



FWRI Report

Diffuse Light Attenuation Coefficient

Metadata:

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Identification Information:

Citation:

Citation Information:

Online Linkage: <http://research.myfwc.com/>

Description:

Abstract:

Hu and Barnes from the University of South Florida modified the Lee et al. (2005) algorithm to derive "true" K_d (without bottom effect), or the diffuse light attenuation coefficient, from MODIS data. In situ samples from April 2011 to August 2012 validated the algorithm with an R^2 of 0.68. All data from stations 5 m. or shallower were excluded from this analysis, thus 5 m represents the minimum depth range that this algorithm should be applied. Amplitude (1/2 wave height) of the seasonal cycle was derived from MODIS data for 2002 to 2011 and represents the seasonal variation for all MODIS data for this time period in m^{-1} .

Purpose:

This dataset was created under the objectives of a NASA ROSES grant to Luke McEachron (co-PI), FWC grant # 2839, titled "satellite earth image products applied to development of regulatory water quality standards."

Supplemental Information:

Prior to July 1, 2004, the Fish and Wildlife Research Institute (FWRI) was known as the Florida Marine Research Institute (FMRI). The institute name has not been changed in historical data sets or references to work completed by the Florida Marine Research Institute. The institute name has been changed in references to ongoing research, new research, and contact information.

Time Period of Content:

Time Period Information:

Range of Dates/Times:

Beginning Date: 2002

Ending Date: 2011

Status:

Progress: Complete

Maintenance and Update Frequency: None Planned

Access Constraints: Available without restriction. All data must be verified by Principal Investigator or Group Database Analyst prior to release. It is strongly recommended that this data is directly acquired from FWC and not indirectly through other sources which may have changed the data in some way. FWC makes no claims as to the data's suitability for other purposes.

Use Constraints:

Acknowledgement of the FWC-FWRI (Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute) as the data source would be appreciated in any products developed from these data,



and such acknowledgment as is standard for citation and legal practices for data source is expected by users of this data. Please cite the original metadata when using portions of the record to create a similar record of slightly altered data, such as re-projection. If any data are modified or adjusted, please share the edited information with FWC. Users should be aware that comparison with other data sets for the same area from other time periods may be inaccurate due to inconsistencies resulting from changes in mapping conventions, data collection, and computer processes over time. FWC shall not be liable for improper or incorrect use of this data. These data are not legal documents and are not to be used as such. This is not a survey data set and should not be utilized as such. These data are not to be used for navigation.

Point of Contact:

Contact Information:

Contact Person Primary:

Contact Person: GISLibrarian

Contact Organization: Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

Contact Position: GIS Data Librarian

Contact Address:

Address Type: mailing and physical address

Address:

Fish and Wildlife Research Institute

Address:

100 Eighth Avenue Southeast

City: St. Petersburg

State or Province: Florida

Postal Code: 33701

Country: USA

Contact Voice Telephone: 727-896-8626

Contact Facsimile Telephone: 727-893-1679

Contact Electronic Mail Address: GISLibrarian@MyFWC.com

Hours of Service: 8:00 a.m.-5:00 p.m. Eastern time

Security Information:

Security Classification System: FWRI-DC

Security Classification: Available without restriction

Security Handling Description: Available without restriction

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Data Quality Information:

Lineage:

Process Step:

Process Description:

Data were derived from a raster format. It is recommended that the attributes be displayed without outlines

Process Date: 2/5/13

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Spatial Data Organization Information:

Point and Vector Object Information:

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Entity and Attribute Information:

Detailed Description:

Entity Type:

Entity Type Label: Kd_Amplitude_02to11

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: ID

Attribute:

Attribute Label: Amplitude

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Distribution Information:

Distributor:

Contact Information:

Contact Person Primary:

Contact Person: GISLibrarian

Contact Organization: Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute

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Distribution Liability:

This data set is in the public domain, and the recipient may not assert any proprietary rights thereto nor represent it to anyone as other than a FWC-FWRI produced data set; it is provided "as-is" without warranty of any kind, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The user assumes all responsibility for the accuracy and suitability of this data set for a specific application. In no event will the staff of the Fish and Wildlife Research Institute be liable for any damages, including lost profits, lost savings, or other incidental or consequential damages arising from the use of or the inability to use this data set.

Standard Order Process:



Digital Form:

Digital Transfer Option:

Online Option:

Computer Contact Information:

Network Address:

Network Resource Name: <http://research.myfwc.com/>

Fees: None. However, persons or organizations requesting information must provide transfer media if FTP is not available and must pay express shipping costs if express shipping is required.

Ordering Instructions:

Contact GIS Librarian by e-mail, telephone, or letter explaining which products are needed and providing a brief description of how the products will be used. Also, provide name and address of the person or organization requesting the products.

Turnaround: Usually within 10 business days, although, complex requests may take longer

Custom Order Process:

Contact GIS Librarian

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Metadata Reference Information:

Metadata Contact:

Contact Information:

Contact Person Primary:

Contact Person: GISLibrarian

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Metadata Standard Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata Standard Version: FGDC-STD-001-1998

Metadata Time Convention: local time

Metadata Access Constraints: No restrictions on metadata

Metadata Use Constraints:

Metadata must be distributed with the data set.

Metadata Security Information:

Metadata Security Classification System: FWRI-MC

Metadata Security Classification: Available

Metadata Security Handling Description:

Metadata must be distributed with the data set.

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Center for Spatial Analysis

Fish and Wildlife Research Institute