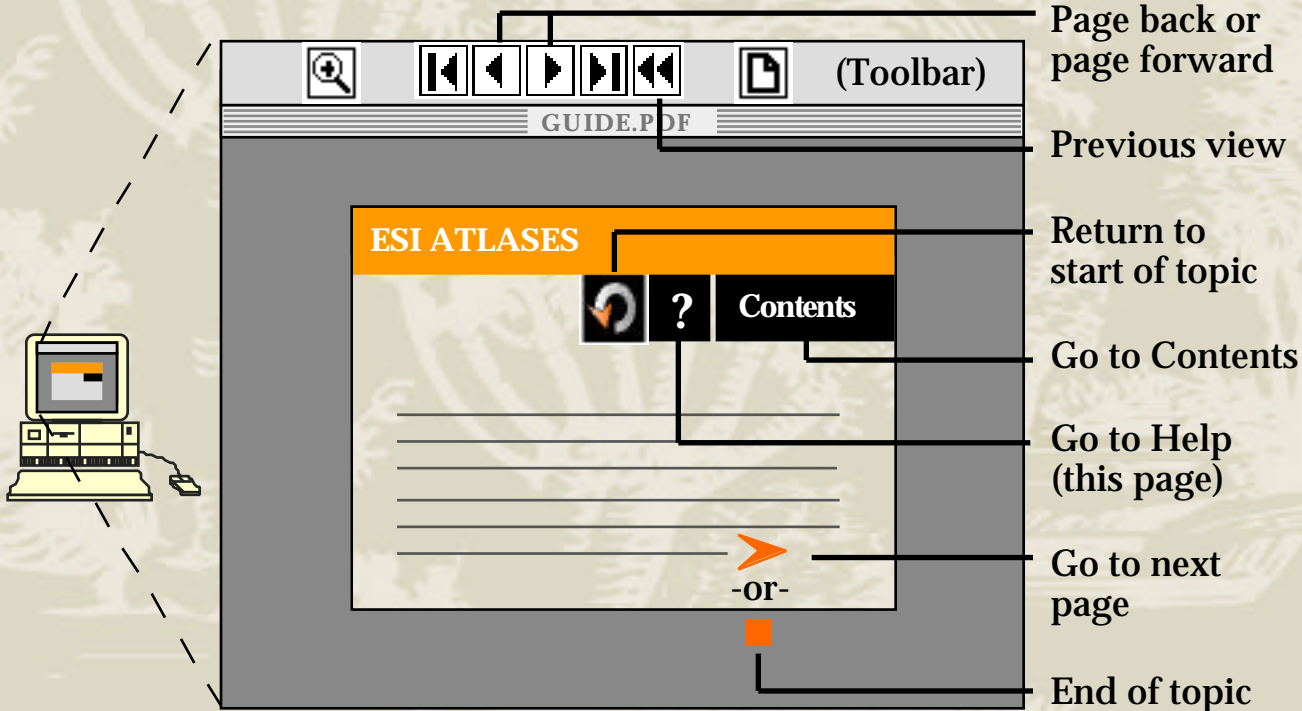# ESI ATLASES

Online Guide

➤ How to use this online guide

➤ Files included on this CD-ROM

➤ How to navigate

➤ How to print ESI maps

➤ About ESI mapping

➤ About the producers of this CD-ROM

Click ➤ to go to section

How to use this online guide

Page back or
page forward

(Toolbar)

GUIDE.PDF

Previous view

ESI ATLASES

? **Contents**

Return to
start of topic

Go to Contents

Go to Help
(this page)

>

-or-

Go to next
page

End of topic

ESI ATLASES

Files included on this CD-ROM

➤ Introduction and shoreline habitat photos

➤ Legend and how to interpret ESI maps

➤ Index map showing ESI map coverages

➤ Seasonality tables

➤ Metadata

For more information about the contents
of this CD-ROM, please continue. ➤

ESI ATLASES

Files included on this CD-ROM (cont.)

Directory named according to state (e.g., CALIF, S_CAROL).
This directory contains this Online Guide (GUIDE.PDF) and a
directory called ESI_DATA which contains the Index map, ESI
maps, Seasonality tables, associated Introduction and Legend
files, and a technical file about the actual data used in the ESI
maps.

Files included on this CD-ROM (cont.)

Within the ESI_DATA directory are the following files and sub-directories:

Introduction discussion (INTRO.PDF). This file is a text introduction to the ESI Atlas that explains the purpose and content of the atlas. It lists animal species in the area, gives contacts for human-use features such as parks and marinas, and describes the various shoreline habitats found in the area.

Legend of symbols used, and discussion on how to interpret ESI maps (LEGEND.PDF). This file tells what each color and symbol used in the ESI maps stands for and gives tips for interpreting the map information. ➤

Files included on this CD-ROM (cont.)

Index map (INDEX.PDF). This file is a map of the entire state with the ESI map coverages outlined. The coverage boxes are linked to the screen resolution ESI map pages. Just click the box to jump to the associated ESI map.

Seasonality tables (SEASON.PDF). This file lists the seasonal species data associated with each ESI map. The table shows each species present in the area, whether they are on any State or Federal threatened or endangered species lists and the level of concern, which months the species is present, and the times of various life stages such as nesting or spawning.

The map titles at the top of the page are linked back to the actual ESI map, so to view the ESI map associated with the table, click the title. ➤

ESI ATLASES

Files included on this CD-ROM (cont.)

? **Contents**

High-resolution ESI maps (HIRES). This directory contains 300-dpi ESI maps. These maps are accessed through the Index map and are associated with the Seasonality tables.

The titles of these maps are linked to the Seasonality tables, so to see the seasonality data for a map, click on the map title. ➤

Files included on this CD-ROM (cont.)

Document on how the data was compiled and digitized (METADATA.PDF). This file provides the technical documentation about the data shown on the ESI maps. It details the quality standards for the data, discusses how the spatial data was organized and referenced, and gives complete information about the entities and attributes portrayed on the maps. ■

ESI ATLASES

How to navigate

Viewing the Index map. Click on the "Index map" text on the "Files Included on this CD-ROM" section of this guide. From there, you can link to the individual ESI maps by clicking in the coverage boxes.

Returning to the Index map. Click ⏮ from the toolbar to return to the Index map from an ESI map. (NOTE: This button returns to the previous **view**, so if you zoomed into the ESI map, the button will return to the unzoomed view. Click the button again to return to the Index map.)

Viewing the Seasonality data. Click the title of the ESI map.

Returning to the ESI map. Click the map name at the top of the Seasonality table. ➤
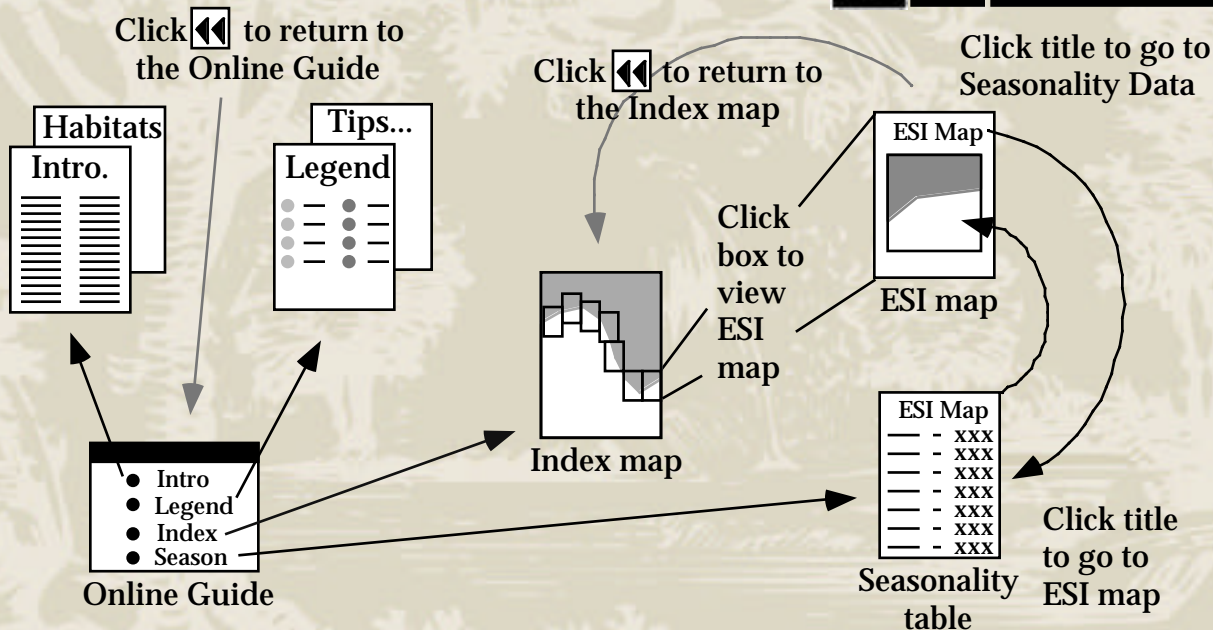
ESI ATLASES

How to navigate (cont.)

Click ◀◀ to return to the Online Guide

Click ◀◀ to return to the Index map

Click title to go to Seasonality Data

Habitats
Intro.

Tips...
Legend

ESI Map

Click box to view ESI map

ESI map

Index map

Online Guide
● Intro
● Legend
● Index
● Season

ESI Map
— - xxx
— - xxx
— - xxx
— - xxx
— - xxx
— - xxx
— - xxx
— - xxx

Seasonality table

Click title to go to ESI map

For an alternate method of navigation where it is possible to keep multiple files open and to toggle between files using the Window menu, please continue. ➤

ESI ATLASES

Alternate navigation

Instead of using the ⏪ button, there is an alternate way to navigate among all of the documents on this CD-ROM, but it requires you to change a preference in the Reader 3.0 application. Once this preference is set, multiple files can stay open at the same time. To toggle back and forth, you simply have to select the file you are interested in from the Window menu.

To change the preference:
- Go to the File menu and select Preferences
- Choose General
- In the dialogue box that opens up, **UN**CHECK the "Open Cross Document Links in Same Window" option.
- Select OK.

Once set, the preference will remain, so you will not have to open the dialogue again the next time you use this CD-ROM. ➤

Alternate navigation (cont.)

Viewing the Index map. Click on the "Index map" text on the "Files Included on this CD-ROM" section of this guide. From there, you can link to the individual ESI maps by clicking in the coverage boxes.

Returning to the Index map. Choose "INDEX.PDF" from the Window menu.

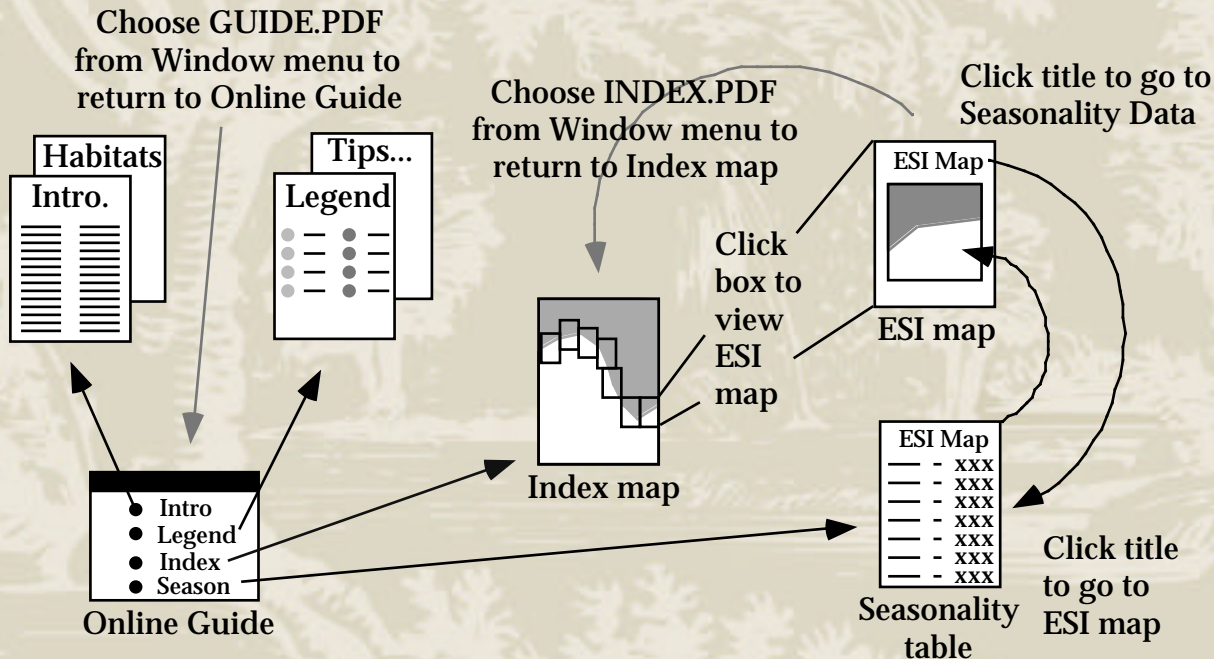**Viewing the Seasonality data.** Click the title of the ESI map.

Returning to the ESI map. Click the map name at the top of the Seasonality table. ➤

Choose GUIDE.PDF from Window menu to return to Online Guide

Choose INDEX.PDF from Window menu to return to Index map

Click title to go to Seasonality Data

Habitats

Intro.

Tips...

Legend

ESI Map

Click box to view ESI map

ESI map

Index map

Online Guide
- Intro
- Legend
- Index
- Season

ESI Map
— - xxx
— - xxx
— - xxx
— - xxx
— - xxx
— - xxx
— - xxx

Seasonality table

Click title to go to ESI map

ESI ATLASES

How to print ESI maps

To print a page from this CD-ROM, open the file you wish to print and select "Print" from the File menu.
These files can be printed on any Postscript® compatible printer.
The maps are in 11"x17" format, so you will need to adjust the map size accordingly to fit your printer output. Select "Shrink to fit" or "Fit to page" from your Page Setup menu to automatically scale the map to paper sizes other than 11"x17". ➤

How to print ESI maps (cont.)

The procedure for having the maps printed at a commercial printshop will vary depending on where you go. The computer that you use will need Acrobat Reader 3.0 (or later). The computer must have the 3.0 version (or later) because using an older version will cause irregularities in viewing and printing.

In order to give you a general idea of what might be involved, here are the printing costs from a local printshop: We used a computer for 10 minutes, which cost $4.00. There was a one-time $10.00 charge for the use of another computer that was used to set up the print files for the color copier (which was the only machine with 11"x17" color printing capability). Then, each color copy cost $1.99, but this charge decreases with volume. So to print two pages was about $19.50 (incl. tax), or about $9.75 per page. To print 50 pages would have been about $125.00 (incl. tax), or about $2.50 per page. ■

About ESI mapping

The most widely used approach to sensitive environment mapping in the United States is NOAA's Environmental Sensitivity Index (ESI) approach. This approach systematically compiles information in standard formats for coastal shoreline sensitivity, biological resources, and human-use resources. The ESIs are an important tool in emergency spill response, where their use helps to reduce the environmental consequences of the spill and cleanup efforts. ➤

About ESI mapping (cont.)

The primary objective of spill response in the United States, after protecting human life, is to reduce the environmental consequences of the spill and cleanup efforts. This objective is best achieved when ESI maps are used to identify the locations of sensitive resources before a spill occurs, so that protection priorities can be established and cleanup strategies developed in advance. Since their inception in 1979, ESI atlases have been prepared for most of the U.S. shoreline, including the Great Lakes, Alaska, Hawaii, and the Trust Territories.

To be effective, sensitive environment mapping must be an integral component of overall spill planning activities. Sensitivity maps are not an end in themselves, rather they are a starting point for prevention, planning, and response actions. The definitions in the NOAA sensitivity maps provide guidance that local organizations use to develop plans. Recently published manuals, including the *Mechanical Protection Guidelines* and the *Shoreline Countermeasures* series for temperate, tropical, Arctic, and freshwater environments are examples where the ESI definitions are the basis for site-specific planning. ➤

About ESI mapping (cont.)

There are three general types of information found in ESI maps: habitats ranked according to geomorphological characteristics, sensitivity to spilled oil, natural persistence of oil, and ease of cleanup; biological resources including oil-sensitive animals and plants, with information at the species level; and human-use resources, such as high-use amenity beaches, parks, and marine sanctuaries. The intertidal habitat ranking scheme is based on an understanding of the complete coastal environment, not just the substrate type and grain size. Key to the rankings is an understanding of the relationships between physical processes and substrates that produce specific geomorphic shoreline types and predictable patterns in oil behavior and sediment transport patterns. The habitat ranking system has been widely incorporated into spill decision-making aids including manuals, matrices, and planning documents. ➤

About ESI mapping (cont.)

Recent work has focused on extending the original methodology for open coastal areas to inland rivers, and smaller ponds and streams. The strategy emphasizes standard map formats for electronic and hard-copy output. NOAA is undertaking a comprehensive program to provide electronic access to new ESI data and to existing data formerly available only as hard-copy maps. Our strategy is to make digital ESI data available on CD-ROM and via the Internet. Selected ESI atlases will be available in Portable Document Format for viewing and printing and in formats appropriate for use with Geographic Information System software.

About ESI mapping (cont.)

For more information about ESI maps, contact the Hazardous Materials Response and Assessment Division at:

NOAA / HAZMAT
7600 Sand Point Way N.E.
Seattle, WA 98115

E-mail: library@hazmat.noaa.gov

Or, visit the ESI Home Page at:
http://response.restoration.noaa.gov/esi/esiintro.html

?

About the producers

NOAA - Hazardous Materials Response & Assessment Division

?

Click on the name of a producer to get additional information from their website.

?