SE_FL_Benthic_Habitats_10Nov2015_PBunion

Metadata also available as

Metadata:

- Identification_Information
- Spatial_Data_Organization_Information
- Spatial_Reference_Information
- Entity_and_Attribute_Information
- Metadata_Reference_Information

Identification_Information:

Citation:

Citation_Information:

Originator:

Brian K Walker, Nova Southeastern University, Research Scientist

Publication_Date: 20130228

Title: SE_FL_Benthic_Habitats_10Nov2015_PBunion

Geospatial_Data_Presentation_Form: vector digital data

Description:

Abstract:

This shapefile is a combination of the most recent SE FL benthic habitat maps. The nearshore has been updated according to Walker and Klug 2014 (Hillsboro inlet to Fowey Rocks) and Cumming 2017 (Lake Worth inlet to Boynton inlet) combined with all previous mapping efforts. Cumming combined all hardbottom mapping from 2000 to present to obtain the total nearshore hardbottom extent. This habitat is variably exposed depending on temporal shifting sediment, beach nourishments, and large storm events. The Ecosystem regions were defiend in Walker 2012 and Walker and Gilliam 2013.The SE FL nearshore benthic habitats were mapped using the same combined technique approach as described in Walker, Riegl, and Dodge (2008). Polygons were created by outlining and defining the features at a 1:1,000 scale and minimum mapping unit of 0.1 ha within recent aerial photography and high resolution bathymetric survey data. Southeast Florida benthic habitat maps were produced by delineating seafloor features evident in multiple datasets including the GMR Aerial Surveys, Inc. dba Photo Scienceimagery collected for this purpose on March 8, 2013, 2008 Broward lidar, and 2009 NOAA bathymetry. This dataset built upon previous regional mapping efforts by Dr. Brian Walker at Nova Southeastern University. The habitats were classified according to established NOAA guidelines in coordination with the NOS Coral Mapping Program and use a similar classification scheme when possible.

Purpose: Southeast Florida Benthic Habitat maps.

Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 20020601
Ending_Date: 20121230
Currentness_Reference:
Southeast Florida nearshore habitat from Government Cut (Miami-Dade) to Hillsboro Inlet (Broward) seafloor.
Status:
Progress: In work
Maintenance_and_Update_Frequency: None planned
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -80.211252
East_Bounding_Coordinate: -79.978387
North_Bounding_Coordinate: 27.265095
South_Bounding_Coordinate: 25.563939
Keywords:
Theme:
Theme_Keyword_Thesaurus: None
Theme_Keyword: Southeast Florida
Theme_Keyword: Coral Reef Mapping
Theme_Keyword: Martin County
Theme_Keyword: LIDAR
Theme_Keyword: Benthic Habitats
Access_Constraints: None
Use_Constraints:
Contact Brian K. Walker at Nova Southeastern University for use limitations.
Data_Set_Credit:
This work was prepared for the Florida Department of Environmental Protection (Department) by Nova Southeastern University. Funding for this report was provided in part by a Coastal Services Center grant from the U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA) National Ocean Service Award No. NA11N0S4820003, and by the Department, through its Office of Coastal and Aquatic Managed Areas. The total cost of the project was $248,611.00, of which 100 percent was provided by the NOAA. The views, statements, findings, conclusions and recommendations expressed herein are those of the author(s) and do not necessarily reflect the views of the State of Florida, U.S. Department of Commerce, NOAA, or any of its subagencies.
Thank you to Florida Department of Environmental Protection Southeast Office of Coastal and Aquatic Managed Areas, the U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA) Coastal Services Center, and the South Florida Coral Reef Initiative for supporting this effort. Thanks to NOAA Office of Coast Survey, Broward County Natural Resources Planning and Management Division, and Coastal Planning and Engineering for supplying the LIDAR data.
We especially would like to thank Amanda Costaregni and Ian Rodericks of the Nova

Southeastern University Oceanographic Center (NSUOC) Geographic Information Systems and Spatial Ecology lab and Dr. David Gilliam and his NSUOC Coral Reef Restoration, Assessment & Monitoring Lab, for the many hours spent underwater to aid in the completion of data collection for this project, including Nicole D'Antonio, Ariel Halperin, Chuck Walton, Kathryn Binder, Cody Bliss, Lystina Kabay, Mauricio Lopez Padierna, and Daniel Fahy.
A final thank you to Captain Lance Robinson and Brian Buskirk for providing reliable vessels for our many field days.
Native_Data_Set_Environment: Version 6.2 (Build 9200) ; Esri ArcGIS 10.4.1.5686

Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method: Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: GT-polygon composed of chains
Point_and_Vector_Object_Count: 9124

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Planar:
Map_Projection:
Map_Projection_Name: WGS 1984 UTM Zone 17N
Transverse_Mercator:
Scale_Factor_at_Central_Meridian: 0.9996
Longitude_of_Central_Meridian: -81.0
Latitude_of_Projection_Origin: 0.0
False_Easting: 500000.0
False_Northing: 0.0
Planar_Coordinate_Information:
Planar_Coordinate_Encoding_Method: coordinate pair
Coordinate_Representation:
Abscissa_Resolution: 0.00000000222020024164500956
Ordinate_Resolution: 0.00000000222020024164500956
Planar_Distance_Units: meter
Geodetic_Model:
Horizontal_Datum_Name: D WGS 1984
Ellipsoid_Name: WGS 1984
Semi-major_Axis: 6378137.0
Denominator_of_Flattening_Ratio: 298.257223563

Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label: SE_FL_Benthic_Habitats_10Nov2015_PBunion
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: Habitat
Attribute:
Attribute_Label: Type
Attribute:
Attribute_Label: Region
Attribute:
Attribute_Label: Modifier
Attribute:
Attribute_Label: AREA_M
Attribute:
Attribute_Label: AREA_KM
Attribute:
Attribute_Label: COUNT
Attribute:
Attribute_Label: County
Attribute:
Attribute_Label: Type2
Attribute:
Attribute_Label: FishBiogeo
Attribute:
Attribute_Label: FishDeepSh
Attribute:
Attribute_Label: RgnFshDpth
Detailed_Description:
Entity_Type:
Entity_Type_Label: Region
Entity_Type_Definition: Coral Reef Ecosystem Biogeographic Region
Entity_Type_Definition_Source: Walker (2012) and Walker and Gillaim (in reveiw)

Metadata_Reference_Information:
Metadata_Date: 20161207
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:

Contact_Organization: Nova Southeastern University
Contact_Person: Brian K Walker
Contact_Position: Research Scientist
Contact_Address:
Address_Type: mailing and physical
Address: 8000 N Ocean Drive
City: Dania Beach
State_or_Province: FL
Postal_Code: 33004
Country: US
Contact_Voice_Telephone: 9542623675
Metadata_Standard_Name: FGDC Content Standard for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: local time

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