Pacific Northwest Marine Ecoregional Assessment

Large Format Maps

Note:

The large format maps included in this pdf file are designed to print on an 11" X 36" page using a large format plotter. These maps can be viewed full size on a computer screen, allowing one to scroll up or down the map without any need to move the map horizontally. Each 11" X 36" map contains the same image that is displayed across four 8.5 X 11" pages of maps which are included in that version of the report formatted for printing on standard printers.

Recommended Citation:

Vander Schaaf, D., K. Popper, D. Kelly and J. Smith. 2013. *Pacific Northwest Marine Ecoregional Assessment*. The Nature Conservancy, Portland, Oregon. All maps created by Aaron Jones, The Nature Conservancy.

Updates and Digital Version of Assessment:

This Ecoregional Assessment is available on the Web at:

https://www.conservationgateway.org/ConservationPlanning/SettingPriorities/EcoregionalReports Maps, text and Appendices can be printed from downloadable Web-based files. Any published updates to the Assessment will be made available at the same Website.

Prepared by
The Nature Conservancy
2013

Pacific Northwest Marine Ecoregional Assessment Map 2. Conservation Targets - Benthic Habitats La Pérouse Bank SAN JUAN ISLANDS Swiftsure Bank Port San Juan Sheringham Pt Otter Pt Cape Calver Albert Head ape Alava CLALLAM This map represents the distribution of the 64 modeled benthic habitats, some of the 'coarse filter' Toleak Pt conservation targets used to guide Hoh Head conservation area selection for the JEFFERSON ecoregional assessment. The benthic habitat layer is developed from three physical variables: bathymetry (depth), lithology (substrate) and geomorphology. For a full list of habitats and methods, see Chapter 2 Cape Elizabeth for more information. POINT GRENVILLE-HARBOR Copalis Head Pt Brown THURSTON Pt Chehalis Cape Shoalwater Willapa Bay Leadbetter Pt PACIFIC Cape Disappointment COWLITZ WASHINGTON OREGON CLATSOP Nehalem COLUMBIA TILLAMOOK HEAD Bank/Shale CAPE FALCON Nehalem Bay WASHINGTON Tillamook B CAPE MEARES Netarts Bay TILLAMOOK CAPE LOOKOUT Astoria Fan YAMHILL Cape Kiwanda Nestucca Bay CASCADE HEAD POLK Cape Foulweather Yaquina Bay LINN BENTON Stonewall Alsea Bay Cape Perpetua Heceta Head LANE Siltcoos Bank North Spit DOUGLAS COOS Coquille Pt JOSEPHINE JACKSON Cape Ferrelo OREGON AREA CALIFORNIA **ENLARGED** Pacific Ocean SISKIYOU DEL NORTE 1:1,200,000 All depths shown in meters 50 Km 25 50 Mi 25 **BENTHIC HABITATS** (Topographic position by substrate type) The Nature Mud, Gravel, Cobble, Shell, or Mixed 9.77% Basin 14.63% Slope 3.16% Flats 8.77% Ridge Map produced by: The Nature Conservancy in Oregon, 2013 Net Nature Conservancy Rock TRINIDAD HEAD The Nature Conservancy (TNC) does not verify or guarantee the accuracy, reliability, or completeness of any data provided. TNC provides this data without any warranty of any kind whatsoever, either expressed or implied. TNC shall not be liable for incidental, o.56% Slope 0.04% Basin Flats o.60% Ridge consequential, or special damages arising out of the use of any data provided by TNC. Sand Gorda Basin 0.03% Basin 0.44% Slope Humboldt Bay 18.86% Flats 0.59% Ridge Depth classes (meters) HUMBOLDT -700 -40 **Ecoregional sections Assessment Units** MARINE CONSERVATION AREAS Essential Fish Habitat (EFH)

Pacific Northwest Marine Ecoregional Assessment Map 4. Conservation Targets - Habitats and Processes Father Charles Canyon La Pérouse Bank Swiftsure Bank Cape Calver Albert Head Sheringham Pt Otter Pt Toleak Pt Point of Arches Cape Alava Hoh Head N.8[†] CLALLAM The extent of estuary and shoreline habitats is shown here and on the inset maps. Individual habitat types Toleak Pt are not distinguished because of Hoh Head scale. Ecological processes that drive JEFFERSON ocean productivity including cold water upwelling and phytoplankton concentration, denoted by chlorophyll persistence, are identified in nearshore areas. Some of the data are modeled from satellite imagery Cape Elizabeth such as chlorophyll-a, while other Quinault Canyon data including estuary and shoreline Grays Harbor habitats are from past surveys. For POINT GRENVILLE more information on data sources and descriptions, see Chapter 2. HARBOR Copalis Head Pt Brown THURSTON Cape Shoalwater Leadbetter Pt Long Beach PACIFIC Columbia River WAHKIAKUM COWLITZ Cape Disappointment Clatsop Spit Astoria Canyon WASHINGTON Clatsop Spit OREGON CLATSOP COLUMBIA TILLAMOOK HEAD CAPE FALCON Nehalem Bay WASHINGTON Tillamook Ba CAPE MEARES Netarts Bay TILLAMOOK CAPE LOOKOUT YAMHILL Cape Kiwanda Cape Kiwanda Nestucca Bay Nestucca Bay CASCADE HEAD POLK CASCADE HEAD Cape Foulweather Yaquina Head Stonewall Bank LINN BENTON Cape Perpetua Heceta Head ta Escarpment North Spit Siltcoos Bank CAPE ARAGO North Spit DOUGLAS Blacklock Pt Coquille Pt 3 Ba CAPE BLANCO The Heads CURRY JOSEPHINE JACKSON CANADA Cape Ferrelo OREGON **AREA ENLARGED** CALIFORNIA **CONSERVATION TARGETS** Pacific Kelp canopy Ocean DEL NORTE Chlorophyll-a concentrations 1:1,200,000 All depths shown in meters Shoreline (43 types*) 50 Km Estuary substrates (18 types*) 50 Mi Estuary vegetation (3 types*) * Classes not distinguished on map. Cold water upwelling persistence: Map produced by: The Nature Conservancy in Oregon, 2013 © The Nature Conservancy High (>= 1.5 STD) The Nature Conservancy (TNC) does not verify or guarantee the accuracy, reliability, or completeness of any data provided. TNC provides this data without any warranty of any kind whatsoever, either expressed or implied. TNC shall not be liable for incidental, consequential, or special damages arising out of the use of any data provided by TNC. TRINIDAD HEAD Low (0.5 - 1.5 STD) Islands and rocks Gorda Basin Depth classes meters Humboldt Ba Inner shelf 40 Midshelf HUMBOLDT 200 Mesobenthal Arcata Bay Bathybenthal REFERENCE Mendocino Ridge Gorda Escarpment **Assessment Units** Humboldt B **Ecoregional sections**

126°W







