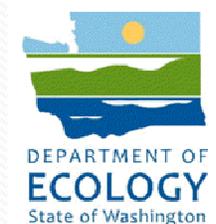


Washington Coastal Atlas: a web based tool for resource planning and management



Washington Forum on Marine Spatial Planning
October 20, 2009

Kathy Taylor, Ph.D.



Coastal Atlas Team

Kathy Taylor
Darby Veeck
Deborah Purce
Liz O'Dea
Dan Saul



Coordination with other entities

In Washington:

- Department of Natural Resources
- Department of Health (Shellfish Group)
- Department of Fish and Wildlife
- Puget Sound Partnership
- Department of Transportation
- Community, Trade, and Economic Development
- Parks
- Northwest Indian Fish Commission

Outside of Washington:

- Oregon CZM program (OR Coastal Atlas, Public Access)
- NOAA Coastal Services Center (Coastal Change Analysis Program Data)
- ICAN



Washington Coastal Atlas

- Purpose
- Target Audience
- Geographic Extent
- Information Available
- Future Directions

The screenshot shows the Washington Coastal Atlas website. At the top, the address bar displays http://www.ecy.wa.gov/programs/sea/sma/atlas_home.html. The header features the Department of Ecology logo and navigation links for Home, WATER, AIR, WASTE, CLEANUP, TOXIC HAZARDS, GREEN, About Us, and Jobs. Below the header, the main content area is titled "Washington Coastal Atlas" and includes a "COASTAL ATLAS HOME" section with links for Start Mapping, Tips for Using Site, and Useful Links. The "Start Mapping" section features a map of Washington and text explaining the atlas's purpose: "Use the Coastal Atlas to learn about Washington's marine shorelines and the land breaks near Puget Sound, the outer coast, and the estuarine portion of the Columbia River. You can view aerial photographs of marine shorelines, locate different habitat types, physical features, see changes in land cover, and much more." The "Tips for Using this Site" section provides instructions on navigating the atlas, viewing shoreline photos, and using mapping tools. The "Useful Links" section offers links to coastal public access information, other atlas sites, and Department of Ecology partner web sites. The "Coastal Atlas Partners" section displays logos for the Washington State Department of Natural Resources and the NOAA Coastal Services Center. The footer includes the Access Washington logo, copyright information for the Washington State Department of Ecology, and contact information for Ecology staff.

Purpose

Purpose

- *To make relevant information easily available for use in coastal and shoreline resource planning and management.*



Examples

- Provide information to update local Shoreline Master Programs
- View current or historic aerial photos of project sites
- Gather information prior to field work or site visits
- Quickly prepare maps to inform a variety of audiences on specific topics or projects
- Document shoreline uses
- Find information on slope stability for specific shoreline areas
- View changes over time in the marine shoreline or in upland land cover

Target Audience

Primary Targets

- Local governments implementing WA CZM through local Shoreline Master Programs
- State government agencies with authority to regulate or manage activities on the shorelines and tidelands of Washington

Other important users

- Tribal governments
- Federal agencies
- Non-governmental organizations
- Outdoor recreation groups
- Real estate professionals
- Private citizens



Geographic Extent

- Marine shoreline of Washington's outer coast
- Shoreline and waters of Puget Sound
- Estuarine portion of the Columbia River
- Upland information for all counties with marine or estuarine shorelines



Data Available

- **Biological/Habitat Features**

- Wetlands
- Historic Estuary Maps
- Pocket Estuaries
- Dunegrass, Surfgrass
- Kelp, Eelgrass
- Salt Marsh
- Low Marsh

- **Physical Features**

- Drift Cells
- Slope Stability
- Water Bodies (100k)
- Water Courses (100k)

- **Regulated Features**

- Commercial Shellfish
- Flood Zone
- Drinking Water Wells
- Category Water (5, 4C, 4B, 4A, 2, 1)

- **Modifications**

- Piers and Docks
- Shore Modification

- **Jurisdictional Delineations**

- Watershed (WRIA) Boundaries
- Sub Basins
- Counties
- Cities
- Township/Range/Section

- **Transportation Features**

- Major Roads
- Streets
- Railroads

- **Background Imagery**

- USGS Topo Maps
- Aerial Imagery
- Hillshade
- Nautical Charts

- **Satellite Imagery**

- Land Use/Land Cover 1991, 1996, 2001

- **Other Imagery**

- Oblique shoreline photos 1976-77, 1992-'97, 2000-02, 2006



Washington Coastal Atlas

- Coastal Atlas Home
- Start Mapping
- Tips for Using Site
- Useful Links



Start Mapping

Use the Coastal Atlas to learn about Washington's marine shorelines and the land areas near Puget Sound, the outer coast, and the estuarine portion of the Columbia River. You can view aerial photographs of marine shorelines, locate different habitat types, physical features, see changes in land cover, and much more.

Tips for Using this Site

Learn how to navigate the Washington Coastal Atlas, view shoreline photos, use the mapping tools and create customized maps.

Useful Links

Links to coastal public access information, other coastal atlas sites and Department of Ecology partner web sites.

Coastal Atlas Partners



-  FULL STATE
-  ZOOM IN
-  ZOOM OUT
-  PAN
-  ZOOM TO
-  ZOOM LAST
-  VIEW PHOTO
-  SELECT
-  SELECT POLYGON
-  BUFFER
-  CLEAR SELECT
-  LAND COVER
-  MEASURE
-  PRINT MAP

[Refresh Map](#)



- Data Layers**
- Biological/Habitat Fea
 - Physical Features
 - Regulated Features
 - Modifications
 - Jurisdictional Delineat
 - Transportation Featur
 - Background Imagery
 - Satellite Imagery

- Help:**
- A closed group, click to open.
 - An open group, click to close.
 - A hidden layer, click to make visible.
 - A visible layer, click to hide.
 - A visible layer, but not at this scale.

 Map created by the WA State Department of Ecology



Introduction

1. Choose Data Layers to display from right hand menu and then click [Refresh Map](#). If layer is not visible,  until features are displayed.

2. Click on tools such as ,  or  for further instructions and information in this window.



Background Layers

- Hillshade
- Aerial Imagery
- Nautical Chart
- USGS Topo Map



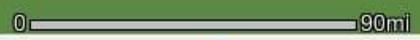
Refresh Map



- Data Layers**
- Biological/Habitat
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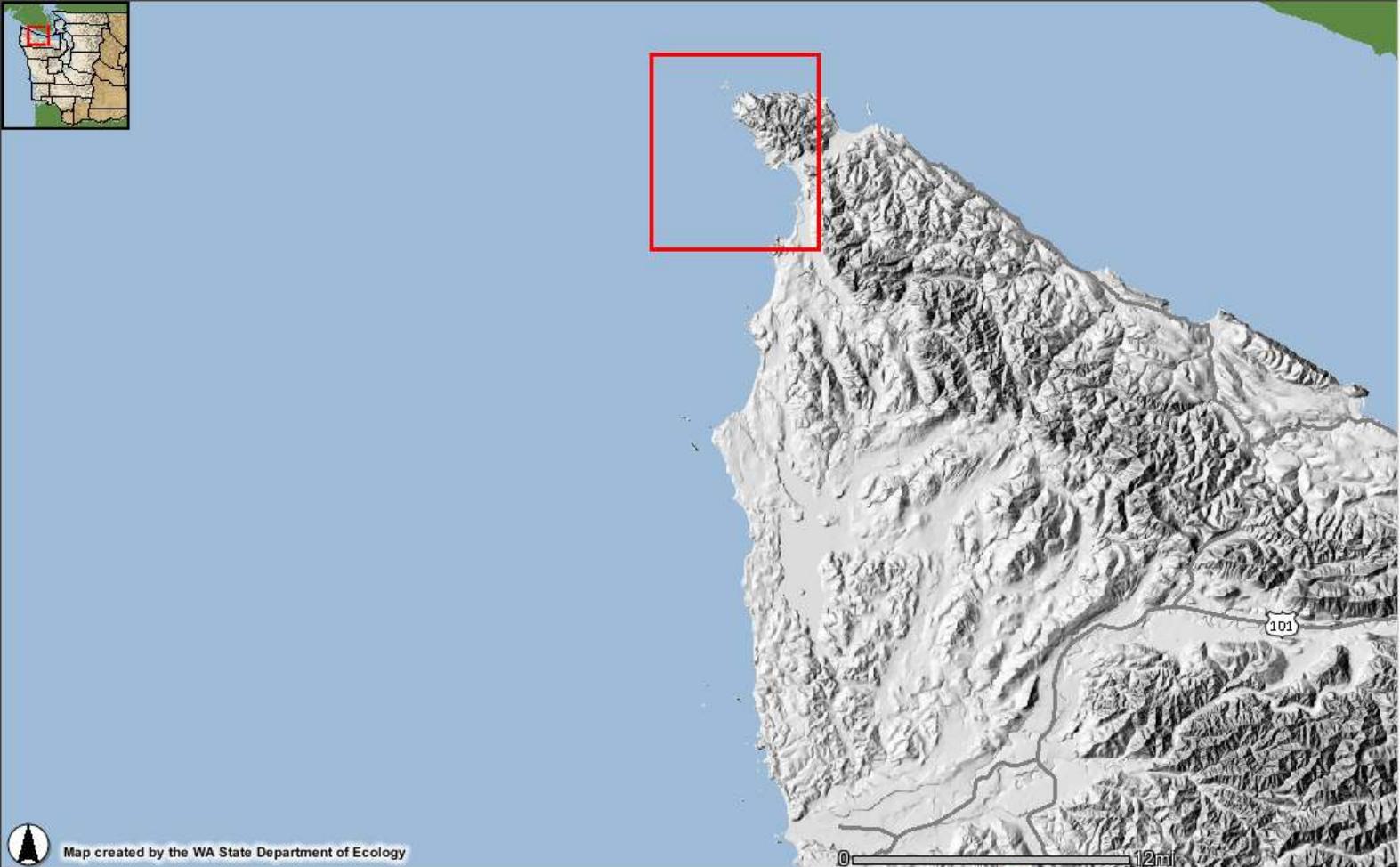
Introduction

1. Choose Data Layers to display from right hand menu and then click Refresh Map . If layer is not visible, ZOOM IN until features are displayed.

2. Click on tools such as SELECT, LAND COVER or VIEW PHOTO for further instructions and information in this window.

FULL STATE ZOOM IN ZOOM OUT PAN ZOOM TO ZOOM LAST VIEW PHOTO SELECT SELECT POLYGON BUFFER CLEAR SELECT LAND COVER MEASURE PRINT MAP

Refresh Map



Data Layers

- Biological/Habitat Features
- Physical Features
- Regulated Features
- Modifications
- Jurisdictional Delineations
 - Watershed (WRIA) Boundaries
 - Sub Basins
 - County
 - Cities
 - Township/Range/Section
- Transportation Features
- Background Imagery
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 - USGS Topo Maps
 - Aerial Imagery
 - Hillshade
- Satellite Imagery

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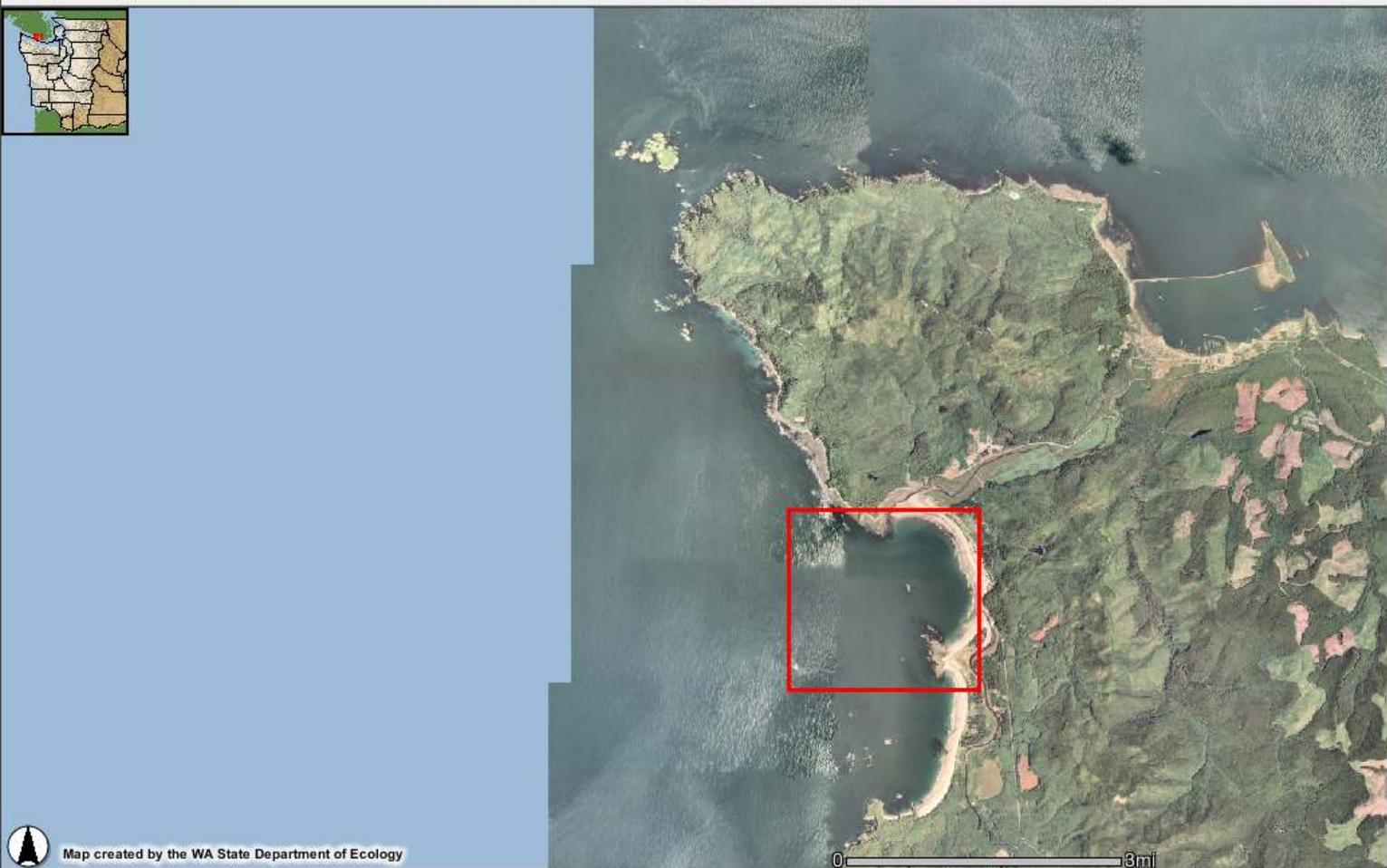
Introduction 1. Choose Data Layers to display from right hand menu and then click **Refresh Map**. If layer is not visible,  until features are displayed.

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Help:

Map navigation tools: FULL STATE, ZOOM IN, ZOOM OUT, PAN, ZOOM TO, ZOOM LAST, VIEW PHOTO, SELECT, SELECT POLYGON, BUFFER, CLEAR SELECT, LAND COVER, MEASURE, PRINT MAP

Refresh Map



Data Layers

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Map created by the WA State Department of Ecology

Introduction

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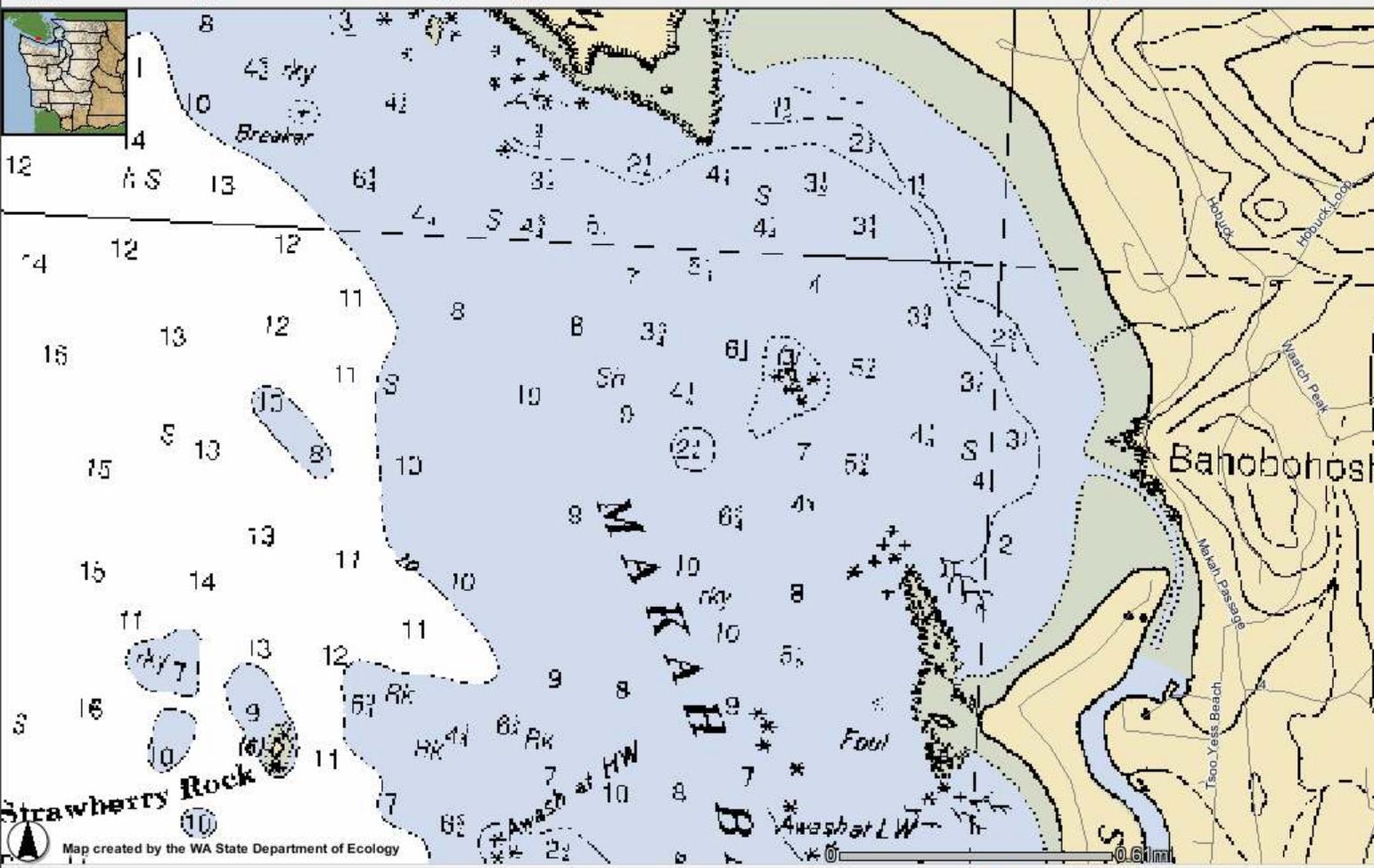
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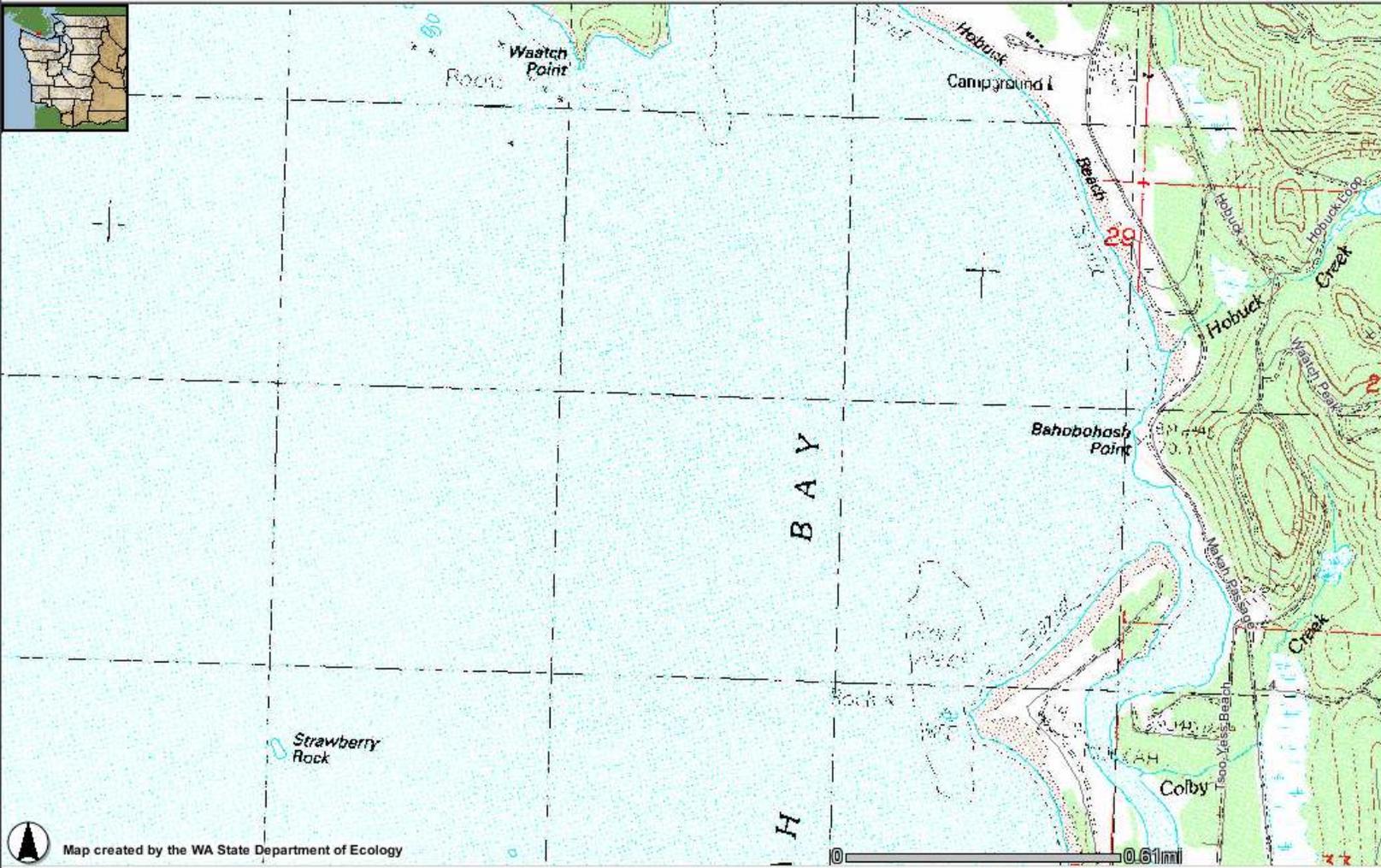
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Example Data Layers

- Biological Features
- Physical Features
- Modifications to the Environment



- ### Data Layers
- Biological/Habitat Features
 - Physical Features
 - Regulated Features
 - Modifications
 - Jurisdictional Delineations
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- Data Layers**
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Example Data Layers

- **Biological Features**
- Physical Features
- Modifications to the Environment



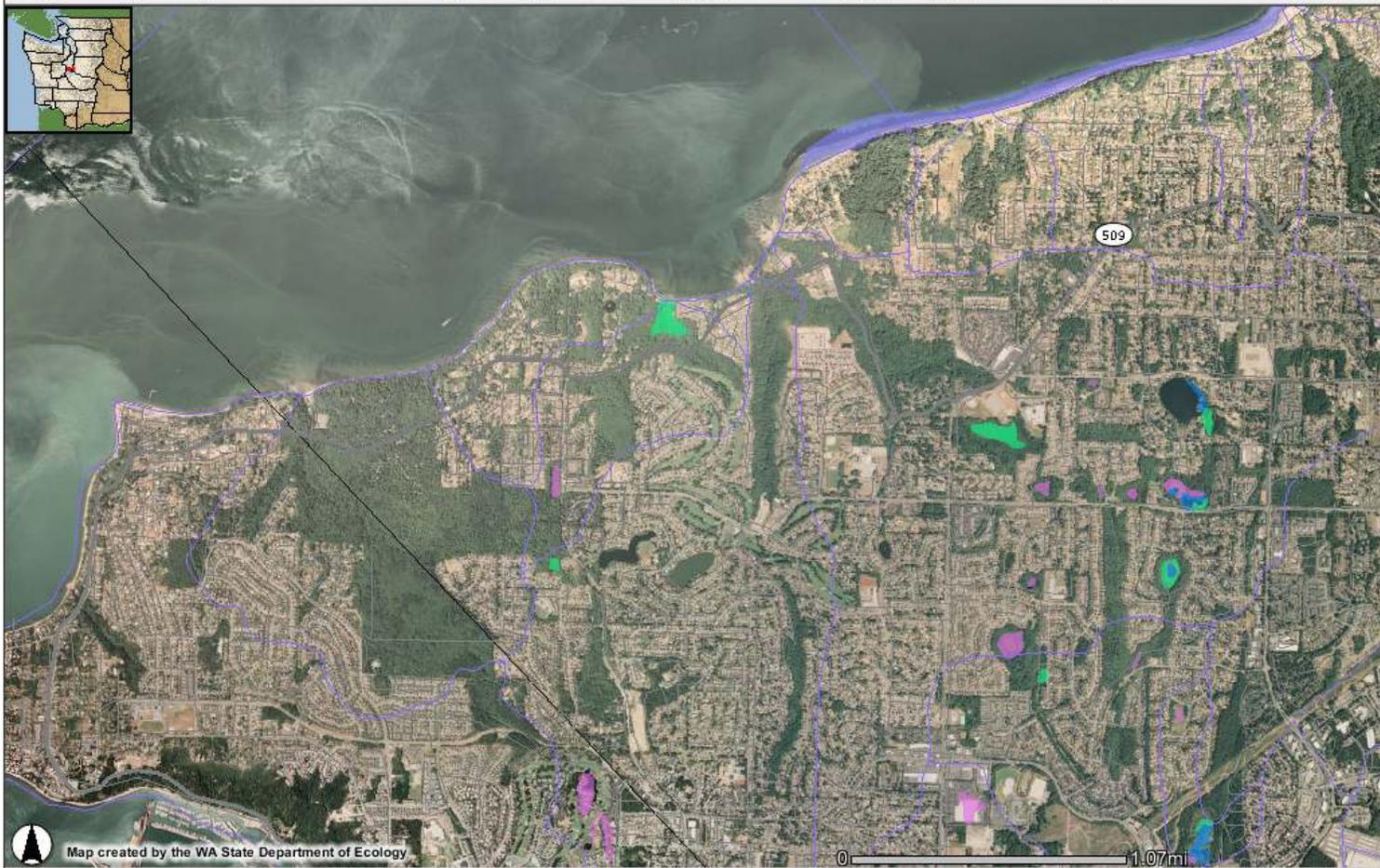
Data Layers

- Biological/Habitat Features**
 - Wetlands**
 - Aquatic Bed
 - Emergent
 - Forested
 - Shrub/Scrub
 - Tidal Aquatic Bed
 - Tidal Emergent
 - Tidal Forested
 - Tidal Shrub/Scrub
 - Historic Estuary Maps**
 - Pocket Estuaries**
 - Dunegrass
 - Continuous
 - Patchy
 - Surfgrass
 - Continuous
 - Patchy
 - Kelp
 - Continuous
 - Patchy
 - Eelgrass Fringe
 - Continuous
 - Patchy
 - Eelgrass Beds
 - Salt Marsh Fringe
 - Continuous
 - Patchy
 - Salt Marsh
 - Continuous
 - Patchy
 - Low Marsh Fringe
 - Continuous
 - Patchy
 - Low Marsh
 - Continuous
 - Patchy
 - Physical Features**
 - Regulated Features**

Map created by the WA State Department of Ecology

Pan Tool

Allows the user to re-center or move around the map by **1**) Clicking on the Map and, while holding down the left mouse button, **2**) Dragging the Map View across the screen. Release the mouse button when the map is centered at the desired location.



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WASHINGTON STATE
Department of Ecology

FULL STATE ZOOM IN ZOOM OUT

Map created by the WA State De

Department of Ecology **GIS** Geographic Information System **GIS Layer Information**

Layer Name:	Wetlands
Description:	A generalized inventory of wetlands location and classification.
Source:	Generalized from the US Fish & Wildlife Service's National Wetlands Inventory (NWI) by the WA State Dept of Ecology.
Scale:	1:24,000
Date:	1980-1989
Notes:	Compiled from 1:58,000 aerial photography onto 1:24,000 base maps

GIS Layer Attribute Information

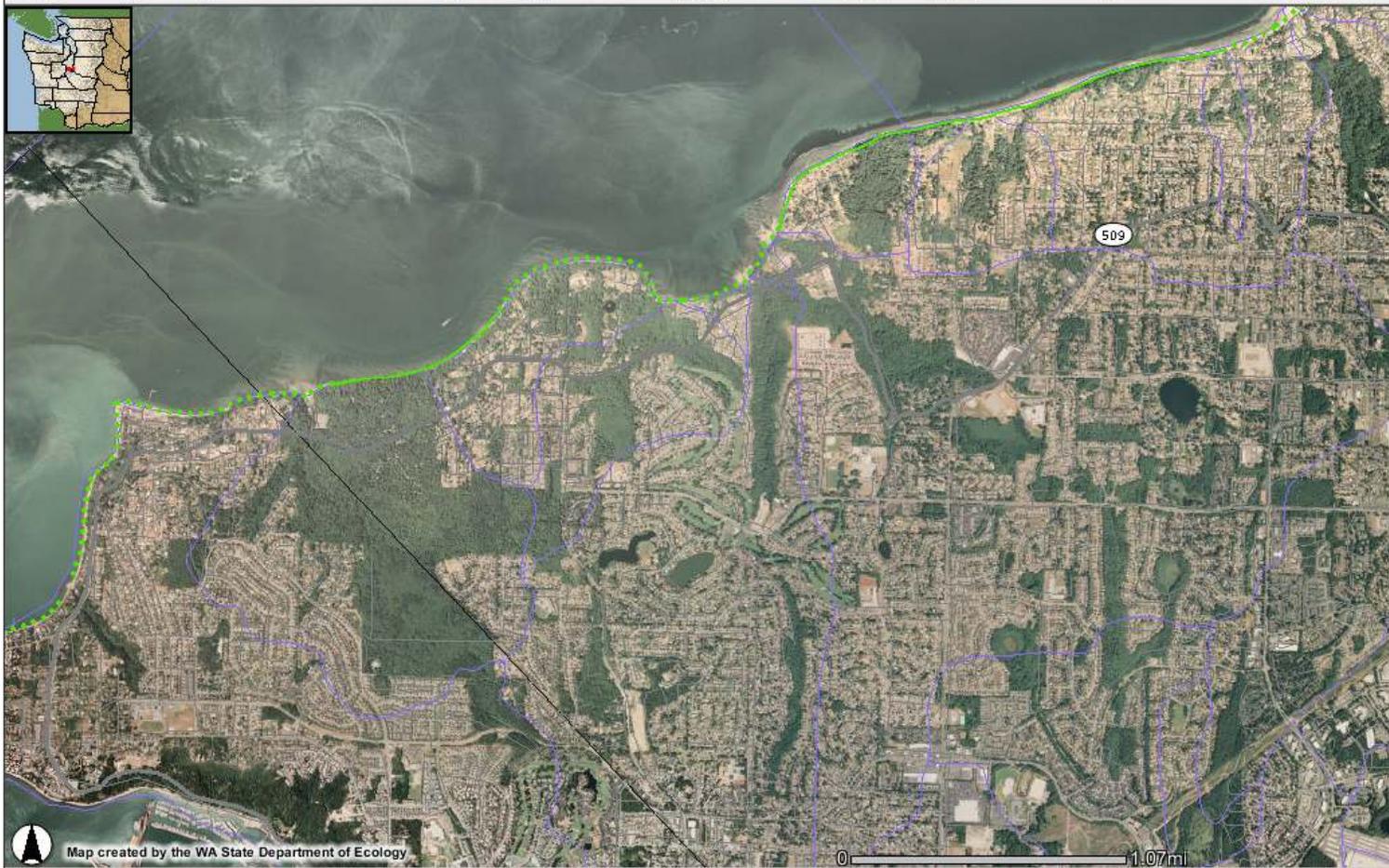
Attribute	Description	Example
Cover Type	Generalized classification of the dominant vegetative cover types	Emergent
Acres	Area of wetland in acres	175.2

Detailed Layer Information

Refresh Map

Data Layers

- Biological/Habitat Features
 - Wetlands
 - Aquatic Bed
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- Physical Features
- Regulated Features



- Data Layers**
- Biological/Habitat Features**
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 - Physical Features**
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Map created by the WA State Department of Ecology
 0 1.07mi
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Example Data Layers

- Biological Features
- **Physical Features**
- Modifications to the Environment



Data Layers

- Biological/Habitat Features**
- Physical Features**
 - Drift Cells**
 - Left to Right
 - Right to Left
 - Divergence Zone
 - NAD
 - Undefined
 - Slope Stability**
 - Stable
 - Intermediate
 - Unstable
 - Unstable Recent Landslide
 - Unstable Old Landslide
 - Modified
 - Water Bodies (100K)**
 - Reservoir
 - Glacier
 - Marsh
 - Water
 - Water Courses (100K)**
 -
- Regulated Features**
- Modifications**
- Jurisdictional Delineations**
- Transportation Features**
- Background Imagery**
- Satellite Imagery**

Pan Tool

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Washington Coastal Atlas - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <https://fortress.wa.gov/ecy> <https://fortress.wa.gov - GIS Layer Information - Microsoft Internet Explorer>

WASHINGTON STATE
Department of Ecology

FULL STATE ZOOM IN ZOOM OUT

Department of Ecology **GIS**
Geographic Information System

GIS Layer Information

Layer Name:	Slope Stability
Description:	The digital maps presented here were originally published as hard copy maps in the Coastal Zone Atlas of Washington between 1978 and 1980. Although the Atlas has been out of print for many years, the maps contain information that remain the basis for local planning decisions. After receiving multiple requests for electronic versions of portions of the Atlas, an effort was made to scan, georeference and digitize aspects of the Atlas, beginning with the slope stability maps. These maps indicate the relative stability of coastal slopes as interpreted by geologists based on aerial photographs, geological mapping, topography, and field observations.
Source:	Washington State Department of Ecology, Shorelands and Coastal Zone Management Program
Scale:	1:100,000
Date:	2004

No attribute records found for layer slp_stblty

Refresh Map

Data Layers

- Biological/Habitat Features
- Physical Features
 - Drift Cells
 - Left to Right
 - Right to Left
 - Divergence Zone
 - NAD
 - Undefined
 - Slope Stability
 - Stable
 - Intermediate
 - Unstable
 - Unstable Recent Landslide
 - Unstable Old Landslide
 - Modified
 - Water Bodies (100K)
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 - Water
 - Water Courses (100K)
- Regulated Features
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- Background Imagery
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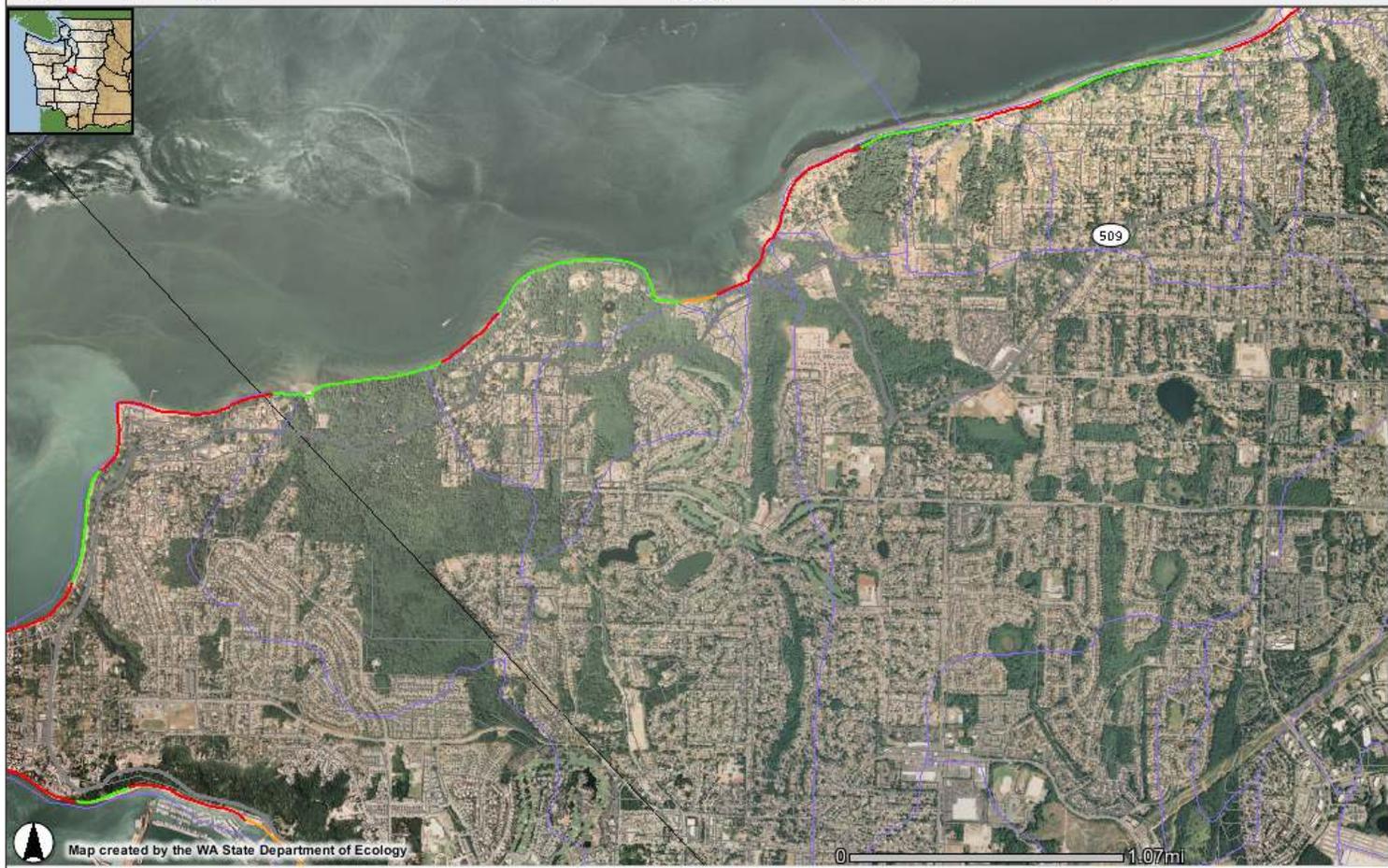
Help:

- A closed group, click to open.
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- A hidden layer, click to make visible.
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Information Available

- Biological Features
- Physical Features
- **Modifications to the Environment**



- Data Layers**
- Biological/Habitat Features
 - Physical Features
 - Regulated Features
 - Modifications
 - Piers and Docks (#)
 - 0 - 6
 - 5 - 35
 - 34 - 122
 - Shore Modification (%)
 - 0 - 21
 - 20 - 71
 - 70 - 100
 - Jurisdictional Delineations
 - Transportation Features
 - Background Imagery
 - Satellite Imagery

- Help:**
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WASHINGTON STATE
Department of Ecology

FULL STATE ZOOM IN ZOOM OUT




Map created by the WA State De

Department of Ecology **GIS** Geographic Information System **GIS Layer Information**

Layer Name:	Shore Modification
Description:	An inventory of Washington State's saltwater shorelines using the ShoreZone Mapping System. Physical and biological resources are described, along with information on the inventory data collection. The majority of the spatial data is line data, with some polygons and points. The inventory divides the shoreline into homogenous physical segments, the average linear segment length is 0.5 miles. Each spatial unit record has many corresponding tabular across-shore component records that describe the unit in more detail.
Source:	Washington State Department Natural Resources, Business Systems Support Division
Scale:	1:24,000
Date:	1994-2000

No attribute records found for layer shore_mod

[Detailed Layer Information](#)

Refresh Map

Data Layers

- Biological/Habitat Features
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 - Piers and Docks (#)
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Data Available

- **Biological/Habitat Features**

- Wetlands

- **Jurisdictional Delineations**

- Watershed (WRIA) Boundaries

We can easily add more data layers when they become available!

- **Physical Features**

- Drift Cells
- Slope Stability
- Water Bodies (100k)
- Water Courses (100k)

- **Regulated Features**

- Commercial Shellfish
- Flood Zone
- Drinking Water Wells
- Category Water (5, 4C, 4B, 4A, 2, 1)

- **Modifications**

- Piers and Docks
- Shore Modification

- Major Roads
- Streets
- Railroads

- **Background Imagery**

- USGS Topo Maps
- Aerial Imagery
- Hillshade
- Nautical Charts

- **Satellite Imagery**

- Land Use/Land Cover 1991, 1996, 2001

- **Other Imagery**

- Oblique shoreline photos 1976-77, 1992-'97, 2000-02, 2006



Land Cover Information

- NOAA Coastal Change Analysis Program Data
- Change in Forest Cover
- Change in Impervious Surface Cover

Map navigation tools: FULL STATE, ZOOM IN, ZOOM OUT, PAN, ZOOM TO, ZOOM LAST, VIEW PHOTO, SELECT, SELECT POLYGON, BUFFER, CLEAR SELECT, LAND COVER, MEASUR. Refresh Map button.



- Data Layers
- Biological/Habitat Features
 - Physical Features
 - Regulated Features
 - Modifications
 - Jurisdictional Delineation
 - Transportation Features
 - Background Imagery
 - Satellite Imagery

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Land Use Statistics Tool

1. Choose a layer to select from:

2. With the left mouse button, click on the map to select an area to select desired features.

3. Once feature(s) are selected, a report of two land use metrics.

Cursor location is approximately:

If the layer is not visible at the current scale, zoom in until the features are displayed.

- FULL STATE
- ZOOM IN
- ZOOM OUT
- PAN
- ZOOM TO
- ZOOM LAST
- VIEW PHOTO
- SELECT
- SELECT POLYGON
- BUFFER
- CLEAR SELECT
- LAND COVER
- MEASURE
- PRINT MAP

Refresh Map

Data Layers

- Biological/Habitat Features
- Physical Features
- Regulated Features
- Modifications
- Jurisdictional Delineations
- Transportation Features
- Background Imagery
- Satellite Imagery

Help:

- A closed group, click to open.
- An open group, click to close.
- A hidden layer, click to make visible.
- A visible layer, click to hide.
- A visible layer, but not at this scale.



Map created by the WA State Department of Ecology

County [Return to Select Options](#)

Rec	County Name	County Code
1	Grays Harbor	14

Washington Coastal Atlas - Microsoft Internet Explorer

Address <https://fortress.wa.gov> - Coastal Atlas Land Cover Reports - Microsoft Internet Explo...

WASHINGTON STATE Department of Ecology **Coastal Atlas**

Report on Percent Cover of Forest Canopy Impervious Surface Report

The percentage of forest canopy is a measure of the amount of area covered by woody vegetation greater than 6 meters (20 ft) in height. This includes:

- evergreen forest (e.g. Douglas fir, western red-cedar, western hemlock),
- deciduous forest (e.g. red alder, oak, big-leaf maple),
- mixed forest (e.g. evergreens and deciduous), and
- forested wetlands (e.g. sitka spruce).

The values reported reflect an average forest canopy across the area of land selected (sub-basin, county, or watershed (WRIA), because the amount of forest canopy cover is reported as a percentage of the total area.

The change in the percentage of forest canopy cover over time indicates how much forest was converted into other land cover types (reductions in percent forest cover) or the amount of reforestation of previously non-forested area (increases in forest percent forest cover).

The data used in this analysis have an overall accuracy of 85 percent. While this information is useful in identifying regional landscape patterns, it is not intended to be used to make specific land use decisions at a fine scale of individual parcels.

County Name	% Forest Canopy Cover 1991	% Forest Canopy Cover 1996	% Forest Canopy Cover 2001	% Change in Forest Canopy 1991-1996	% Change in Forest Canopy 1996-2001	% Change in Forest Canopy 1991-2001
Grays Harbor	72.0	68.0	66.0	-6.0	-3.0	-8.0

Technical Information:

The percent of forest canopy coverage was based on the National Oceanic and Atmospheric Administration's Coastal Change Analysis Program (<http://www.csc.noaa.gov/crs/lca/ccap.html>). The Coastal Change Analysis Program cover classes of Deciduous Forest, Mixed Forest, Evergreen Forest, and Palustrine Forest were combined to calculate and

Refresh Map

Data Layers

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Map created by the W

Washington Coastal Atlas - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <https://fortress.wa.gov> - Coastal Atlas Land Cover Reports - Microsoft Internet Explo...

WASHINGTON STATE Department of Ecology **Coastal Atlas**

Report on Percent Impervious Surface Forest Canopy Report

The percentage of impervious surface is a measure of the amount land covered by constructed materials. This includes roofing, metal, concrete, and asphalt. Areas covered by vegetation (either natural or cultivated) or other cover such water, bare land, or snow, were not counted as impervious surface.

Areas with greater percentages of impervious surface may include heavily built-up urban centers as well as large constructed surfaces in suburban and rural areas. Some of the structures contributing to high impervious surface values include high density residential dwellings, shopping centers, factories, industrial complexes, highways, and airport runways.

Areas with lower percentages may have fewer urban centers and large buildings and more area covered by vegetation or other cover types.

The values reported reflect an average amount of impervious surface across the area of land selected (sub basin, county or watershed (WRIA). The amount of impervious surface is reported as a percentage of the total area.

The change in the percentage of impervious surface over time indicates how much of the other land cover types were converted into impervious surface.

While this information is useful in identifying regional landscape patterns, it is not intended to be used to make specific land use decisions at a fine scale of individual parcels.

County Name	% Impervious Surface 1991	% Impervious Surface 1996	% Impervious Surface 2001	% Change in Impervious Surface 1991-1996	% Change in Impervious Surface 1996-2001	% Change in Impervious Surface 1991-2001
Grays Harbor	0.7	0.7	0.8	0.0	14.3	14.3

Technical Information:

The percent of impervious surface was based on the National Oceanic and Atmospheric Administration's Coastal

Refresh Map

Data Layers

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- A visible layer, but not at this scale.

Cursor location is appr... Done Internet Internet

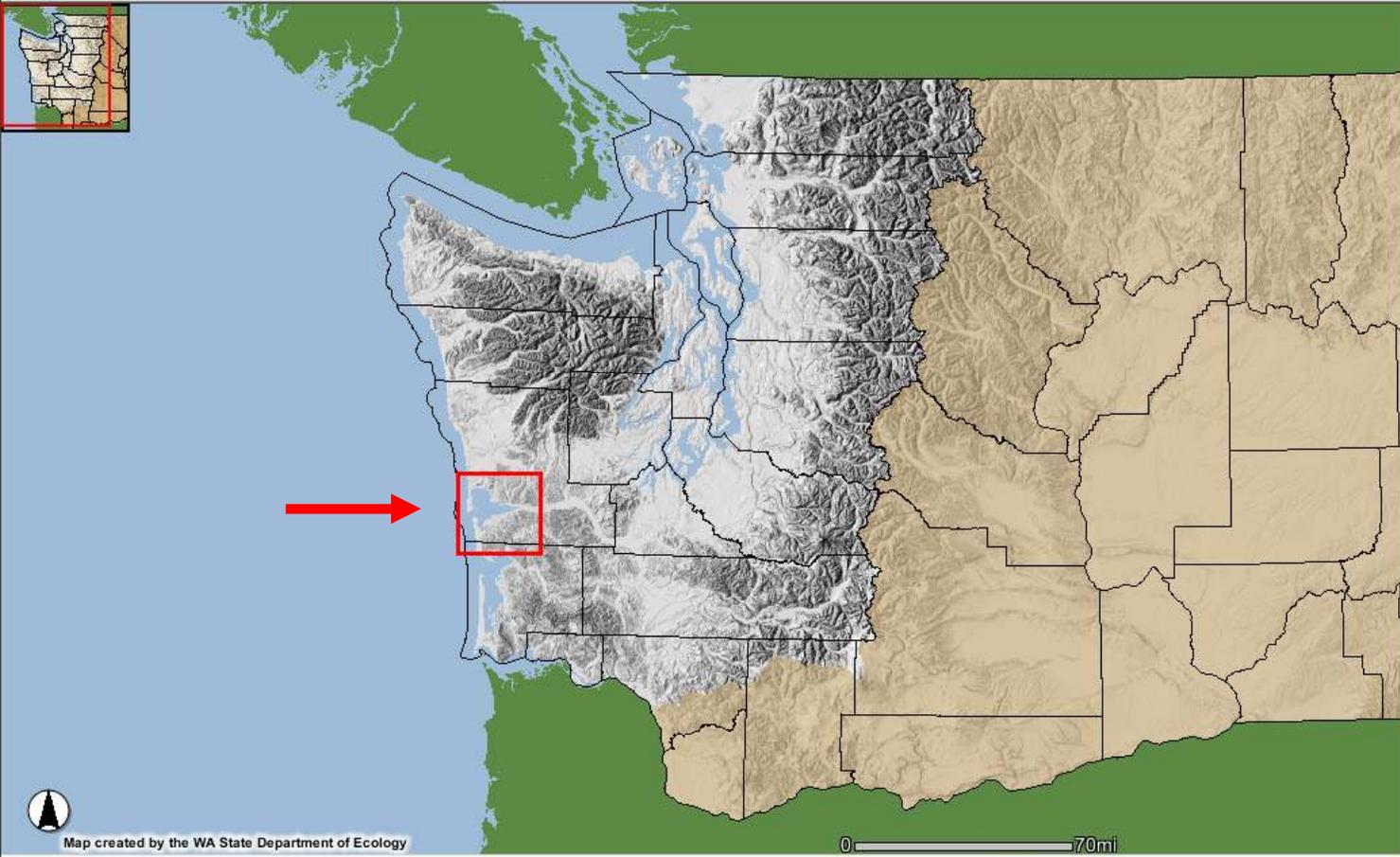


Oblique Aerial Photos of Shoreline

- Downloadable
- High Resolution
- Available for Multiple Years
- Available for all WA Marine Shorelines And Some Freshwater Shorelines in Eastern And Western Washington



Refresh Map



- Data Layers
- Biological/Habitat Features
 - Physical Features
 - Regulated Features
 - Modifications
 - Jurisdictional Delineations
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Introduction

1. Choose Data Layers to display from right hand menu and then click Refresh Map . If layer is not visible, until features are displayed.

2. Click on tools such as SELECT, LAND COVER, or VIEW PHOTO for further instructions and information in this window.



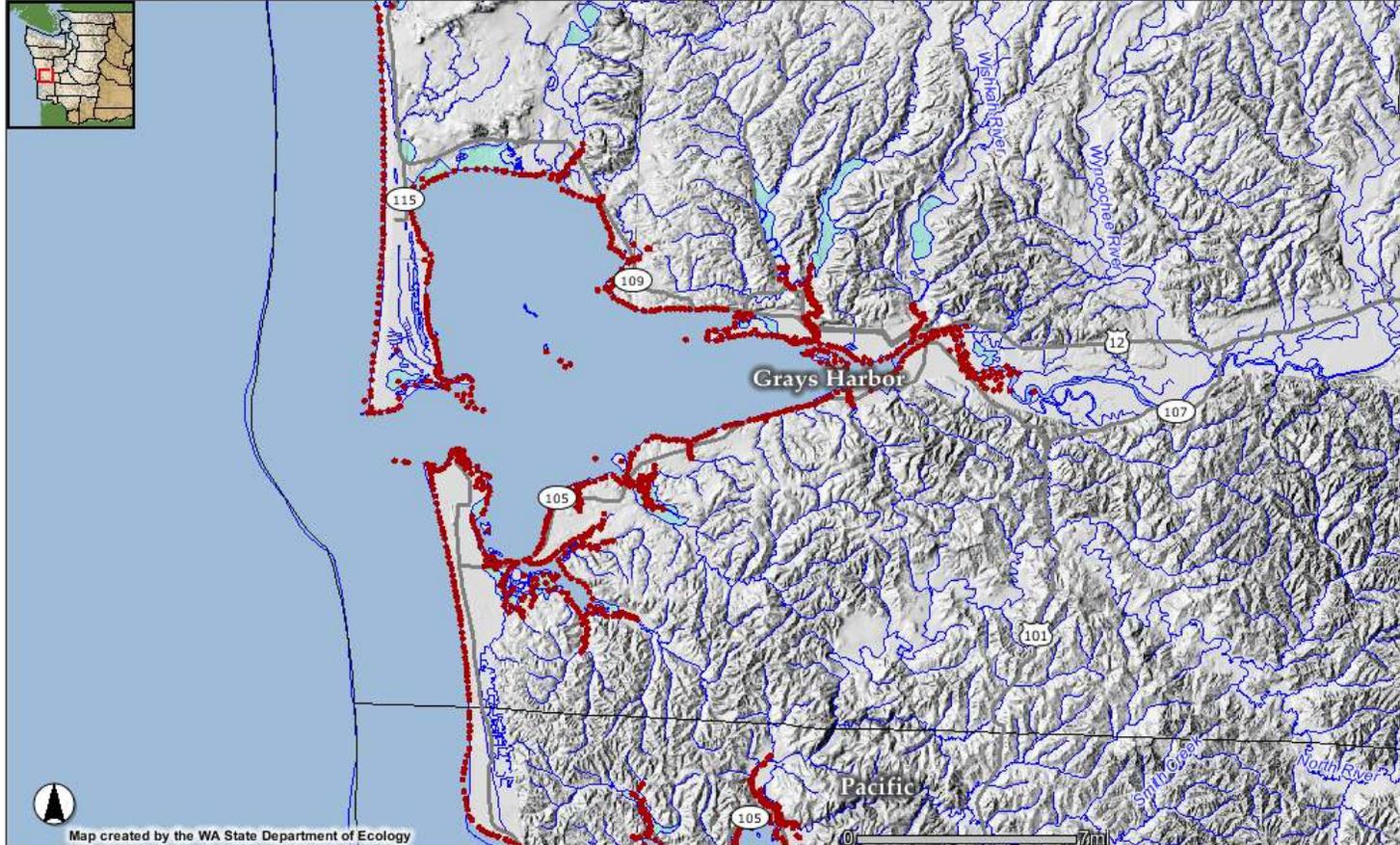
Refresh Map

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Map created by the WA State Department of Ecology

View Shoreline Photos

Choose a time period for which you would like to view photos below, then click on a point to view the oblique 1970's, 1990's or 2000's photos or within a grid cell for the vertical 1940's photos.

Vintage: Shoreline Photos 2006-07

Hide Photo Layer

Cursor location is approximately Longitude: -123.5 N, Latitude: 47.06 W

- FULL STATE
- ZOOM IN
- ZOOM OUT
- PAN
- ZOOM TO
- ZOOM LAST
- VIEW PHOTO
- SELECT
- SELECT POLYGON
- BUFFER
- CLEAR SELECT
- LAND COVER
- MEASURE
- PRINT MAP

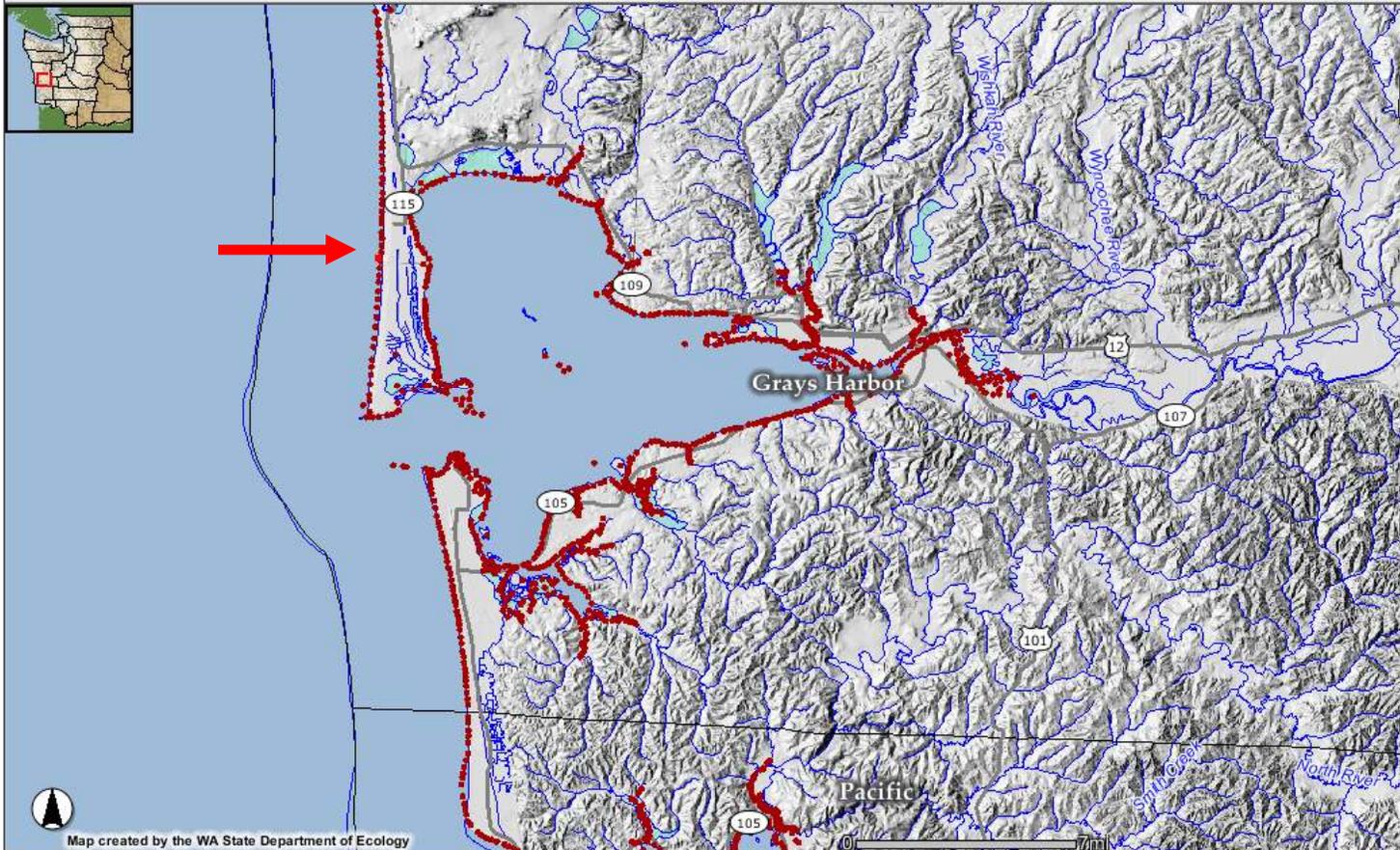
Refresh Map

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Shoreline Photos (2006) [Return to Photo Options](#)

Rec	Photo Index	Photo Date/Time
1	060819_16146	8/19/2006 3:33:52 PM
2	060819_16147	8/19/2006 3:34:00 PM
3	060819_16148	8/19/2006 3:34:08 PM

Cursor location is approximately Longitude: -123.51 N, Latitude: 46.97 W

WASHINGTON STATE Department of Ecology

FULL STATE ZOOM IN ZOOM OUT



Map created by the W...

WASHINGTON STATE Department of Ecology Coastal Atlas



Next Image

Next Image

Find on Map

Photo Reference: 060819_16146 Date: 8/19/2006 Area: Pacific Ocean

Download links for this photo:

[Low Resolution \(800 x 531 pixels, 59Kb\)](#) [High Resolution \(4288 x 2848 pixels, 2227Kb\)](#)

Approx. 8 seconds for 56kbps modem; 1 seconds for Cable/DSL *Approx. 5.3 minutes for 56kbps modem; 47 seconds for Cable/DSL*

View photos of this area in other years: [1940s](#) [1976-77](#) [1992-97](#) [2000-02](#)



Refresh Map

Data Layers

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8/19/2006 3:33 PM



grays harbor ocean shoreline2 hi res.jpg - Windows Picture and Fax Viewer



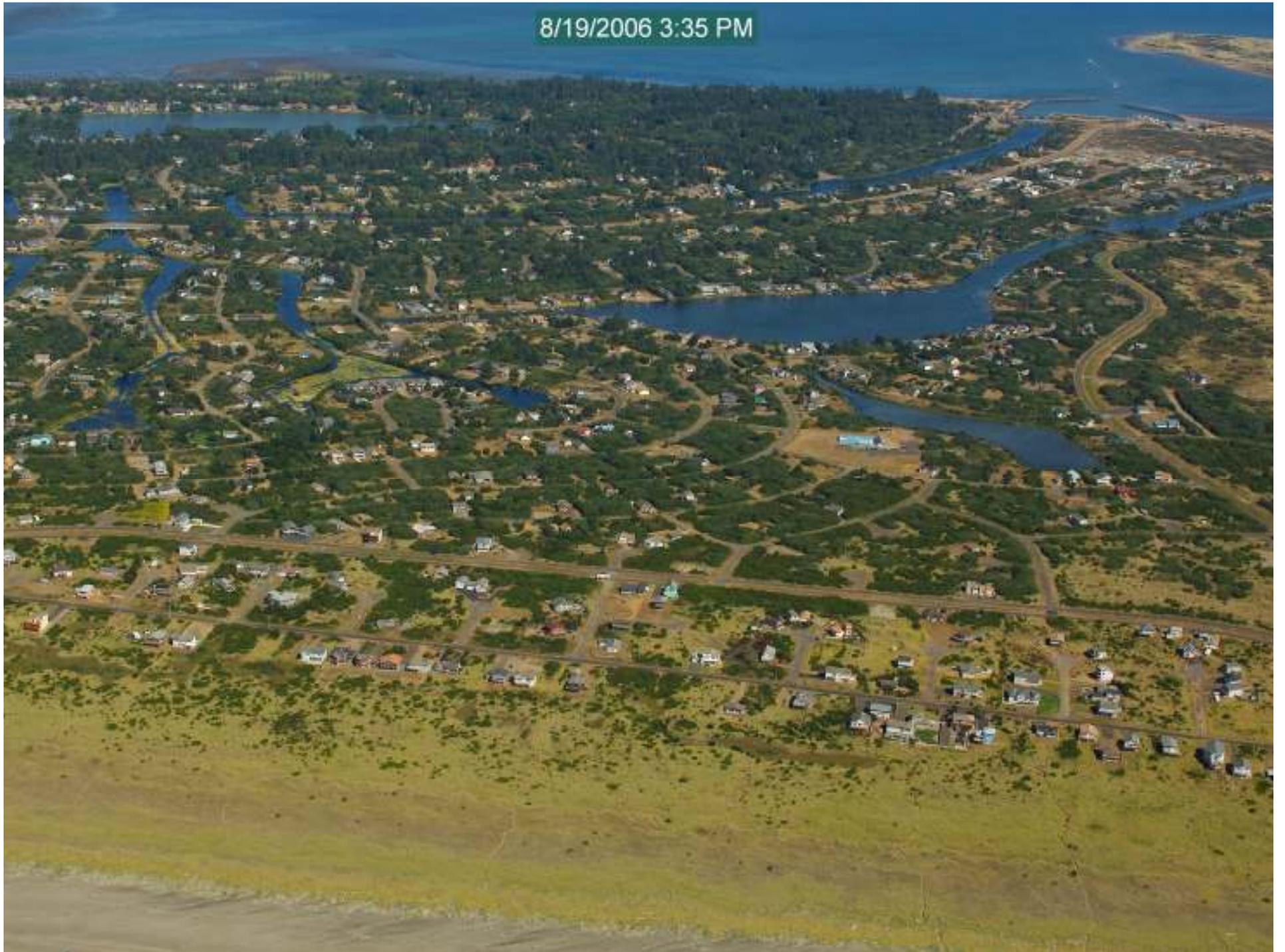
9/25/2006 11:54 AM



9/25/2006 11:07 AM



8/19/2006 3:35 PM









Start | [System Tray] | [Clock] | [Battery] | [Network] | [Volume] | [Taskbar Navigation] | [Inbox - Microsoft Outlook] | [Microsoft PowerPoint - [...]] | [10 Internet Explorer] | [060727_10050[1].jpg...]



Next ▲ Image



Next ▼ Image

Photo Reference: PIE0677_063

Date: on photo

Area: Ruston ASARCO Plant

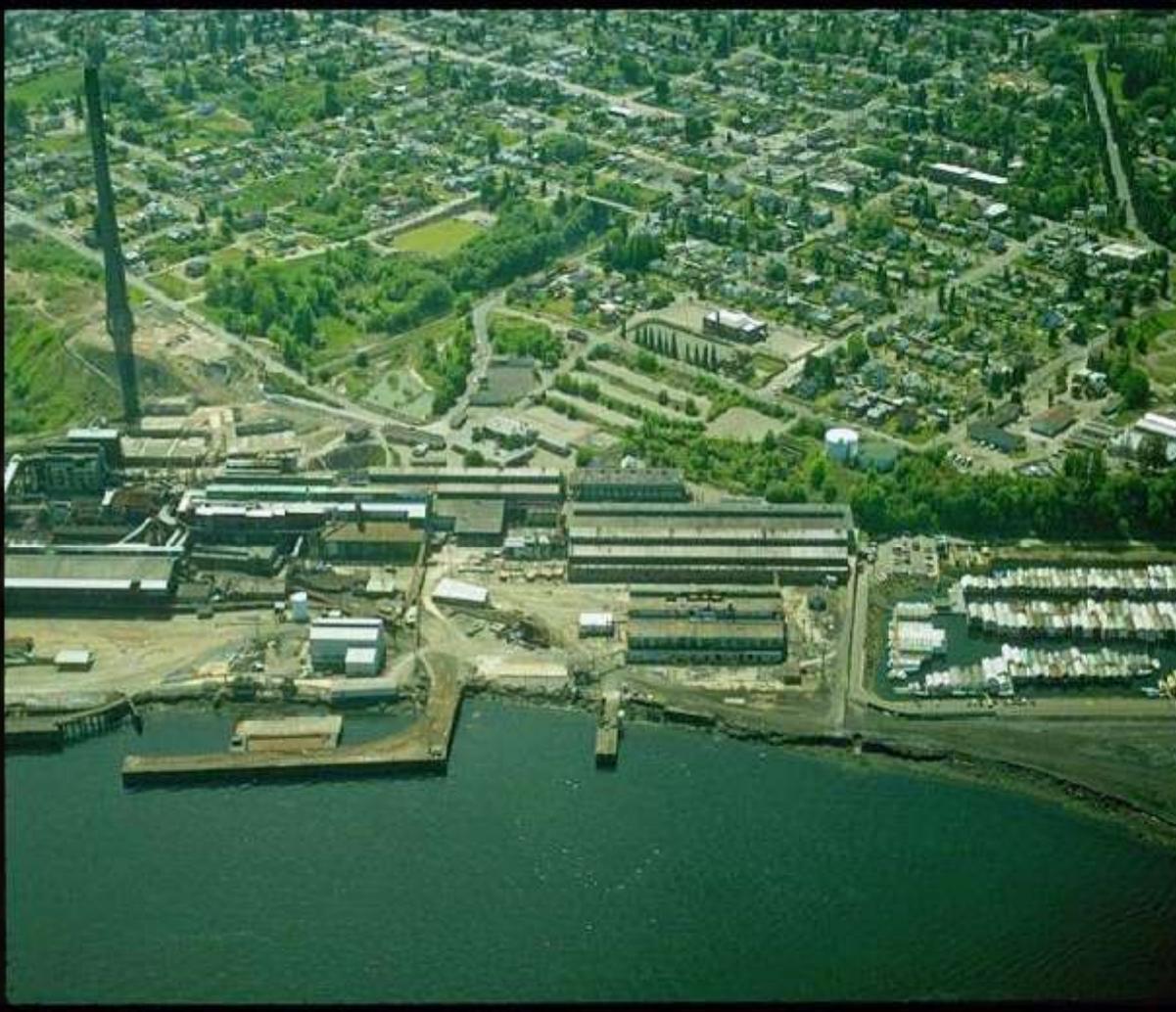
Download links for this photo:

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[High Resolution \(2092 x 2118 pixels, 1131Kb\)](#)



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Photo Reference: PIE0102

Date: 5/16/1992

Area: Asarco Smelter

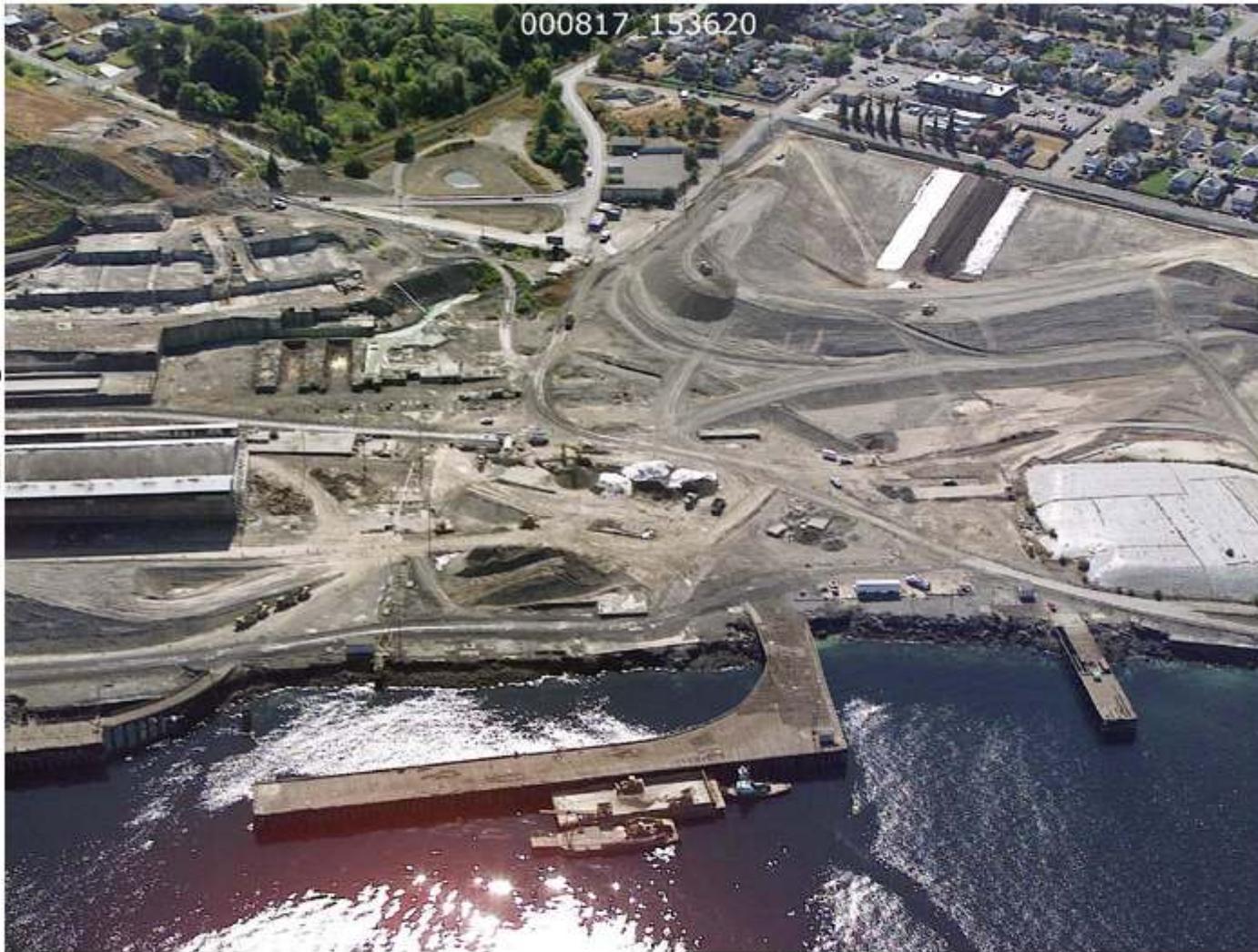
Download links for this photo:

[Low Resolution \(768 x 512 pixels, 92Kb\)](#)

*** High resolution image not available ***



000817_153620



Next  Image

Next  Image

Photo Reference: 000817_153620

Date: 8/17/2000

Download links for this photo:

[Low Resolution \(700 x 524 pixels, 185Kb\)](#)

[High Resolution \(2008 x 1504 pixels, 718Kb\)](#)



WASHINGTON STATE
Department of Ecology

Coastal Atlas



7/27/2006 1:40 PM



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Next ▼ Image

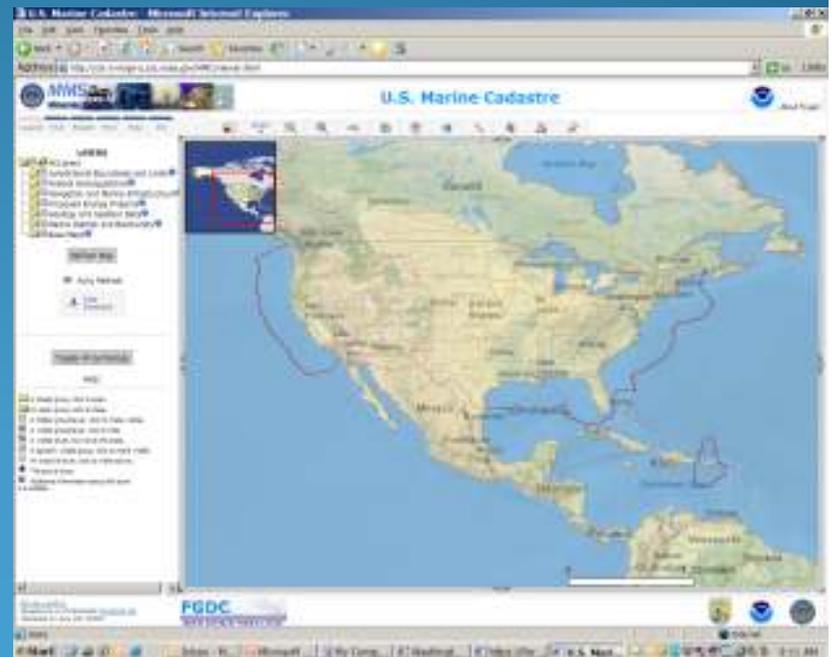
Photo Reference: 060727_10050

Date: 7/27/2006

Download links for this photo:

Further development

- In cooperation with NOAA and MMS, we are working towards display of marine data layers from the Multipurpose Marine Cadastre on the Washington Coastal Atlas



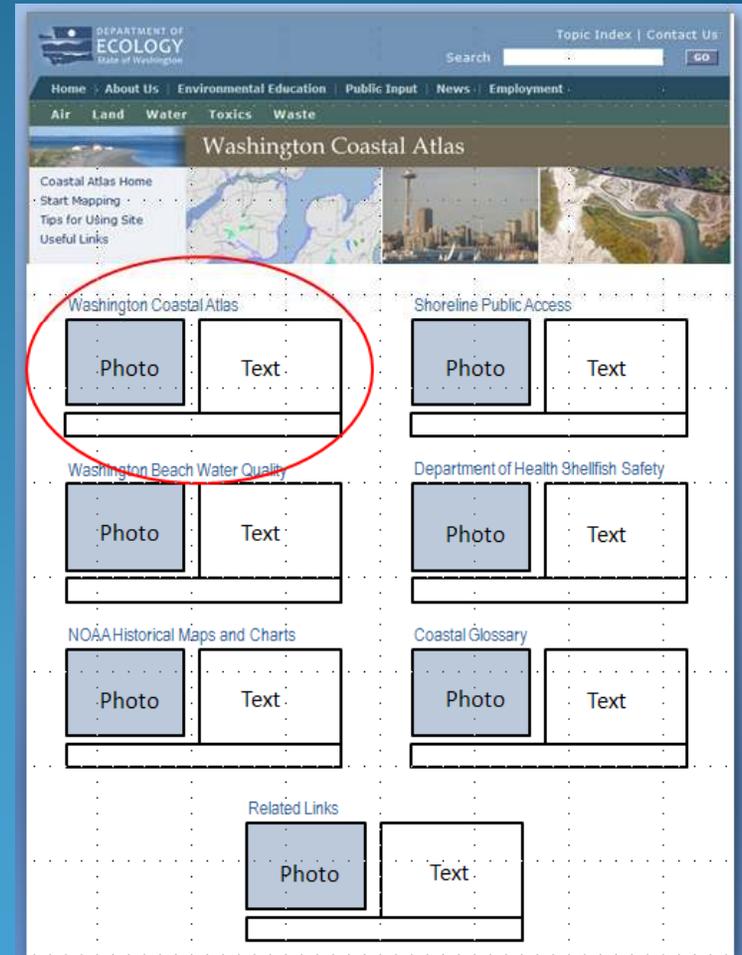
Further Development

- Adding information on public access to Washington marine shorelines (*Deborah Purce*)
- User survey



Further Development

Redesigning to make the Atlas to be more information rich and less cartographic centered
(Darby Veeck and others)



Further Development

- Increasing cooperative efforts with other state agencies



WASHINGTON DEPARTMENT OF FISH AND WILDLIFE

SalmonScape

SalmonScape, the Washington Department of Fish and Wildlife's (WDFW) new, interactive, computer mapping system, is one of the most important tools created thus far to deliver scientific information to those involved in on-the-ground salmon recovery projects.

SalmonScape delivers the science that helps recovery planners identify and prioritize the restoration and protection activities that offer the greatest benefit to fish. The site also offers a significant environmental education tool for middle school and high school students. SalmonScape merges fish and habitat data collected by state, federal, tribal and local biologists and presents it in an integrated system that can be readily accessed by other agencies and citizens. >>>
[MORE INFORMATION](#)

[Disclaimer and Copyright Information](#)

[CLICK HERE TO ENTER
SALMONSCAPE](#)

[Click here for
SALMONSCAPE - WHAT'S NEW](#)

[Click here for
SALMONSCAPE HELP](#)



SalmonScape is an interactive mapping application designed to display and report a wide range of data related to salmon distribution, status, and habitats. The data sources used by SalmonScape include stream specific fish and habitat data, and information about stock status and recovery evaluations.

Make sure to check out SalmonScape Help for FAQs and other information.

Warning:

This application is graphics intensive and contains extensive javascript. On slower dial-up internet connections, the initial screen may take several minutes to load.

Browser Requirements:

SalmonScape was developed for Internet Explorer 5.5 or newer and may not work with other browsers. The IE security setting must be set to "Medium". SalmonScape works best with screen resolutions of 1024 X 768.

Internet Explorer 7 or recent releases of other browsers may not allow SalmonScape to display map coordinates in the Status Bar. To do so, a browser option setting must be modified. See SalmonScape's FAQ for instructions on changing you Status Bar settings.

[What is GIS?](#)
[GIS at WDFW](#)

Find a bug or error in the system? [Let us know about it!](#)
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Email: webmaster@fish.wa.gov



Further Development

- Increasing communication and coordination with other coastal atlas efforts on the west coast

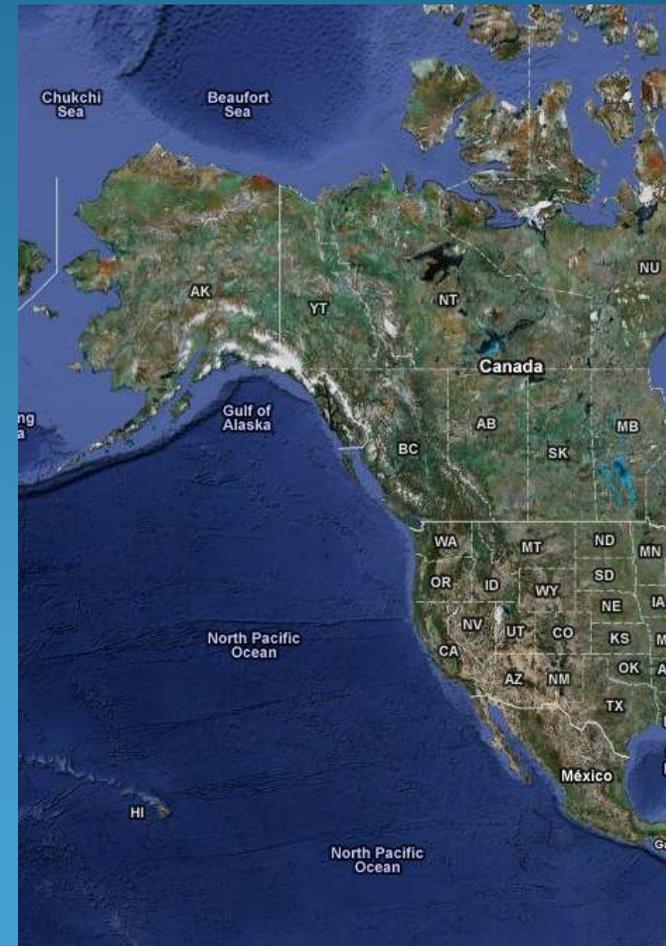


West Coast Coastal Atlas Workshop April 23-24, 2009 Seattle, WA

Further Development

- Increasing interoperability w/other atlases through the International Coastal Atlas Network (*Liz O'Dea*)

ICAN
International Coastal Atlas Network



Resources/Support for the Atlas

Managed and maintained by
Washington Dept. of Ecology

Funding sources:

- State funds

- Washington's NOAA OCRM
Coastal Zone Management
grant.

Other state agencies have
contributed data, staff time &
small amounts of funding for
specific components.



06 10:20

Questions?

Kathy.Taylor@ecy.wa.gov