

*** DRAFT* Ocean Uses Atlas Southern California Human Use Grid * DRAFT***

Metadata also available as

Frequently-anticipated questions:

- [What does this data set describe?](#)
 1. [How should this data set be cited?](#)
 2. [What geographic area does the data set cover?](#)
 3. [What does it look like?](#)
 4. [Does the data set describe conditions during a particular time period?](#)
 5. [What is the general form of this data set?](#)
 6. [How does the data set represent geographic features?](#)
 7. [How does the data set describe geographic features?](#)
 - [Who produced the data set?](#)
 1. [Who are the originators of the data set?](#)
 2. [Who also contributed to the data set?](#)
 3. [To whom should users address questions about the data?](#)
 - [Why was the data set created?](#)
 - [How was the data set created?](#)
 1. [From what previous works were the data drawn?](#)
 2. [How were the data generated, processed, and modified?](#)
 3. [What similar or related data should the user be aware of?](#)
 - [How reliable are the data; what problems remain in the data set?](#)
 1. [How well have the observations been checked?](#)
 2. [How accurate are the geographic locations?](#)
 3. [How accurate are the heights or depths?](#)
 4. [Where are the gaps in the data? What is missing?](#)
 5. [How consistent are the relationships among the data, including topology?](#)
 - [How can someone get a copy of the data set?](#)
 1. [Are there legal restrictions on access or use of the data?](#)
 2. [Who distributes the data?](#)
 3. [What's the catalog number I need to order this data set?](#)
 4. [What legal disclaimers am I supposed to read?](#)
 5. [How can I download or order the data?](#)
 - [Who wrote the metadata?](#)
-

What does this data set describe?

Title:

DRAFT Ocean Uses Atlas Southern California Human Use Grid *DRAFT*

Abstract:

DRAFT This dataset is a result of the Southern California Regional Workshop, conducted as a part of the California Ocean Uses Atlas Project: a collaboration between NOAA's National Marine Protected Areas Center and Marine Conservation Biology Institute. The workshop goal was to gather geospatial data on 26 human uses of California's ocean environment from the shoreline to the 200 nm EEZ boundary. Participants were chosen for their expertise in a several of the uses identified by the Project, and divided into 2-4 breakout groups for the mapping exercise. The workshop groups were asked to map three aspects of each use: 1. maximum footprint of each use, where the use occurs regularly; 2. the dominant use areas, where most of the use occurs,

most of the time; 3. future trends, where use patterns are likely to change significantly within the next 5-10 years based on expert knowledge of the use.

The resulting data have been processed to include only areas within the Southern California regional boundary contained in this geodatabase, and combined using a polygon-in-polygon analysis to produce a single resulting shapefile. This shapefile is compiled to the 1 nautical mile California Recreational Fisheries Survey (CRFS) microblocks. For each grid cell, use data fields include both count data (i.e. the number of groups whose polygon intersected the cell) and area data (i.e. the total area of all polygons drawn in the cell). Note that the area may exceed the total area of the cell if the cell was identified by multiple groups. *DRAFT*

1. How should this data set be cited?

National Marine Protected Areas Center, and Marine Conservation Biology Institute, December, 2008, *DRAFT* Ocean Uses Atlas Southern California Human Use Grid *DRAFT*.

Online Links:

- \\OCRM-L-1401347\C\$\ATLAS\socal\ocean_uses_atlas_results.gdb

2. What geographic area does the data set cover?

West_Bounding_Coordinate: -121.533087
East_Bounding_Coordinate: -116.973706
North_Bounding_Coordinate: 34.508544
South_Bounding_Coordinate: 32.397706

3. What does it look like?

4. Does the data set describe conditions during a particular time period?

Calendar_Date: September 2008
Currentness_Reference: Workshop Date

5. What is the general form of this data set?

Geospatial_Data_Presentation_Form: vector digital data

6. How does the data set represent geographic features?

a. How are geographic features stored in the data set?

This is a Vector data set. It contains the following vector data types (SDTS terminology):

- G-polygon (19695)

b. What coordinate system is used to represent geographic features?

Grid_Coordinate_System_Name: Universal Transverse Mercator
Universal_Transverse_Mercator:

UTM_Zone_Number: 10
Transverse_Mercator:

Scale_Factor_at_Central_Meridian: 0.999600
Longitude_of_Central_Meridian: -123.000000
Latitude_of_Projection_Origin: 0.000000
False_Easting: 500000.000000

False_Northing: 0.000000

Planar coordinates are encoded using coordinate pair
Abcissae (x-coordinates) are specified to the nearest 0.000100
Ordinates (y-coordinates) are specified to the nearest 0.000100
Planar coordinates are specified in meters

The horizontal datum used is North American Datum of 1983.
The ellipsoid used is Geodetic Reference System 80.
The semi-major axis of the ellipsoid used is 6378137.000000.
The flattening of the ellipsoid used is 1/298.257222.

Vertical_Coordinate_System_Definition:

Altitude_System_Definition:

Altitude_Resolution: 0.000100

Altitude_Encoding_Method:

Explicit elevation coordinate included with horizontal coordinates

7. How does the data set describe geographic features?

socal_crfs_all_uses

OBJECTID

Internal feature number. (Source: ESRI)

Sequential unique whole numbers that are automatically generated.

Shape

Feature geometry. (Source: ESRI)

Coordinates defining the features.

BLOCK10_ID

NM_ID2

NM_INDEX

Unique cell identifier, from CA-DFG CRFS Microblocks

BLK_CODE

CNTRY_CODE

ISLD_CODE

X

Longitude, in decimal degrees

Y

Latitude, in decimal degrees

Shape_Length

Length of feature in internal units. (Source: ESRI)

Positive real numbers that are automatically generated.

beach_Foot_AR_AVG

beach_Foot_AR_AVG2

Shape_Area

Area of feature in internal units squared. (Source: ESRI)

Positive real numbers that are automatically generated.

beach_Foot_AR

Beach Use Footprint Total Area (sq. meters).

beach_Dom_AR_AVG

beach_Dom_AR_AVG2

beach_Foot_CNT

Range of values	
Minimum:	0
Maximum:	4

Range of values	
Minimum:	0
Maximum:	4

beach_Dom_AR

boating_Foot_AR_AVG

boating_Foot_AR_AVG2

beach_Dom_CNT

Range of values	
Minimum:	0
Maximum:	4

boating_Foot_AR

boating_Dom_AR_AVG

boating_Dom_AR_AVG2

boating_Foot_CNT

Range of values	
Minimum:	0
Maximum:	4

boating_Dom_AR

boating_Future_AR_AVG

boating_Future_AR_AVG2

boating_Dom_CNT



Range of values	
Minimum:	0
Maximum:	4

boating_Future_AR

paddling_Foot_AR_AVG

paddling_Foot_AR_AVG2

boating_Future_CNT

Range of values	
Minimum:	0
Maximum:	4

Range of values	
Minimum:	0
Maximum:	1

paddling_Foot_AR

paddling_Dom_AR_AVG

paddling_Dom_AR_AVG2

paddling_Foot_CNT

paddling_Dom_AR

paddling_Future_AR_AVG

paddling_Future_AR_AVG2

paddling_Dom_CNT

paddling_Future_AR

sailing_Foot_AR_AVG

sailing_Foot_AR_AVG2

paddling_Future_CNT

sailing_Foot_AR

sailing_Dom_AR_AVG

sailing_Dom_AR_AVG2

sailing_Foot_CNT

sailing_Dom_AR

sailing_Future_AR_AVG

sailing_Future_AR_AVG2

sailing_Dom_CNT

sailing_Future_AR
scuba_Foot_AR_AVG
scuba_Foot_AR_AVG2
sailing_Future_CNT
scuba_Foot_AR
scuba_Dom_AR_AVG
scuba_Dom_AR_AVG2
scuba_Foot_CNT
scuba_Dom_AR
scuba_Future_AR_AVG
scuba_Future_AR_AVG2
scuba_Dom_CNT
scuba_Future_AR
surf_water_Foot_AR_AVG
surf_water_Foot_AR_AVG2
scuba_Future_CNT
surf_water_Foot_AR
surf_water_Dom_AR_AVG
surf_water_Dom_AR_AVG2
surf_water_Foot_CNT
surf_water_Dom_AR
swimming_Foot_AR_AVG
swimming_Foot_AR_AVG2
surf_water_Dom_CNT
swimming_Foot_AR
swimming_Dom_AR_AVG
swimming_Dom_AR_AVG2
swimming_Foot_CNT
swimming_Dom_AR
tidepool_Foot_AR_AVG
tidepool_Foot_AR_AVG2
swimming_Dom_CNT
tidepool_Foot_AR

tidepool_Dom_AR_AVG
tidepool_Dom_AR_AVG2
tidepool_Foot_CNT
tidepool_Dom_AR
wildlife_Foot_AR_AVG
wildlife_Foot_AR_AVG2
tidepool_Dom_CNT
wildlife_Foot_AR
wildlife_Dom_AR_AVG
wildlife_Dom_AR_AVG2
wildlife_Foot_CNT
wildlife_Dom_AR
wildlife_Future_AR_AVG
wildlife_Future_AR_AVG2
wildlife_Dom_CNT
wildlife_Future_AR
aquaculture_Foot_AR_AVG
aquaculture_Foot_AR_AVG2
wildlife_Future_CNT
aquaculture_Foot_AR
aquaculture_Dom_AR_AVG
aquaculture_Dom_AR_AVG2
aquaculture_Foot_CNT
aquaculture_Dom_AR
aquaculture_Future_AR_AVG
aquaculture_Future_AR_AVG2
aquaculture_Dom_CNT
aquaculture_Future_AR
cruise_Foot_AR_AVG
cruise_Foot_AR_AVG2
aquaculture_Future_CNT
cruise_Foot_AR
cruise_Dom_AR_AVG
cruise_Dom_AR_AVG2

cruise_Foot_CNT
cruise_Dom_AR
cruise_Future_AR_AVG
cruise_Future_AR_AVG2
cruise_Dom_CNT
cruise_Future_AR
military_Foot_AR_AVG
military_Foot_AR_AVG2
cruise_Future_CNT
military_Foot_AR
military_Dom_AR_AVG
military_Dom_AR_AVG2
military_Foot_CNT
military_Dom_AR
mining_Foot_AR_AVG
mining_Foot_AR_AVG2
military_Dom_CNT
mining_Foot_AR
alt_energy_Future_AR_AVG
alt_energy_Future_AR_AVG2
mining_Foot_CNT
alt_energy_Future_AR
oil_Foot_AR_AVG
oil_Foot_AR_AVG2
alt_energy_Future_CNT
oil_Foot_AR
oil_Dom_AR_AVG
oil_Dom_AR_AVG2
oil_Foot_CNT
oil_Dom_AR
oil_Future_AR_AVG
oil_Future_AR_AVG2
oil_Dom_CNT

oil_Future_AR
shipping_Foot_AR_AVG
shipping_Foot_AR_AVG2
oil_Future_CNT
shipping_Foot_AR
shipping_Dom_AR_AVG
shipping_Dom_AR_AVG2
shipping_Foot_CNT
shipping_Dom_AR
cables_Foot_AR_AVG
cables_Foot_AR_AVG2
shipping_Dom_CNT
cables_Foot_AR
com_dive_Foot_AR_AVG
com_dive_Foot_AR_AVG2
cables_Foot_CNT
com_dive_Foot_AR
com_dive_Dom_AR_AVG
com_dive_Dom_AR_AVG2
com_dive_Foot_CNT
com_dive_Dom_AR
com_dive_Future_AR_AVG
com_dive_Future_AR_AVG2
com_dive_Dom_CNT
com_dive_Future_AR
com_benth_fix_Foot_AR_AVG
com_benth_fix_Foot_AR_AVG2
com_dive_Future_CNT
com_benth_fix_Foot_AR
com_benth_fix_Dom_AR_AVG
com_benth_fix_Dom_AR_AVG2
com_benth_fix_Foot_CNT
com_benth_fix_Dom_AR
com_benth_mob_Foot_AR_AVG

com_benth_mob_Foot_AR_AVG2
com_benth_fix_Dom_CNT
com_benth_mob_Foot_AR
com_benth_mob_Dom_AR_AVG
com_benth_mob_Dom_AR_AVG2
com_benth_mob_Foot_CNT
com_benth_mob_Dom_AR
com_pel_Foot_AR_AVG
com_pel_Foot_AR_AVG2
com_benth_mob_Dom_CNT
com_pel_Foot_AR
com_pel_Dom_AR_AVG
com_pel_Dom_AR_AVG2
com_pel_Foot_CNT
com_pel_Dom_AR
kelp_Foot_AR_AVG
kelp_Foot_AR_AVG2
com_pel_Dom_CNT
kelp_Foot_AR
kelp_Dom_AR_AVG
kelp_Dom_AR_AVG2
kelp_Foot_CNT
kelp_Dom_AR
rec_dive_Foot_AR_AVG
rec_dive_Foot_AR_AVG2
kelp_Dom_CNT
rec_dive_Foot_AR
rec_dive_Dom_AR_AVG
rec_dive_Dom_AR_AVG2
rec_dive_Foot_CNT
rec_dive_Dom_AR
rec_dive_Future_AR_AVG
rec_dive_Future_AR_AVG2

rec_dive_Dom_CNT
rec_dive_Future_AR
rec_boat_Foot_AR_AVG
rec_boat_Foot_AR_AVG2
rec_dive_Future_CNT
rec_boat_Foot_AR
rec_boat_Dom_AR_AVG
rec_boat_Dom_AR_AVG2
rec_boat_Foot_CNT
rec_boat_Dom_AR
rec_boat_Future_AR_AVG
rec_boat_Future_AR_AVG2
rec_boat_Dom_CNT
rec_boat_Future_AR
rec_shore_Foot_AR_AVG
rec_shore_Foot_AR_AVG2
rec_boat_Future_CNT
rec_shore_Foot_AR
rec_shore_Dom_AR_AVG
rec_shore_Dom_AR_AVG2
rec_shore_Foot_CNT
rec_shore_Dom_AR
rec_kayak_Foot_AR_AVG
rec_kayak_Foot_AR_AVG2
rec_shore_Dom_CNT
rec_kayak_Foot_AR
rec_kayak_Dom_AR_AVG
rec_kayak_Dom_AR_AVG2
rec_kayak_Foot_CNT

Feature geometry. (Source: ESRI)

Coordinates defining the features.

rec_kayak_Dom_AR
Length of feature in internal units. (Source: ESRI)

Positive real numbers that are automatically generated.

rec_kayak_Dom_CNT

Area of feature in internal units squared. (Source: ESRI)

Positive real numbers that are automatically generated.

SHAPE

Feature geometry. (Source: ESRI)

Coordinates defining the features.

SHAPE_Length

Length of feature in internal units. (Source: ESRI)

Positive real numbers that are automatically generated.

SHAPE_Area

Area of feature in internal units squared. (Source: ESRI)

Positive real numbers that are automatically generated.

Who produced the data set?

1. **Who are the originators of the data set?** (may include formal authors, digital compilers, and editors)
 - National Marine Protected Areas Center
 - Marine Conservation Biology Institute
2. **Who also contributed to the data set?**
3. **To whom should users address questions about the data?**

National Marine Protected Areas Center
GIS Specialist
99 Pacific St.
Monterey, CA 93940
U.S.A.

(831) 645-2711 (voice)
jordan.gass@noaa.gov

Hours_of_Service: 9am - 5pm, PST

Why was the data set created?

DRAFT The California Ocean Uses Atlas Project, a partnership between NOAA and the Marine Conservation Biology Institute, is filling a critical information gap in ocean management by providing an unprecedented, comprehensive, consistent and spatially explicit picture of human uses for management agencies, policy makers and stakeholders interested in sound and equitable ocean governance. Using participatory GIS concepts and applications, the Atlas Project is generating spatial data and map products illustrating patterns, intensity and temporal changes in a wide range of human uses in three broad categories of use: (i) consumptive, (ii) non-consumptive, and (iii) industrial activities. The resulting maps will depict patterns of ocean use on a broad scale appropriate for a variety of ocean planning and management needs. *DRAFT*

How was the data set created?

1. **From what previous works were the data drawn?**
2. **How were the data generated, processed, and modified?**

(process 1 of 6)

Data were digitized by workshop participant groups.

(process 2 of 6)

Data from each group were reviewed following the workshop to: a. Detail any instructions from participants to add/remove areas in post-processing b. Review GIS technician and facilitator workshop notes for any relevant data-editing comments c. Discuss any areas that might be judgment calls for data editing

(process 3 of 6)

Data were processed by Project GIS Specialist to clean artifacts created during the live, participatory mapping process.

(process 4 of 6)

All polygons were clipped to the Southern California Atlas Region to remove land and any marine areas outside the scope of the workshop.

(process 5 of 6)

A polygon-in-polygon analysis was run for each use using California Department of Fish and Game one nautical mile microblocks as the zonal layer to determine the number of groups that identified a use in each grid cell ([use_category]_CNT) and the total area of all polygons in the cell ([use_category]_AR).

(process 6 of 6)

Use-Specific Procedures: Scuba Diving/Snorkeling: Erase any areas deeper than 40m bathymetry Tidepooling: Clip to 50 m shoreline buffer Beach Use: Clip to 50 m shoreline buffer Swimming : Clip to 50 m shoreline buffer, re-added swim lanes to Catalina All Fishing Uses: Erase any existing regulations/fishery closures (see fishing_closures feature class for details) Commercial Dive Fishing: Erase any areas deeper than 40m bathymetry Recreational Dive Fishing: Erase any areas deeper than 40m bathymetry Shore based fishing: Clip use areas to 200 yard shore buffer Benthic Mobile Fishing: Exclude all areas within 1 nm of shore

3. **What similar or related data should the user be aware of?**
-

How reliable are the data; what problems remain in the data set?

1. **How well have the observations been checked?**

Regional workshops were conducted at a maximum scale of 1:250,000. The data are intended to portray broad patterns for each use at a comparable scale and are not intended as a stand-alone data set for regulatory or enforcement purposes.

2. **How accurate are the geographic locations?**

3. **How accurate are the heights or depths?**

4. **Where are the gaps in the data? What is missing?**

5. **How consistent are the relationships among the observations, including topology?**

How can someone get a copy of the data set?

Are there legal restrictions on access or use of the data?

Access_Constraints: None

Use_Constraints:

This is a draft data product, expected to be available in final format after May, 2009.

1. Who distributes the data set? (Distributor 1 of 1)

National Marine Protected Areas Center
GIS Specialist

2. What's the catalog number I need to order this data set?

Downloadable Data

3. What legal disclaimers am I supposed to read?

4. How can I download or order the data?

Who wrote the metadata?

Dates:

Last modified: 21-Apr-2009

Metadata author:

National Marine Protected Areas Center
GIS Specialist
99 Pacific St.
Monterey, CA 93940

(831) 645-2711 (voice)

Hours_of_Service: 9am-5pm PST

Metadata standard:

FGDC Content Standards for Digital Geospatial Metadata (FGDC-STD-001-1998)

Metadata extensions used:

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