

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.

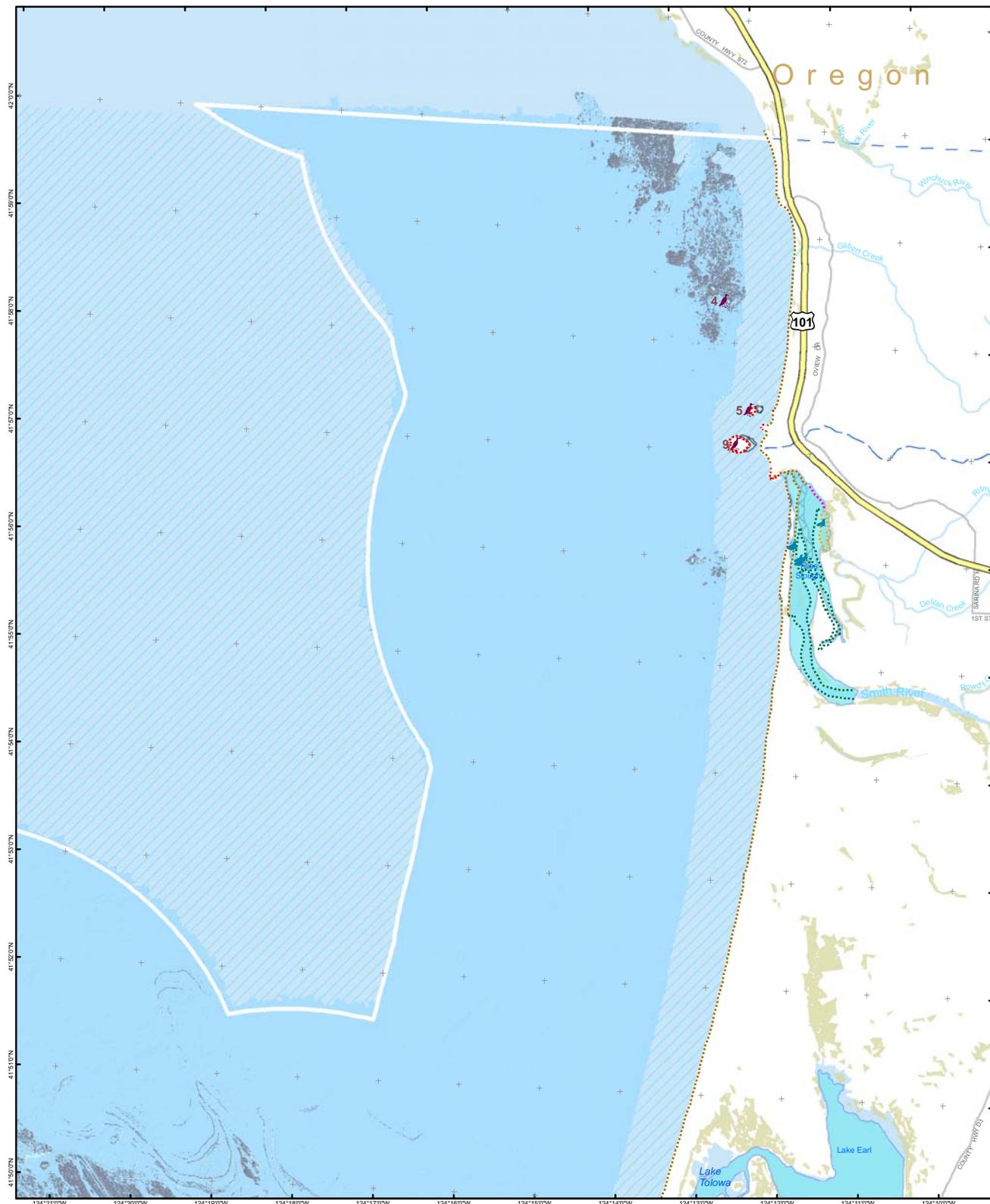
Page Number	Sheet Name
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2	St. George Reef
3	Crescent City
4	Klamath - North
5	Klamath - South
6	Reading Rock
7	Humboldt Lagoons
8	Trinidad
9	Mad River
10	Humboldt Bay - North
11	Humboldt Bay - South
12	Eel River
13	Cape Mendocino
14	Mattole
15	Punta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



California



North Coast Study Region



0 0.5 1 2 Nautical Miles
0 0.5 1 2 Statute Miles

1:63,360
Projection Information:
California Teale Albers
Datum: North American 1983

California Locality

1 in = 1 Statute Mile

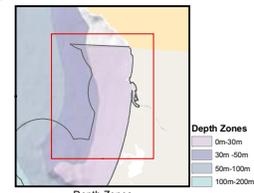
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Habitat & Species Atlas

Marine Life Protection Act Initiative
North Coast Study Region





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

1:63,360
 Projection Information:
 California State Plane
 Datum: North American 1983

California Locality

1 in = 1 Statute Mile

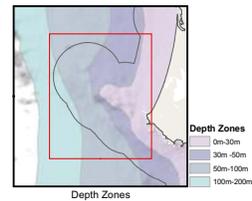
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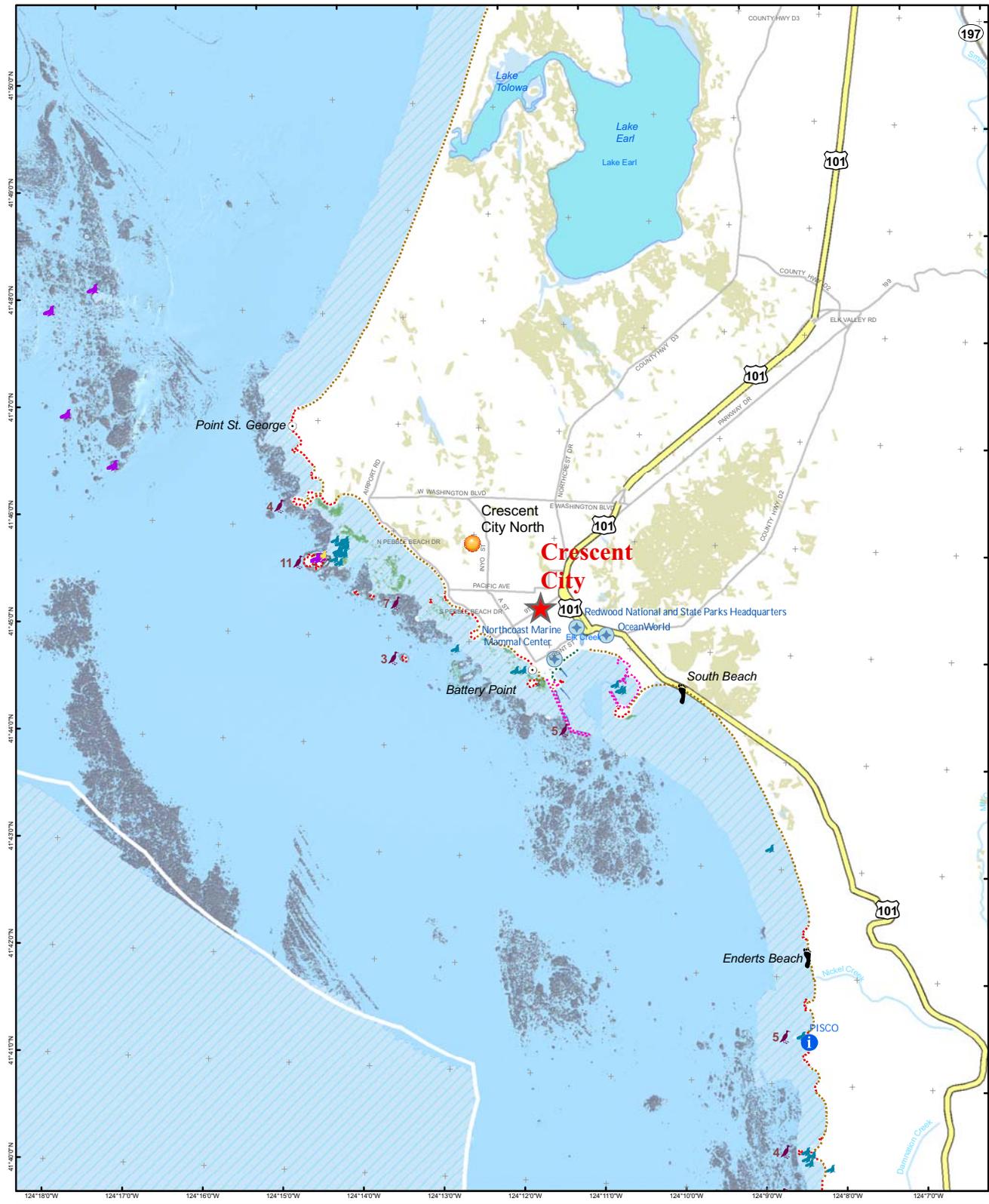
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 North Coast Study Region





0 0.5 1 2 Nautical Miles
0 0.5 1 2 Statute Miles

1:63,360
Projection Information:
California Teale Albers
Datum: North American 1983

California Locality

1 in = 1 Statute Mile

Scale bar and north arrow.

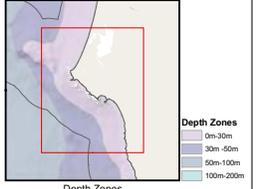
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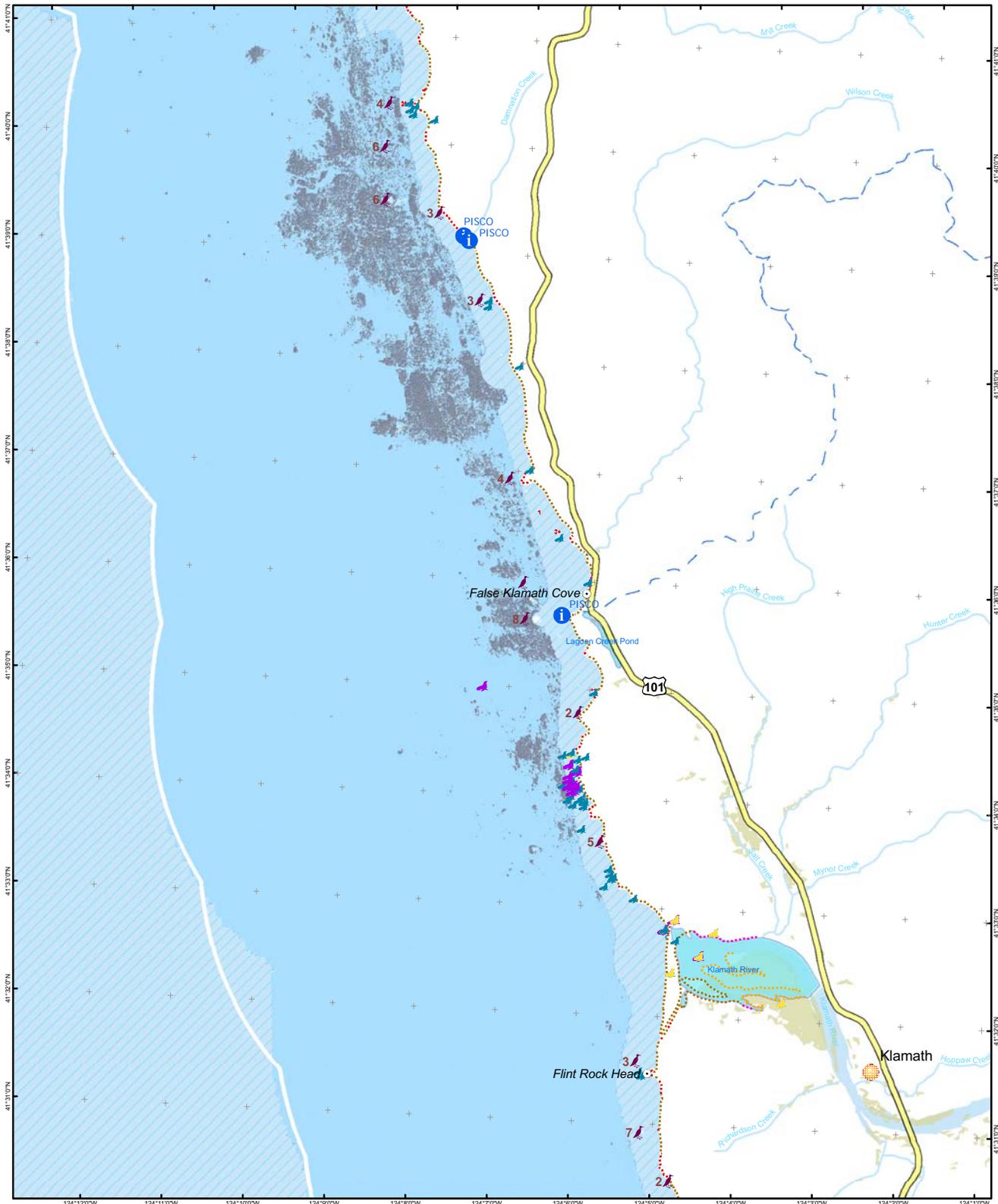
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North Coast Study Region





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Harbor seal	Pinniped Haulouts	Submarine Canyons
Lighthouse	Steller sea lion	Watersheds
Major City	Pinniped Rookeries	Kelp Beds
Town	Predicted substrate (Fine Scale)	Eelgrass
Educational Institutions	Shore Types	Course Scale Substrate
Monitoring Sites	Beaches	Hard
Major Roads	Coastal Marsh	Soft
State Highways	Hardened Shores	Unknown
US Highways	Rocky Shores	
	Tidal Flats	

0 0.5 1 2 Nautical Miles
0 0.5 1 2 Statute Miles

0 0.5 1 2 Kilometers

1:63,360

Projection Information:
California Teale Albers
Datum: North American 1983

California Locality

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Habitat & Species Atlas

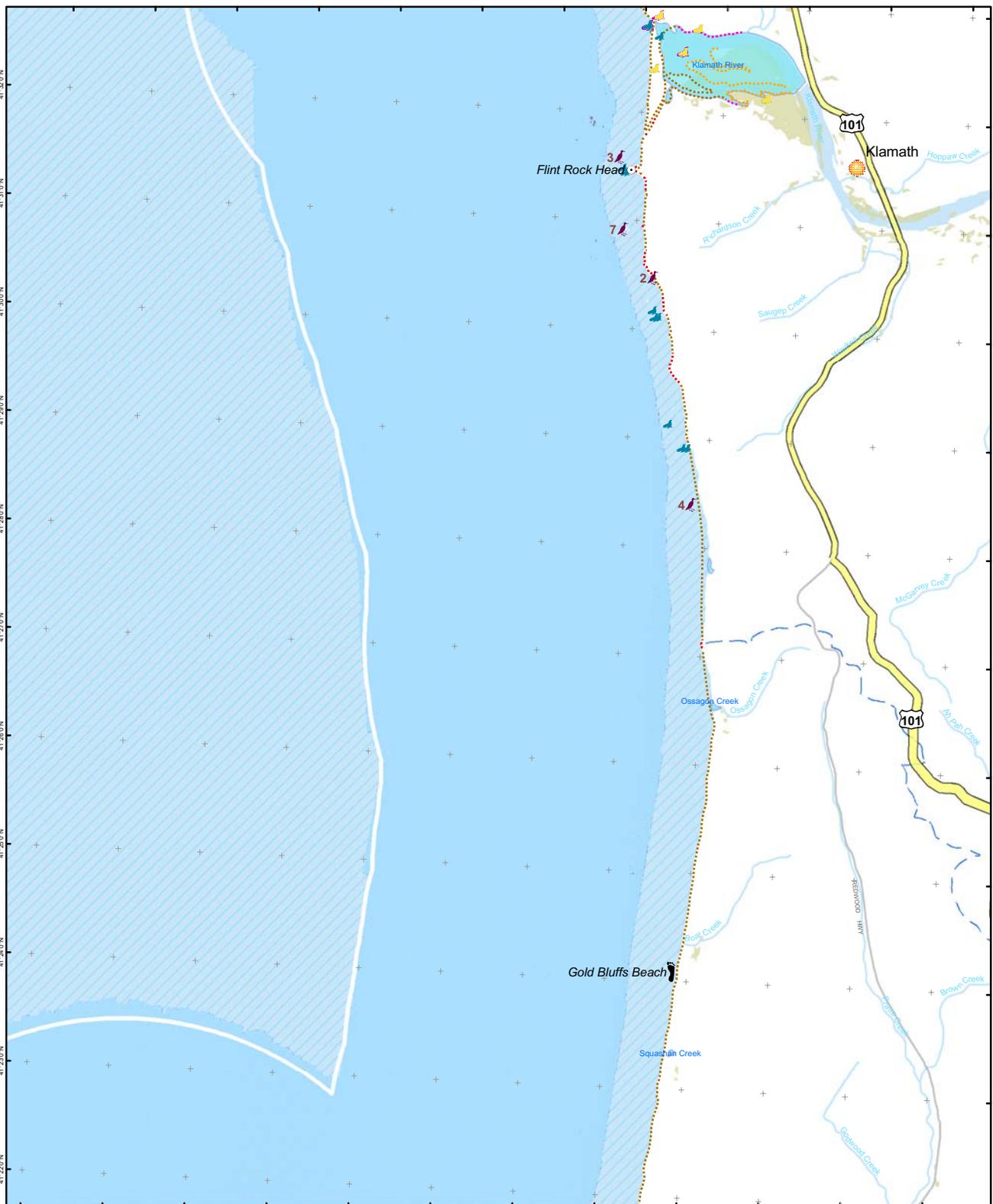
Marine Life Protection Act Initiative
North Coast Study Region

George Reef
Crescent City
Klamath - North
Klamath - South

Sheet Index

Depth Zones

- 0m-30m
- 30m-50m
- 50m-100m
- 100m-200m



Study Region Boundary	Shipwrecks	Estuaries
Place Names	Seabird Colonies (Number of Species)	Rivers
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Roads	Coastal Marsh	Hard
Major Roads	Hardened Shores	Course Scale Substrate
State Highways	Rocky Shores	Soft
US Highways	Tidal Flats	Unknown

California Locality

1:63,360

Projection Information:
California Teale Albers
Datum: North American 1983

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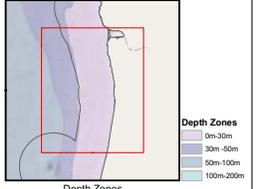
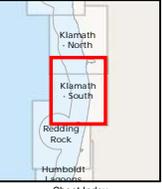
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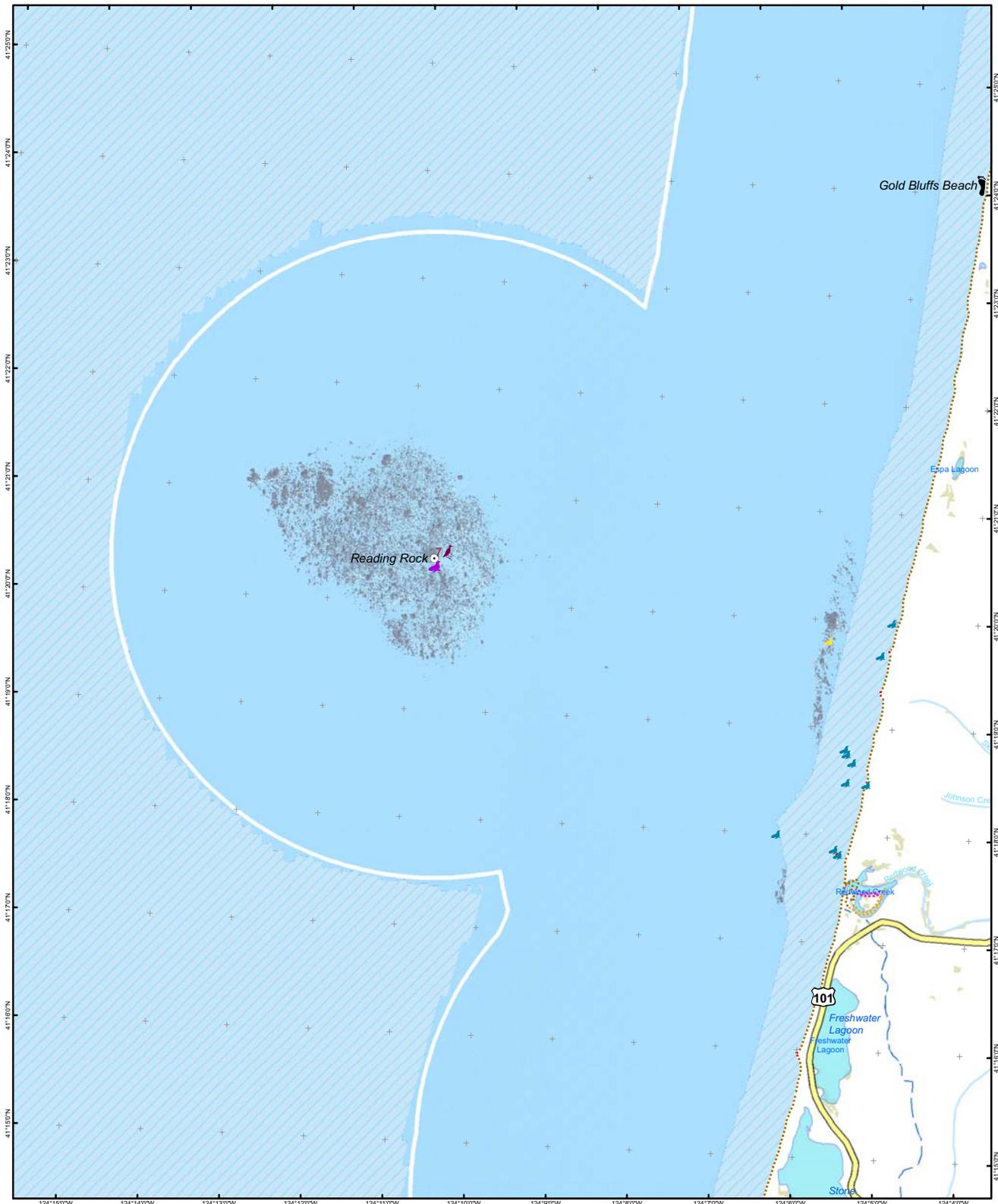
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California Locality

1:63,360
 Projection Information:
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 Datum: North American 1983

1 in = 1 Statute Mile

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Habitat & Species Atlas

Marine Life Protection Act Initiative
 North Coast Study Region

Depth Zones

- 0m-30m
- 30m-50m
- 50m-100m
- 100m-200m



		Predicted substrate (Fine Scale)
Roads		Course Scale Substrate

California Locality

1 in = 1 Statute Mile

Projection Information:
California State Plane
Datum: North American 1983

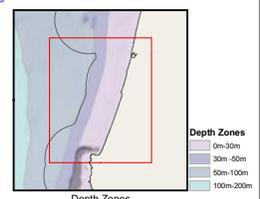
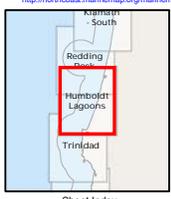
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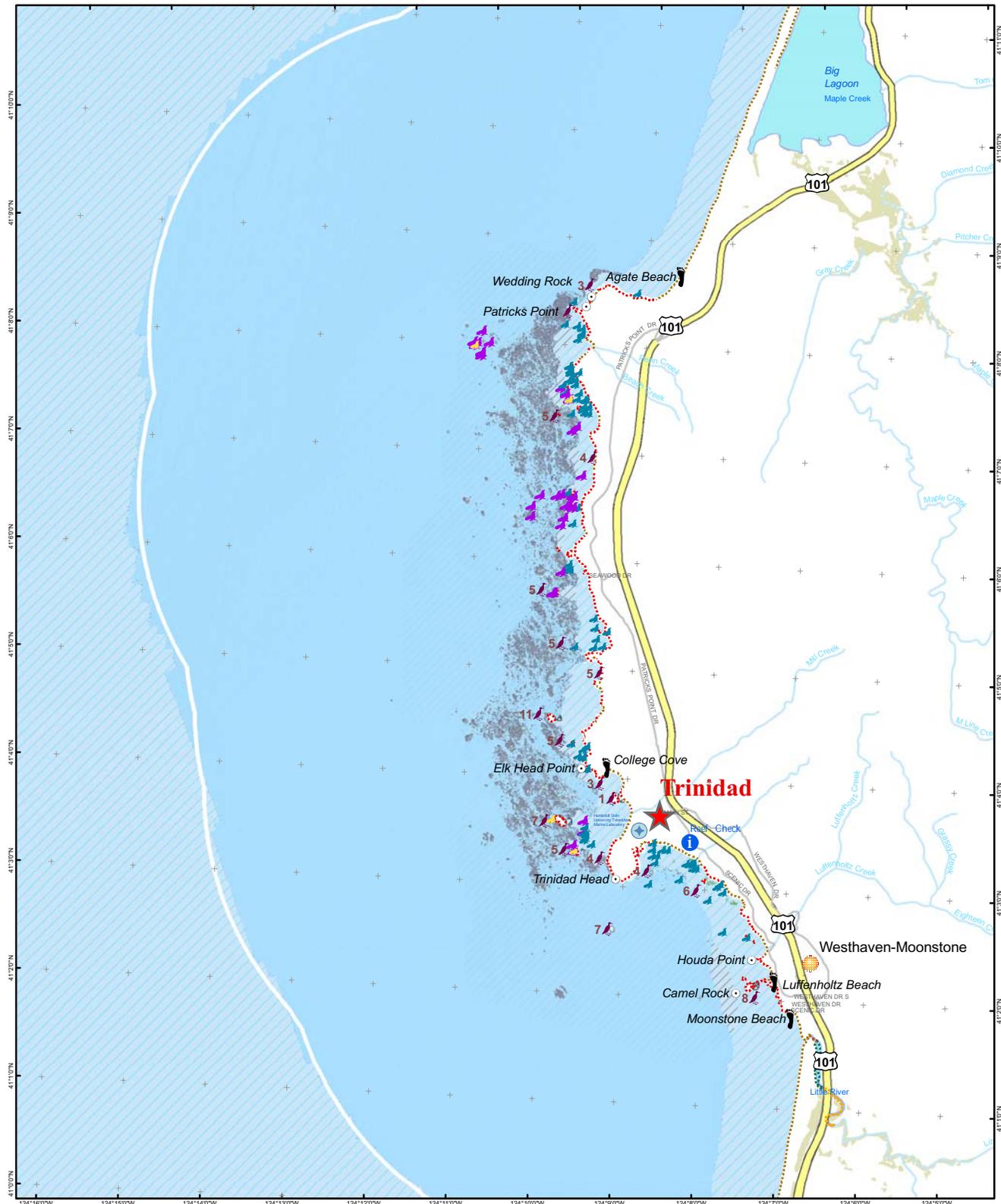
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Coastal Point	Harbor seal	Watersheds
Lighthouse	Steller sea lion	Kelp Beds
Major City	Pinniped Rockeries	Eelgrass
Town	Predicted substrate (Fine Scale)	Soft
Educational Institutions	Shore Types	Hard
Monitoring Sites	Beaches	Course Scale Substrate
Major Roads	Coastal Marsh	Soft
State Highways	Hardened Shores	Hard
US Highways	Rocky Shores	Unknown
	Tidal Flats	

1 in = 1 Statute Mile

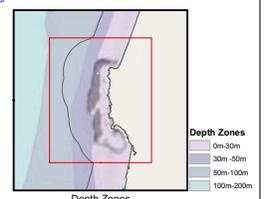
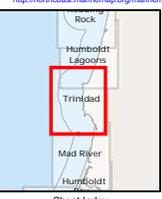
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North Coast Study Region





0 0.5 1 2 Nautical Miles
0 0.5 1 2 Statute Miles
0 0.5 1 2 Kilometers

1:63,360
Projection Information:
California State Albers
Datum: North American 1983

California Locality

1 in = 1 Statute Mile

North
South
East
West

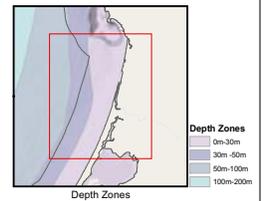
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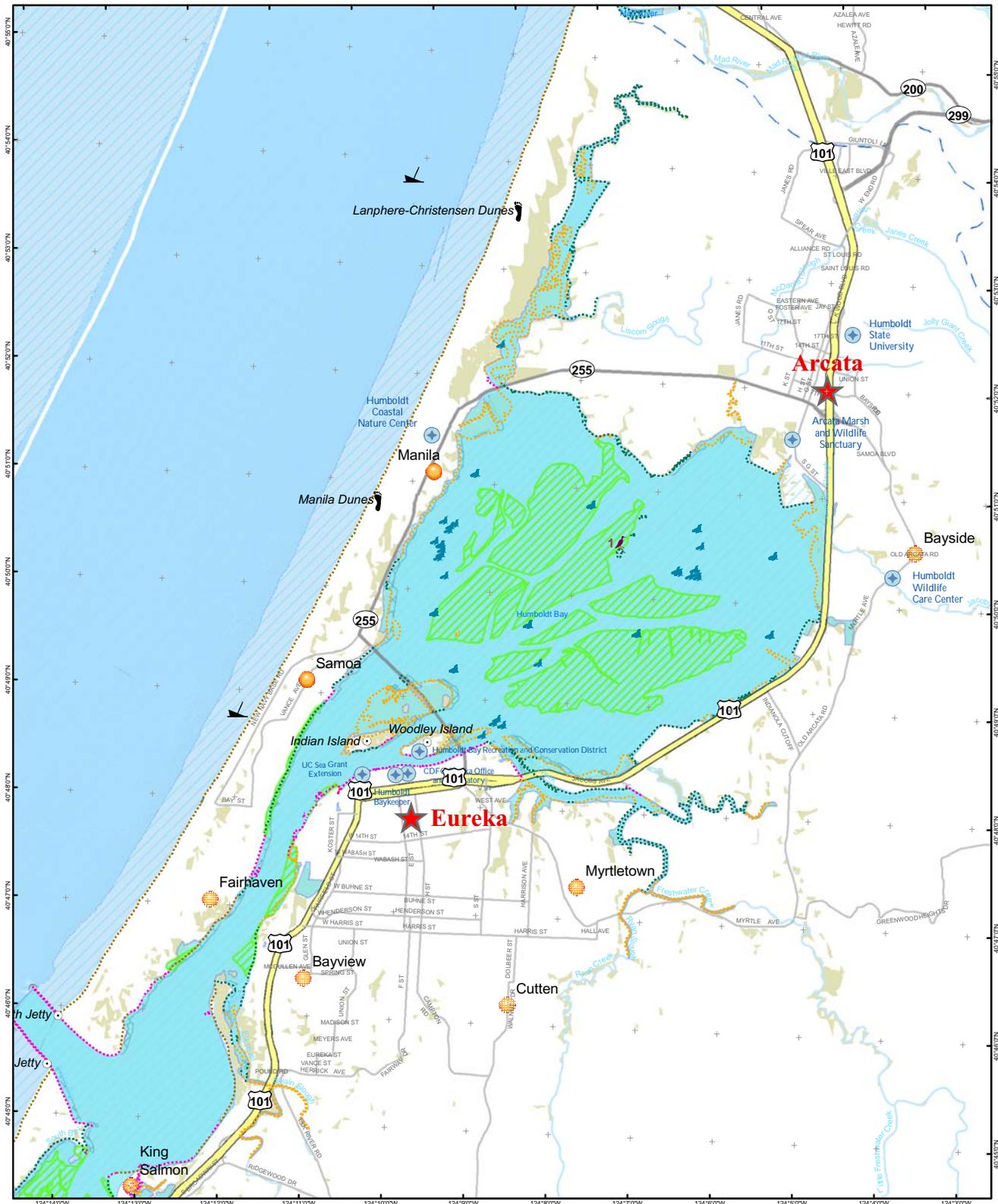
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California Locality

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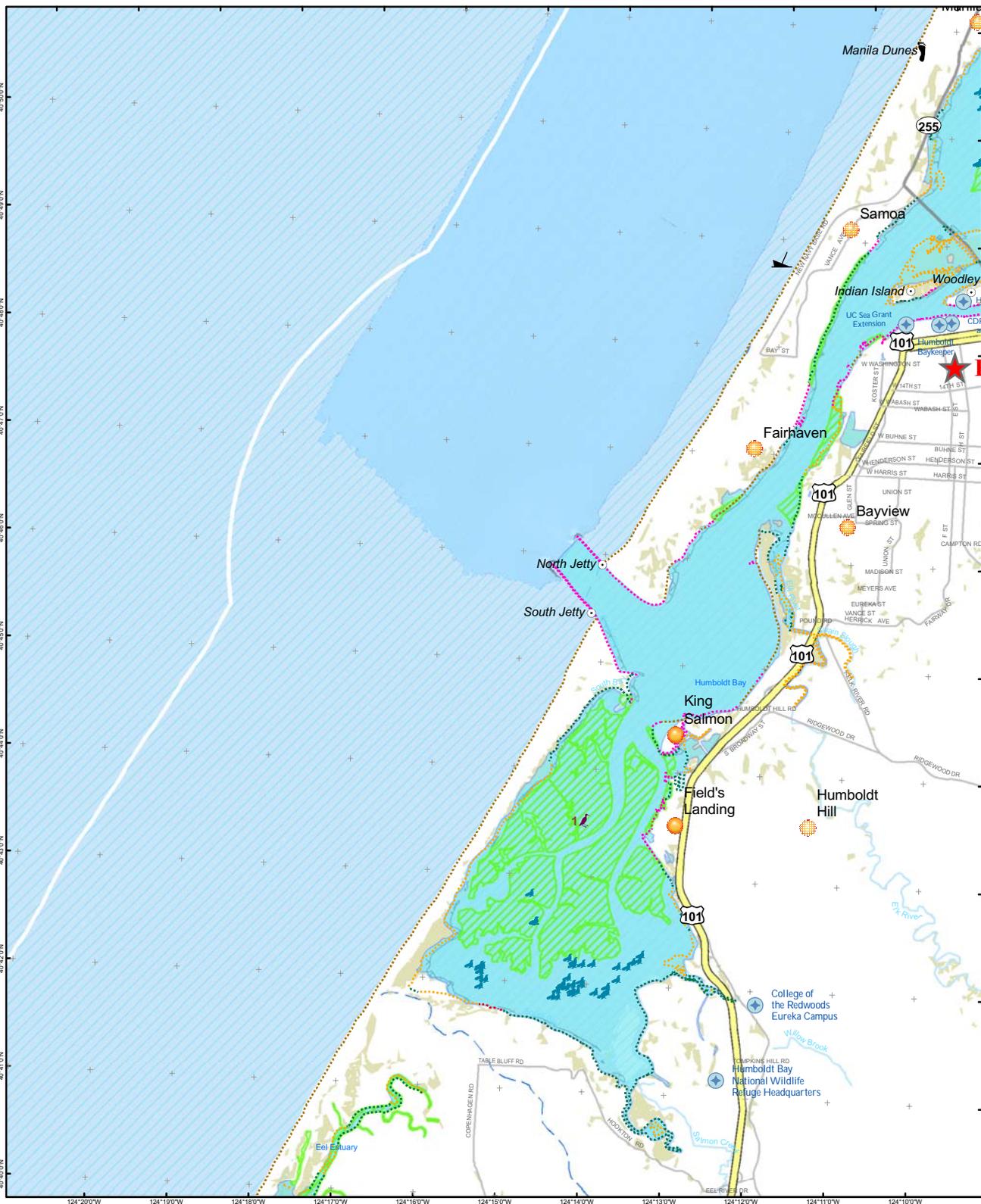
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Habitat & Species Atlas

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North Coast Study Region

Depth Zones

- 0m-30m
- 30m-50m
- 50m-100m
- 100m-200m



California Locality

1:63,360

Projection Information:
California State Albers
Datum: North American 1983

1 in = 1 Statute Mile

Scale bars: 0 to 2 Nautical Miles, 0 to 2 Statute Miles, 0 to 2 Kilometers.

North arrow.

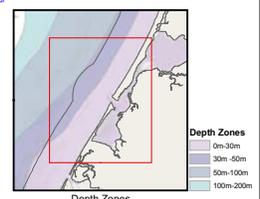
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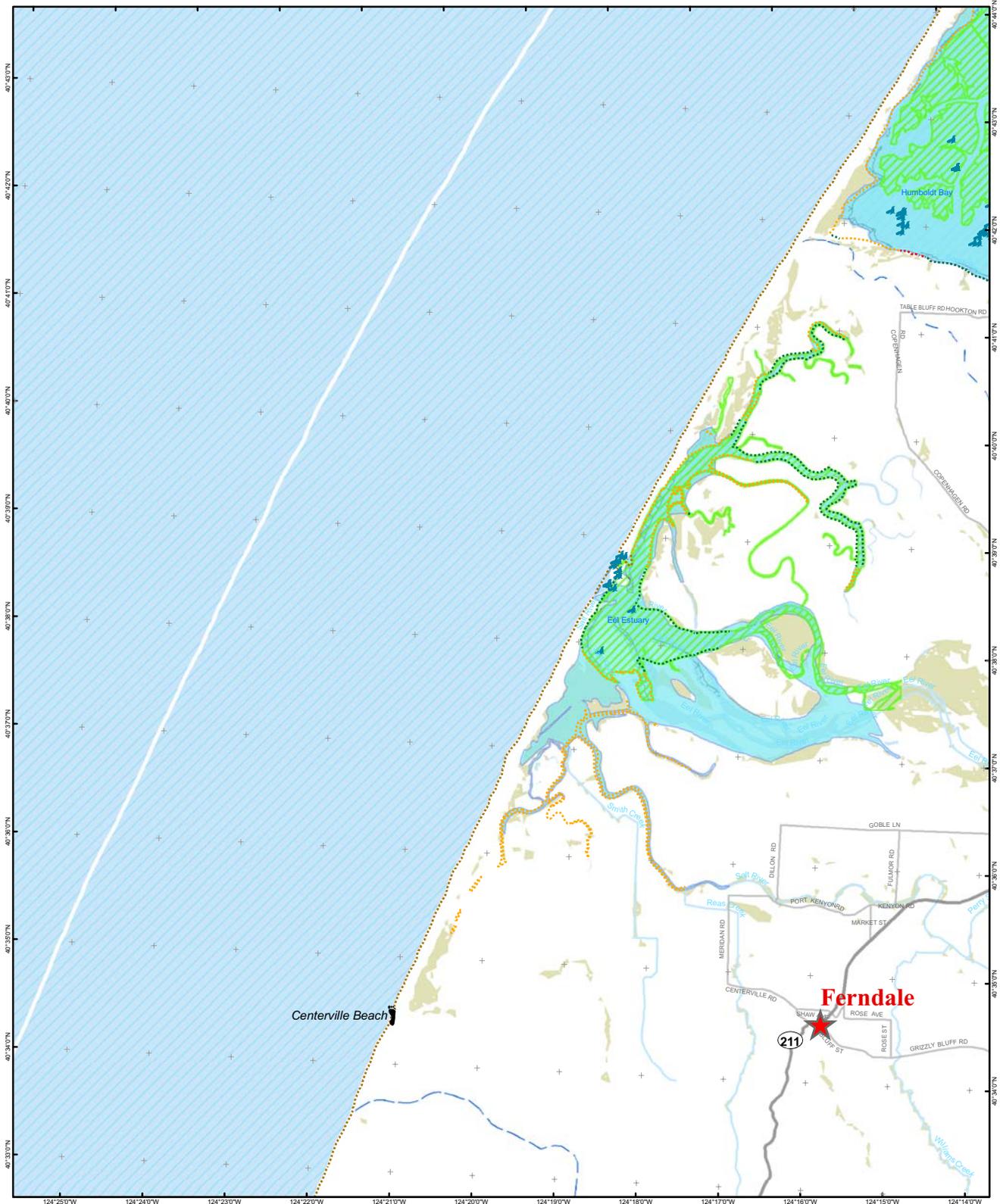
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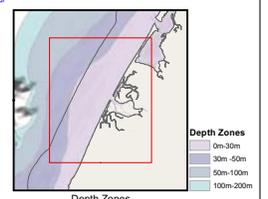
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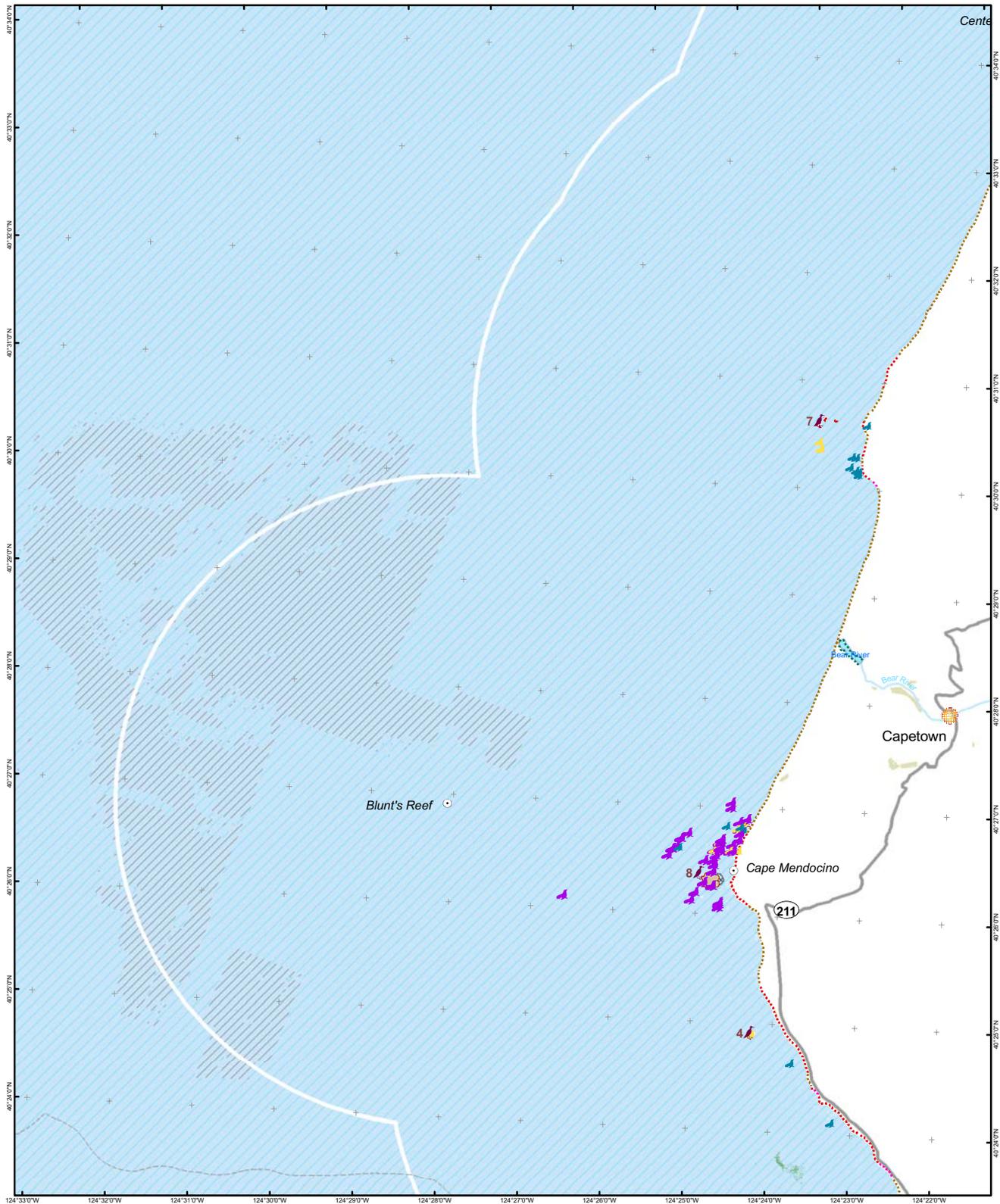
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North Coast Study Region





	Piniped Haulouts	
	Predicted substrate (Fine Scale)	
Roads		Course Scale Substrate

1:63,360
 Projection Information:
 California State Plane
 Datum: North American 1983

1 in = 1 Statute Mile

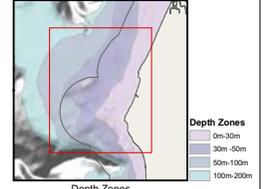
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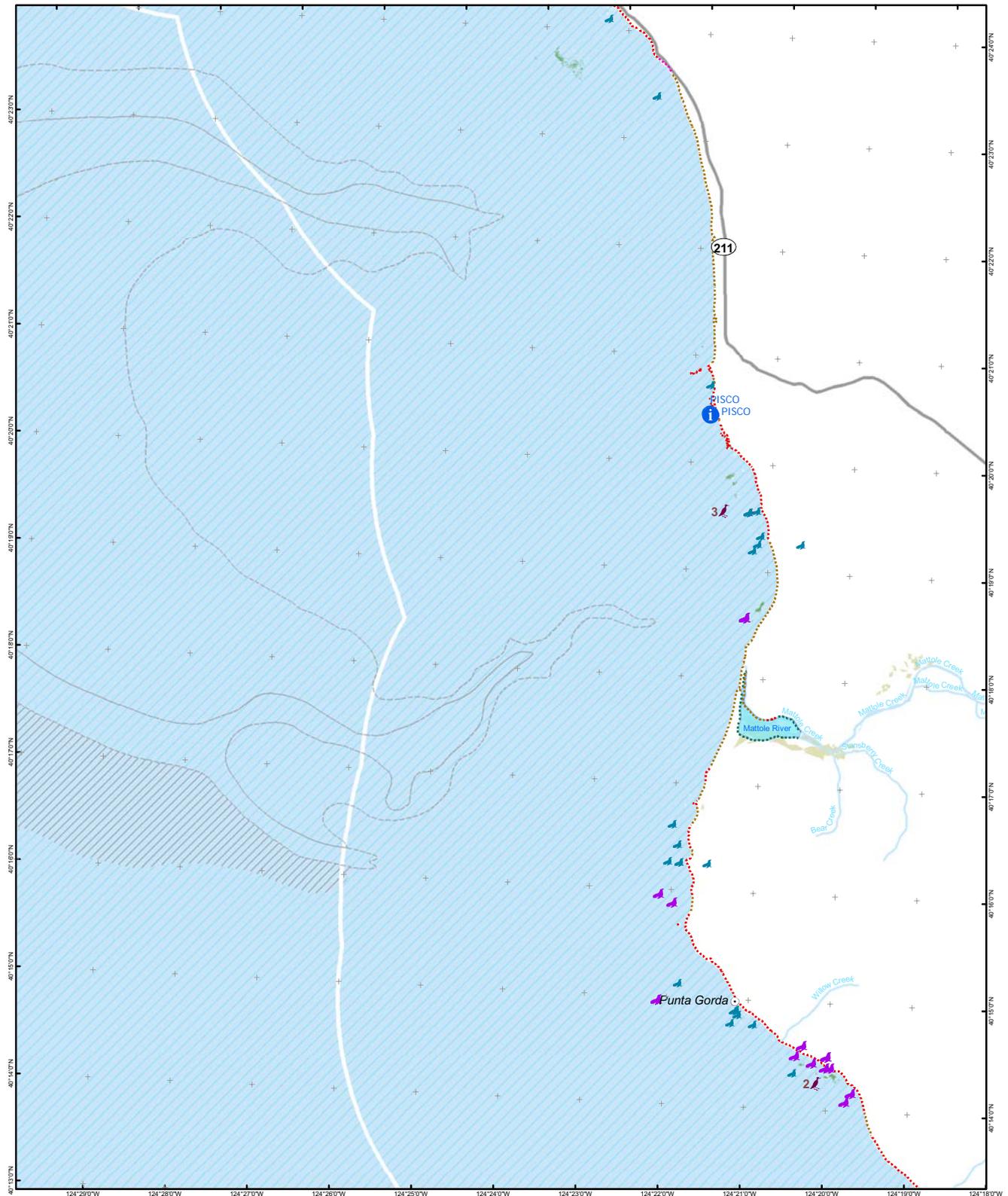
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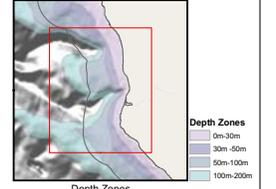
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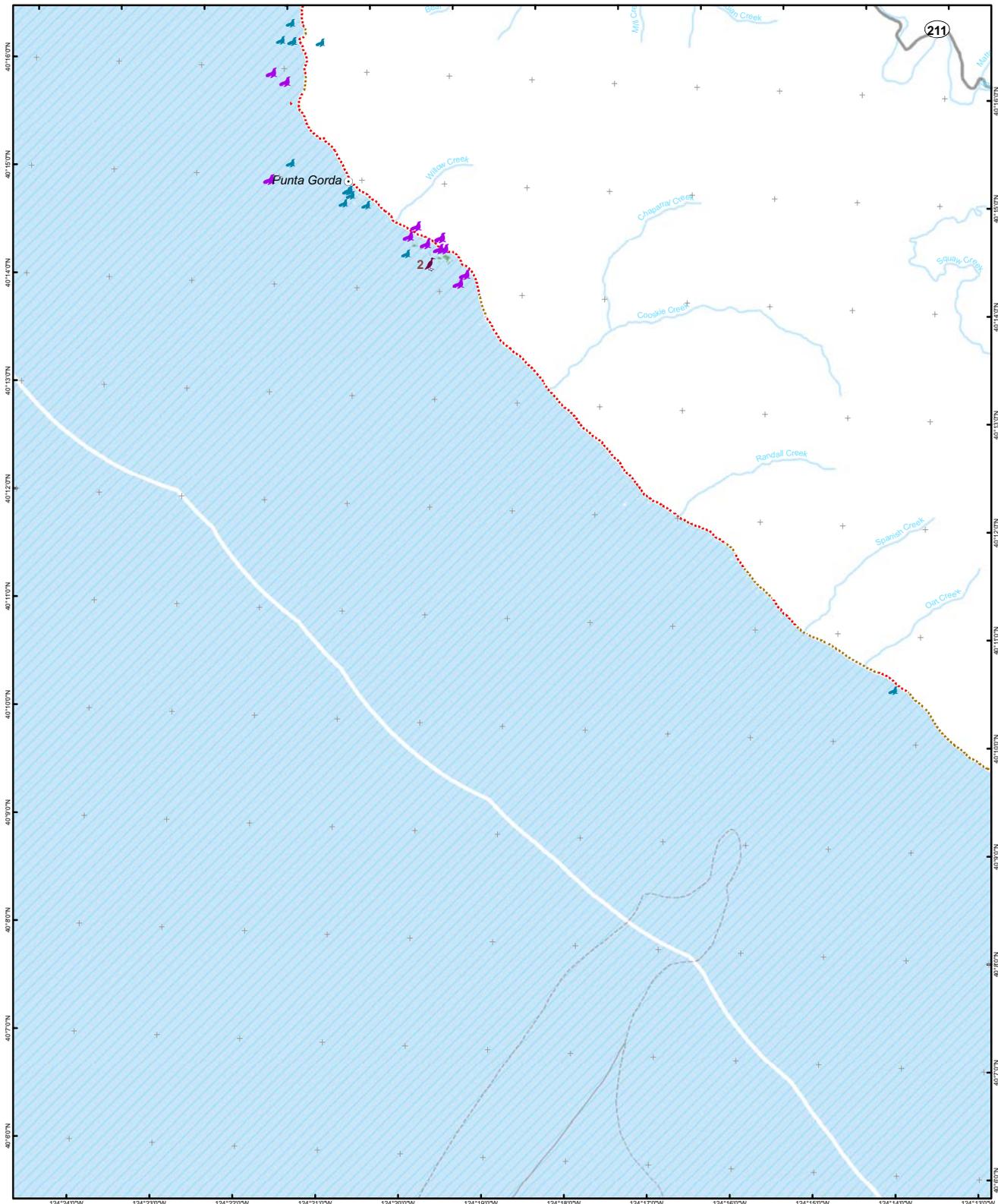
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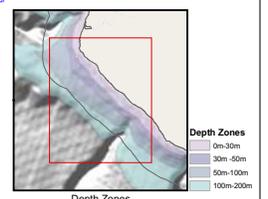
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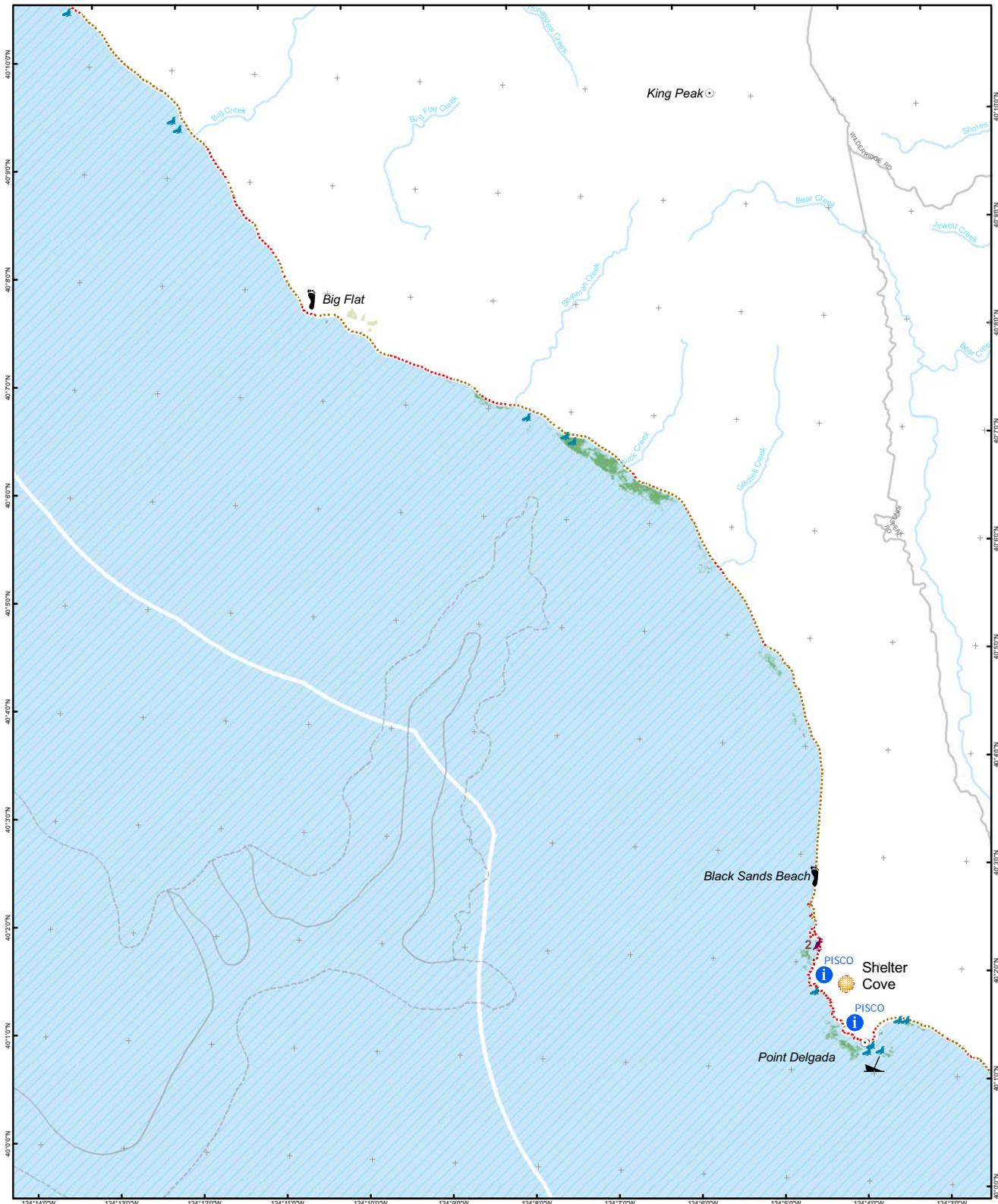
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Habitat & Species Atlas

Marine Life Protection Act Initiative
North Coast Study Region





Place Names		
	Pinpointed Haulouts	
	Predicted substrate (Fine Scale)	
	Shore Types	Course Scale Substrate

California Locality

1:63,360

Projection Information:
California State Plane
Datum: North American 1983

1 in = 1 Statute Mile

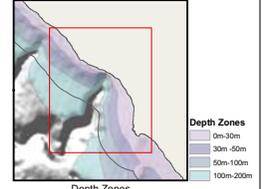
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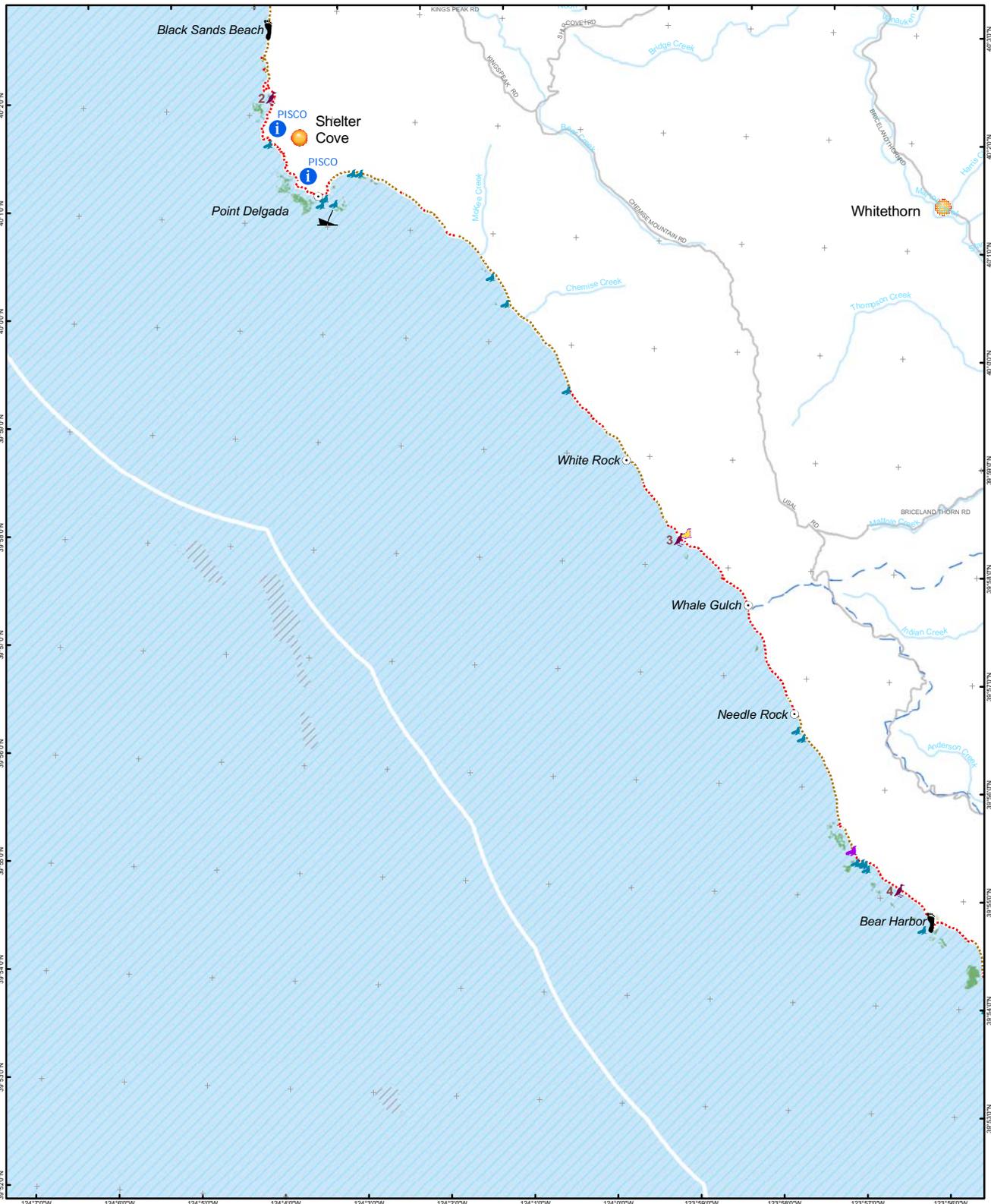
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Habitat & Species Atlas

Marine Life Protection Act Initiative
North Coast Study Region





Place Names		
	Pinniped Haulouts	
	Predicted substrate (Fine Scale)	
	Shore Types	Course Scale Substrate

California Locality

1:63,360
 Projection Information:
 California Teaks Albers
 Datum: North American 1983

0 0.5 1 2 Nautical Miles
 0 0.5 1 2 Statute Miles
 0 0.5 1 2 Kilometers

1 in = 1 Statute Mile

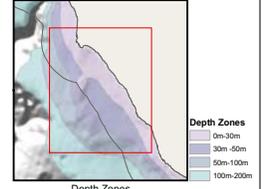
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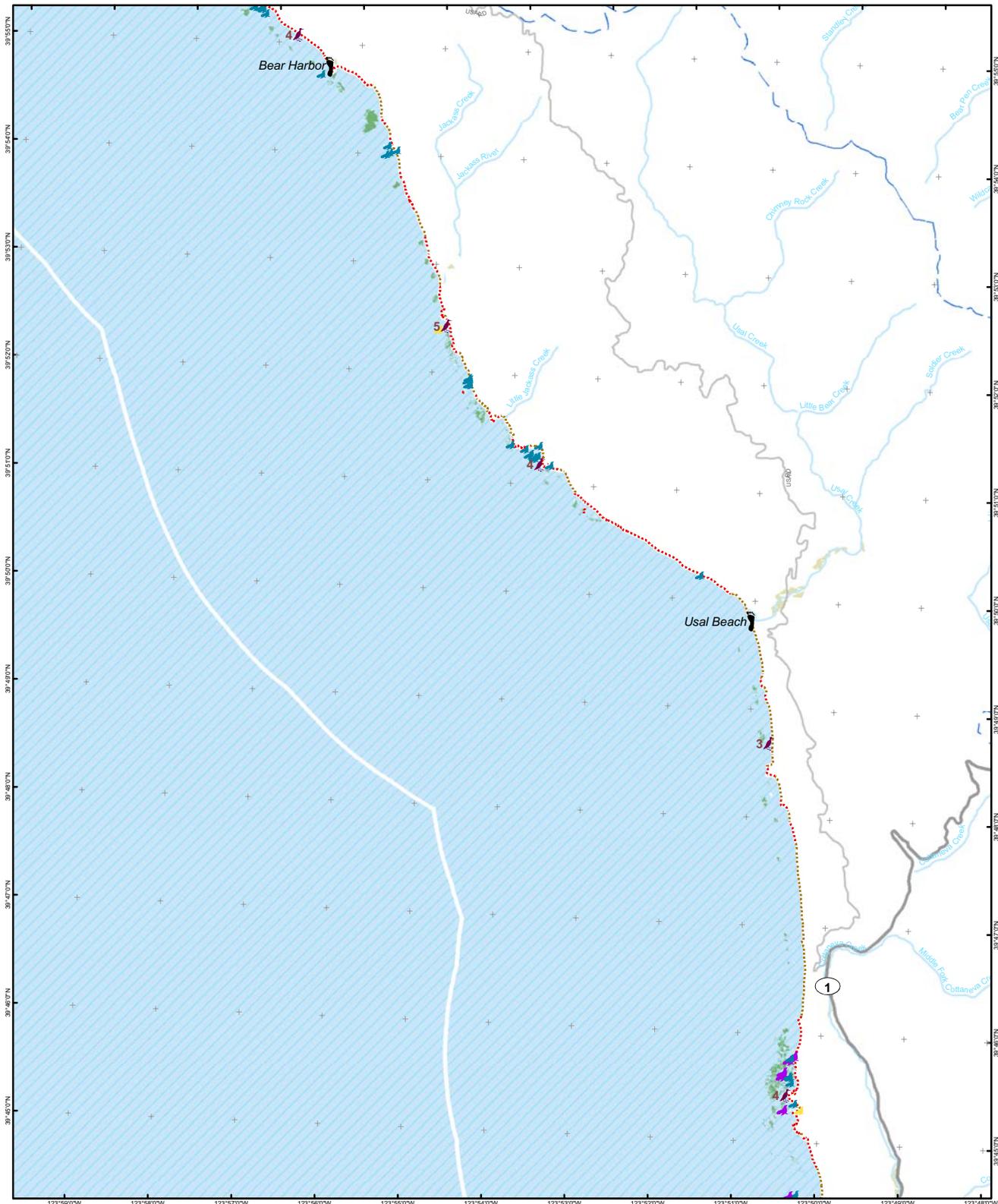
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Habitat & Species Atlas

Marine Life Protection Act Initiative
 North Coast Study Region





1:63,360
 Projection Information:
 California Teale Albers
 Datum: North American 1983
 1 in = 1 Statute Mile

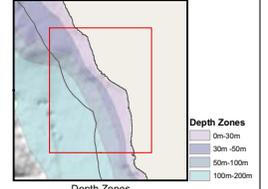
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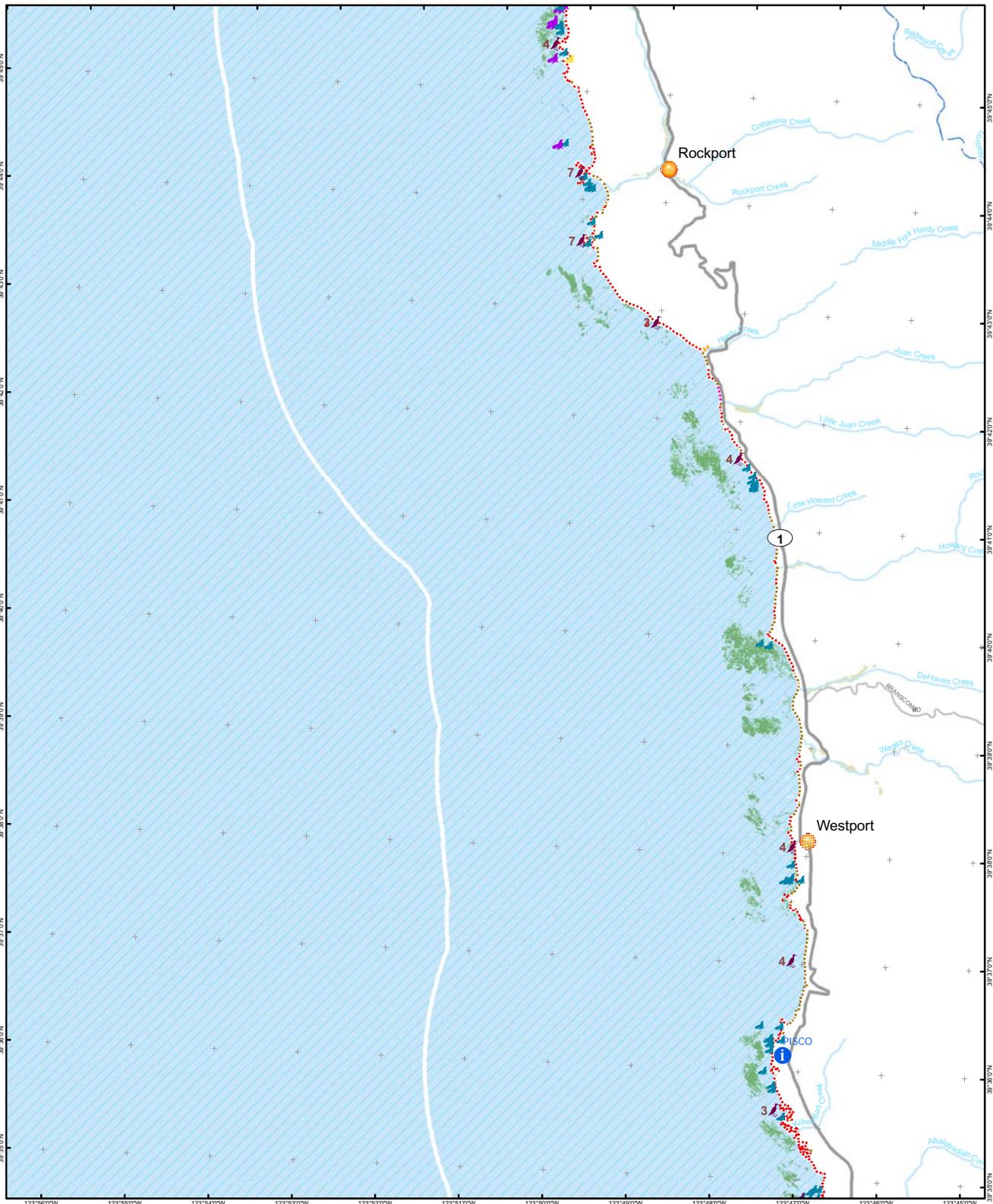
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Habitat & Species Atlas

Marine Life Protection Act Initiative
 North Coast Study Region





California Locality

1:63,360
 Projection Information:
 California Teale Albers
 Datum: North American 1983

1 in = 1 Statute Mile

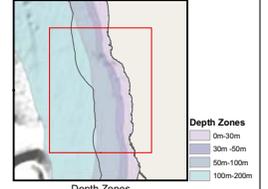
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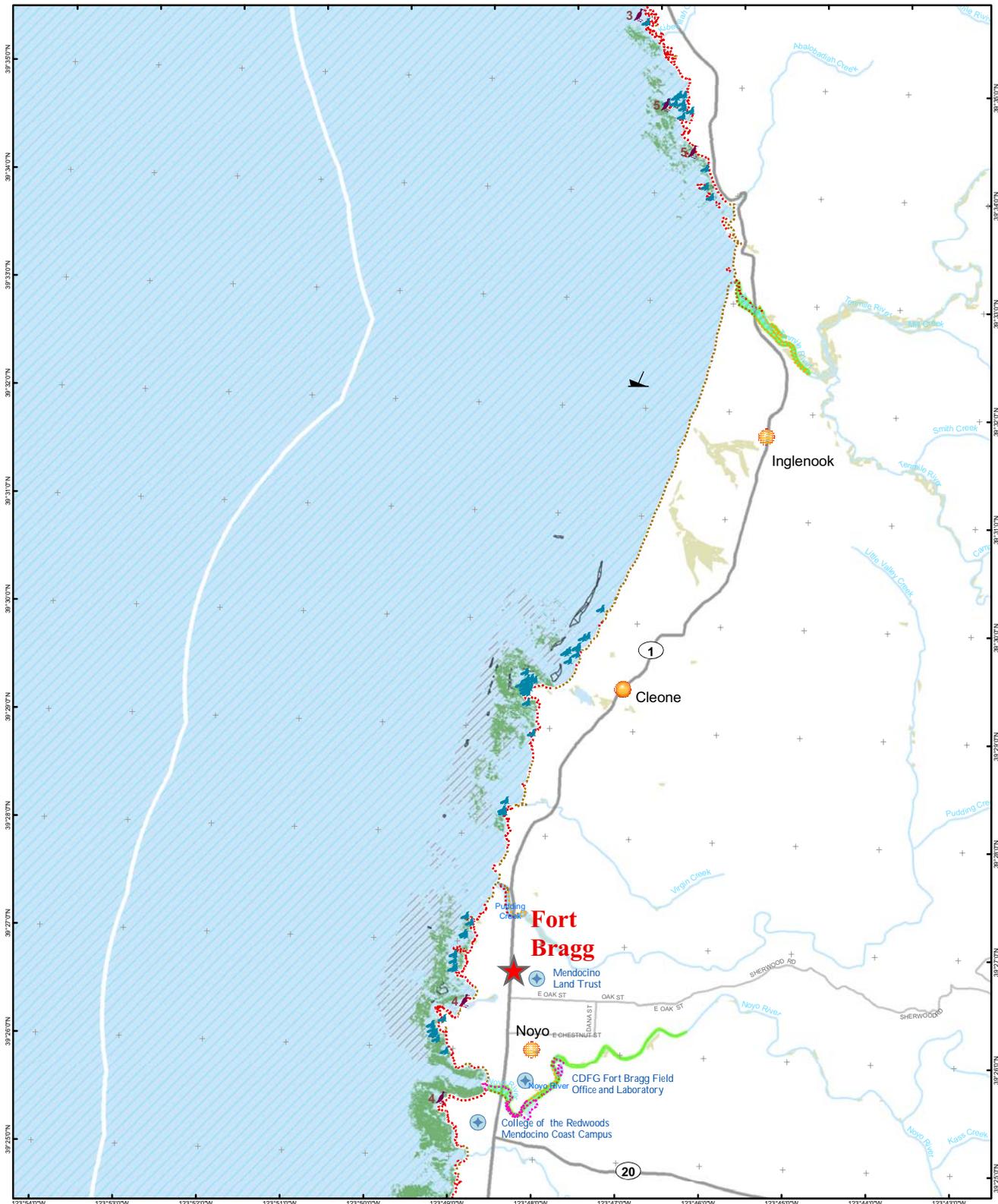
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Habitat & Species Atlas

Marine Life Protection Act Initiative
 North Coast Study Region





0 0.5 1 2 Nautical Miles
0 0.5 1 2 Statute Miles
0 0.5 1 2 Kilometers

1:63,360
Projection Information:
California State Albers
Datum: North American 1983

California Locality

1 in = 1 Statute Mile

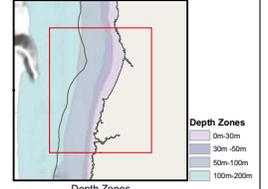
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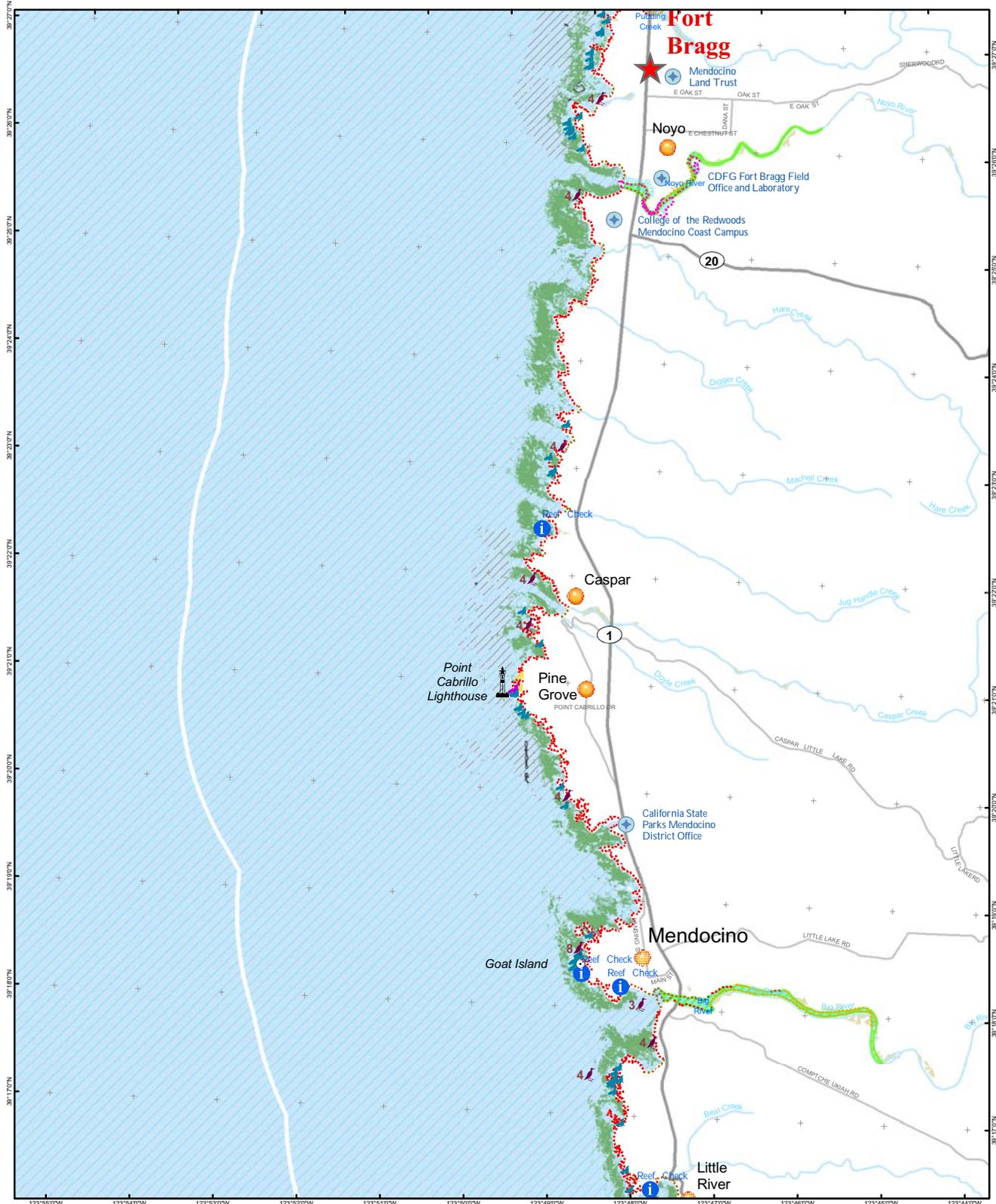
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Habitat & Species Atlas

Marine Life Protection Act Initiative
North Coast Study Region





Legend

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

Scale

0 0.5 1 2 Nautical Miles
0 0.5 1 2 Statute Miles
0 0.5 1 2 Kilometers

1:63,360
Projection Information:
California State Plane
Datum: North American 1983

California Locality

1 in = 1 Statute Mile

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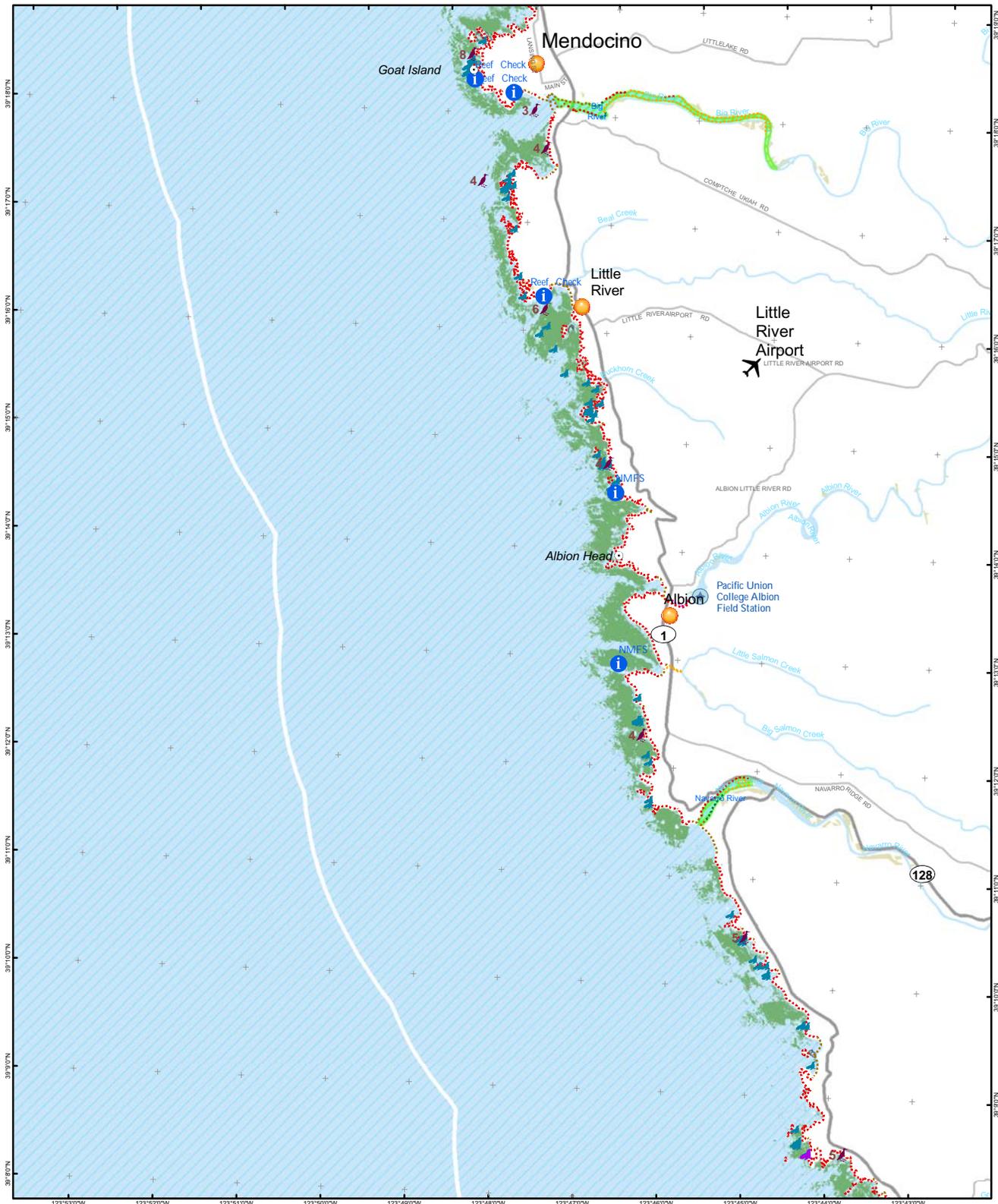
Habitat & Species Atlas

Marine Life Protection Act Initiative
North Coast Study Region

Sheet Index

Depth Zones

- 0m-30m
- 30m-50m
- 50m-100m
- 100m-200m



	Pinniped Haulouts	
	Predicted substrate (Fine Scale)	

0 0.5 1 2 Nautical Miles
0 0.5 1 2 Statute Miles
0 0.5 1 2 Kilometers

1:63,360
Projection Information:
California Teale Albers
Datum: North American 1983

California Locality

1 in = 1 Statute Mile

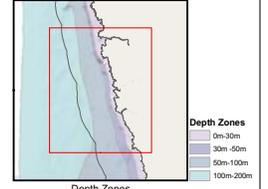
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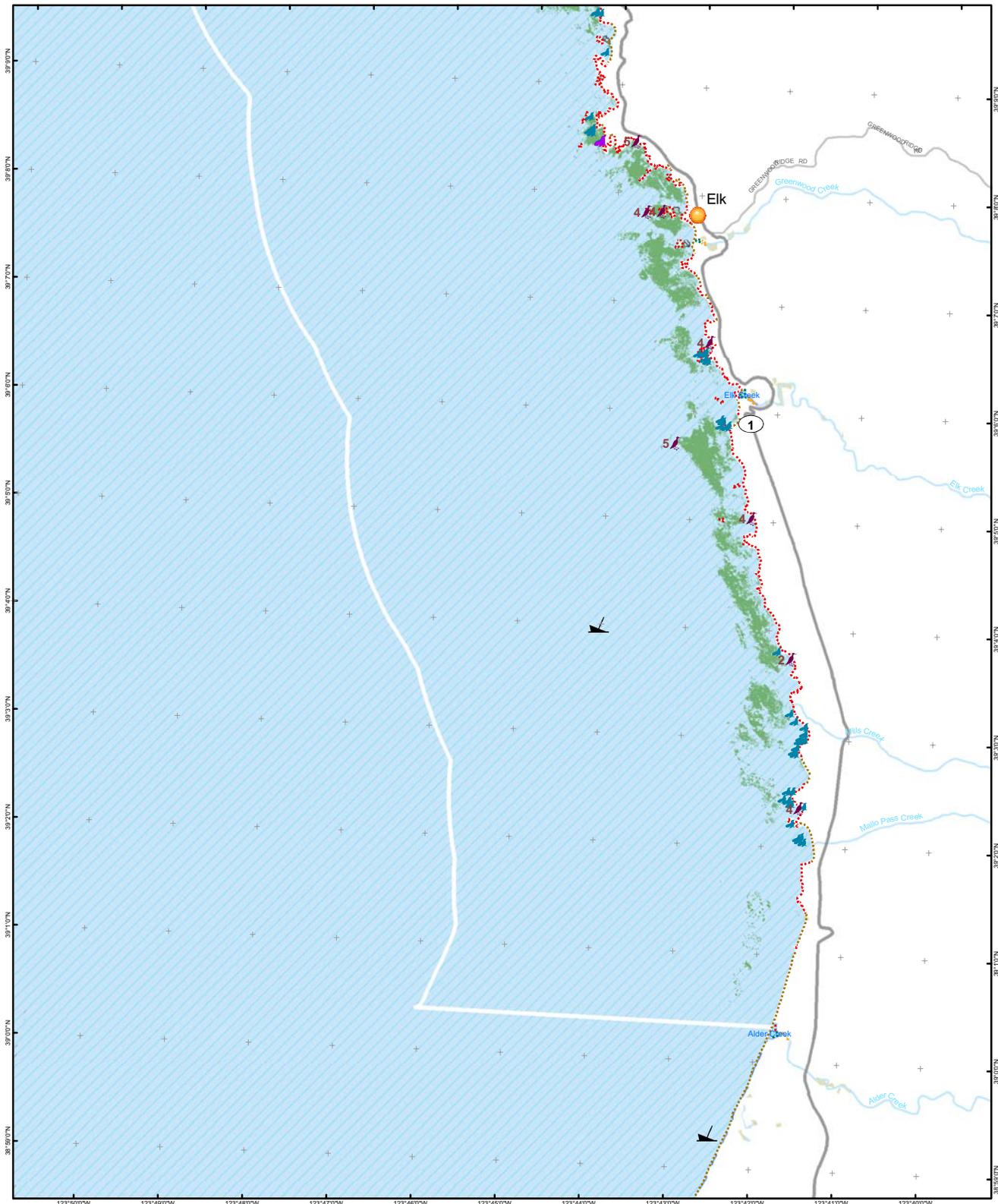
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Habitat & Species Atlas

Marine Life Protection Act Initiative
North Coast Study Region





	Pinniped Haulouts	
	Predicted substrate (Fine Scale)	
Roads		

California Locality

1 in = 1 Statute Mile

0 0.5 1 2 Nautical Miles
0 0.5 1 2 Statute Miles
0 0.5 1 2 Kilometers

Projection Information:
California: Transverse Mercator
Datum: North American 1983

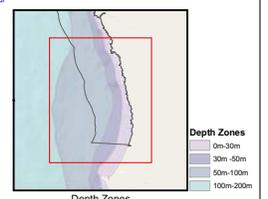
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Habitat & Species Atlas

Marine Life Protection Act Initiative
North Coast Study Region



Appendix A - Metadata

Layer Names	Disclaimer	Source
Coastal Salt Marsh	This layer is considered draft and is subject to change.	NOAA CCAP
Course Scale Substrate	This layer is considered draft and is subject to change.	Pacific States Marine Fisheries Commission
Depth Zones	This layer is considered draft and is subject to change.	NOAA, DFG bathymetric data
Educational Institutions	This layer is considered draft and is subject to change.	CADFG Marine Region GIS Lab
Elgrass	This layer is considered draft and is subject to change.	Minerals Management Service
Estuaries	This layer is considered draft and is subject to change.	Pacific States Marine Fisheries Commission, California Department of Fish and Game
Kelp Beds	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
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 http://swr.nmfs.noaa.gov/psd/rookeryhaulouts/index.htm
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 http://swr.nmfs.noaa.gov/psd/rookeryhaulouts/index.htm
Predicted Substrate	Fine-scale substrate data displayed on this map represent a union of data collected by, Seafloor Mapping Lab at California State University Monterey Bay, Moss Landing in Marine Labs, and Fugro Pelagos. Additional data for the southern part of the study region is in progress and should be available soon. Gaps in the fine-scale data exist, shallower than approximately 20 meters.	SFML, Fugro Pelagos
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
Seabird Colonies	This layer is considered draft and is subject to change.	Bird Colonies - NOAA/USF&W seabird colony database
Shipwrecks	This layer is considered draft and is subject to change.	NOAA Electronic Navigational Charts
Shore types	This layer is considered draft and is subject to change.	NOAA, Coastal Change Analysis Program (C-CAP)
Study Region Boundary	This layer is considered draft and is subject to change.	California Department of Fish and Game
Submarine Canyons	This layer is considered draft and is subject to change.	Moss Landing Marine Labs
Surf Grass	This layer is considered draft and is subject to change.	NOAA, Environmental Sensitivity Index (ESI)
Watersheds	This layer is considered draft and is subject to change.	State Water Resources Control Board