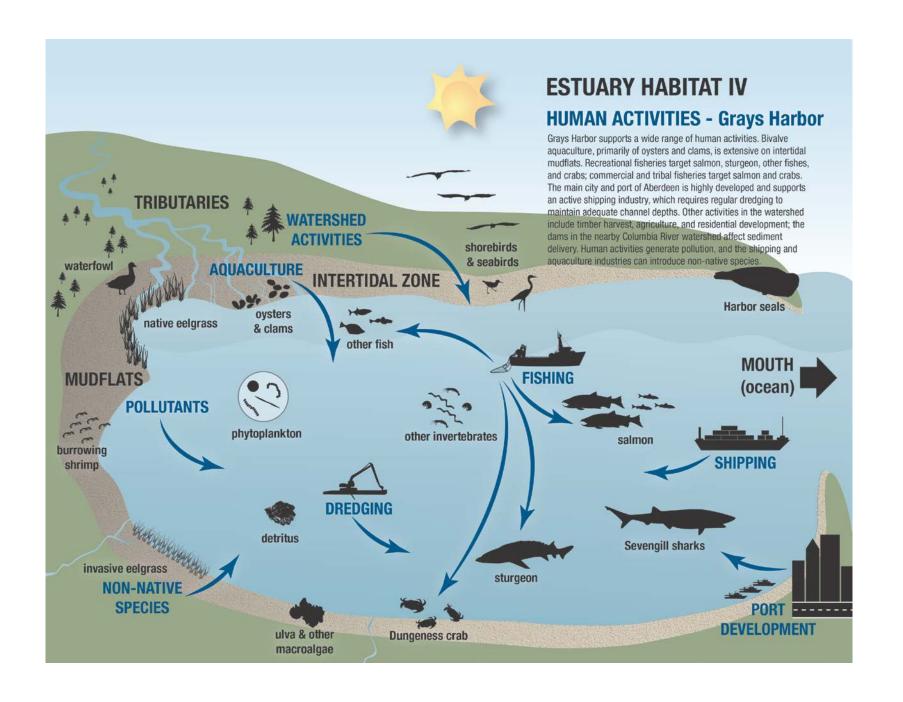


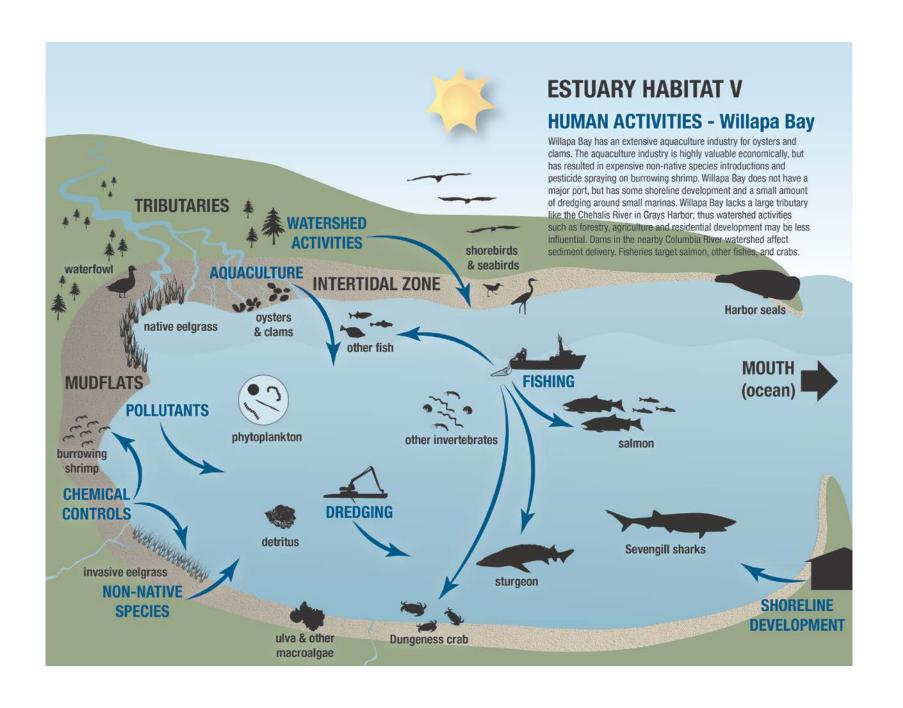


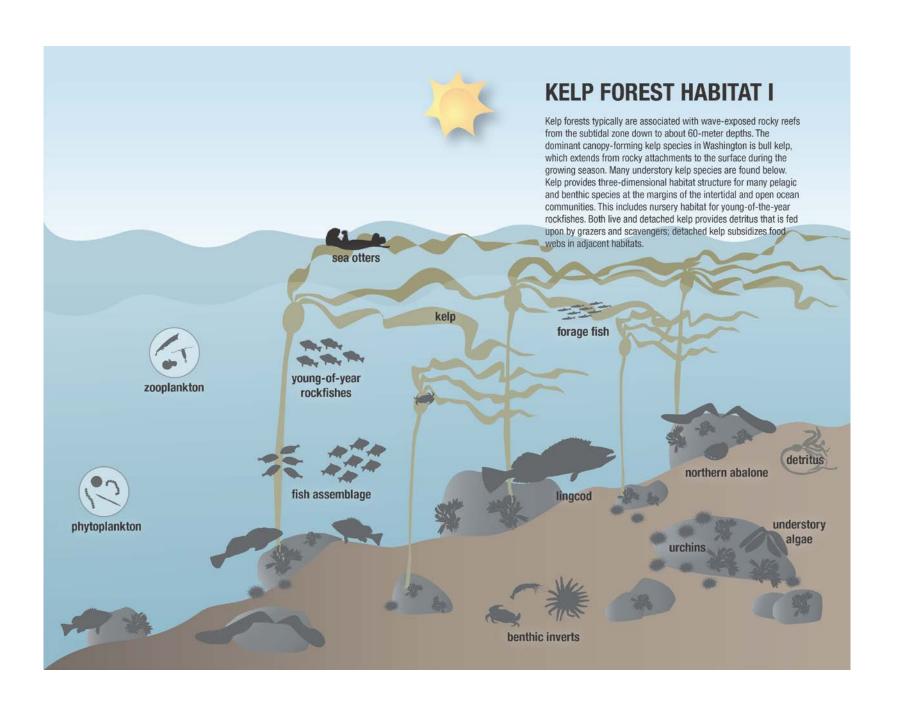


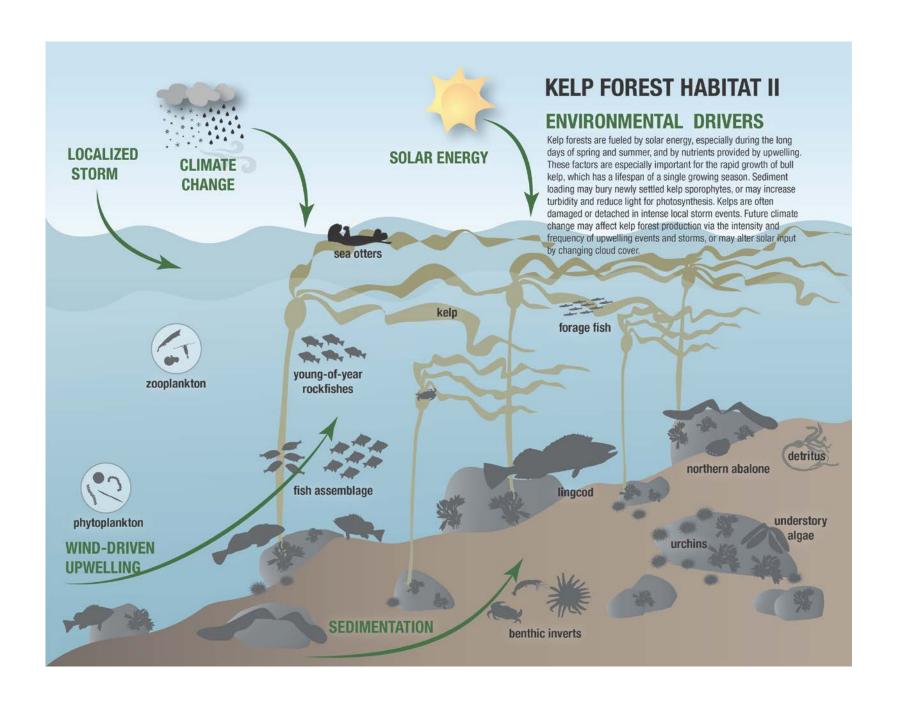


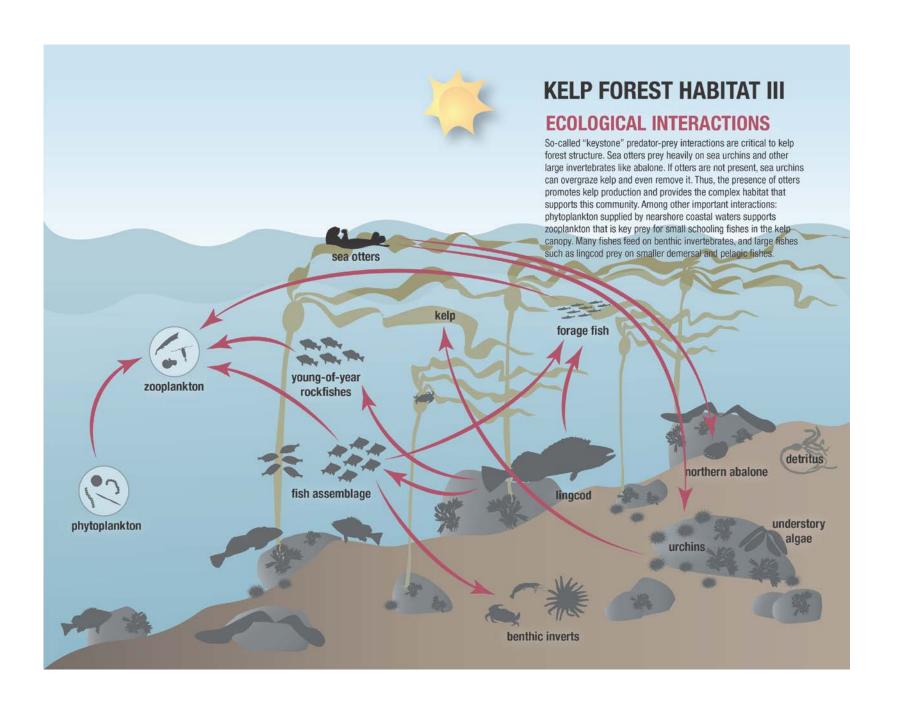


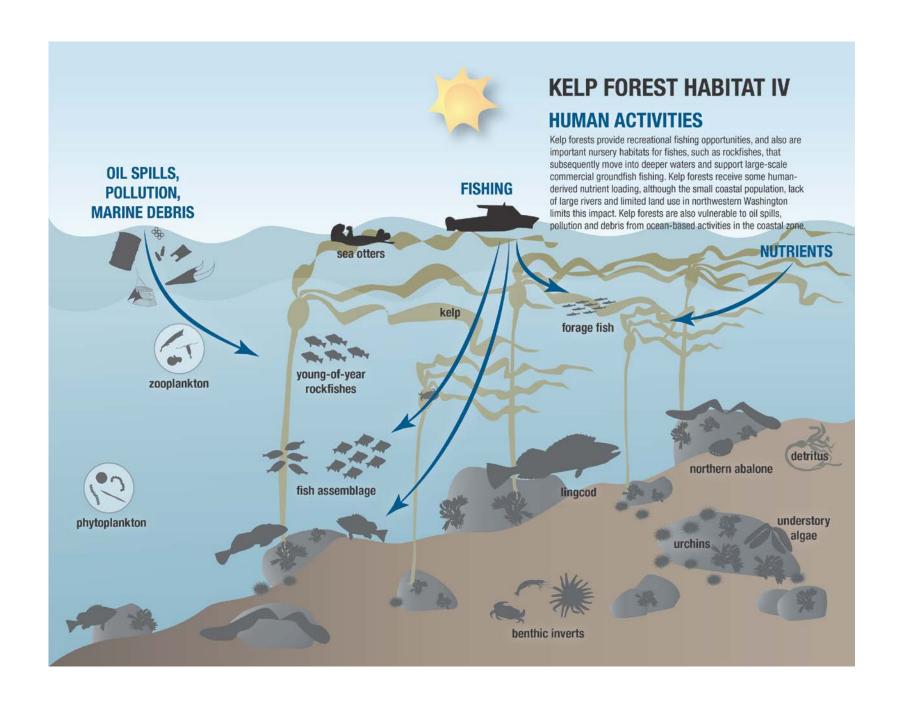














PELAGIC HABITAT I

The pelagic habitat represents the water column off the coast of Washington, over the continental shelf and the upper reaches of the continental slope. This habitat is characterized by masses of open water that are constantly moving and changing, and by planktonic and free-swimming species that range from the surface to deep, off-bottom waters. Many of these species occur in large schools or patches concentrated at different points in time or space. Some species make large migrations each day (deeper in the daytime, shallower at night) or a seasonal basis (from Washington coastal waters to some other region).



seabirds

sardines, anchovy, herring & smelt



phytoplankton & bacteria



marine mammals



salmon







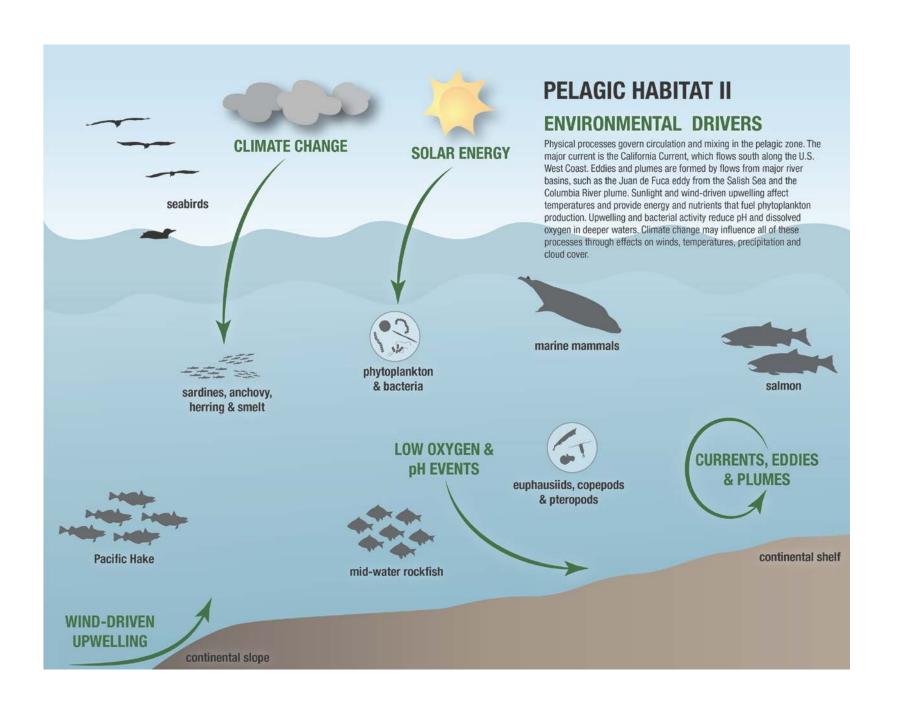
mid-water rockfish

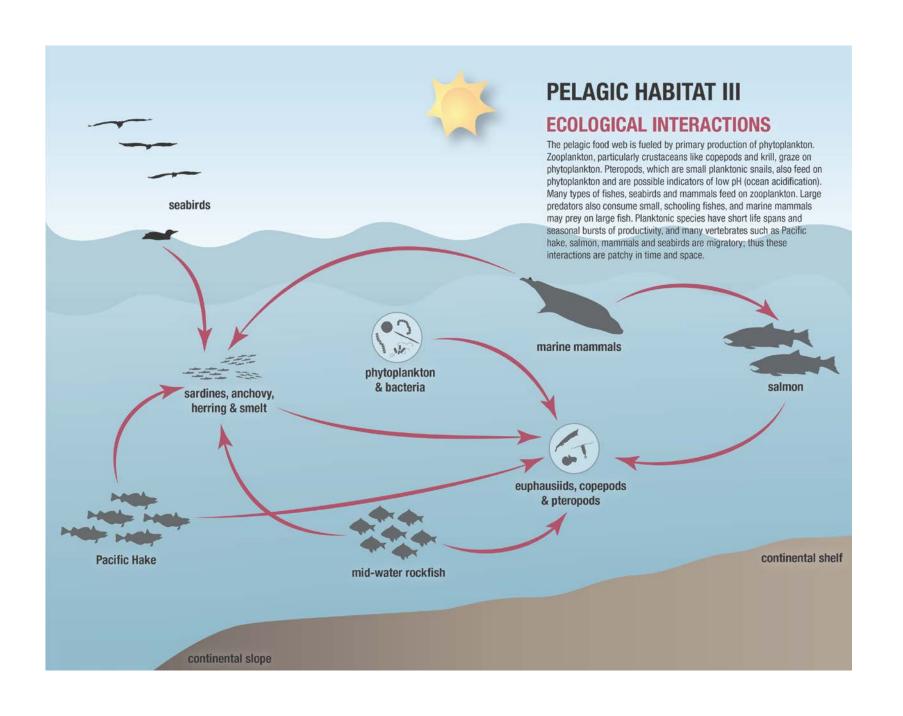


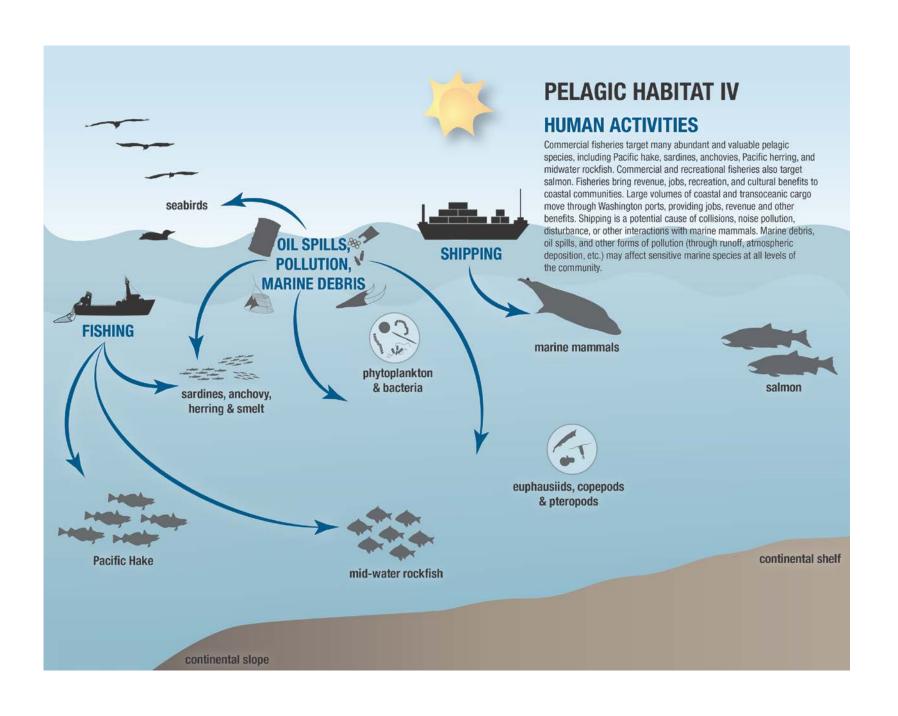
euphausiids, copepods & pteropods

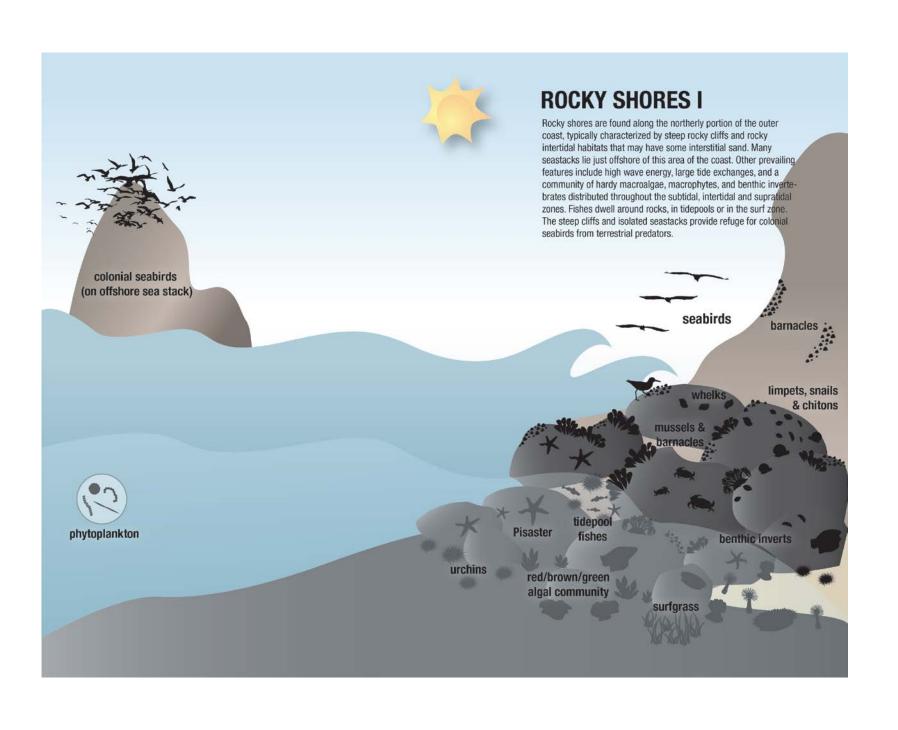
continental shelf

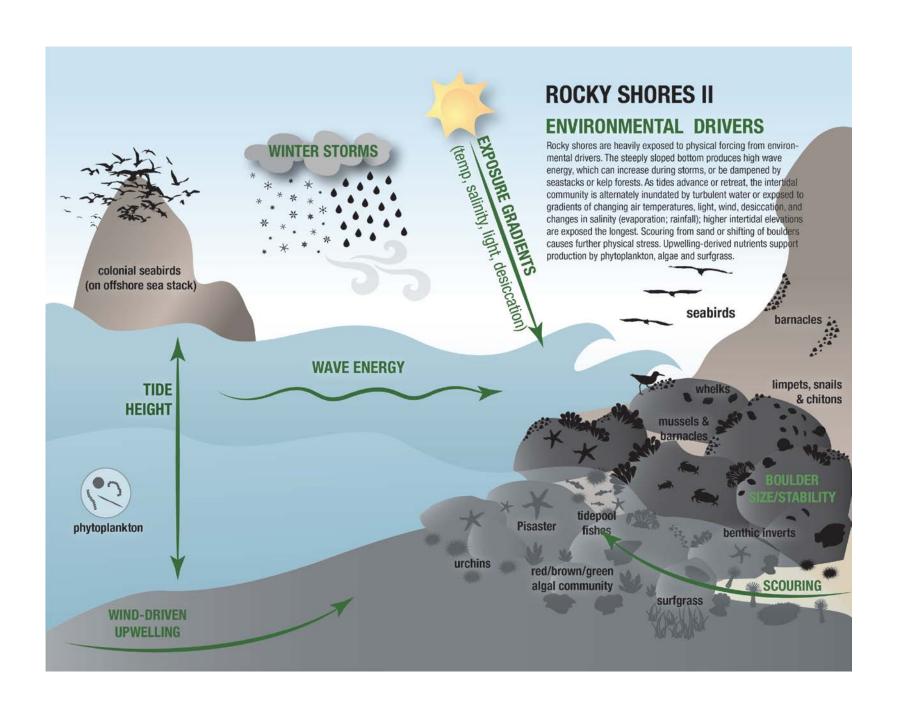
continental slope

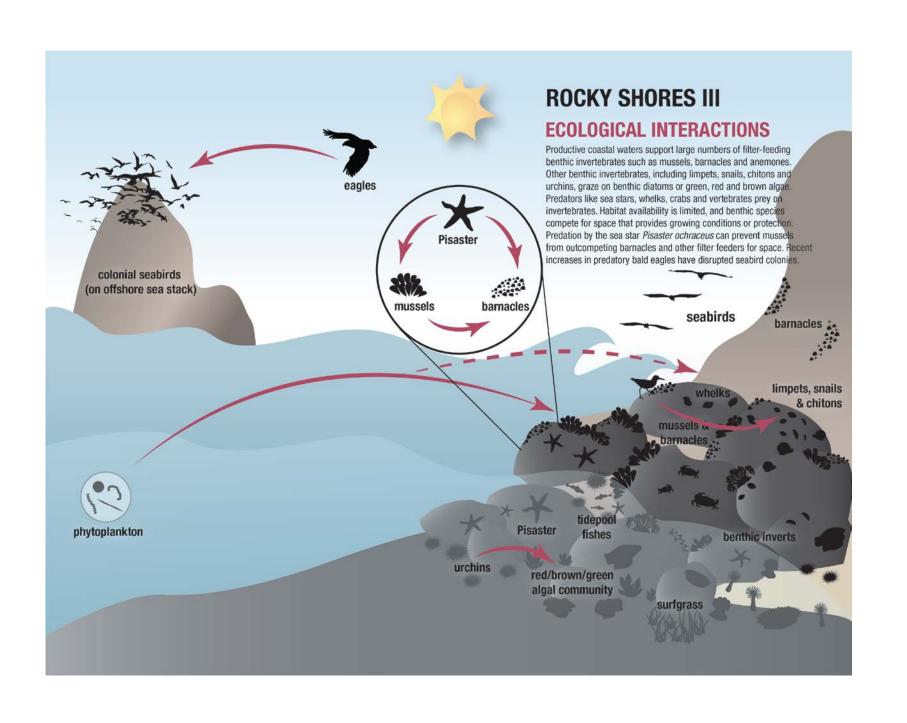


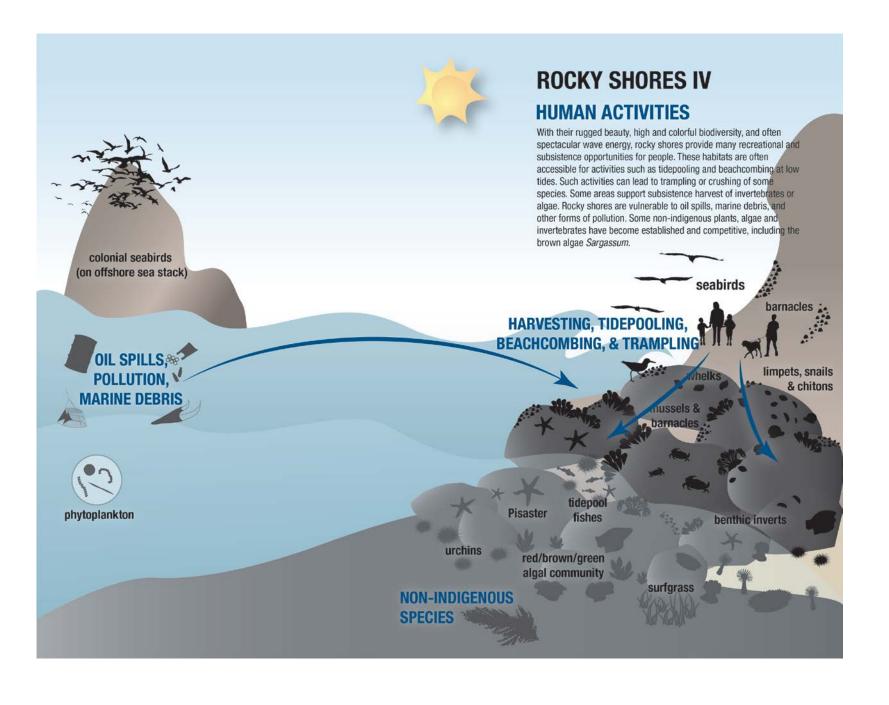












SANDY BEACH HABITAT I

Sandy beaches are the predominant habitat type along the southern and central Washington coast. They are characterized by sand sediments, twice-daily high and low tides, direct exposure to high wave energy, and relatively little in the form of habitat-structuring components such as rocks, macroalgae, or seagrasses. Much of the productivity on sandy beaches is subsidized by production in adjacent systems. Sandy beaches host many burrowing or tunneling invertebrates, a community of fishes and invertebrates in the highly active surf zone, and many species of birds.

