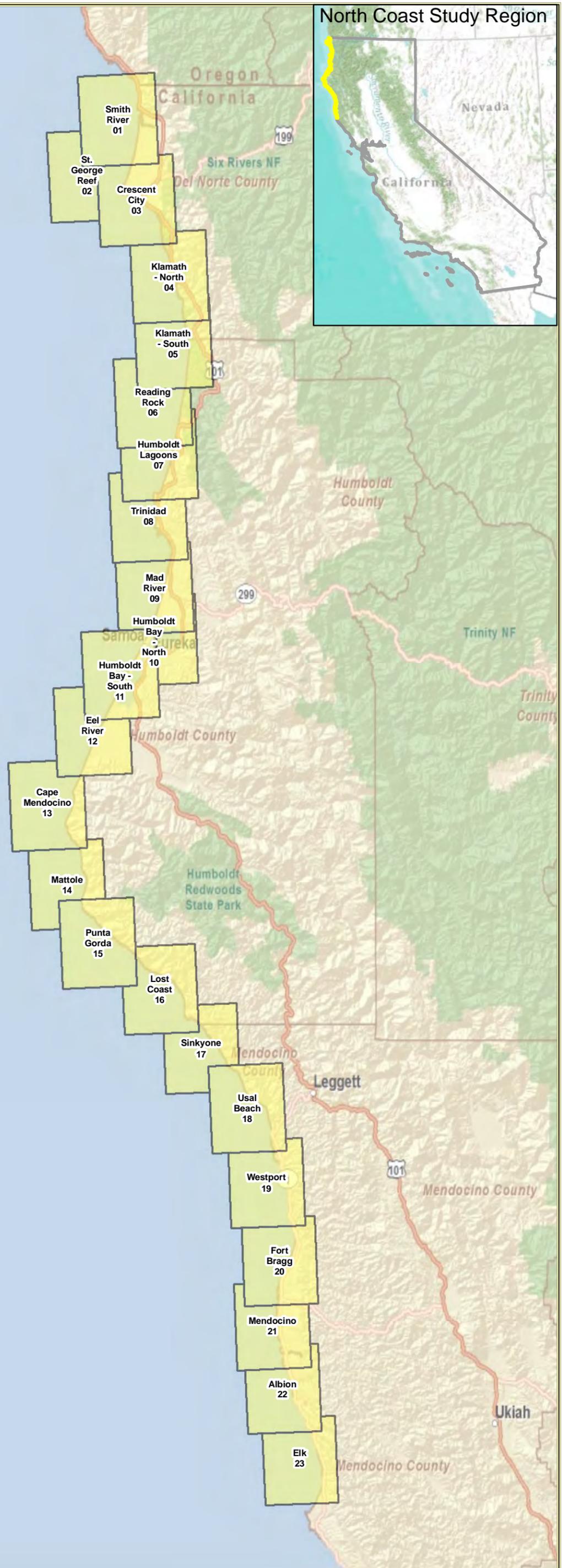


# Habitat & Species Atlas

## Marine Life Protection Act Initiative

The North Coast Study Region (California/Oregon border to Alder Creek near Point Arena in Mendocino County) is the fourth Marine Life Protection Act (MLPA) study region to undergo the regional marine protected area (MPA) planning and re-design process.

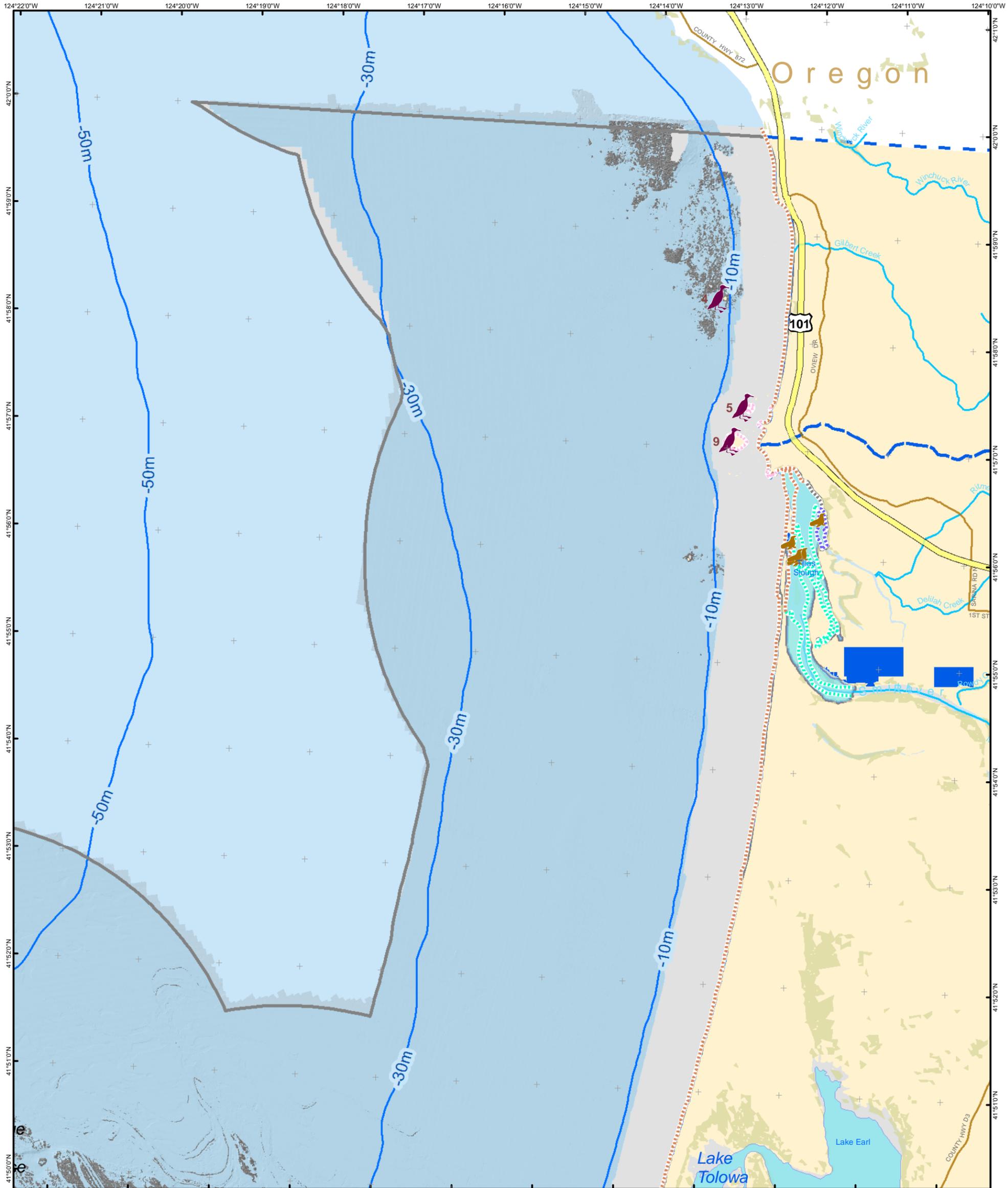
Page Number	Sheet Name
1	Smith River
2	St. George Reef
3	Crescent City
4	Klamath - North
5	Klamath - South
6	Reading Rock
7	Humboldt Lagoons
8	Trinidad
9	Mad River
10	Humboldt Bay - North
11	Humboldt Bay - South
12	Eel River
13	Cape Mendocino
14	Mattole
15	Punta Gorda
16	Lost Coast
17	Sinkyone
18	Usal Beach
19	Westport
20	Fort Bragg
21	Mendocino
22	Albion
23	Elk



**Disclaimer**  
The data available on these maps or map series have been tested for accuracy, and every effort has been taken to ensure that these data are timely, accurate and reliable. However no guarantee or warranty to their accuracy as to labeling, dimensions, or placement, or location of any features contained herein. ALL DATA ARE EXPRESSLY PROVIDED AS IS AND WITH ALL FAULTS. These maps are intended for informational purposes only and should not be considered authoritative for biological, navigational, legal and other site-specific uses.

**Data Sources**  
Data represented on this map have been acquired from various data sources, for full descriptions of data source and additional notes for individual layers refer to the "Appendix A - Metadata"

**Frequency of update**  
Data layers included in these maps are considered final at time of mapping. Every effort will be made to include revisions to data in successive versions of these maps. For most up to date layers please visit <http://northcoast.marinemap.org/marinemap/>



Study Region Boundary	Seabird Colonies (Number of Species)	Kelp Beds	Impaired Waterbodies
<b>Landmarks</b>	Shipwrecks	Eelgrass	Impaired Rivers
Airport	<b>Pinnipeds Haulouts</b>	Coastal Salt Marsh	Submarine Canyons
Beach / Coastal Access	California sea lion	Estuaries	<b>Predicted substrate (Fine Scale)</b>
Lighthouse	Harbor seal	Rivers	Unknown
Major City	Steller sea lion	<b>Shore Types</b>	Hard
Town	Pinniped Rookeries	Beaches	Soft
Coastal Point	<b>Roads</b>	Coastal Marsh	
Educational Institutions	Major Roads	Hardened Shores	
Monitoring Sites	State Highways	Rocky Shores	
	US Highways	Tidal Flats	
		Watersheds	

California Locality

Sheet Index

N

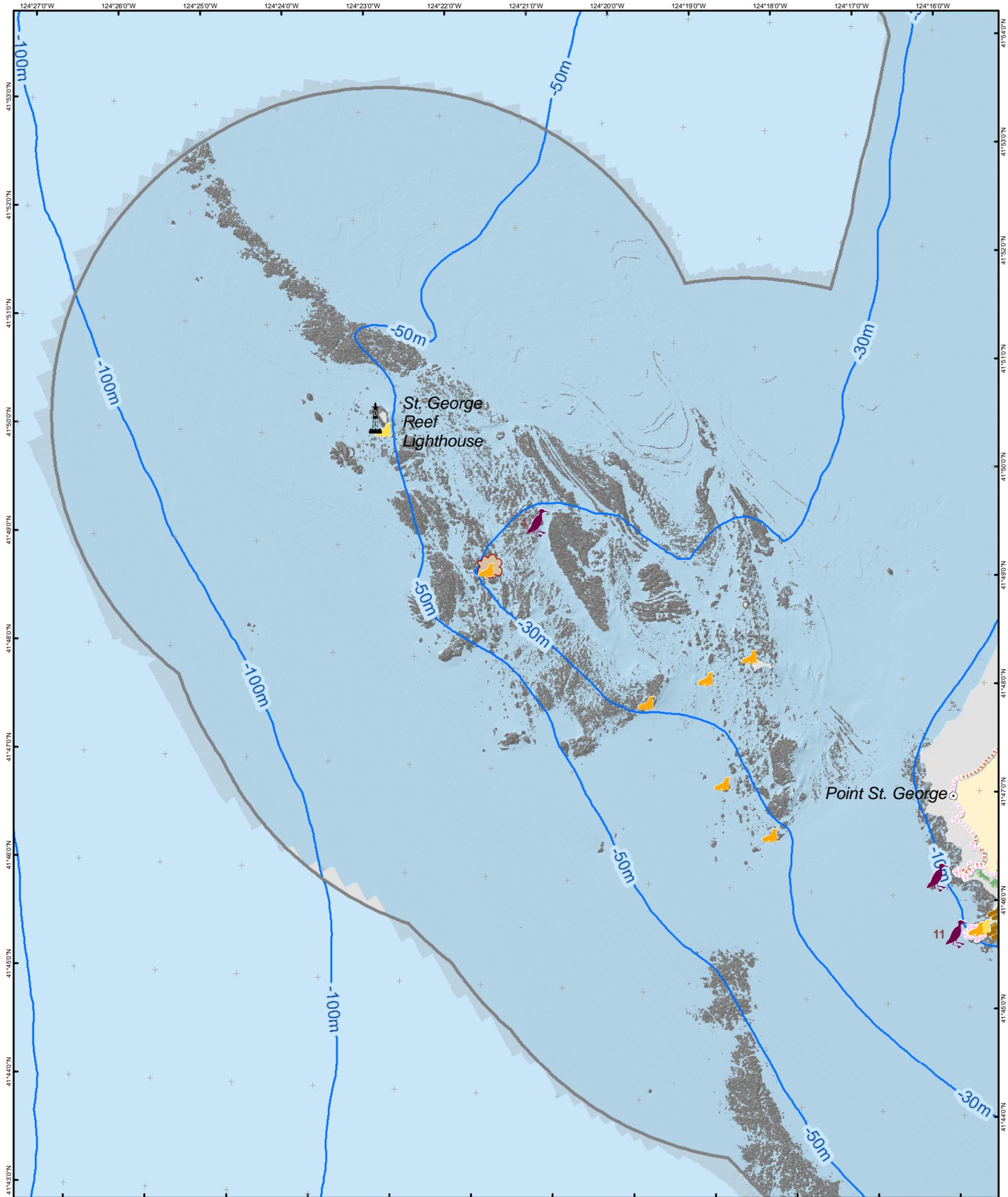
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**1:63,360**  
1 in = 1 Statute Mile

**Habitat & Species Atlas**

Map Sheet No:01

Page No:



Study Region Boundary	Seabird Colonies (Number of Species)	Kelp Beds	Impaired Waterbodies
<b>Landmarks</b>	<b>Pinnipeds Haulouts</b>	Eelgrass	Impaired Rivers
Airport	Shipwrecks	Coastal Salt Marsh	Submarine Canyons
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Monitoring Sites	State Highways	Rocky Shores	
	US Highways	Tidal Flats	
		Watersheds	

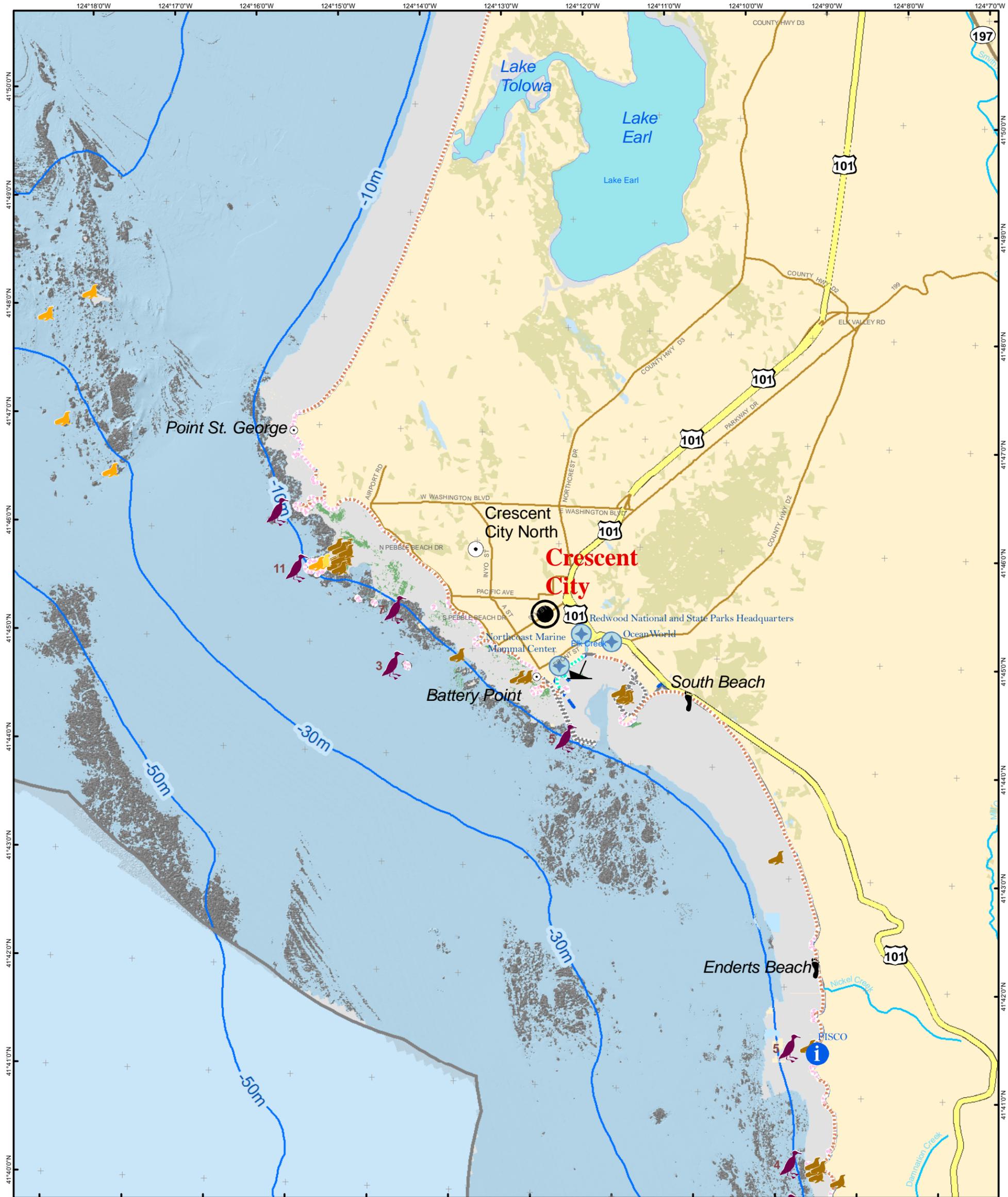
California Locality

Sheet Index

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**1:63,360**  
1 in = 1 Statute Mile  
**Habitat & Species Atlas**

Created by Marine Map Cartographic Division, UCSB



Study Region Boundary	Seabird Colonies (Number of Species)	Kelp Beds	Impaired Waterbodies
<b>Landmarks</b>	Shipwrecks	Eelgrass	Impaired Rivers
Airport	<b>Pinnipeds Haulouts</b>	Coastal Salt Marsh	Submarine Canyons
Beach / Coastal Access	California sea lion	Estuaries	<b>Predicted substrate (Fine Scale)</b>
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Monitoring Sites	State Highways	Rocky Shores	
	US Highways	Tidal Flats	
		Watersheds	

Created by Marine Map Cartographic Division, UCSB

California Locality

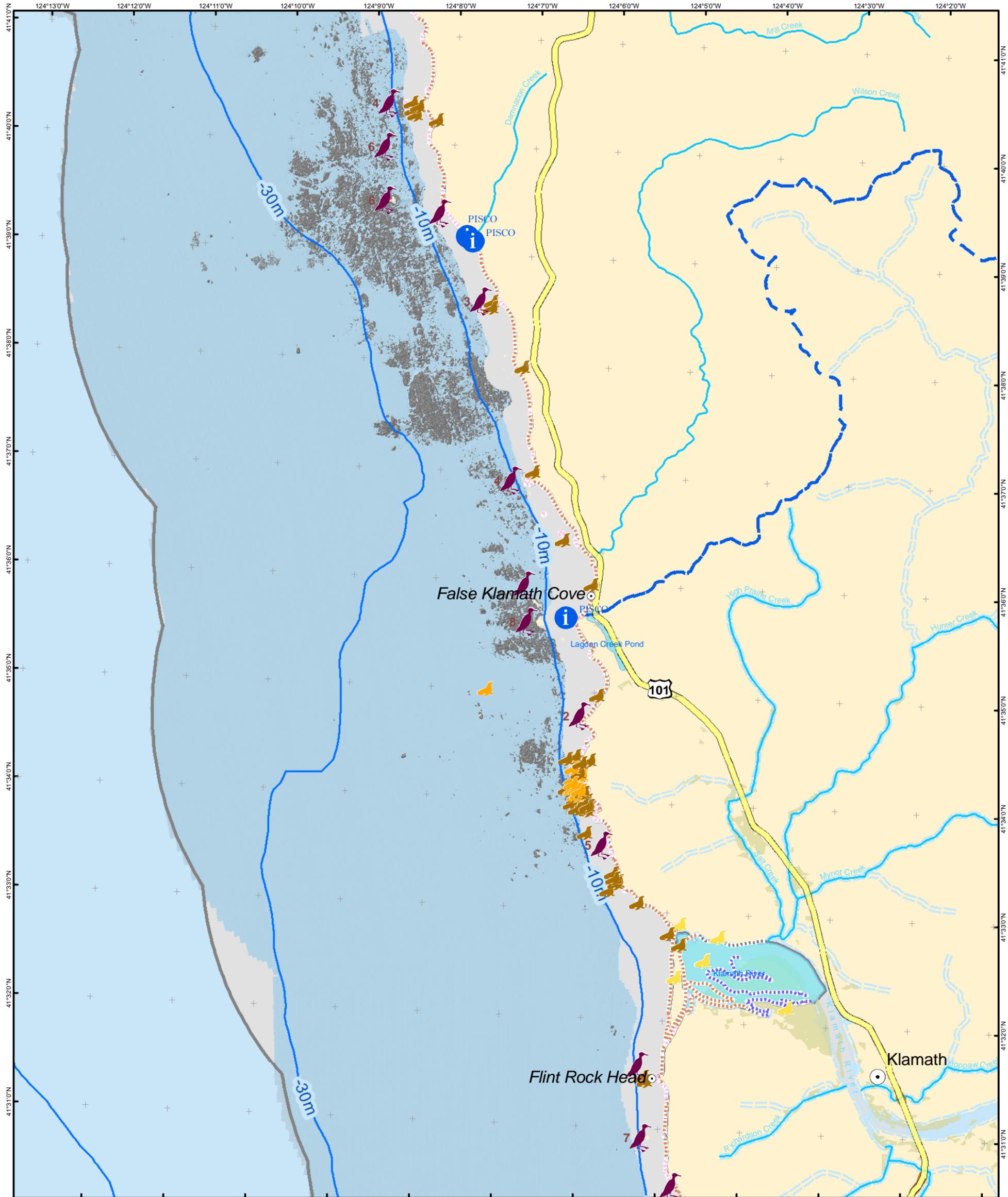
Sheet Index

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1 in = 1 Statute Mile

**Habitat & Species Atlas**

Map Sheet No:03      Page No:



Study Region Boundary	Seabird Colonies (Number of Species)	Kelp Beds	Impaired Waterbodies
<b>Landmarks</b>	<b>Pinnipeds Haulouts</b>	Eelgrass	Impaired Rivers
Airport	Shipwrecks	Coastal Salt Marsh	Submarine Canyons
Beach /Coastal Access	California sea lion	Estuaries	<b>Predicted substrate (Fine Scale)</b>
Lighthouse	Harbor seal	Rivers	Unknown
Major City	Steller sea lion	<b>Shore Types</b>	Hard
Town	Pinniped Rookeries	Beaches	Soft
Coastal Point	<b>Roads</b>	Coastal Marsh	
Educational Institutions	Major Roads	Hardened Shores	
Monitoring Sites	State Highways	Rocky Shores	
	US Highways	Tidal Flats	
		Watersheds	

California Locality

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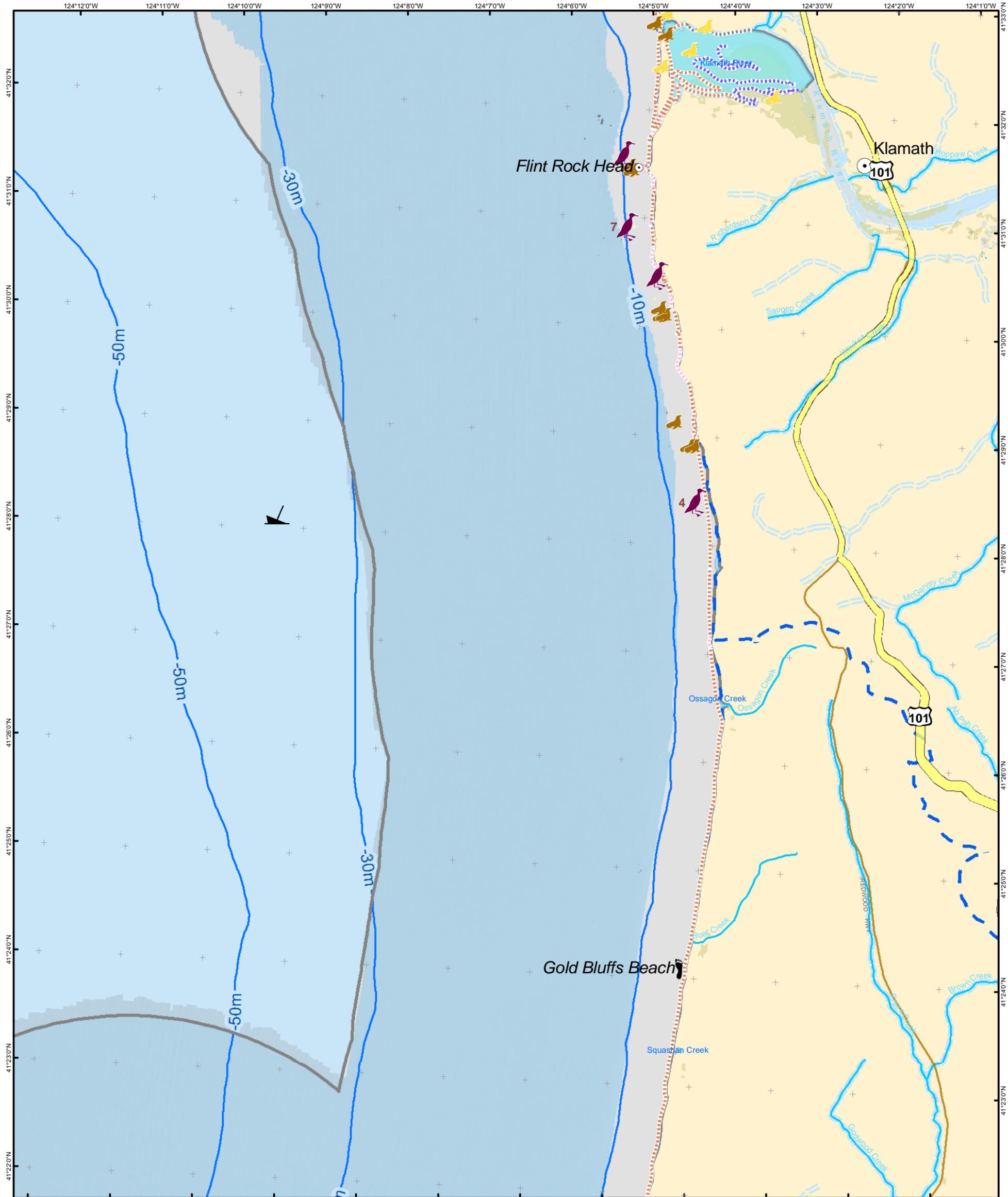
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1 in = 1 Statute Mile

**Habitat & Species Atlas**

Map Sheet No:04

Page No:



Study Region Boundary	Seabird Colonies (Number of Species)	Kelp Beds	Impaired Waterbodies
<b>Landmarks</b>	Shipwrecks	Eelgrass	Impaired Rivers
Airport	<b>Pinnipeds Haulouts</b>	Coastal Salt Marsh	Submarine Canyons
Beach /Coastal Access	California sea lion	Estuaries	<b>Predicted substrate (Fine Scale)</b>
Lighthouse	Harbor seal	Rivers	Unknown
Major City	Steller sea lion	<b>Shore Types</b>	Hard
Town	Pinniped Rookeries	Beaches	Soft
Coastal Point	<b>Roads</b>	Coastal Marsh	
Educational Institutions	Major Roads	Hardened Shores	
Monitoring Sites	State Highways	Rocky Shores	
	US Highways	Tidal Flats	
		Watersheds	

California Locality

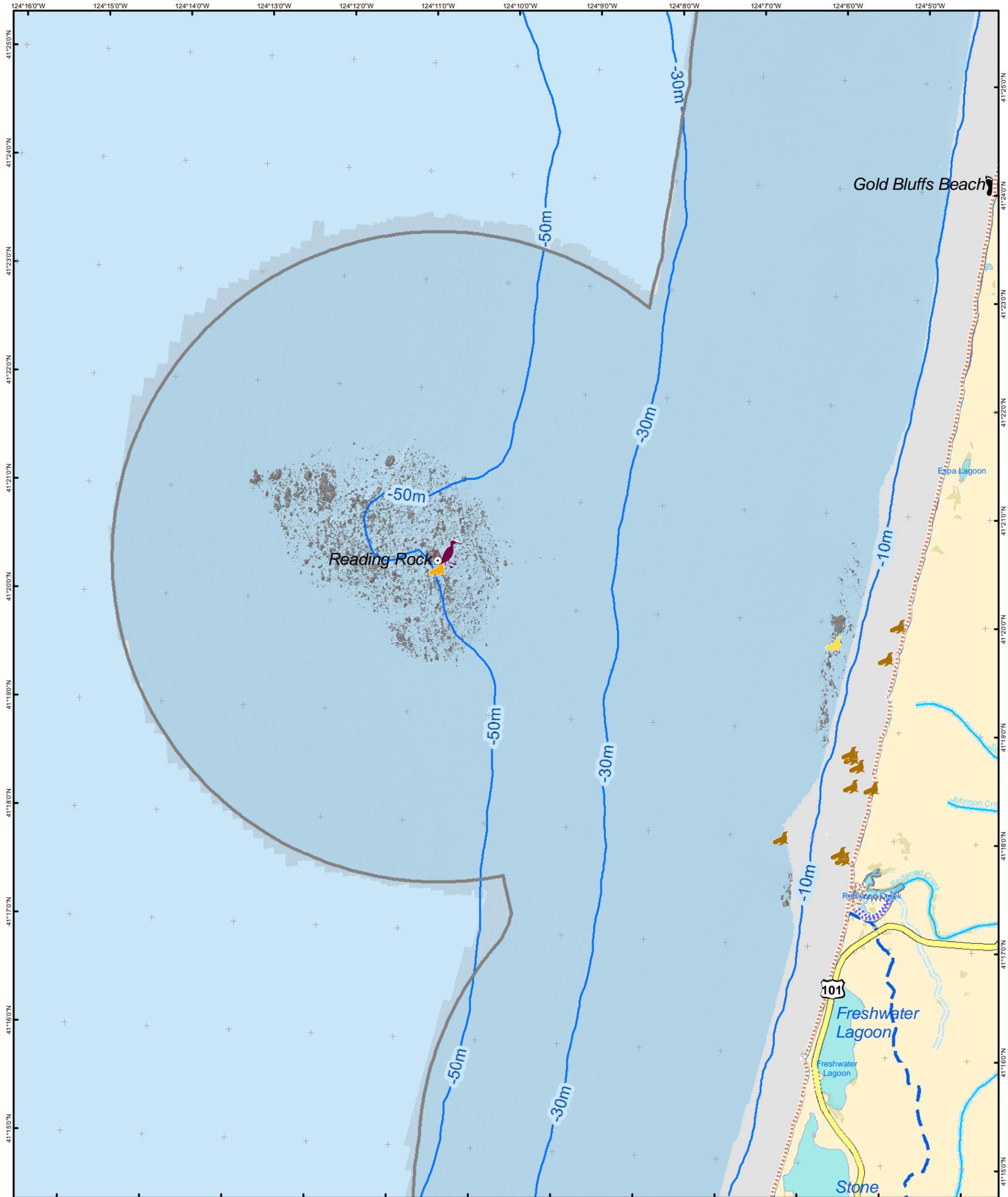
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1 in = 1 Statute Mile

**Habitat & Species Atlas**

Map Sheet No:05      Page No:



- Study Region Boundary
- Seabird Colonies (Number of Species)
- Landmarks**
- Airport
- Beach /Coastal Access
- Lighthouse
- Major City
- Town
- Coastal Point
- Educational Institutions
- Monitoring Sites
- Shipwrecks
- Pinnipeds Haulouts**
- California sea lion
- Harbor seal
- Steller sea lion
- Pinniped Rookeries
- Roads**
- Major Roads
- State Highways
- US Highways

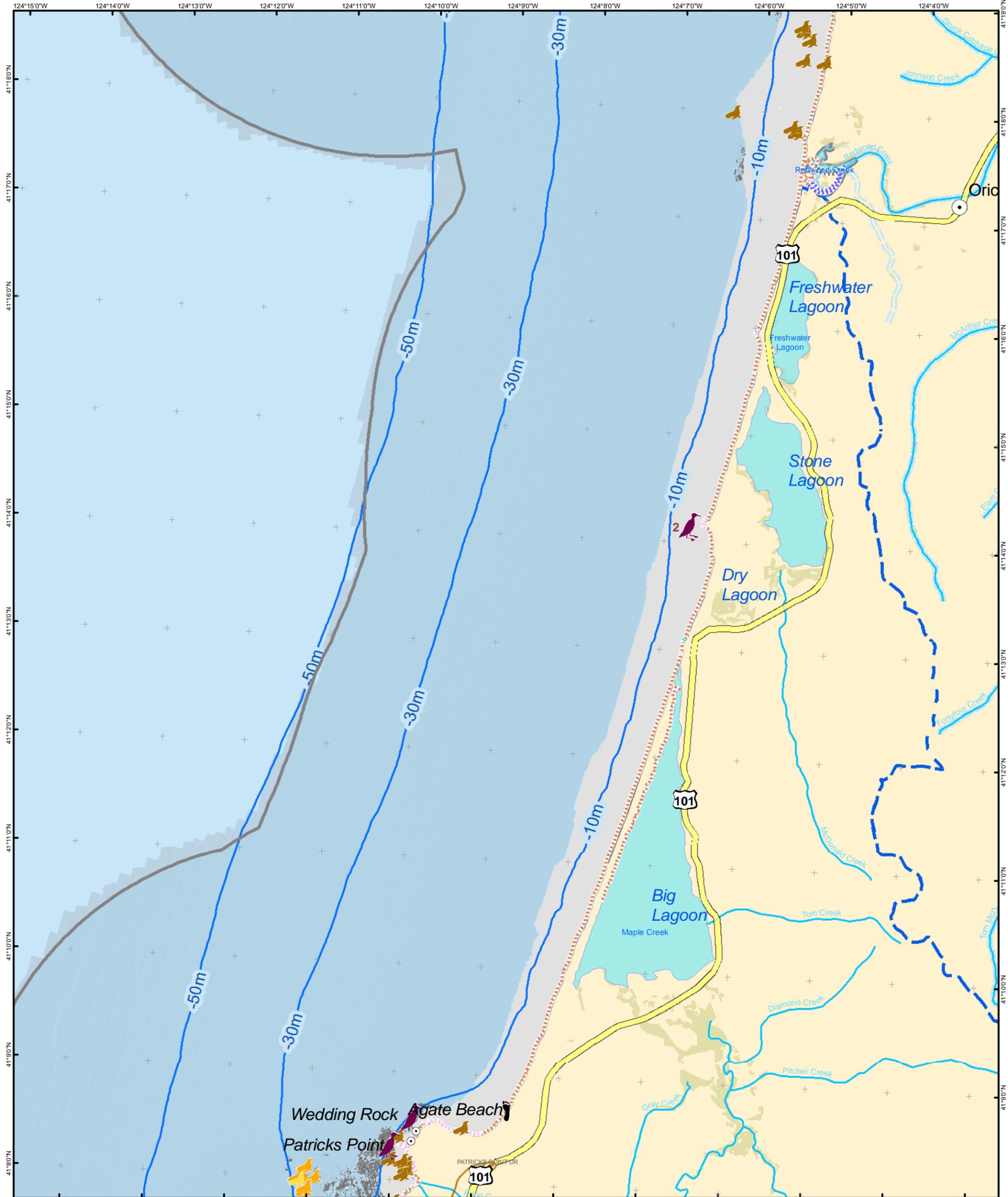
- Kelp Beds
- Eelgrass
- Coastal Salt Marsh
- Estuaries
- Rivers
- Shore Types**
- Beaches
- Coastal Marsh
- Hardened Shores
- Rocky Shores
- Tidal Flats
- Watersheds
- Impaired Waterbodies
- Impaired Rivers
- Submarine Canyons
- Predicted substrate (Fine Scale)**
- Unknown
- Hard
- Soft

California Locality

Sheet Index

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0 0.5 1 2 Kilometers

**1:63,360**  
1 in = 1 Statute Mile



Study Region Boundary	Seabird Colonies (Number of Species)	Kelp Beds	Impaired Waterbodies
<b>Landmarks</b>	<b>Pinnipeds Haulouts</b>	Eelgrass	Impaired Rivers
Airport	Shipwrecks	Coastal Salt Marsh	Submarine Canyons
Beach /Coastal Access	California sea lion	Estuaries	<b>Predicted substrate (Fine Scale)</b>
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Educational Institutions	Major Roads	Hardened Shores	
Monitoring Sites	State Highways	Rocky Shores	
	US Highways	Tidal Flats	
		Watersheds	

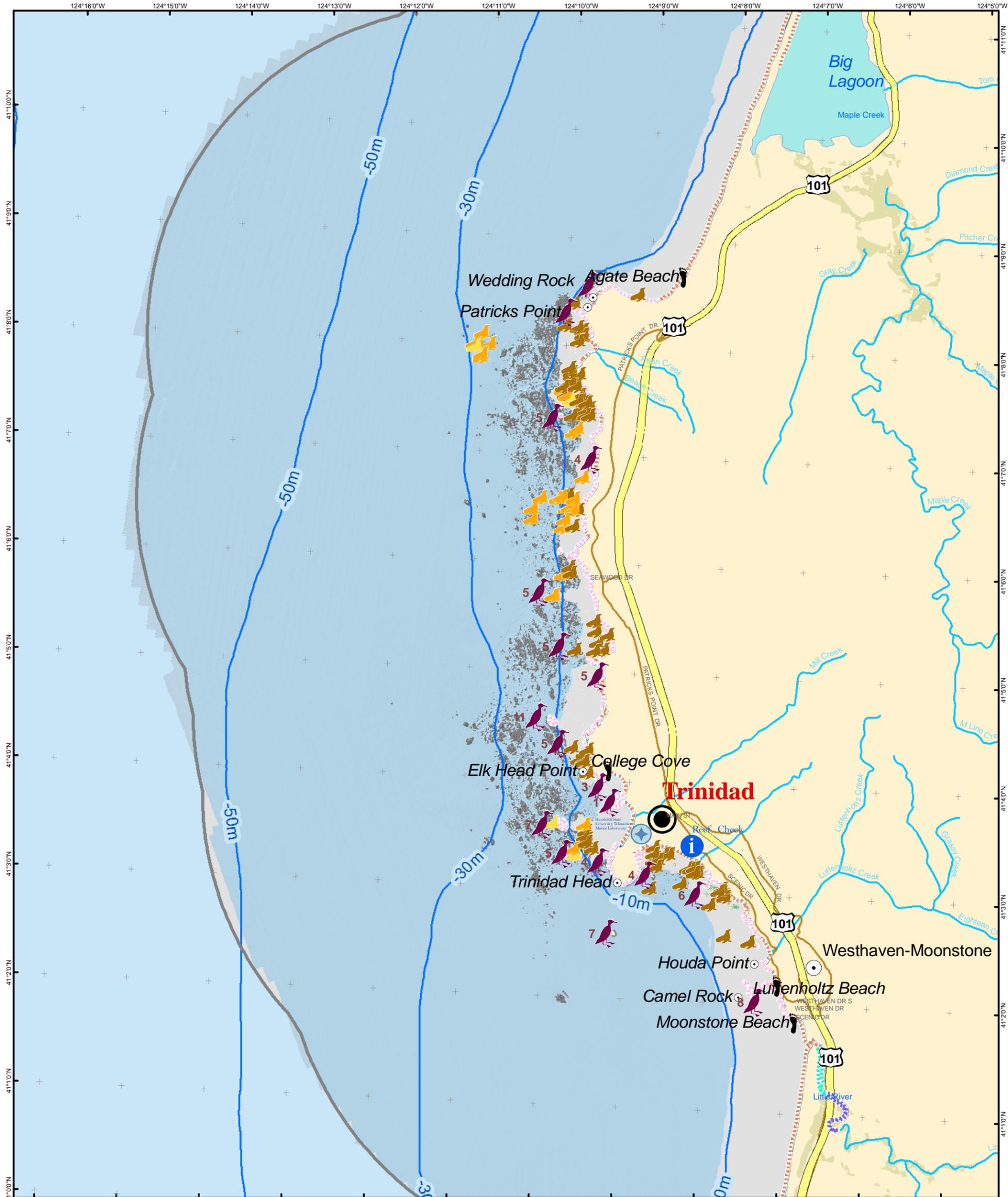
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California Locality

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**1:63,360**  
1 in = 1 Statute Mile



**Study Region Boundary**

**Landmarks**

- Airport
- Beach /Coastal Access
- Lighthouse
- Major City
- Town
- Coastal Point
- Educational Institutions
- Monitoring Sites

**Pinnipeds Haulouts**

- California sea lion
- Harbor seal
- Steller sea lion
- Pinniped Rookeries

**Roads**

- Major Roads
- State Highways
- US Highways

**Seabird Colonies (Number of Species)**

**Shore Types**

- Beaches
- Coastal Marsh
- Hardened Shores
- Rocky Shores
- Tidal Flats
- Watersheds

**Habitat**

- Kelp Beds
- Eelgrass
- Coastal Salt Marsh
- Estuaries
- Rivers

**Submarine Features**

- Submarine Canyons

**Predicted substrate (Fine Scale)**

- Unknown
- Hard
- Soft

**Impaired Waterbodies**

- Impaired Waterbodies
- Impaired Rivers

California Locality

Sheet Index

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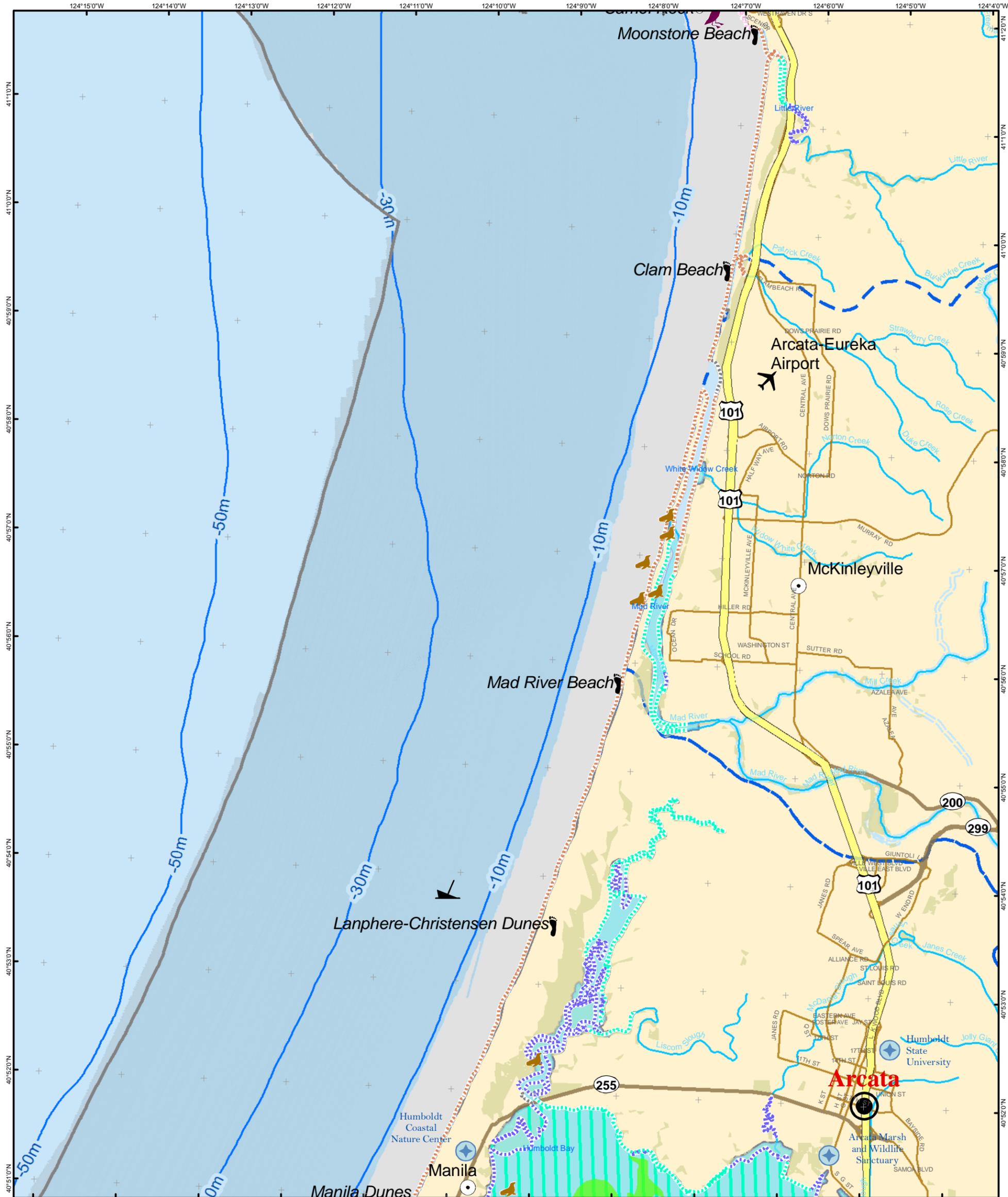
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1 in = 1 Statute Mile

**Habitat & Species Atlas**

Map Sheet No:08

Page No:



Study Region Boundary	Seabird Colonies (Number of Species)	Kelp Beds	Impaired Waterbodies
<b>Landmarks</b>	<b>Pinnipeds Haulouts</b>	Eelgrass	Impaired Rivers
Airport	Shipwrecks	Coastal Salt Marsh	Submarine Canyons
Beach / Coastal Access	California sea lion	Estuaries	<b>Predicted substrate (Fine Scale)</b>
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Major City	Steller sea lion	<b>Shore Types</b>	Hard
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Educational Institutions	Major Roads	Hardened Shores	
Monitoring Sites	State Highways	Rocky Shores	
	US Highways	Tidal Flats	
		Watersheds	

California Locality

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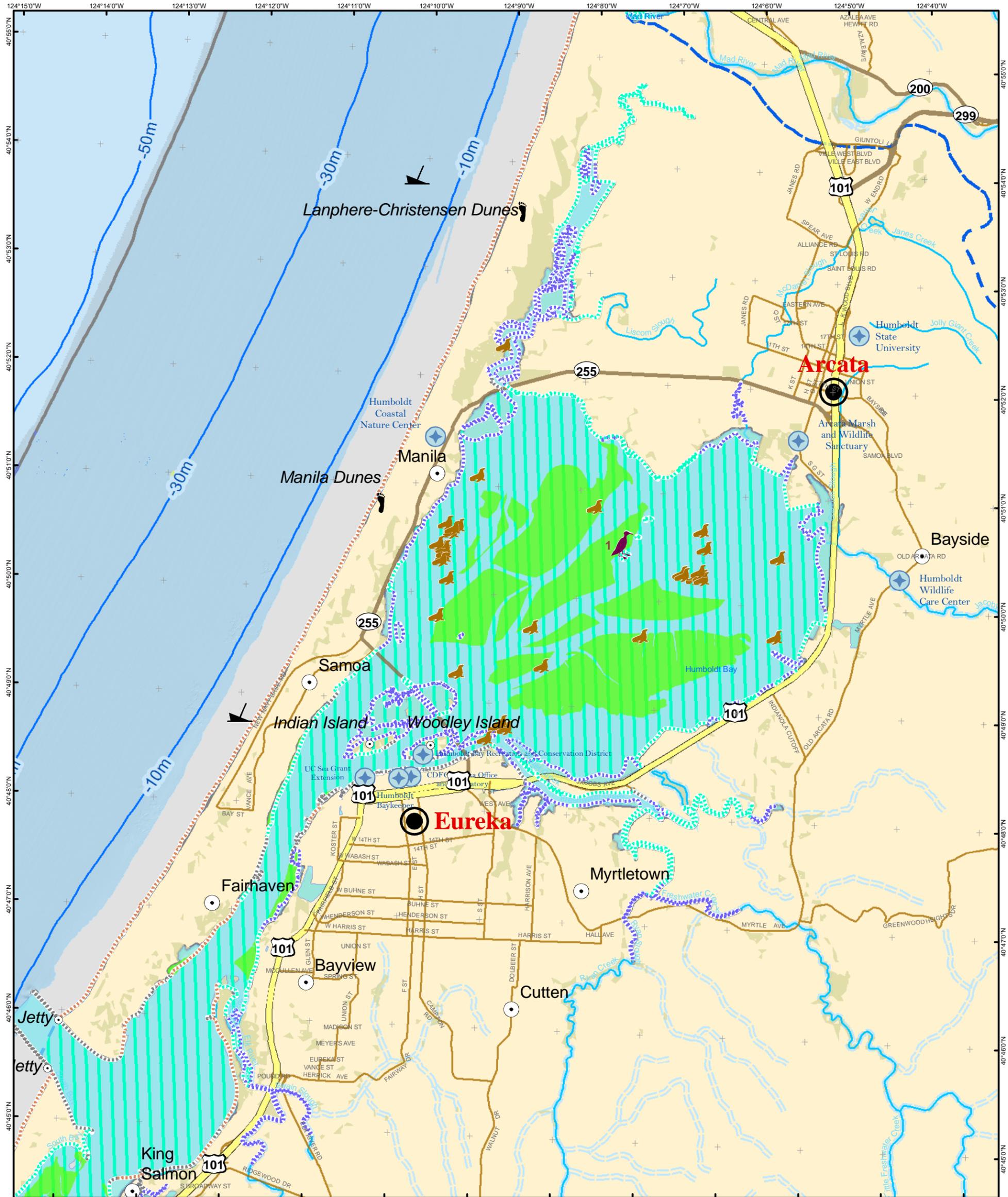
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**Habitat & Species Atlas**

Map Sheet No:09      Page No:



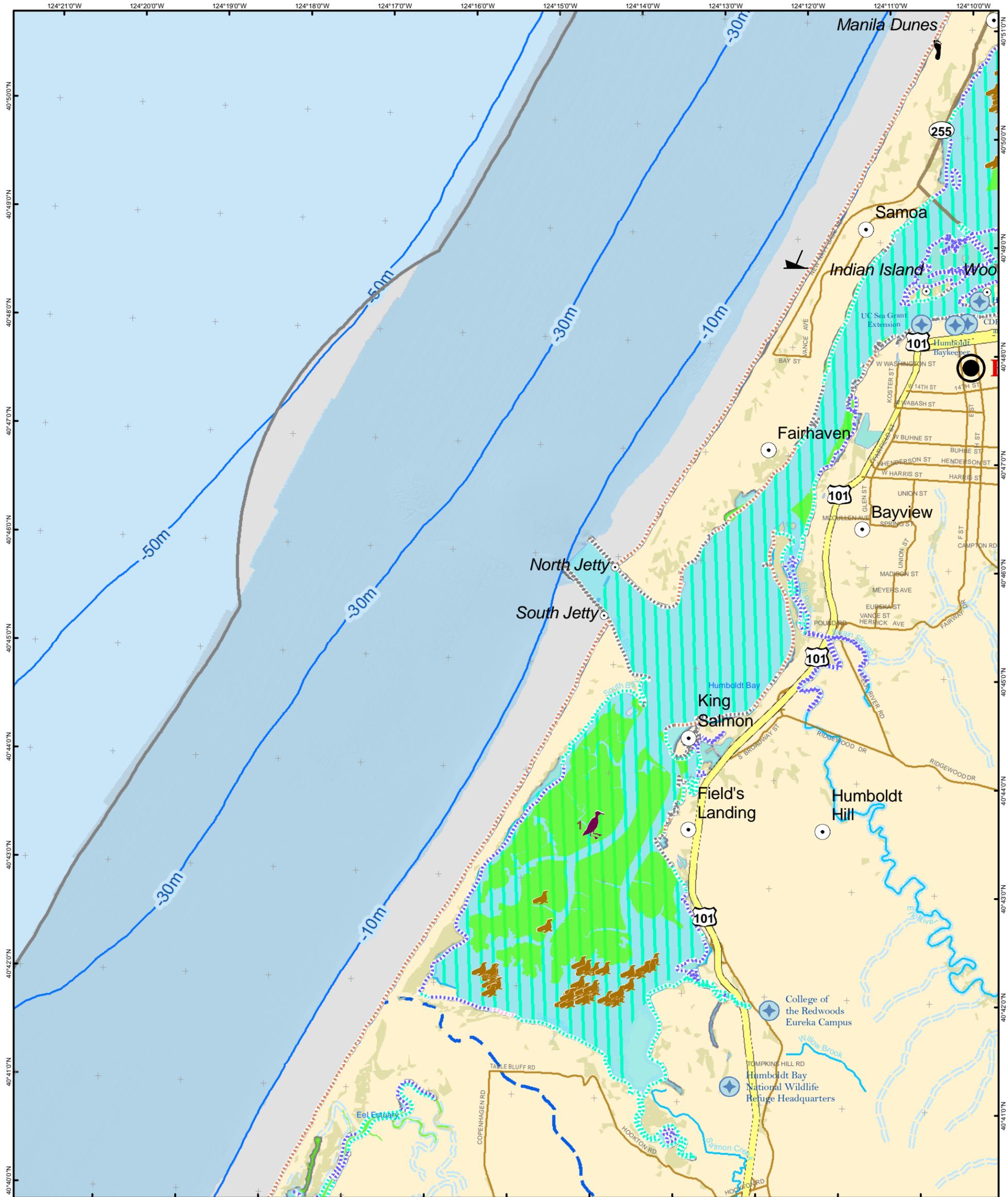
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<b>Landmarks</b>	Pinnipeds Haulouts	Eelgrass	Impaired Rivers
Airport	California sea lion	Coastal Salt Marsh	Submarine Canyons
Beach / Coastal Access	Harbor seal	Estuaries	<b>Predicted substrate (Fine Scale)</b>
Lighthouse	Steller sea lion	Rivers	Unknown
Major City	Pinniped Rookeries	<b>Shore Types</b>	Hard
Town	<b>Roads</b>	Beaches	Soft
Coastal Point	Major Roads	Coastal Marsh	Watersheds
Educational Institutions	State Highways	Hardened Shores	
Monitoring Sites	US Highways	Rocky Shores	
		Tidal Flats	

California Locality

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1 in = 1 Statute Mile



Study Region Boundary	Seabird Colonies (Number of Species)	Kelp Beds	Impaired Waterbodies
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Educational Institutions	Major Roads	Hardened Shores	
Monitoring Sites	State Highways	Rocky Shores	
	US Highways	Tidal Flats	
		Watersheds	

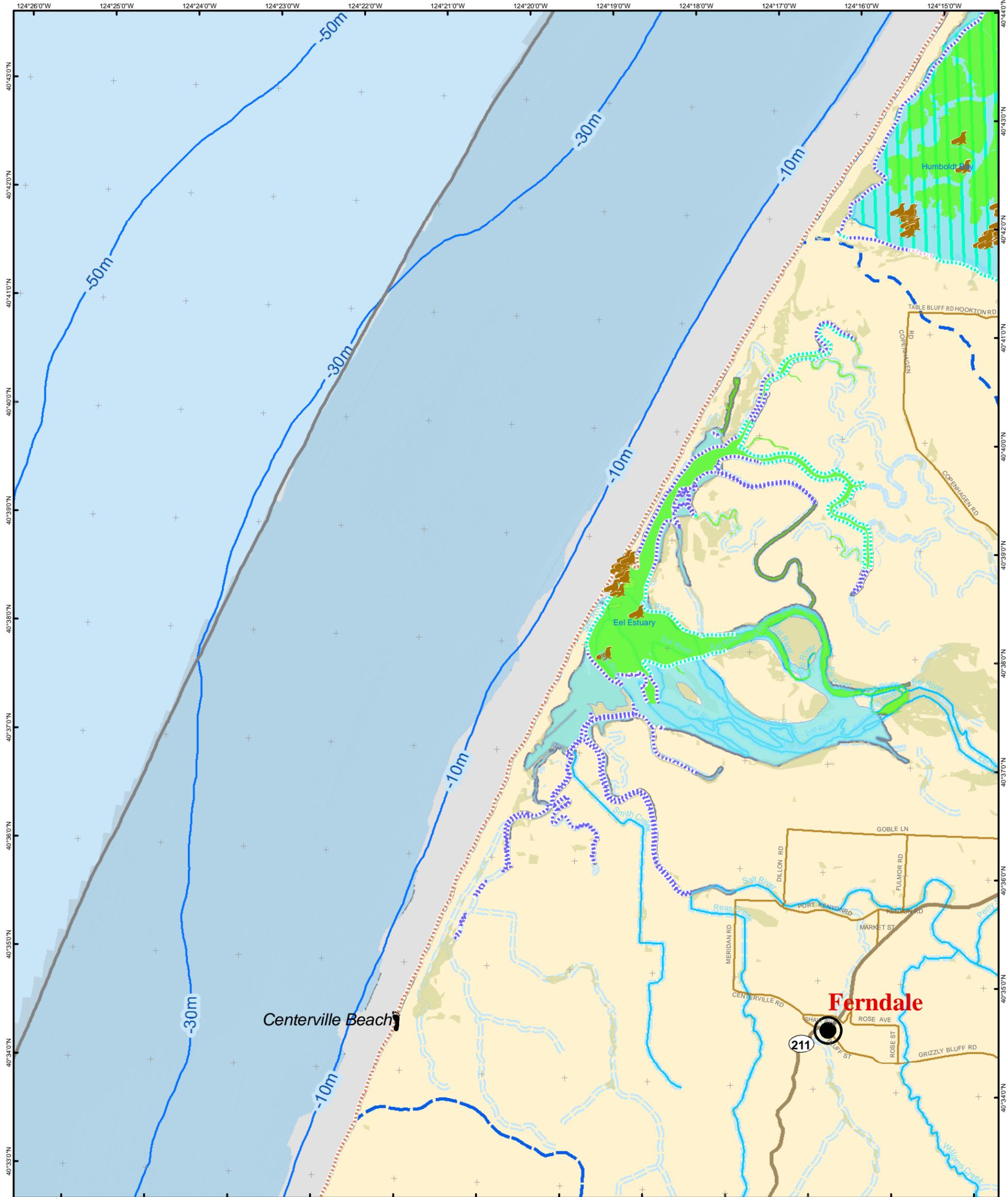
California Locality

Sheet Index

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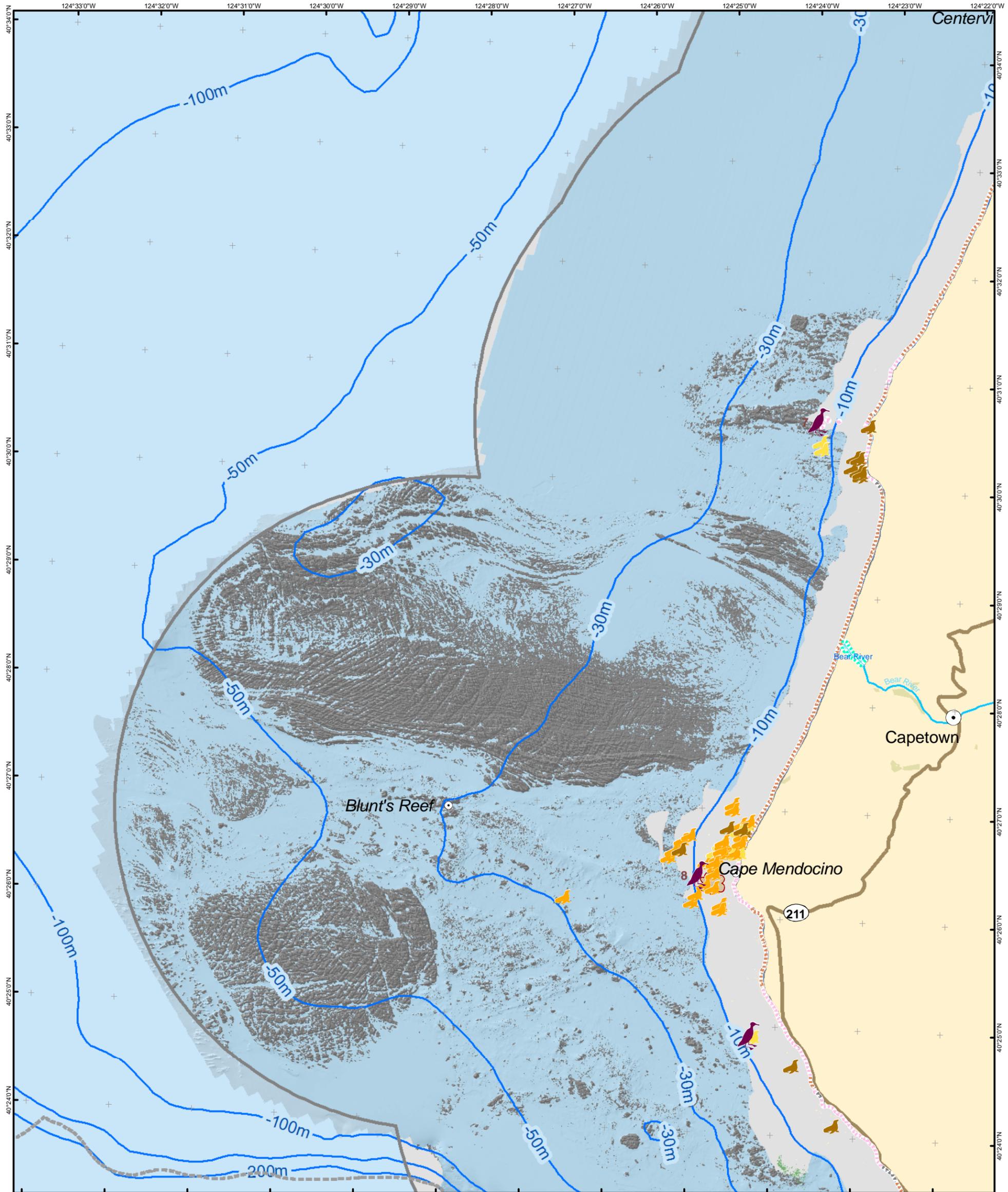
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<b>Landmarks</b>	<b>Pinnipeds Haulouts</b>	Eelgrass	Impaired Rivers
Airport	Shipwrecks	Coastal Salt Marsh	Submarine Canyons
Beach /Coastal Access	California sea lion	Estuaries	<b>Predicted substrate (Fine Scale)</b>
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Educational Institutions	Major Roads	Hardened Shores	
Monitoring Sites	State Highways	Rocky Shores	
	US Highways	Tidal Flats	
		Watersheds	

California Locality

Sheet Index

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1 in = 1 Statute Mile



Study Region Boundary	Seabird Colonies (Number of Species)	Kelp Beds	Impaired Waterbodies
<b>Landmarks</b>	<b>Pinnipeds Haulouts</b>	Eelgrass	Impaired Rivers
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Monitoring Sites	State Highways	Rocky Shores	
	US Highways	Tidal Flats	
		Watersheds	

California Locality

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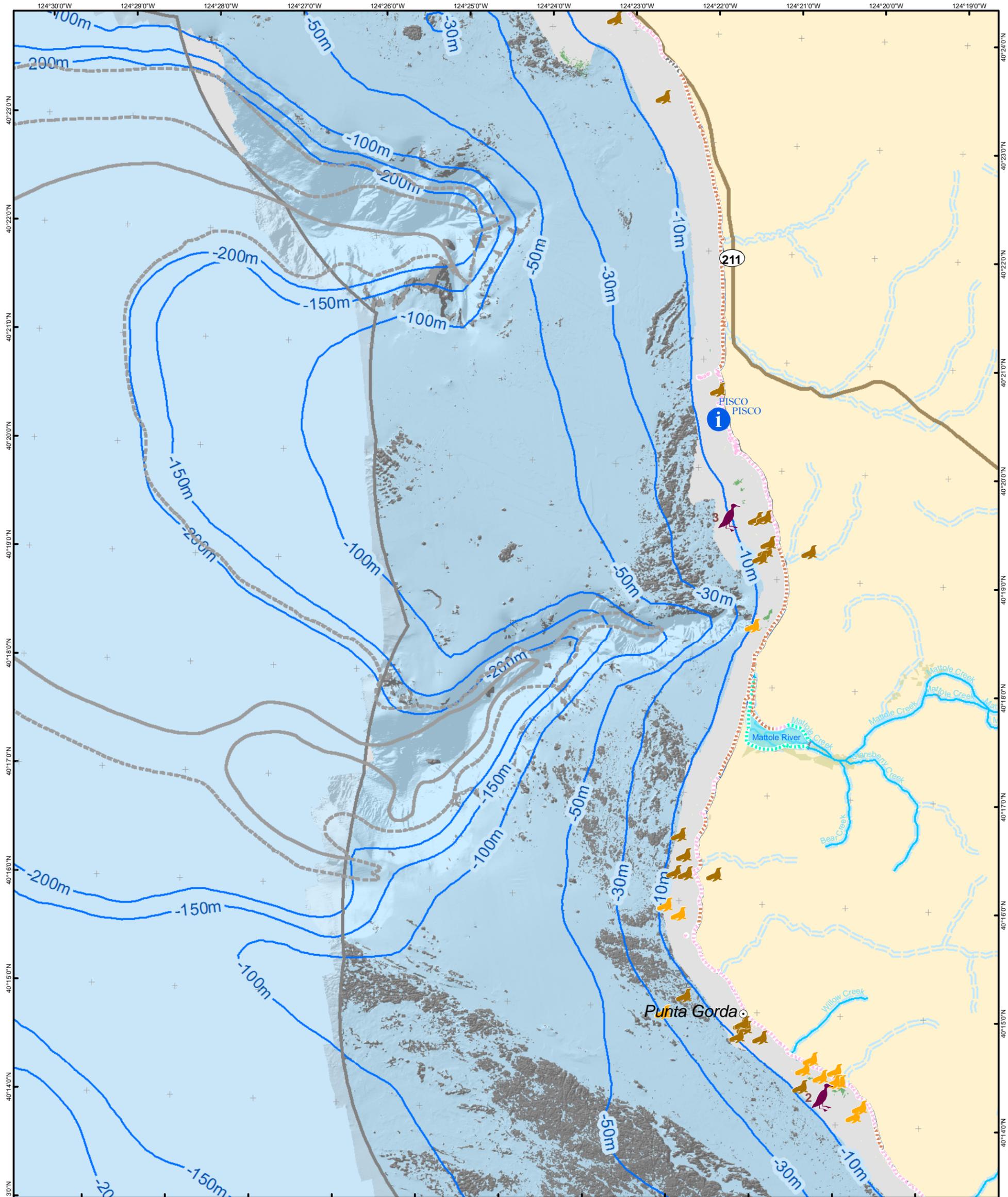
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**Habitat & Species Atlas**

Map Sheet No:13

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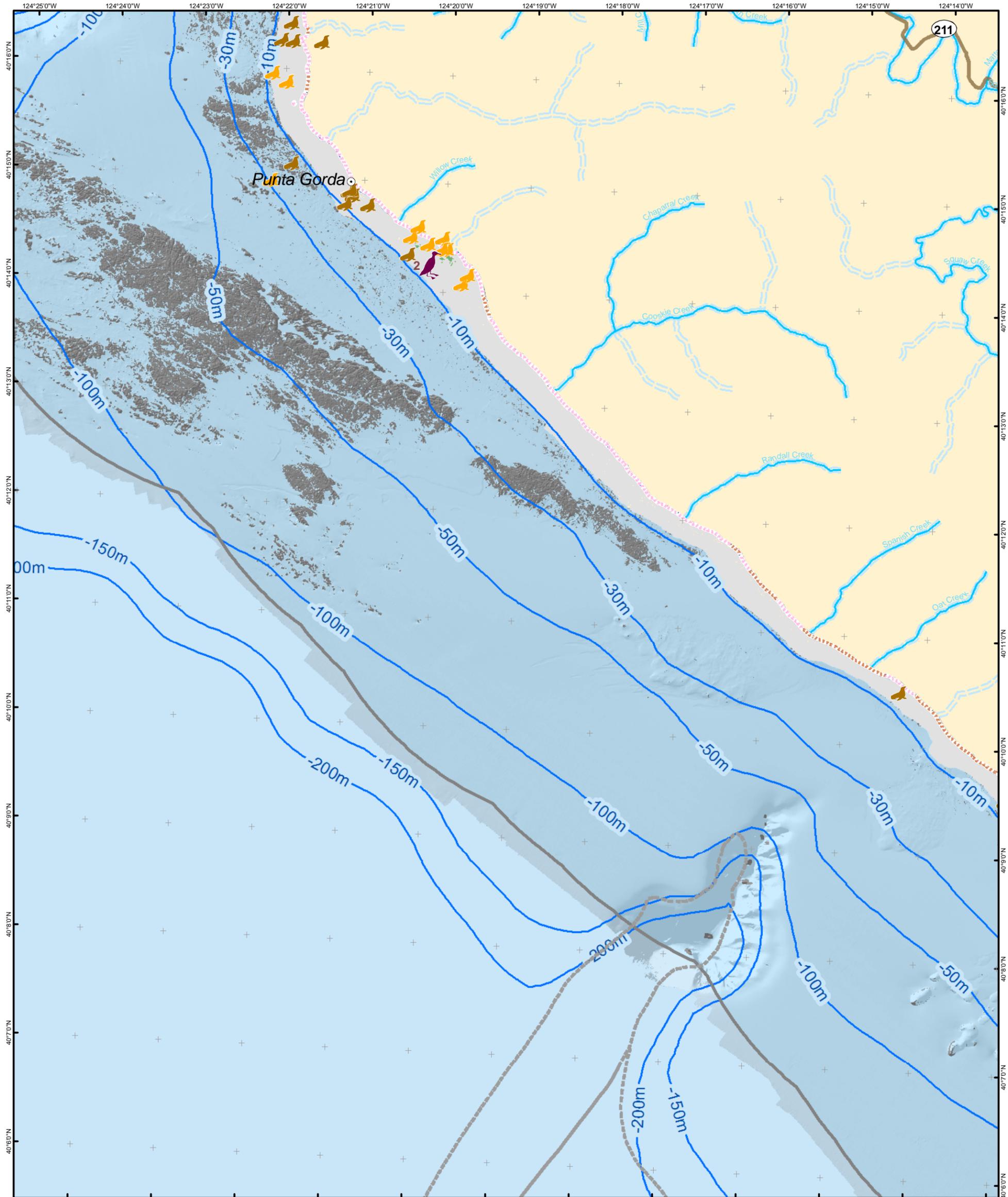
Study Region Boundary	Seabird Colonies (Number of Species)	Kelp Beds	Impaired Waterbodies
<b>Landmarks</b>	Shipwrecks	Eelgrass	Impaired Rivers
Airport	<b>Pinnipeds Haulouts</b>	Coastal Salt Marsh	Submarine Canyons
Beach / Coastal Access	California sea lion	Estuaries	<b>Predicted substrate (Fine Scale)</b>
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		Watersheds	

California Locality

Sheet Index

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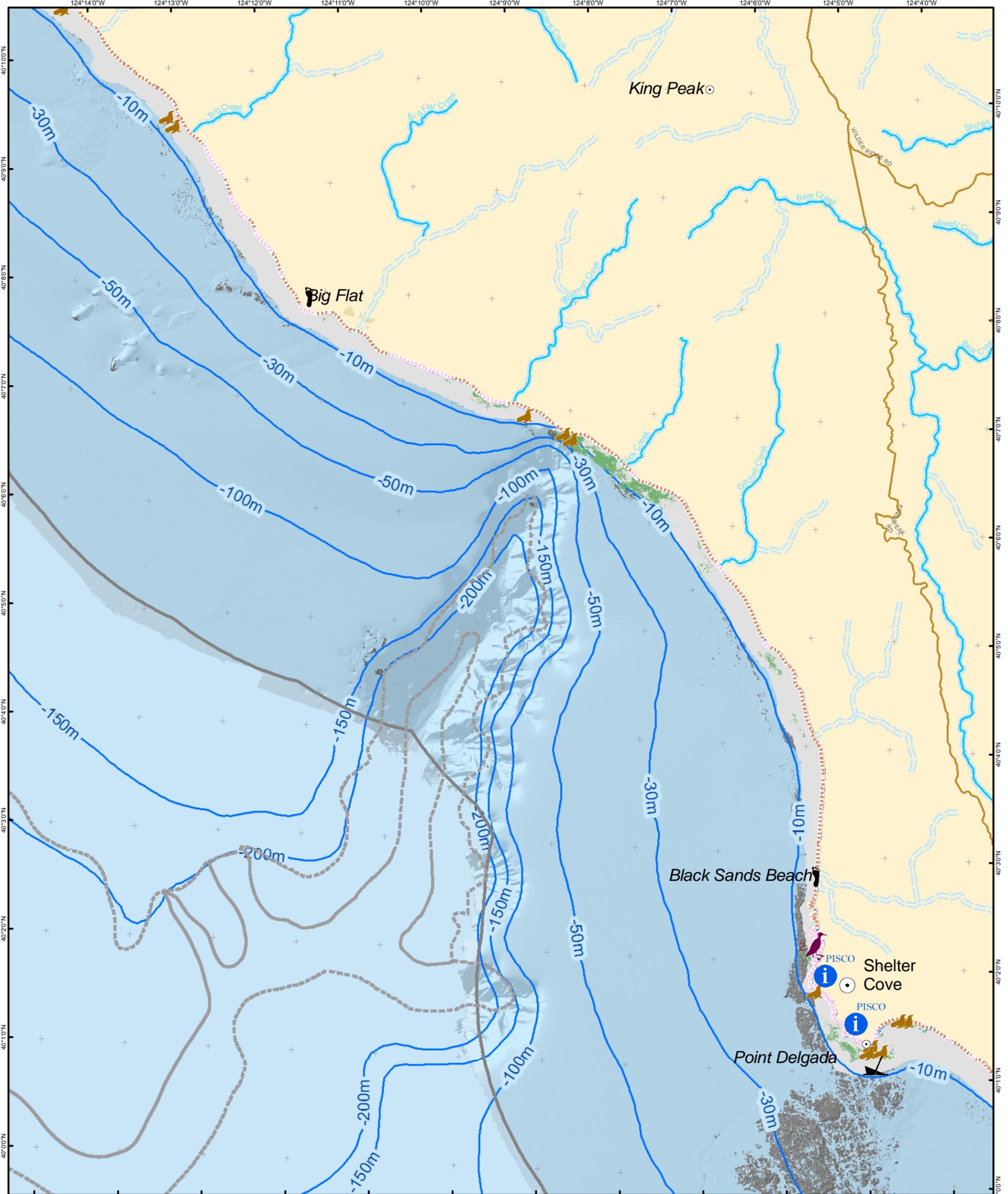
Study Region Boundary	Seabird Colonies (Number of Species)	Kelp Beds	Impaired Waterbodies
<b>Landmarks</b>	Shipwrecks	Eelgrass	Impaired Rivers
Airport	<b>Pinnipeds Haulouts</b>	Coastal Salt Marsh	Submarine Canyons
Beach / Coastal Access	California sea lion	Estuaries	<b>Predicted substrate (Fine Scale)</b>
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		Watersheds	

California Locality

Sheet Index

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1 in = 1 Statute Mile



Study Region Boundary	Seabird Colonies (Number of Species)	Kelp Beds	Impaired Waterbodies
<b>Landmarks</b>	<b>Pinnipeds Haulouts</b>	Eelgrass	Impaired Rivers
Airport	Shipwrecks	Coastal Salt Marsh	Submarine Canyons
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		Watersheds	

California Locality

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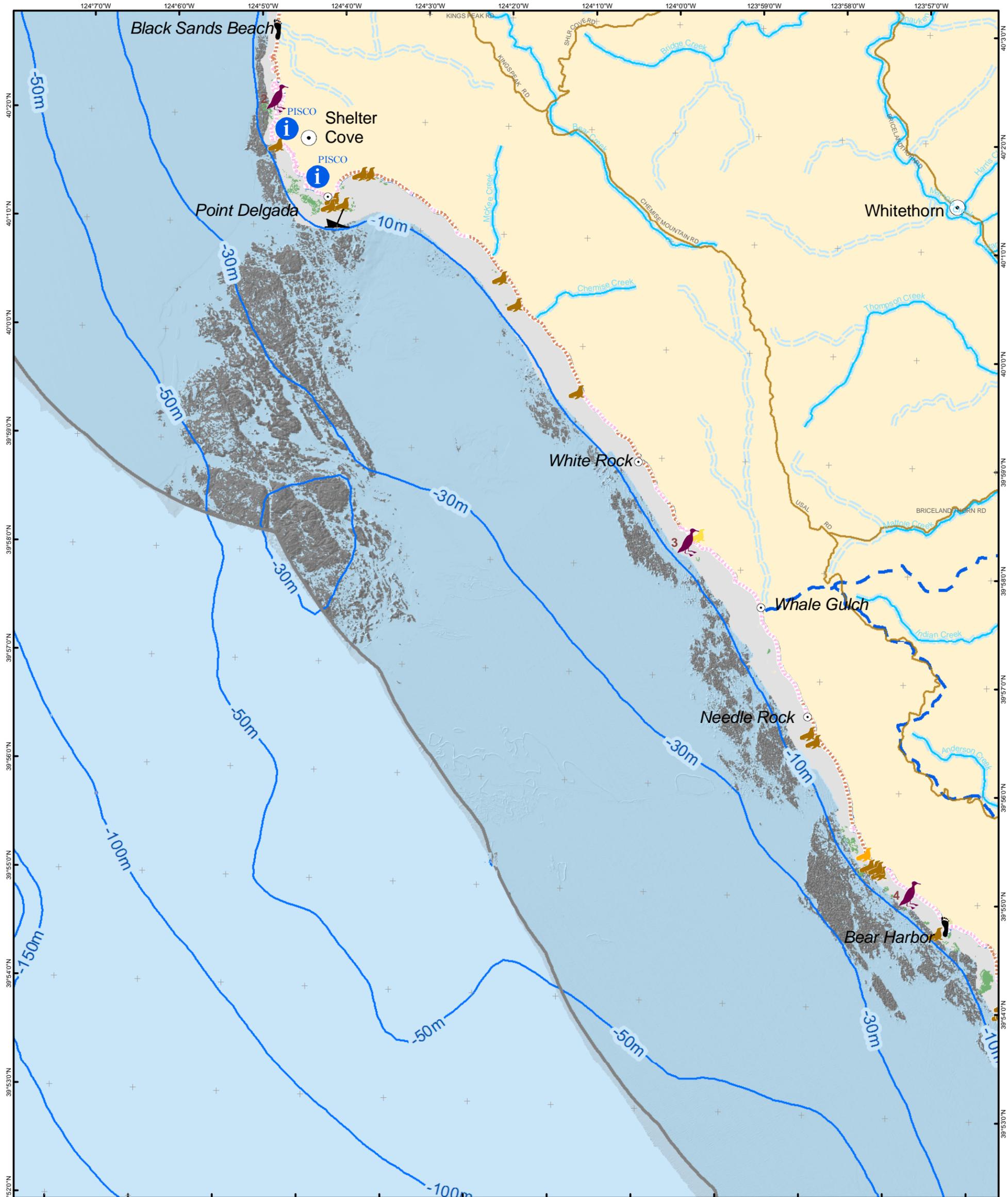
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**Habitat & Species Atlas**

Map Sheet No:16      Page No:



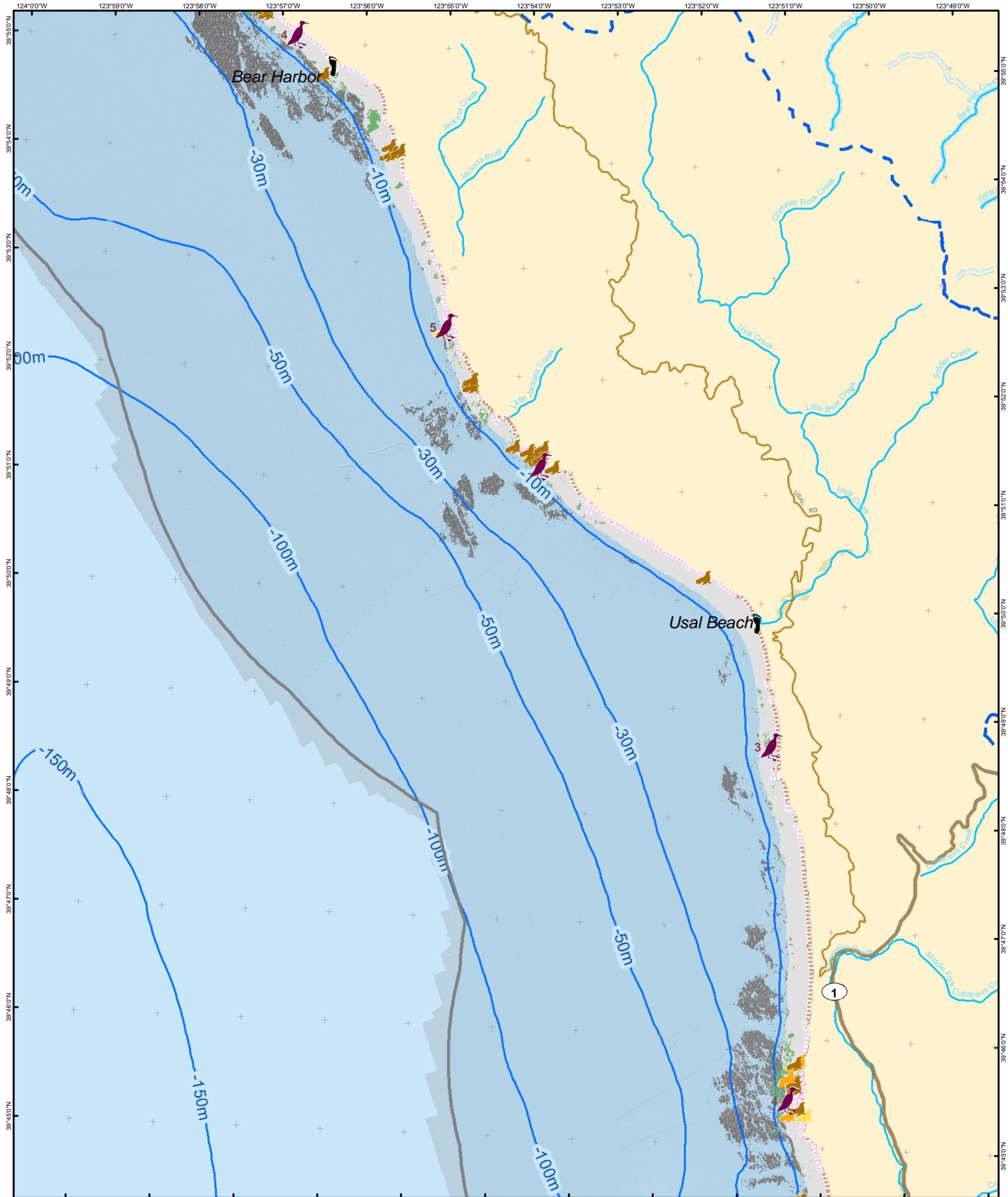
Study Region Boundary	Seabird Colonies (Number of Species)	Kelp Beds	Impaired Waterbodies
<b>Landmarks</b>	<b>Pinnipeds Haulouts</b>	Eelgrass	Impaired Rivers
Airport	Shipwrecks	Coastal Salt Marsh	Submarine Canyons
Beach /Coastal Access	California sea lion	Estuaries	<b>Predicted substrate (Fine Scale)</b>
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California Locality

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0 0.5 1 2 Kilometers

**1:63,360**  
1 in = 1 Statute Mile



Study Region Boundary	Seabird Colonies (Number of Species)	Kelp Beds	Impaired Waterbodies
<b>Landmarks</b>	Shipwrecks	Eelgrass	Impaired Rivers
Airport	<b>Pinnipeds Haulouts</b>	Coastal Salt Marsh	Submarine Canyons
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Monitoring Sites	State Highways	Rocky Shores	
	US Highways	Tidal Flats	
		Watersheds	

California Locality

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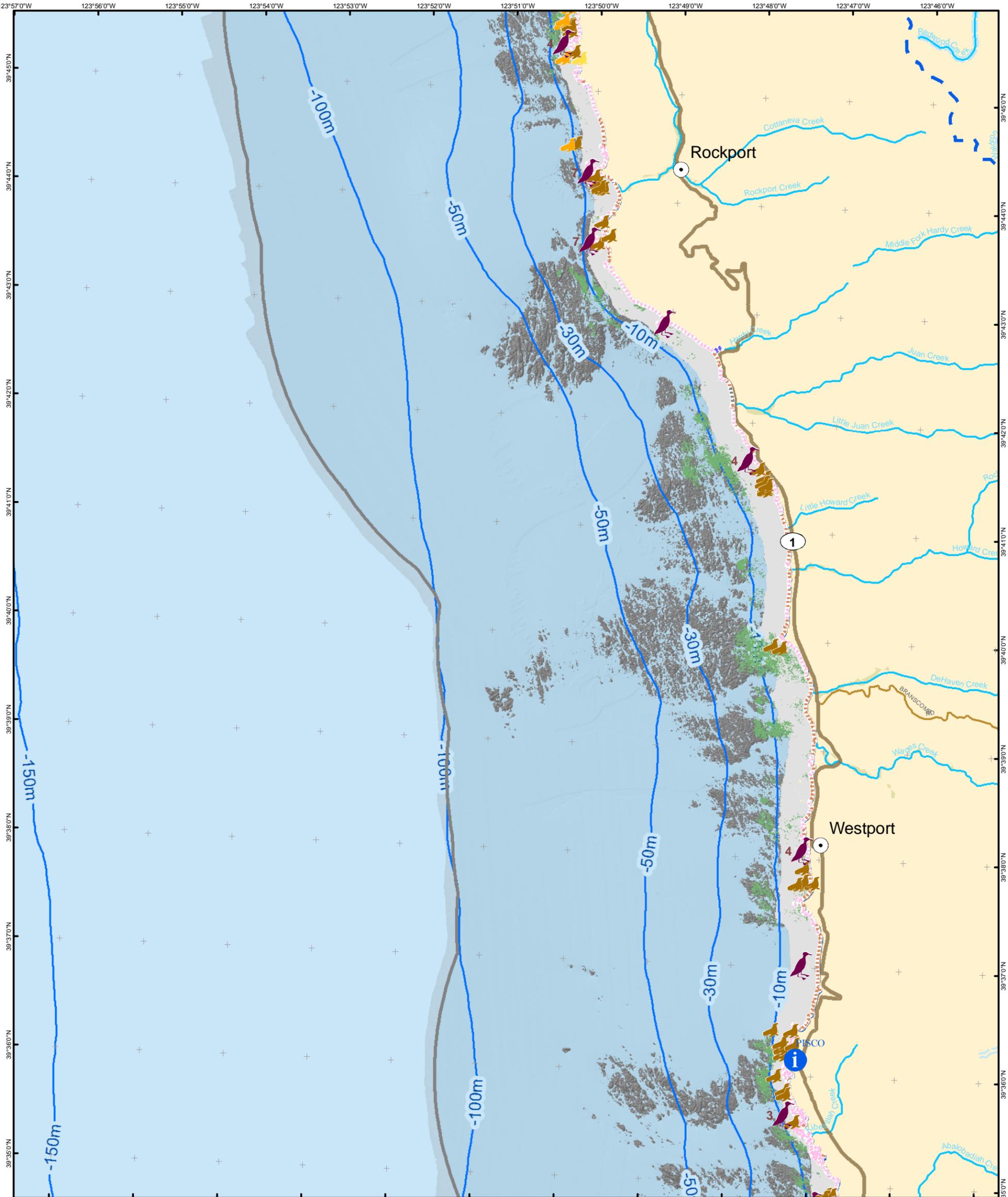
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1 in = 1 Statute Mile

**Habitat & Species Atlas**

Map Sheet No:18      Page No:



Study Region Boundary	Seabird Colonies (Number of Species)	Kelp Beds	Impaired Waterbodies
<b>Landmarks</b>	Shipwrecks	Eelgrass	Impaired Rivers
Airport	<b>Pinnipeds Haulouts</b>	Coastal Salt Marsh	Submarine Canyons
Beach /Coastal Access	California sea lion	Estuaries	<b>Predicted substrate (Fine Scale)</b>
Lighthouse	Harbor seal	Rivers	Unknown
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Monitoring Sites	State Highways	Rocky Shores	
	US Highways	Tidal Flats	
		Watersheds	

California Locality

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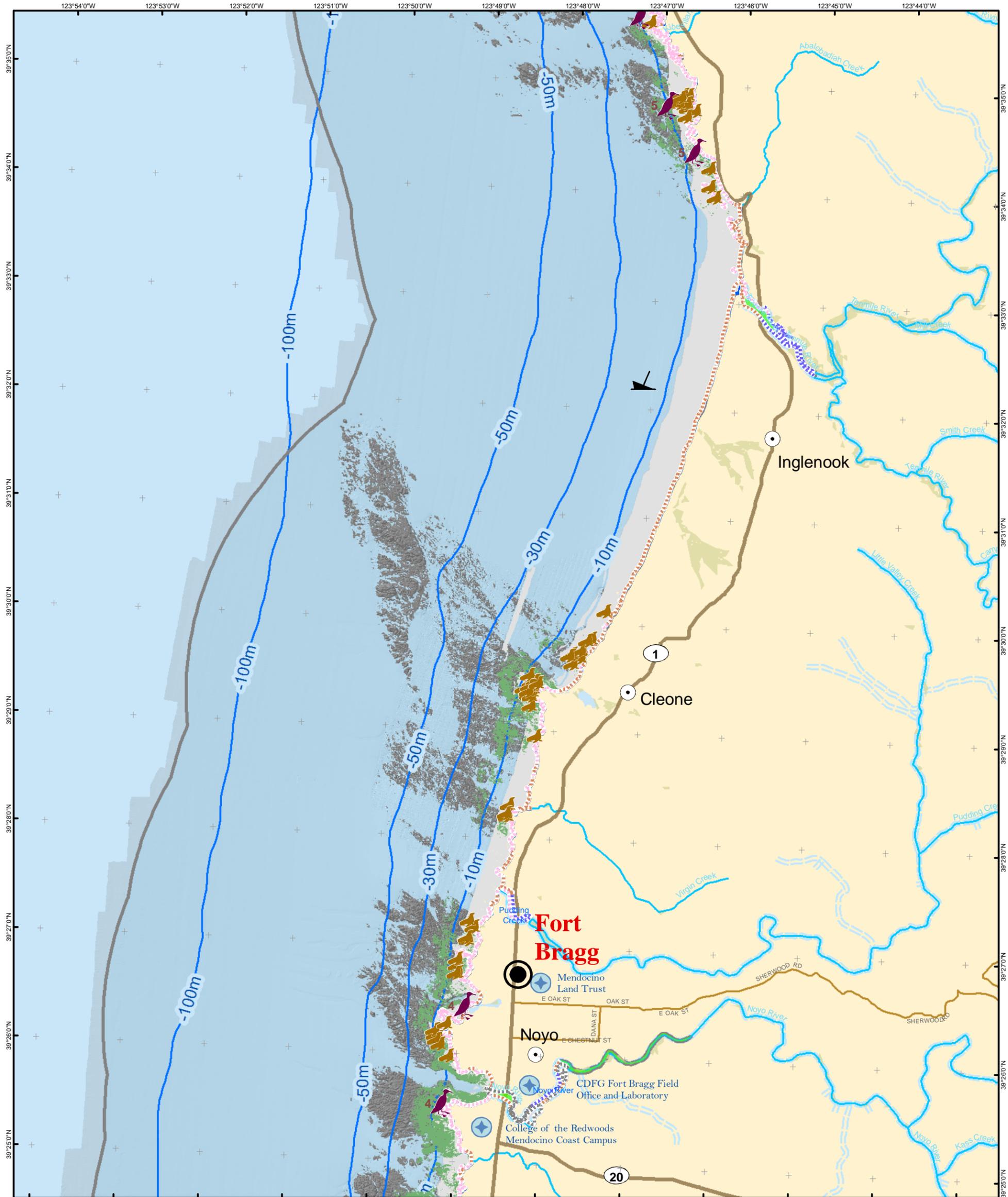
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0 0.5 1 2 Statute Miles  
0 0.5 1 2 Kilometers

**1:63,360**  
1 in = 1 Statute Mile

**Habitat & Species Atlas**

Map Sheet No:19

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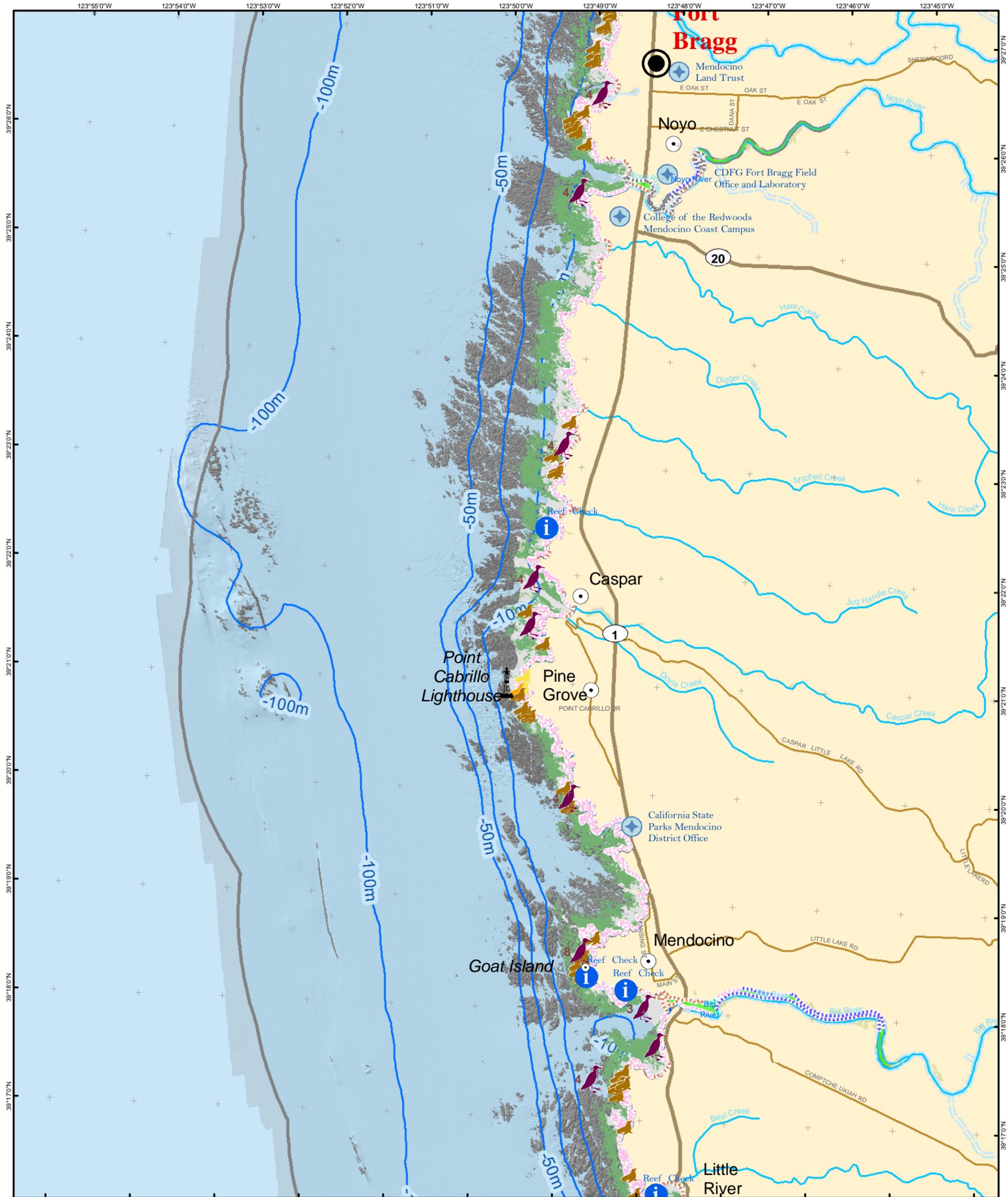
Study Region Boundary	Seabird Colonies (Number of Species)	Kelp Beds	Impaired Waterbodies
<b>Landmarks</b>	<b>Pinnipeds Haulouts</b>	Eelgrass	Impaired Rivers
Airport	California sea lion	Coastal Salt Marsh	Submarine Canyons
Beach / Coastal Access	Harbor seal	Estuaries	<b>Predicted substrate (Fine Scale)</b>
Lighthouse	Steller sea lion	Rivers	Unknown
Major City	Pinniped Rookeries	<b>Shore Types</b>	Hard
Town	<b>Roads</b>	Beaches	Soft
Coastal Point	Major Roads	Coastal Marsh	
Educational Institutions	State Highways	Hardened Shores	
Monitoring Sites	US Highways	Rocky Shores	
		Tidal Flats	
		Watersheds	

California Locality

Sheet Index

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**1:63,360**  
1 in = 1 Statute Mile



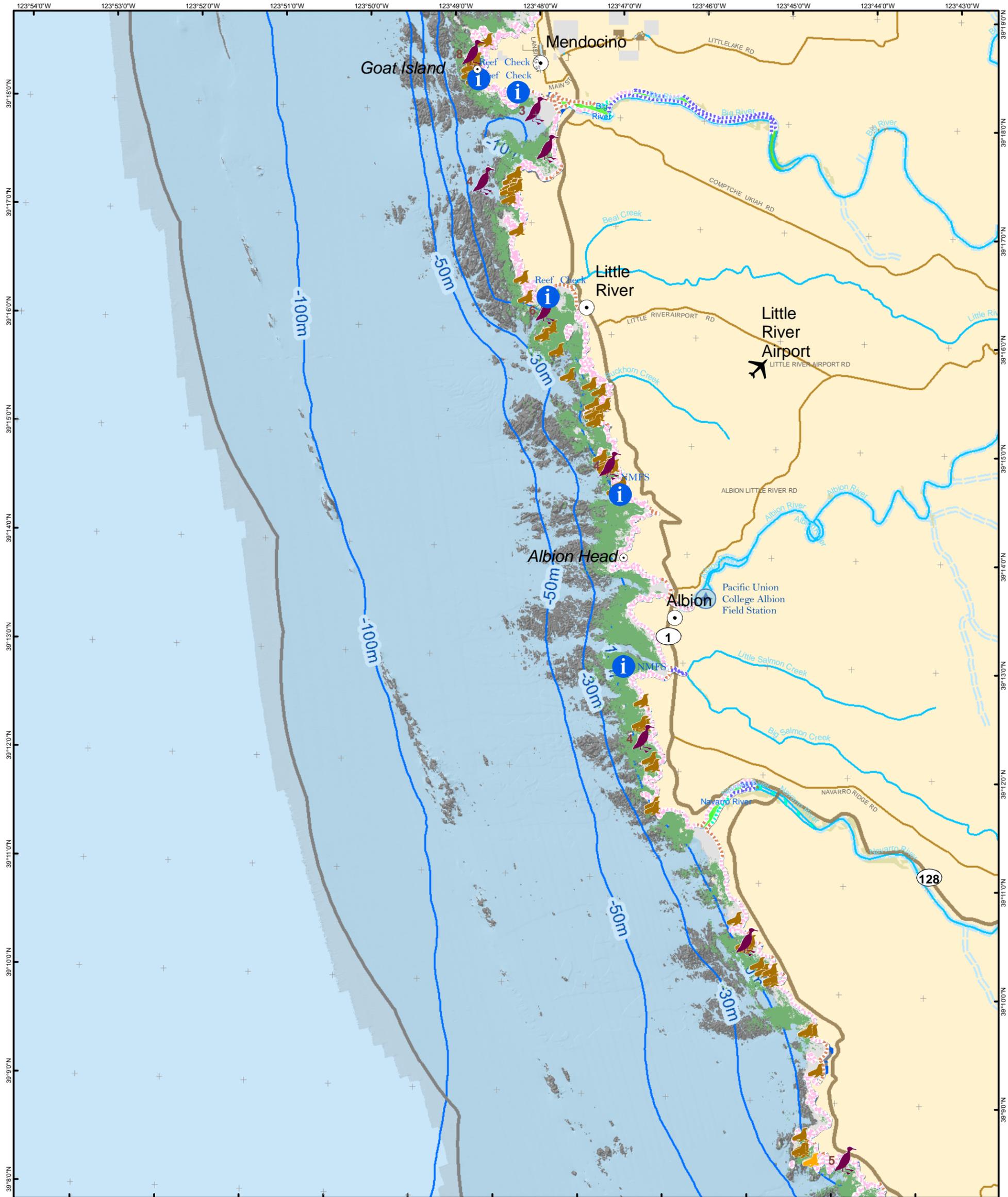
Study Region Boundary	Seabird Colonies (Number of Species)	Kelp Beds	Impaired Waterbodies
<b>Landmarks</b>	<b>Pinnipeds Haulouts</b>	Eelgrass	Impaired Rivers
Airport	California sea lion	Coastal Salt Marsh	Submarine Canyons
Beach /Coastal Access	Harbor seal	Estuaries	<b>Predicted substrate (Fine Scale)</b>
Lighthouse	Steller sea lion	Rivers	Unknown
Major City	Pinniped Rookeries	<b>Shore Types</b>	Hard
Town	<b>Roads</b>	Beaches	Soft
Coastal Point	Major Roads	Coastal Marsh	Watersheds
Educational Institutions	State Highways	Hardened Shores	
Monitoring Sites	US Highways	Rocky Shores	
		Tidal Flats	

California Locality

Sheet Index

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**1:63,360**  
1 in = 1 Statute Mile



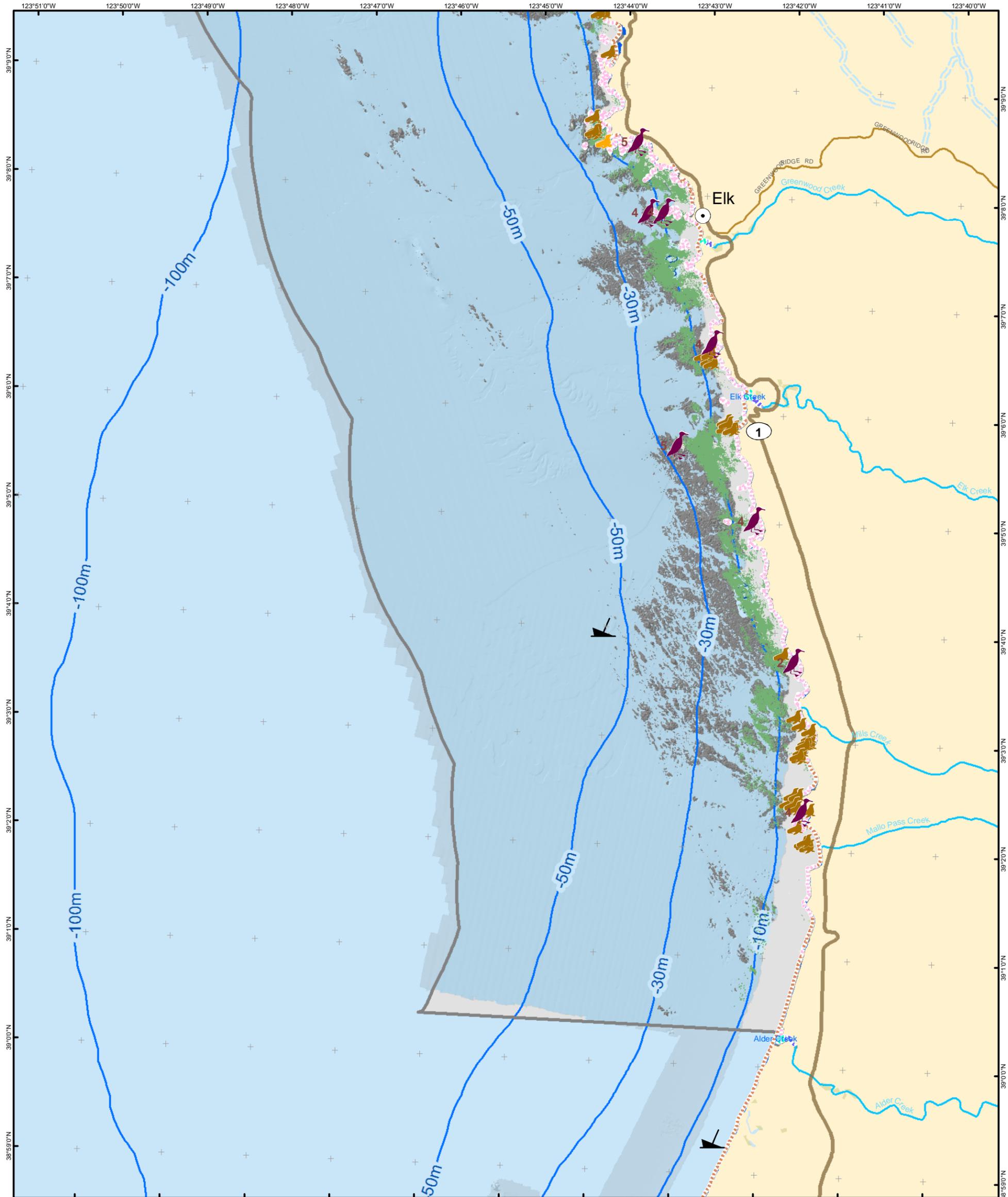
Study Region Boundary	Seabird Colonies (Number of Species)	Kelp Beds	Impaired Waterbodies
<b>Landmarks</b>	Shipwrecks	Eelgrass	Impaired Rivers
Airport	<b>Pinnipeds Haulouts</b>	Coastal Salt Marsh	Submarine Canyons
Beach /Coastal Access	California sea lion	Estuaries	<b>Predicted substrate (Fine Scale)</b>
Lighthouse	Harbor seal	Rivers	Unknown
Major City	Steller sea lion	<b>Shore Types</b>	Hard
Town	Pinniped Rookeries	Beaches	Soft
Coastal Point	<b>Roads</b>	Coastal Marsh	Watersheds
Educational Institutions	Major Roads	Hardened Shores	
Monitoring Sites	State Highways	Rocky Shores	
	US Highways	Tidal Flats	

California Locality

Sheet Index

0 0.5 1 2 Nautical Miles  
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**1:63,360**  
1 in = 1 Statute Mile



Study Region Boundary	Seabird Colonies (Number of Species)	Kelp Beds	Impaired Waterbodies
<b>Landmarks</b>	Shipwrecks	Eelgrass	Impaired Rivers
Airport	<b>Pinnipeds Haulouts</b>	Coastal Salt Marsh	Submarine Canyons
Beach /Coastal Access	California sea lion	Estuaries	<b>Predicted substrate (Fine Scale)</b>
Lighthouse	Harbor seal	Rivers	Unknown
Major City	Steller sea lion	<b>Shore Types</b>	Hard
Town	Pinniped Rookeries	Beaches	Soft
Coastal Point	<b>Roads</b>	Coastal Marsh	
Educational Institutions	Major Roads	Hardened Shores	
Monitoring Sites	State Highways	Rocky Shores	
	US Highways	Tidal Flats	
		Watersheds	

California Locality

Sheet Index

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0 0.5 1 2 Nautical Miles  
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**1:63,360**  
1 in = 1 Statute Mile

**Habitat & Species Atlas**

Map Sheet No:23

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## Appendix to Habitat and Species Atlas: Metadata

Layer	Metadata/Disclaimer	Source
Study Region Boundary		
Coastal Salt Marsh	It represents wetland areas in the MLPA South Coast Study Region vicinity.	NOAA CCAP
Depth Zones		NOAA, DFG bathymetric data
Eelgrass	To show eelgrass distribution on the central California coast.	Minerals Management Service and Eric VanDyke
Estuaries	Shows the location of coastal estuaries.	U.S. Fish and Wildlife Service - National Wetlands Inventory, NOAA - ESI
Kelp Beds	To display the maximum extent of kelp in California. The distribution of kelp represented on this map is derived from data collected by aerial surveys conducted by CDFG in 1989, 1999, 2002-2005, and 2008. Kelp distribution on this map represents the largest possible extent of kelp canopy and subsurface kelp based on these data, which represent the best readily available information.	California Department of Fish and Game
Educational Institutions	This layer depicts point locations of Research Institutions in the Marine Life Protection Act's North Coast Study Region.	CADFG Marine Region GIS Lab
Monitoring Sites	This dataset contains monitoring sites obtained from PISCO, Reef Check, and the National Marine Fisheries Service.	PISCO, Reef Check, NMFS
Pinniped Haulouts	This map depicts the locations of pinniped haulouts in the study region. In general, the positional precision of these data is low. The data were collected from 1999 to 2005.	Mammal Haulouts and Rookies - National Marine Fisheries Service <a href="http://swr.nmfs.noaa.gov/psd/rookeryhaulouts/index.htm">http://swr.nmfs.noaa.gov/psd/rookeryhaulouts/index.htm</a>
Pinniped Rookeries	This map depicts the locations of pinniped rookeries in the study region. In general, the positional precision of these data is low. The data were collected from 1999 to 2005.	Mammal Haulouts and Rookies - National Marine Fisheries Service <a href="http://swr.nmfs.noaa.gov/psd/rookeryhaulouts/index.htm">http://swr.nmfs.noaa.gov/psd/rookeryhaulouts/index.htm</a>
Predicted Substrate Fine Scale	Substrate data included here represent the preliminary results of an effort to comprehensively map California state waters launched by the California State Coastal Conservancy, Ocean Protection Council, Department of Fish and Game, and the NOAA National Marine Sanctuary Program. The ultimate goal is the creation of a high-resolution 1:24,000 scale geologic and habitat base map series covering all of California's 14,500 km <sup>2</sup> state waters out to the 3 mile limit. The benthic substrate classifications provided here are not derived through traditional geologic interpretations but are algorithmically defined using seafloor roughness (rugosity analysis) as a proxy for determining what is likely to be a rocky reef of significant relief and what is not. This method is used for the practical purposes of broadly generalizing habit for MPA planning and expedient delivery of information to this process. For the sake of simplicity, the categories are called "hard" and "soft", however, the limitations of the classification methods should be considered when using these terms.	SFML, Fugro Pelagos
Coarse Scale Substrate	Hard and Soft bottom habitats for California coast, including areas defined as sub-marine canyons. This is a summarized data set, it has been dissolved on the Induration attribute to produce a simpler file for analysis.	Pacific States Marine Fisheries Commission, National Marine Fisheries Service, Northwest Fisheries Science Center, Southwest Fisheries Science Center, Northwest Region, and Southwest Region
Research Institutions	This dataset corresponds to the locations listed in Table 6.2-1 of the MLPA North Coast Study Region Profile.	MLPA NCSR Profile
Shipwrecks		NOAA Electronic Navigational Charts
Shore types	This data set comprises the Environmental Sensitivity Index (ESI) maps for the shoreline of northern California. ESI data characterize coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats; sensitive biological resources; and human-use resources	NOAA, Coastal Change Analysis Program (C-CAP)
Submarine Canyons	This data set delineates geological seafloor characteristics of the continental margin of the United States West Coast. Seafloor types are classified according to Greene et. al. (1999) deep-water marine benthic habitat scheme. Seafloor feature interpretation was performed by West Coast geologic mapping experts as a synthesis of various source data sets, including side-scan sonar, bottom samples, seismic data, and multibeam bathymetry. The Active Tectonics and Seafloor Mapping Lab, College of Oceanic and Atmospheric Sciences, Oregon State University developed the data for Oregon and Washington. The Center for Habitat Studies, Moss Landing Marine Laboratories developed the data for California. The level of detail in seafloor type boundary delineation varies across the data set, based on the quantity and quality of original data sources.	Active Tectonics and Seafloor Mapping Lab, College of Oceanic and Atmospheric Sciences, Oregon State University (data development, Oregon and Washington), Center for Habitat Studies, Moss Landing Marine Labs
Seabird Colonies		Bird Colonies - NOAA/USF&W seabird colony database, The Nature Conservancy, The Nature Conservancy
Surf Grass	This data set is a subset of the larger data set which covers Washington, Oregon, and California. This data set has records selected which fall within the Central Coast MLPA study region northern and southern boundaries, extending westward beyond the 3 mile state limit.	NOAA, Environmental Sensitivity Index (ESI)
Watersheds	The California Interagency Watershed Map of 1999 (updated May 2004, "calw221") is the State of California's working definition of watershed boundaries. At all levels, a total of 7035 polygons represent the State's watersheds.	California Interagency Watershed Mapping Committee, California Department of Forestry and Fire Protection, Tierra Data Systems, California, Department of Water Resources, State Water Resources Control Board, California Department of Fish and Game, State of California Stephen P. Teale Data Center GIS Solutions Group
Predicted Substrate Fine Scale		
Impaired Rivers	This dataset contains California's 2006 Clean Water Act Section 303(d) list which is submitted by the California State Water Resources Control Board. The layer has been merged from 9 regional datasets. These GIS representations of the areal extent of affected waters are only an estimate, and should not be considered authoritative for the development of TMDLs or other regulatory actions.	State Water Resources Control Board (STWCB) and Regional Water Quality Control Boards (RWQCB)
Rivers	This hydrography layers consists of flowing waters (rivers and streams), standing waters (lakes and ponds), and wetlands -- both natural and manmade. Two separate feature types are represented: polygons (areas) and lines. Polygon features have attribute codes that identify water bodies such as lakes, wide river segments, or swamps. Line features have attribute codes that represent streams or shorelines.	U.S. Geological Survey, Teale Data Center GIS Solutions Group, U.S. Environmental Protection Agency, California Department of Fish and Game
Impaired Waterbodies	This dataset contains California's 2006 Clean Water Act Section 303(d) list which is submitted by the California State Water Resources Control Board. The layer has been merged from 9 regional datasets. These GIS representations of the areal extent of affected waters are estimated and should not be considered authoritative for the development of TMDLs (Total Maximum Daily Load) or other regulatory actions. The TMDL effort may ultimately address more or less areal extent than shown in these GIS files.	State Water Resources Control Board (SWRCB) and Regional Water Quality Control Boards (RWQCB)