

DRTO_2010_marine_benthic_polygons

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Contact_Information:

Contact_Person_Primary:

Contact_Person: Judd Patterson

Contact_Organization: National Park Service South Florida/Caribbean Network

Contact_Position: GIS specialist

Contact_Address:

Address_Type: mailing and physical

Address: 18001 Old Cutler Rd. Suite 419

City: Palmetto Bay

State_or_Province: FL

Postal_Code: 33157

Country: United States

Contact_Voice_Telephone: 305-252-0347

Contact_Facsimile_Telephone: 305-253-0463

Contact_Electronic_Mail_Address: judd_patterson@nps.gov

Identification_Information:

Citation:

Citation_Information:

Originator: Rob Waara

Publication_Date: 2011

Title: DRTO_2010_marine_benthic_polygons

Online_Linkage: Default value.

Geospatial_Data_Presentation_Form: vector digital data

Description:

Abstract:

The first draft of this feature class was created in 2008 by the contractor Avineon, Inc.

This feature class was improved in 2010 by incorporating new high-resolution side scan

sonar data and 2054 field data points. Additional edits were made in August 2011 to ensure that this benthic habitat map would merge seamlessly with the 2010 vegetation map for the islands of Dry Tortugas National Park. To this end, the shapes of the islands were updated to reflect those in the 2010 vegetation map. For more information please see the final report: For more information please read the final project report: Waara, Robert J., Judd M. Patterson, Andrea J. Atkinson, Andrew J. Estep. 2011. Development and policy applications of the 2010 benthic habitat map for Dry Tortugas National Park. Natural Resource Technical Report NPS/SFCN/NRTR—2011/474. National Park Service, Fort Collins, Colorado.

Purpose:

The new benthic habitat map and corresponding products will help in showing what types of marine habitats are located in the Dry Tortugas National Park and provide the ability to track whether management interventions are effectively protecting the environment and associated resources.

Supplemental_Information:

For more information please read the final project report: Waara, Robert J., Judd M. Patterson, Andrea J. Atkinson, Andrew J. Estep. 2011. Development and policy applications of the 2010 benthic habitat map for Dry Tortugas National Park. Natural Resource Technical Report NPS/SFCN/NRTR—2011/474. National Park Service, Fort Collins, Colorado.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2011

Currentness_Reference: publication date

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As needed

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -82.969138

East_Bounding_Coordinate: -82.764819

North_Bounding_Coordinate: 24.726763

South_Bounding_Coordinate: 24.565810

Keywords:

Theme:

Theme_Keyword_Thesaurus: none

Theme_Keyword: DRTO

Theme_Keyword: Marine benthic habitat

Theme_Keyword: benthic

Theme_Keyword: habitat

Theme_Keyword: marine

Theme:

Theme_Keyword_Thesaurus: National Park Service Theme Category Thesaurus

Theme_Keyword: Resource Management

Theme:

Theme_Keyword_Thesaurus: ISO 19115 Topic Category

Theme_Keyword: Marine Benthic Communities

Place:

Place_Keyword_Thesaurus: National Park System Unit Name Thesaurus

Place_Keyword: DRTO

Place_Keyword: Dry Tortugas National Park

Place_Keyword: Florida

Place_Keyword: United States

Place:

Place_Keyword_Thesaurus: National Park System Unit Code Thesaurus

Place_Keyword: DRTO

Place:

Place_Keyword_Thesaurus: None

Place_Keyword: Dry Tortugas

Place_Keyword: Florida

Access_Constraints: none

Use_Constraints:

The data is intended for use as a tool for display and general GIS analysis purposes only.

It is in no way intended for engineering or legal purposes.

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Brian Witcher

Contact_Organization: National Park Service South Florida/Caribbean Network

Contact_Position: Data Manager

Contact_Address:

Address_Type: mailing and physical

Address: 18001 Old Cutler Rd. Suite 419

City: Palmetto Bay

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Country: United States

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Contact_Facsimile_Telephone: 305-253-0463

Contact_Electronic_Mail_Address: brian_witcher@nps.gov

Native_Data_Set_Environment:

Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 3; ESRI ArcCatalog 9.3.0.1770

Data_Set_Credit:

Avineon, Inc. and the National Park Service South Florida/Caribbean Network of the Inventory and Monitoring Program

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: G-polygon
Point_and_Vector_Object_Count: 0

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Planar:

Planar_Coordinate_Information:

Planar_Coordinate_Encoding_Method: coordinate pair

Planar_Distance_Units: meters

Coordinate_Representation:

Abscissa_Resolution: 0.000000

Ordinate_Resolution: 0.000000

Grid_Coordinate_System:

Grid_Coordinate_System_Name: Universal Transverse Mercator

Universal_Transverse_Mercator:

UTM_Zone_Number: 17

Transverse_Mercator:

Scale_Factor_at_Central_Meridian: 0.999600

Longitude_of_Central_Meridian: -81.000000

Latitude_of_Projection_Origin: 0.000000

False_Easting: 500000.000000

False_Northing: 0.000000

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1983

Ellipsoid_Name: Geodetic Reference System 80

Semi-major_Axis: 6378137.000000

Denominator_of_Flattening_Ratio: 298.257222

Vertical_Coordinate_System_Definition:

Altitude_System_Definition:

Altitude_Encoding_Method:

Explicit elevation coordinate included with horizontal coordinates

Altitude_Resolution: 0.000100

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: DRTO_2010_marine_benthic_polygons

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: OBJECTID

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: Shape_Area

Attribute_Definition: Area of feature in internal units squared.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Positive real numbers that are automatically generated.

Attribute:

Attribute_Label: High_Poten

Attribute_Definition: Potential site for high coral cover.

Attribute:

Attribute_Label: Map_Class

Attribute_Definition: Polygon descriptors for the benthic map.

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: Unconsolidated Sediments

Enumerated_Domain_Value_Definition:

Unconsolidated sediments with less than 10 percent colonization by Submerged Aquatic Vegetation (SAV) or corals.

Enumerated_Domain:

Enumerated_Domain_Value: Continuous SRV

Enumerated_Domain_Value_Definition:

Submersed Rooted Vascular Plants (SRV) (i.e. seagrasses and oligohaline grasses) in continuous beds of any shoot density (i.e. sparse continuous, dense continuous or any combination). These areas appear as continuous seagrass signatures; however, small (less than 0.5 acres) bare sediment areas may be observed as infrequent features within the area.

Enumerated_Domain:

Enumerated_Domain_Value: Discontinuous SRV

Enumerated_Domain_Value_Definition:

Areas of Submersed Rooted Vascular Plants (SRV) (i.e. seagrasses and oligohaline grasses) with breaks in coverage that result in isolated patches of SRV, usually in unconsolidated bottom but also exist in hard bottom areas. If the hardbottom is more abundant than the SRV the polygon should be recorded as Reef/Hardbottom Class and SRV can be noted with Modifiers. Generally, these grass features appear as semi-round patches or elongated strands separated by bare sediment.

Enumerated_Domain:

Enumerated_Domain_Value: Reef Terrace (high profile)

Enumerated_Domain_Value_Definition: Contiguous reef with high complexity and high relief (>2m).

Enumerated_Domain:

Enumerated_Domain_Value: Remnant (low profile)

Enumerated_Domain_Value_Definition:

Reefs of relief less than 2m that lack distinctive spur and groove characteristics. These reefs consist of coral and hard bottom features; often support soft corals, sponges, seagrass; and are usually found growing parallel to the reef tract, though they may form transverse features that grow perpendicular to the reef tract.

Enumerated_Domain:

Enumerated_Domain_Value: High Relief Spur and Groove

Enumerated_Domain_Value_Definition:

Distinct coral bands separated by sand or uncolonized hardbottom grooves. The coral bands have 1.5- 4m relief.

Enumerated_Domain:

Enumerated_Domain_Value: Low Relief Spur and Groove

Enumerated_Domain_Value_Definition:

Distinct coral bands oriented perpendicular to the shore or bank and separated by sand or uncolonized hardbottom grooves. The coral bands have <1.5m relief.

Enumerated_Domain:

Enumerated_Domain_Value: Reef Rubble

Enumerated_Domain_Value_Definition:

Dead, unstable coral rubble that often occurs landward of platform reefs.

Enumerated_Domain:

Enumerated_Domain_Value: Aggregated Patch Reefs

Enumerated_Domain_Value_Definition:

High complexity patch reefs that have high relief (up to 15m) from the sea floor. These structures may occur in clusters and are typically surrounded by large sand plains. Includes Halo areas if present. Patch reefs in general are irregularly shaped reef communities. They may range in size from tens to thousands of square meters. Patches are separated from each other by uncolonized hardbottom, sand, or colonized substrate with submersed aquatic vegetation (SAV), macroalgae, gorgonians or sponges. Most often the patches are surrounded by a halo of bare substrate created by foraging, obligate reef inhabitants.

Enumerated_Domain:

Enumerated_Domain_Value: Individual Patch Reef

Enumerated_Domain_Value_Definition:

Isolated, single patch reef (larger than the minimum mapping unit of the project) without associated halo area. These individual reefs may have an associated halo, however if large enough (i.e. greater than the minimum mapping unit) to be delineated the halo will be mapped as its own subclass. Patch reefs in general are irregularly shaped reef communities. They may range in size from tens to thousands of square meters. Patches are separated from each other by uncolonized hardbottom, sand, or colonized substrate with submersed aquatic vegetation (SAV), macroalgae, gorgonians or sponges. Most

often the patches are surrounded by a halo of bare substrate created by foraging, obligate reef inhabitants.

Enumerated_Domain:

Enumerated_Domain_Value: Patchy Coral and/or Rock in Unconsolidated Bottom

Enumerated_Domain_Value_Definition:

Areas of primarily sand, submerged aquatic vegetation (SAV), or low relief rock covered with a sand veneer. Often adjacent to spur and groove habitats, these areas contain small, individual corals or rocks that are distinctive yet a very low percentage of the total cover (and certainly smaller than the minimum mapping unit).

Enumerated_Domain:

Enumerated_Domain_Value: Pavement

Enumerated_Domain_Value_Definition:

Flat, low relief, mostly solid rock substrate (i.e. low relief hardbottom).

Enumerated_Domain:

Enumerated_Domain_Value: Land

Enumerated_Domain_Value_Definition: Terrestrial areas of map.

Attribute:

Attribute_Label: Shape_Leng

Attribute:

Attribute_Label: Island

Attribute_Definition: Island name, if appropriate.

Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Brian Witcher

Contact_Organization: National Park Service South Florida/Caribbean Network

Contact_Position: Data Manager

Contact_Address:

Address_Type: mailing and physical

Address: 18001 Old Cutler Rd. Suite 419

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Country: United States

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Contact_Facsimile_Telephone: 305-253-0463

Contact_Electronic_Mail_Address: brian_witcher@nps.gov

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Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Transfer_Size: 0.000

Fees: None

Resource_Description: Downloadable Data

Metadata_Reference_Information:

Metadata_Date: 20111031

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: National Park Service South Florida/Caribbean Network

Contact_Person: Brian Witcher

Contact_Position: Data Manager

Contact_Address:

Address_Type: mailing and physical

Address: 18001 Old Cutler Rd. Suite 419

City: Palmetto Bay

State_or_Province: FL

Postal_Code: 33157

Country: United States

Contact_Voice_Telephone: 305-252-0347

Contact_Facsimile_Telephone: 305-253-0463

Contact_Electronic_Mail_Address: brian_witcher@nps.gov

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

Lineage:

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