

METADATA FOR CALIFORNIA PINNIPED ROOKERIES AND HAUL-OUT SITES

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Bd200m_v2i

California Department of Fish and Game, Marine Region

“This document provides an overall description of the California Department of Fish and Game (DFG) bathymetry development project, including source datasets, processes used, and resulting products. Bd200m_V2i is a mosaic of those products resampled to 200m horizontal resolution. Vertical units are meters (integer). Higher resolution grids are also available for limited areas.” (CDFG, 2001)

The data for this layer may be found at the California Department of Fish and Game website: <https://www.dfg.ca.gov>

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20m_to_600m_bathy

California Department of Fish and Game, Marine Region

This data set of bathymetric contours was modified from the original CDFG data set of 10 m bathymetric contour lines to a depth of 600 m. The bathymetric contour lines for this data set increase in depth in increments of 20 m (instead of 10 m) to a depth of 600 m.

The original data may be found at the California Department of Fish and Game website:

<https://www.dfg.ca.gov>

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Pinnipeds

Identification_Information:

Citation:

Citation_Information:

Originator:

U.S. Department of Commerce NOAA/National Marine
Fisheries Service - Southwest Region

Publication_Date: 4/30/2007

Title: Pinnipeds

Geospatial_Data_Presentation_Form: vector digital data

Description:

Abstract:

Seal and sea lion haul-out sites in California, including the offshore islands. Data may include population information (*e.g.*, age, sex, abundance).

Purpose:

NMFS does not have a GIS-based database for all of the pinniped haulout sites in California. Much of the information is known through word of mouth or in unpublished literature (*e.g.*, academic research) that may be lost over time. In the past, many projects occurring along the California coastline included components that impacted marine mammals. However, determining whether a project may impact marine mammals, specifically pinnipeds, has been challenging for those unfamiliar with pinniped behavior. As a result, NMFS is providing interested parties with a map depicting pinniped haul-out areas and rookeries in California. By having distribution data available to the public, interested parties may be directed to a website that contains the necessary information regarding possible permits and will also inform them if they need to contact NMFS before starting their project (*i.e.*, avoid illegal takes under the Marine Mammal Protection Act or Endangered Species Act).

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 1980

Ending_Date: 2007

Currentness_Reference: publication date

Status:

Progress: Complete

Maintenance_and_Update_Frequency: Annually

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -124.5

East_Bounding_Coordinate: -117.3
North_Bounding_Coordinate: 42.0
South_Bounding_Coordinate: 32.8

Keywords:

Theme:

Theme_Keyword:

Seal, sea lion, pinniped, rookery, rookeries, haul-out, sighting

Place:

Place_Keyword: California, North Pacific Ocean, Channel Islands

Access_Constraints:

Available to the public only via the California Pinniped Haulout Sites and Rookeries interactive map.

Point_of_Contact:

Contact_Information:

Contact_Organization:

U.S. Department of Commerce NOAA/National Marine Fisheries Service - Southwest Region

Contact_Address:

City: Long Beach

State or Province: California

Country: United States of America

Native_Data_Set_Environment:

Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 9.1.0.722

Data_Quality_Information:

Lineage:

Source_Information:

Source_Citation_Abbreviation:

Adams, J. Status of the northern elephant seal *Mirounga angustirostris* (Gill) breeding at Point Reyes Headland, California during 1992-1993. Unpublished Report. to National Park Service, Point Reyes National Seashore 18 pp.

Source_Information:

Source_Citation_Abbreviation:

Allen, S., S. Waber, W. Holter, and D. Press. 2004. Long-term monitoring of harbor seals at Point Reyes, California: 5-year annual report 1997-2001. National Park Service Technical Report. 66 pp.

Source_Information:

Source_Citation_Abbreviation:

Allen, S., H. Markowitz, D. Green, and E. Grigg. 2006. Monitoring the potential impacts of the seismic retrofit construction activities at the Richmond San Rafael Bridge

on harbor seals (*Phoca vitulina*): May 1, 1998-September 15, 2005. Report for California Department of Fish and Game. 99 pp.

Source_Information:

Source_Citation_Abbreviation:

SRS Technologies. 2004. Acoustic measurements of the 2 December 2003 Atlas IIAS MLV-14 launch and quantitative analysis of behavioral responses of pinnipeds on San Miguel Island, California. Report for United States Air Force, May 2004.

Source_Information:

Source_Citation_Abbreviation:

ENSR International. EELV Harbor Seal Monitoring Interim Report. Report for The Boeing Company, October 2001.

Source_Information:

Source_Citation_Abbreviation:

California Department of Fish and Game

Source_Information:

Source_Citation_Abbreviation:

Carpinteria Seal Watch. Marine mammal logs and weekly summary reports.

Source_Information:

Source_Citation_Abbreviation:

Carretta, J.V., M.S. Lowry, C.E. Stinchcomb, M.S. Lynn, and R.E. Cosgrove. 2000. Distribution and abundance of marine mammals at San Clemente Island and surrounding offshore waters: results from aerial and ground surveys in 1998 and 1999. Southwest Fisheries Science Center Administrative Report LJ-00-02. U.S. Department of Commerce, La Jolla, California.

Source_Information:

Source_Citation_Abbreviation:

Coast Seafoods Company. Marine mammal observation reports.

Source_Information:

Source_Citation_Abbreviation:

ENSR International. 2002. Summary of marine mammal monitoring in association with the dock modifications and EPT exercises at Vandenberg Air Force Base. Report for The Boeing Company, Doc. No. 4523-572-000, August 2002.

Source_Information:

Source_Citation_Abbreviation:

Allen, S., H. Markowitz, D. Green, M. Galloway, and E. Grigg. 2006. Monitoring the potential impact of the seismic

retrofit activities at Richmond San Rafael Bridge on harbor seals (*Phoca vitulina*): Post-construction monitoring report. Report for California Department of Transportation, December 2006.

Source_Information:

Source_Citation_Abbreviation:

Goley, D. and A. Gemmer. Distribution and abundance of harbor seals (*Phoca vitulina*) in northern California. Unpublished data.

Source_Information:

Source_Citation_Abbreviation:

Hanni, K.D., D.J. Long, R.E. Jones, P. Pyles, and L.E. Morgan. 1997. Sightings and strandings of Guadalupe fur seals in central and northern California, 1988-1995. *Journal of Mammalogy*, 78:684-690.

Source_Information:

Source_Citation_Abbreviation:

Hatfield, B. U.S. Geological Service. Unpublished data.

Source_Information:

Source_Citation_Abbreviation:

Marine Mammal Consulting Group

Source_Information:

Source_Citation_Abbreviation:

Le Boeuf, B. 2000. Status of pinnipeds on Santa Catalina Island. *Proceedings of the California Academy of Sciences*, 53(2):11-21.

Source_Information:

Source_Citation_Abbreviation:

Le Boeuf, B. and P. Morris. 1990. Ground censuses of Steller sea lions at Año Nuevo Island. Southwest Fisheries Science Center Administrative Report LJ-90-25C. U.S. Department of Commerce, La Jolla, California

Source_Information:

Source_Citation_Abbreviation:

Lowry, M.S. 2002. Counts of northern elephant seals at rookeries in the Southern California Bight: 1981-2001. U.S. Department of Commerce, NOAA Technical Memorandum NOAA-TM-NMFS-SWFSC-345.

Source_Information:

Source_Citation_Abbreviation:

Lowry, M.S. and W.L. Perryman. 1992. Aerial photographic census of California sea lion (*Zalophus californianus*) pups at San Miguel Island, California for 1987-1990 and San Nicolas Island, California for 1990. Southwest Fisheries Science Center Administrative report

LJ-92-19. U.S. Department of Commerce, La Jolla, California.

Source_Information:

Source_Citation_Abbreviation:

Lowry, M.S. Steller sea lion count data for the St. George Reef and Castle Rock, July 15-17 2000-2004. Unpublished data.

Source_Information:

Source_Citation_Abbreviation:

Melin, S. Alaska Fisheries Science Center Memorandum.

Source_Information:

Source_Citation_Abbreviation:

Melin, S. R. and R. L. DeLong. 1994. Population monitoring of northern fur seals on San Miguel Island, California. In: Northern Fur Seal Investigations, p. 137-141. National Marine Mammal Laboratory report.

Source_Information:

Source_Citation_Abbreviation:

Melin, S.R. and R.L. DeLong. 1999. Observations of a Guadalupe fur seal (*Arctocephalus townsendi*) female and pup at San Miguel Island, California. Marine Mammal Science, 15(3):885-888.

Source_Information:

Source_Citation_Abbreviation:

Tetra tech, Inc. 1998. Final Pinniped Monitoring Report Launch of The Boeing Company Delta II Rocket, 08 September 1998, Vandenberg Air Force Base, California 24 November 1998. Report for 30 CES/CEVPP, Vandenberg Air Force Base.

Source_Information:

Source_Citation_Abbreviation:

Nadler, S.A., B.J. Adams, E.T. Lyons, R.L. DeLong, and S.R. Melin. 2000. Molecular and morphometric evidence for separate species of Uncinaria (Nematoda: *Ancylostomatidae*) in California sea lions and northern fur seals: Hypothesis testing supplants verification. Journal of Parasitology, 86(5):1099-1106.

Source_Information:

Source_Citation_Abbreviation:

Naval Air Weapons Station. Marine mammal and acoustical monitoring of missile launches on San Nicolas Island, October 2003 - July 2004. Report to National Marine Fisheries Service, August 2004.

Source_Information:

Source_Citation_Abbreviation:

United States Navy. Staff report and recommendation on consistency determination. Report for California Coastal Commission, June 2002.

Source_Information:

Source_Citation_Abbreviation:

Ono, K. 1993. Steller sea lion research at Año Nuevo Island, California, during the 1992 breeding season. Southwest Fisheries Science Center Administrative Report LJ-93-21C. U.S. Department of Commerce, La Jolla, California.

Source_Information:

Source_Citation_Abbreviation:

ENSR International. Marine Mammal Monitoring During Dock Modifications at Vandenberg Air Force Base, 10-14 June 2002. *In*: Summary of Marine Mammal Monitoring in Association with the Dock Modifications and EPT Exercises at Vandenberg Air Force Base. Report for The Boeing Company, August 2002.

Source_Information:

Source_Citation_Abbreviation:

Pitcher, K.W., P.F. Olesiuk, R.F. Brown, M.S. Lowry, S.J. Jeffries, J.L. Sease, W.L. Perryman, C.E. Stinchcomb, and L.F. Lowry. 2007. Abundance and distribution of eastern North Pacific Steller sea lion (*Eumetopias jubatus*) population. Fisheries Bulletin 107:102-115.

Source_Information:

Source_Citation_Abbreviation:

California Department of Fish and Game. 2000. Final Report: Census/survey of harbor seals in California 2000. Report for Pacific States Marine Fisheries Commission.

Source_Information:

Source_Citation_Abbreviation:

California Department of Fish and Game. 2001. Final Report: Survey of harbor seals in California 2001. Report for Pacific States Marine Fisheries Commission.

Source_Information:

Source_Citation_Abbreviation:

Schuh, S.M. 2000. The distribution, abundance, and annual population fluctuations of the Pacific harbor seal, *Phoca vitulina*, on the coast of Humboldt and Del Norte counties, California: A 15-month population dynamics study. Master's Thesis, Department of Biological Studies, Humboldt State University, Humboldt, California.

Source_Information:

Source_Citation_Abbreviation:

Shiple, C. and G. Strecker. 1986. Day and night patterns of vocal activity of northern elephant seal bulls. *Journal of Mammalogy*, 67(4):775-778.

Source_Information:

Source_Citation_Abbreviation:

NAVAIR Range Sustainability Office. Report of pinniped displacement activities at the San Nicolas Island barge landing area December 2003 - August 2004.

Source_Information:

Source_Citation_Abbreviation:

Southwest Fisheries Science Center

Source_Information:

Source_Citation_Abbreviation:

SRS Technologies. 2004. Harbor seal (*Phoca vitulina richardsi*) research at Vandenberg Air Force Base, 1997-2002 and alternate booster vehicle monitoring. Unpublished report.

Source_Information:

Source_Citation_Abbreviation:

SRS Technologies. Five-year programmatic permit for incidental harassment of small numbers of marine mammals for launch vehicle, intercontinental ballistic missile and aircraft operations at Vandenberg Air Force Base and the Northern Channel Islands. Report for United States Air Force to National Marine Fisheries Service, May 2000.

Source_Information:

Source_Citation_Abbreviation:

SRS Technologies. Letter of Authorization: Taking and Importing Marine Mammals; Taking Marine Mammals Incidental to Rocket Launches at Vandenberg Air Force Base, California Annual Report 1 January to 31 December 2004. Report for United States Air Force to National Marine Fisheries Service, December 20, 2004.

Source_Information:

Source_Citation_Abbreviation:

SRS Technologies. Letter of Authorization: Taking and Importing Marine Mammals; Taking Marine Mammals Incidental to Rocket Launches at Vandenberg Air Force Base, California - Annual Report 1 January to 31 December 2005. Report for the United States Air Force to National Marine Fisheries Service, January 2006.

Source_Information:

Source_Citation_Abbreviation:

SRS Technologies. 2003. Scientific Research Permit Final Report for the period of 26 June 1997 to 26 June 2002.

Report for United States Air Force to National Marine Fisheries Service.

Source_Information:

Source_Citation_Abbreviation:

Stewart, B.S. and P.K. Yochem. 1984. Seasonal abundance of pinnipeds at San Nicolas Island, California, 1980-1982. Bulletin of Southern California Academy of Sciences, 83(3):121-132.

Source_Information:

Source_Citation_Abbreviation:

Tetra Tech, Inc. 1999. Final Pinniped Monitoring Report Launch of The Boeing Company Delta II Rocket, 23 February 1999, Vandenberg Air Force Base, California 19 April 1999. Report for CES/CEVPP.

Source_Information:

Source_Citation_Abbreviation:

Tezak, S. and J. Mortenson. 2004. SEALS Annual Report, sanctuary education awareness and long-term stewardship, July 2002- June 2003. Report for Gulf of the Farallones National Marine Sanctuary.

Source_Information:

Source_Citation_Abbreviation:

SRS Technologies. Scientific research permit annual report for 1 June 1999 - 31 May 2000. Report for United States Air Force to National Marine Fisheries Service.

Source_Information:

Source_Citation_Abbreviation:

SRS Technologies. 2000. Annual Report: Five-Year Programmatic Permit for Incidental Harassment of Small Numbers of marine Mammals for Rocket, Missile, and Aircraft Operations at Vandenberg Air Force Base, California and the Northern Channel Islands 1 January to 31 December 2000. Report for United States Air Force to National Marine Fisheries Service.

Source_Information:

Source_Citation_Abbreviation:

Washington Cooperative Fish and Wildlife Research Unit. 2006. DRAFT Final Report: Incidental Harassment Authorization, take by harassment small numbers of marine mammals incidental to research surveys for the purpose of assessing trends over time in black abalone, San Nicolas Island, California. Report to National Marine Fisheries Service, August 2006.

Source_Information:

Source_Citation_Abbreviation:

Westlake, R., W. Perryman, and K. Ono. 1997. Comparison of vertical aerial photographic and ground censuses of Steller sea lions at Año Nuevo Island, July 1990-1993. *Marine Mammal Science*, 13(2):207-218.

Source_Information:

Source_Citation_Abbreviation:

Yurok Tribal Fisheries Program. 2001. An assessment of pinniped predation upon fall-run chinook salmon in the Klamath River Estuary, CA, 1999.

Source_Information:

Source_Citation_Abbreviation:

Yochem, P. and B. Stewart. 1998. Behavioral ecology and demography of seals and sea lions at the Seal Rock Marine Mammal Reserve. Hubbs-Sea World Technical Report No. 98-282.

Source_Information:

Source_Citation_Abbreviation:

Yochem, P.K. 2004. Pacific harbor seal (*Phoca vitulina*) monitoring plan. Report to National Marine Fisheries Service.

Source_Information:

Source_Citation_Abbreviation:

Hubbs-Sea World Research Institute. Figure *In*: White Paper: California's Pacific harbor seals (with emphasis on La Jolla, City of San Diego).

Source_Information:

Source_Citation_Abbreviation:

San Diego Department of Transportation. Figure *In*: White Paper: California's Pacific harbor seals (with emphasis on La Jolla, City of San Diego).

Source_Information:

Source_Citation_Abbreviation:

SRS Technologies. 2007. Letter of authorization: taking and importing marine mammals; taking marine mammals incidental to rocket launches at Vandenberg Air Force Base, California, annual report 1 January to 31 December 2006. Report for United States Air Force to National Marine Fisheries Service, February 2007.

Source_Information:

Source_Citation_Abbreviation:

Melin, S. R., R. L. DeLong, and A. J. Orr. 2002. The status of the northern fur seal population at San Miguel Island, California, in 2000 and 2001. Pp. 51-59. *In*: B.W. Robson (ed.) Fur seal investigations, 2000-2001. U.S. Department of Commerce, NOAA Technical Memorandum NMFS-AFSC-134, 80 pp.

Source_Information:

Source_Citation_Abbreviation:

Melin, S. R., R. L. DeLong, and A. J. Orr. 2005. The status of the northern fur seal population at San Miguel Island, California, in 2002-2003. Pp. 44-50. *In*: J.W. Testa (ed.) Fur seal investigations, 2000-2001. U.S. Department of Commerce, NOAA Technical Memorandum NMFS-AFSC-151, 72 pp.

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Entity point

Point_and_Vector_Object_Count: 6847

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution: 0.002048

Longitude_Resolution: 0.002048

Geographic_Coordinate_Units: Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name: D_WGS_1984

Ellipsoid_Name: WGS_1984

Semi-major_Axis: 6378137.000000

Denominator_of_Flattening_Ratio: 298.257224

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: Pinnipeds

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain:

Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: Species Code

Attribute_Definition: Species code: An abbreviation of the species common name (*e.g.*, CSL for California sea lion)

Attribute:

Attribute_Label: Species Common Name

Attribute_Definition: Species common name (*e.g.*, California sea lion, Steller sea lion)

Attribute:

Attribute_Label: Species Scientific Name

Attribute_Definition: Species scientific name (*e.g.*, *Phoca vitulina*, *Mirounga angustirostris*)

Attribute:

Attribute_Label: Month

Attribute_Definition: Month in which sighting occurred

Attribute:

Attribute_Label: Year

Attribute_Definition: Year in which sighting occurred

Attribute:

Attribute_Label: Date

Attribute_Definition: Date on which sighting occurred

Attribute:

Attribute_Label: Stratum

Attribute_Definition: General location in which sighting occurred: Mainland excluding San Francisco Bay, Channel Islands, San Francisco Bay, Farallon Islands

Attribute:

Attribute_Label: County

Attribute_Definition: County in which sighting occurred

Attribute:

Attribute_Label: County Code

Attribute_Definition: County code: abbreviation for the county in which sighting occurred (*e.g.*, SMT for San Mateo)

Attribute:

Attribute_Label: Island

Attribute_Definition: Name of island (if applicable) on which sighting occurred

Attribute:

Attribute_Label: City

Attribute_Definition: City (if applicable) in which sighting occurred

Attribute:

Attribute_Label: Location

Attribute_Definition: Description of location at which sighting occurred

Attribute:

Attribute_Label: Latitude

Attribute_Definition: Latitude at which sighting occurred
Attribute:
Attribute_Label: Longitude
Attribute_Definition: Longitude at which sighting occurred
Attribute:
Attribute_Label: Method
Attribute_Definition: Method (photograph or ground) by which
observation was made
Attribute:
Attribute_Label: Pups Present?(Y/N)
Attribute_Definition: Were any pups present? (Y=yes, N=no)
Attribute:
Attribute_Label: Number of Pups
Attribute_Definition: Number of pups observed
Attribute:
Attribute_Label: Yearlings Present?(Y/N)
Attribute_Definition: Were any yearlings present? (Y=yes, N=no)
Attribute:
Attribute_Label: Number of Yearlings
Attribute_Definition: Number of yearlings observed
Attribute:
Attribute_Label: Juveniles Present?(Y/N)
Attribute_Definition: Were any juveniles present? (Y=yes, N=no)
Attribute:
Attribute_Label: Number of Juveniles
Attribute_Definition: Number of juveniles observed
Attribute:
Attribute_Label: Adults Present?(Y/N)
Attribute_Definition: Were any adults (male or female) present? (Y=yes,
N=no)
Attribute:
Attribute_Label: Number of Adults
Attribute_Definition: Number of adults (male or female) observed
Attribute:
Attribute_Label: Adult Males Present?(Y/N)
Attribute_Definition: Were any adult males present? (Y=yes, N=no)
Attribute:
Attribute_Label: Number of Adult Males
Attribute_Definition: Number of adult males observed
Attribute:
Attribute_Label: Adult Females Present?(Y/N)
Attribute_Definition: Were any adult females present? (Y=yes, N=no)
Attribute:
Attribute_Label: Number of Adult Females
Attribute_Definition: Number of adult females observed
Attribute:

Attribute_Label: Sub-adults Present?(Y/N)

Attribute_Definition: Were any sub-adults present? (Y=yes, N=no)

Attribute:

Attribute_Label: Number of Sub-adults

Attribute_Definition: Number of sub-adults observed

Attribute:

Attribute_Label: Non-pups Present?(Y/N)

Attribute_Definition: Were any non-pups present? (Y=yes, N=no)

Attribute:

Attribute_Label: Number of Non-Pups

Attribute_Definition: Number of non-pups observed

Attribute:

Attribute_Label: Total Number of Pinnipeds

Attribute_Definition: Total number of pinnipeds observed

Attribute:

Attribute_Label: Source

Attribute_Definition: Source of the information/data

Attribute:

Attribute_Label: Year Published/Reported

Attribute_Definition: Year data/information was published/reported

Attribute:

Attribute_Label: Title

Attribute_Definition: Title of report/publication

Attribute:

Attribute_Label: Publication Information

Attribute_Definition: Any publication/citation information, such as journal, volume, etc.

Attribute:

Attribute_Label: Comments

Attribute_Definition: Additional comments regarding the data

Attribute:

Attribute_Label: Comments for SWR

Attribute_Definition: Additional comments regarding the data for NMFS-SWR

Distribution_Information:

Resource_Description:

Data may only be viewed through California Pinniped Rookeries and Haul-out Sites interactive map.

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Transfer_Size: 0.183

Metadata_Reference_Information:

Metadata_Date: 20070418

Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization:
U.S. Department of Commerce NOAA/National Marine
Fisheries Service - Southwest Region
Contact_Address:
City: Long Beach
State_or_Province: California
Country: United States of America
Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial
Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: local time
Metadata_Extensions:
Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>
Profile_Name: ESRI Metadata Profile

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Rookeries

Identification_Information:
Citation:
Citation_Information:
Originator: U.S. Department of Commerce NOAA/National
Marine Fisheries Service - Southwest Region
Publication_Date: March 30, 2007
Title: Rookeries
Geospatial_Data_Presentation_Form: tabular digital data
Description:
Abstract: This data describes the location of rookeries (areas in which the
pinnipeds repeatedly haul out and breed), the species found there, and the
months that the species breed at that rookery.
Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Currentness_Reference: publication date
Status:
Progress: Complete
Maintenance_and_Update_Frequency: As needed
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -124.5

East_Bounding_Coordinate: -117.2
North_Bounding_Coordinate: 41.9
South_Bounding_Coordinate: 32.8

Keywords:

Theme:

Theme_Keyword: Rookery, rookeries, sea lion, seal, pinniped

Place:

Place_Keyword: California, Channel Islands, North Pacific Ocean

Access_Constraints: Accessible to the public via the California Pinniped Rookeries and Haul-out Sites map.

Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: U.S. Department of Commerce
NOAA/National Marine Fisheries Service -
Southwest Region

Native_Data_Set_Environment: Microsoft Windows XP Version 5.1 (Build 2600)
Service Pack 2; ESRI ArcCatalog 9.1.0.722

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Geographic_Coordinate_Units: Decimal degrees

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: Rookeries

Attribute:

Attribute_Label: Location

Attribute_Definition: Description of rookery location

Attribute:

Attribute_Label: Species Common Name

Attribute_Definition: Common name of pinniped species found at rookery

Attribute:

Attribute_Label: Species Scientific Name

Attribute_Definition: Scientific name of pinniped species found at rookery

Attribute:

Attribute_Label: Pupping Months

Attribute_Definition: Months during which this species may be
found pupping at this rookery

Attribute:

Attribute_Label: Latitude

Attribute_Definition: latitude used to designate location of rookery

Attribute:

Attribute_Label: Longitude

Attribute_Definition: Longitude used to designate location of the rookery

Attribute:

Attribute_Label: Comments

Attribute_Definition: Additional comments regarding the rookery and/or pinniped species found there

Distribution_Information:

Resource_Description: Data accessible to the public via the California Pinniped Rookeries and Haul-out Sites map.

Metadata_Reference_Information:

Metadata_Date: 20070327

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: U.S. Department of Commerce
NOAA/National Marine Fisheries Service -
Southwest Region

Contact_Address:

City: Long Beach

State_or_Province: California

Country: United States of America

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time

Metadata_Extensions:

Online_Linkage: <http://www.esri.com/metadata/esriprof80.html>

Profile_Name: ESRI Metadata Profile

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