MANUAL FOR USING THE
CALIFORNIA PINNIPED
ROOKERIES AND HAUL-OUT SITES
GIS MAP
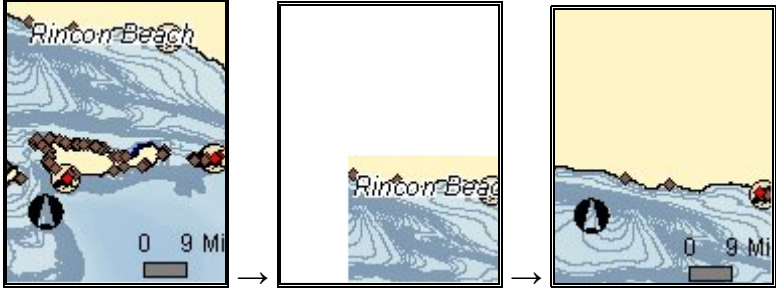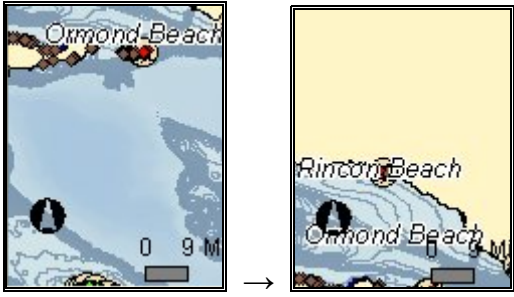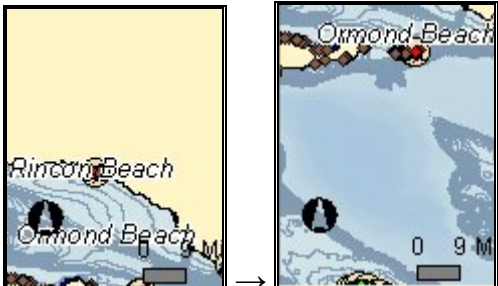
USER GUIDE TO THE TOOL BAR
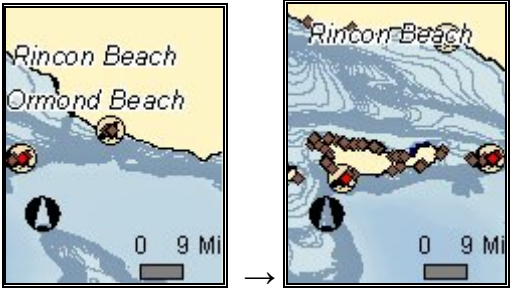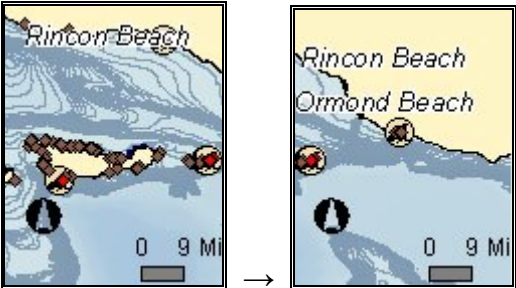
Toggle Between Legend and LayerList	📋 🟥	Toggle Overview Map
Zoom In	🔍 🔍	Zoom Out
Zoom to Full Extent	🗺 🗺	Zoom to Active Layer
Back to Last Extent	⬅ ✋	Pan
Pan to North	⬆ ⬇	Pan to South
Pan to West	⬅ ➡	Pan to East
Identify	ℹ ❓	Query
Find	🔭 📏	Measure
Set Units	▦ ╪	Buffer
Select by Rectangle	⬚ 🔍	Select by Line/Polygon
Clear Selection	⧄ 🖨	Print

SYMBOL	TOOL	DESCRIPTION
📋	Toggle Between Legend and LayerList	This tool allows you to switch from viewing the legend or the layer list. This will be located on the right side of the page and can be viewed at any given time by clicking on the Toggle symbol 📋 . **Legend** **Pinnipeds** Com_Name ◆ California sea lion ◆ Guadalupe fur seal ◆ Harbor seal ◆ Northern elephant se ◆ Northern fur seal ◆ Steller sea lion 🌀 Rookeries **Layers** Visible Active ☑ ⦿ Pinnipeds ☑ ○ Rookeries [Refresh Map]
🟥	Toggle Overview	This tool allows you to display or not to display the overview

	Map	map seen in the top-left corner surrounded by a black border. The overview map marks a red square around the area that is viewed on the full screen.
	Zoom In	This tool allows you to zoom in by either a) a preset amount: click on the area you want to zoom in to, or b) to a user-specified amount: create a box around the area you want to zoom in with your cursor (use the left button on your mouse and hold the button down while dragging the box around the area you want to zoom in to). If drawing a box around the desired area, the next image will be of the area within the box. User-specified zoom in box. Zoomed in area.
	Zoom Out	This tool allows you to zoom out by either a) a preset amount: click the area you want to zoom out on, or b) a user-specified amount: create a box around the area you want to zoom out on with your cursor (use the left button on your mouse and hold the button down while dragging the curser to create the "zoom out" box). The smaller the box, the more you will zoom out. User-specified zoom out box. Zoomed out area.

	Zoom to Full Extent	This tool zooms to a view of the of the full extent of the most broad layer, regardless of where you started, which may or may not be the original view. Below are the before and after pictures. Before using full extent view tool. The full extent view.
	Zoom to Active Layer	This tool zooms to a full map of the active layer (the layer that is selected in the layer list: Pinnipeds or Rookeries). For example, if Pinnipeds is selected as the active layer, then the map will show all area between the northern-most pinniped data point and southern-most data point. Before using zoom to active layer tool. Active layer view (Pinnipeds in this example).
	Back to Last Extent	This tool returns you to the previous view of the map (like using the "Back" button of your internet browser). The three figures below show the steps of moving from the starting view (first picture on the left) to a second view (the middle picture) and returning to the previous view after clicking on the "Back to Last Extent" button. The starting view. View after moving screen to the east. View after using "back to last extent"

		Tool (same as the starting view).
	Pan	This tool moves the map on your screen so you can view the desired location. Hold the left button on your mouse down and drag the map. The far left image is the starting view, the middle image is the view after dragging the map down and left (before the screen refreshes), and the far right image shows the refreshed map - after the move with the new view. Start view. → View after dragging the map down (before refreshing). → Final view after map refreshes.
	Pan to North	This tool moves the map one page (entire map view) to the north by clicking on the tool symbol. Start view. → View after panning north.
	Pan to South	This tool moves the map one page (entire map view) to the south.

		Start view.	View after panning south.
⬅️	Pan to West	This tool moves the map one page (entire map view) to the west. Start view. → View after panning west.	
➡️	Pan to East	This tool moves the map one page (entire map view) to the east. Start view. → View after panning east.	
ⓘ	Identify	This tool allows you to view data, attributes, associated with the point of interest in the active layer. First, select the active layer: Rookeries or Pinnipeds; then select the identify tool and select a point (using the left button on the mouse). The attributes of the selected feature will appear in a table at the bottom of the browser.	

Rec	Species Common Name	Species Scientific Name	Month
1	Northern elephant seal	Mirounga angustirostris	2
2	California sea lion	Zalophus californianus	7

If you are having trouble selecting a point to identify and receiving the message "No features found", try zooming in to the desired point and clicking directly on the center of the point.

| | Query | This tool allows you to select an attribute (data, or value, within a field) and return all the records that have that attribute. For example, if you would like to search for "California sea lions" (the attribute is California sea lion and the field is Species Common Name), click on the query tool and at the bottom of the screen the query builder will pop up (see figure below). From the field drop down menu under "Field," select the field you want to query (*e.g.,* Species Common Name, Species Scientific Name, County, Month). Next, from the drop down menu under "Operator" select the desired operator (=, not, etc.). From the drop down menu under "Value," select the value (*e.g.,* "California sea lion" for the field "Species Common Name" or "Del Norte" for the field "County"). Hit the "Add to Query String" button when you have the desired field, operator and value. Finally, hit the "Execute" button. The desired features will be highlighted in the map and the map will zoom to a proper scale to view all of the selected features. In addition, the records of the selected features will appear in a |

		table at the bottom of the page (see figure below).
		By clicking on the record (field titled "Rec") number, the map image will adjust to direct you to the point on the map.
	Find	This tool allows you to search a key word (string) and returns records with the word(s) in any of the fields within the active layer. For example, if Pinnipeds is the active layer, a search for "Los Angeles" will return all records within Los Angeles county and any which contain "Los Angeles" in the comments. If the string that is entered does not exist in any records within the active layer, "No features found" will appear on your screen. The search is case-sensitive, so be sure to enter all proper nouns correctly by capitalizing the first letters.
	Measure	This tool allows you to measure the distance between two or more points. Select the tool, click on the starting point on the map and a red dot will appear on the area. After the map refreshes, select the second point and the map will show a line between the two red dots once the map refreshes again. You can select more than two points which will also be connected by lines. At the top of the page two measurements are shown: Total and Segment. The Total is the sum of all segments (distance from point 1 to point 2, plus the distance from point 2 to point 3, etc…). The segment distance is the distance from the last point added. To change the distance units, use the "Set Units" tool.

		Total: 6.42 MILES Segment: 0.21 MILES *San Gregorio State Beach* *Pomponio State Beach* *Pescadero State Beach*
	Set Units	This tool is used to set the distance units (*e.g.,* meters, miles, kilometers, etc.) displayed in the scale and when using the "Measure" tool. Use the "Display Units" dropdown menu to choose the desired units and hit "Set Units" to display distances in those units. 0 160 Miles **Set Units** Display Units MILES Set Units Cancel
	Buffer	This tool allows you to set up a zone of a specified radius around the desired feature (the feature and layer in which the buffer is created must be different). For example, if you would like to select all pinniped points within 5 miles of a rookery, first select the rookery using either the "Select by Rectangle" or "Select by Line/Polygon" tool (or use a previously selected point after having used the "Query" and "Find" tools). Next, click on the "Buffer" symbol on the tool bar and from the "Highlight features from" drop down menu, select Pinnipeds. Then, enter a distance (5 miles in this example). If you would like to display attributes (*i.e.,* the pinniped data) below the map, check the box next to "Display Attributes." Finally, hit the "Create Buffer" button.
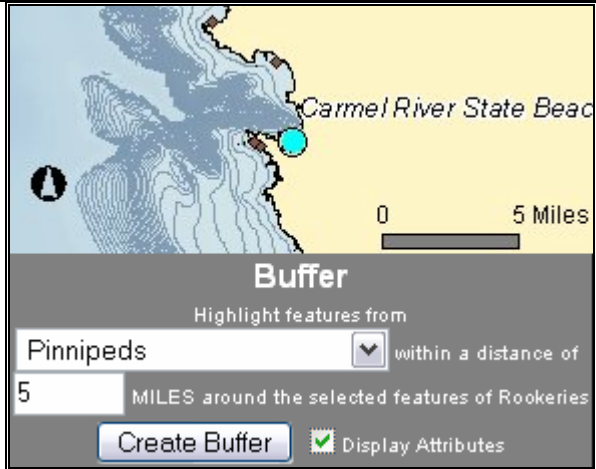
The map view before hitting the "Create Buffer" button.
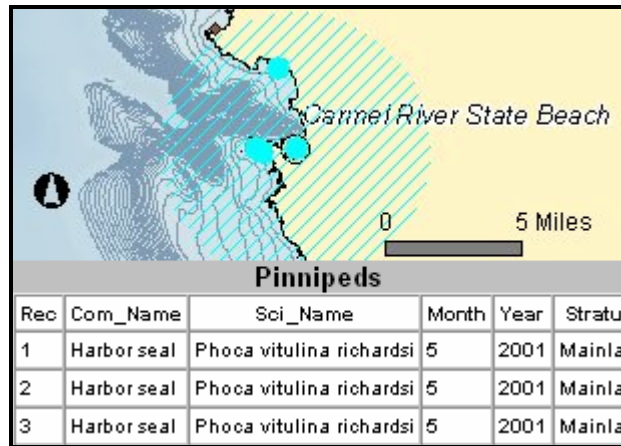
The map view after creating the buffer; the map displays the 5 mile buffer, the selected pinniped features, and the attribute data.

	Select by Rectangle

This tool allows you to select an area of the map or a feature on the map, within the active layer. Use the mouse to draw a rectangle around the desired area.

 →
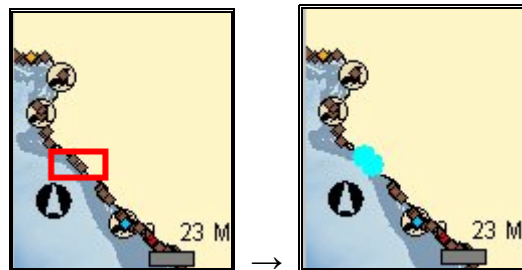
The box that is drawn.   The selected features within the box

The highlighted features are selected and their attribute data is displayed in a table at the bottom of the page.

<div align="center">

Rec	Species Common Name	Species Scientific Name	Month	Year	Stra
1	Harbor seal	Phoca vitulina richardsi	5	2001	Mai
2	Harbor seal	Phoca vitulina richardsi	5	2001	Mai

Attributes of the selected points (seen in bright blue above).

By clicking on the record (field titled "Rec") number, the map image will adjust to direct you to the point on the map.
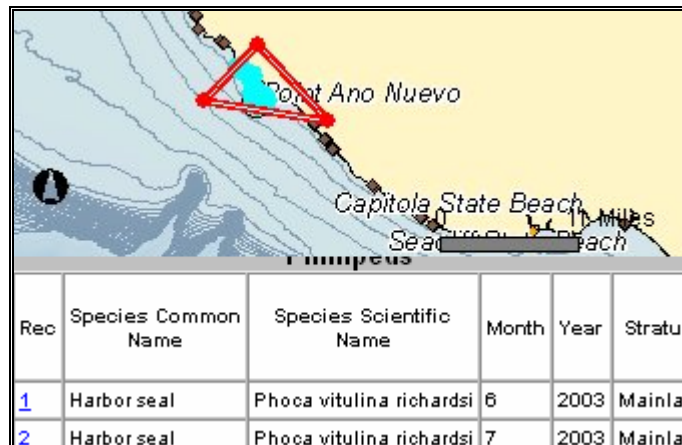
</div>

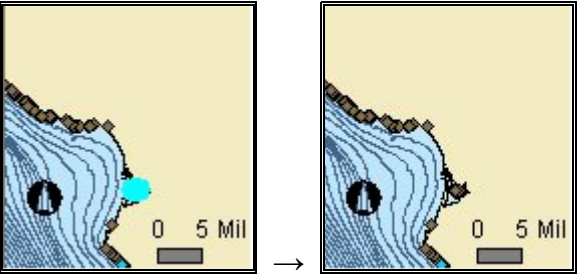|	Select by Line/Polygon	This tool allows you to select an area of the map or a feature on the map, within the active layer. Use the mouse to draw a line through or create a polygon around the desired area: click on the starting point with the left mouse button, then click another point and a line will be drawn between the two points.

<div align="center">
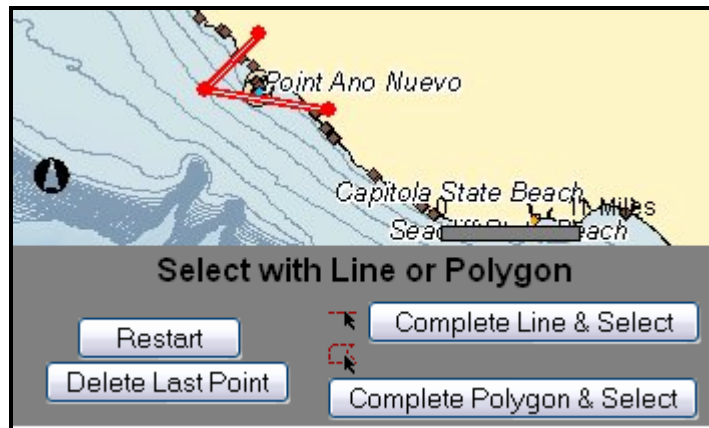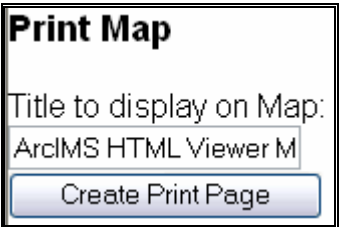
The map view after creating connecting lines that intersect data points.

Then hit the "Complete Line & Select" button to return the attributes of pinniped points that the line intersects, or hit "Complete Polygon & Select" to connect all point and return data of points within the polygon as well as points that the lines intersect.

</div>

Rec	Species Common Name	Species Scientific Name	Month	Year	Stratu
1	Harbor seal	Phoca vitulina richardsi	6	2003	Mainla
2	Harbor seal	Phoca vitulina richardsi	7	2003	Mainla

<div align="center">

The map view after hitting "Complete Polygon & Select"

</div>

		By clicking on the record (field titled "Rec") number, the map image will adjust to direct you to the point on the map. If you are having difficulties with the "Complete Line and Select" function and receive the message "No features found," try to select two points and as a third point select the first of the two original points. Next, hit the "Complete Polygon and Select" button. Ultimately, you will be creating a "line" using three points points.
	Clear Selection	This tool allows you to clear any selections made using the Identify, Find, Query, Select by Rectangle, or Select by Line/Polygon tools. → View with data points selected. View with after selections were cleared.
	Print	This tool sets up a layout of the map to print. Select the tool and the following will show up on the bottom of the page: A title is automatically inserted. However, you can change this title by clicking the cursor in the title box, deleting, and entering your desired text. Next, hit the "Create Print Page" button. The printable map is a pop-up. Your browser may block pop-ups. If so, hold the "Ctrl" key down when clicking on "Create Print Page" and press on it until the message "Retrieving map" disappears. The new page displayed will show the map, overview map and legend.