

Identification_Information:

Citation:

Citation_Information:

Originator: EarthData International

Publication_Date: 20071218

Publication_Time: Unknown

Title: MDEM/MDEQ Coastal Ground Orthoimagery Mr SID Files

Edition: 2007

Geospatial_Data_Presentation_Form: remote-sensing image

Series_Information:

Series_Name: MS Coastal Ground Orthos Mr SID Files

Issue_Identification: 1

Publication_Information:

Publication_Place: EarthData International

Publisher: EarthData International

Description:

Abstract:

This metadata record describes the production of Mr SID compressed files for the 30cm and 15cm ground ortho natural color digital orthoimagery. The output Mr SID files are at a 15cm resolution for the entire data set and at a 20:1 compression ratio. All Mr SID files are in the Generation 3 format. The source data consisting of 2797 sheets (5000' x 5000') for the 6 coastal George, Hancock, Harrison, Jackson, Pearl River and Stone was compressed and mosaicked into 4-5 areas per county. This project was tasked by Mississippi Geographic Information, LLC (MGI) with Work Orders ED-9 & ED-9A. EarthData International, Inc. was authorized to undertake this project in accordance with the terms and conditions of the professional service agreement between MGI and EarthData International, Inc., dated February 14, 2007.

Purpose:

The imagery may be used for basemap, cadastral and/or infrastructure mapping purposes. All imagery was acquired in spring 2007 and processed during the spring, summer and fall of 2007.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 20070125

Ending_Date: 20070206

Currentness_Reference: Publication Date

Status:

Progress: Complete

Maintenance_and_Update_Frequency: Unknown

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -089.868435
East_Bounding_Coordinate: -088.399955
North_Bounding_Coordinate: +31.026046
South_Bounding_Coordinate: +30.252168

Keywords:

Theme:

Theme_Keyword_Thesaurus: Orthoimagery
Theme_Keyword: Natural Color
Theme_Keyword: Aerial Imagery
Theme_Keyword: Aerial Photography
Theme_Keyword: EarthData International
Theme_Keyword: Digital Orthos
Theme_Keyword: 1ft imagery
Theme_Keyword: 30cm imagery
Theme_Keyword: Mr SID

Place:

Place_Keyword_Thesaurus: Geographic Names Information System
Place_Keyword: EarthData International, Inc.
Place_Keyword: United States
Place_Keyword: Mississippi
Place_Keyword: Coastal MS

Access_Constraints: None

Use_Constraints: None

Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: EarthData International, Inc.
Contact_Person: Harold Rempel

Contact_Position: Program Management Director

Contact_Address:

Address_Type: mailing and physical address
Address: 7320 Executive Way
City: Frederick
State_or_Province: Maryland
Postal_Code: 21704

Contact_Voice_Telephone: 301-948-8550

Contact_Facsimile_Telephone: 301-963-2064

Contact_Electronic_Mail_Address: hrempele@earthdata.com

Hours_of_Service: 8:30-5:00pm

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

The source data has been produced to be fully compliant with the National Standard for Spatial Data Accuracy

(NSSDA) at a scale of 1 to 200.

Logical_Consistency_Report:

For the source imagery, compliance with the accuracy standard was ensured by the collection of photo identifiable GPS ground control after the acquisition of aerial imagery. The following checks were performed.

1. The ground control and airborne GPS data stream were validated through a fully analytical bundle aerotriangulation adjustment. The RMSE is less than 1/ 10,000th of the flying height.
2. The DSM (DEM) data was checked against the project control. The technician visited and confirmed the accuracy of the points during initial processing
3. Digital orthophotography was validated through an inspection of edge matching and visual inspection for image quality.

Completeness_Report:

The following methods are used to assure the source imagery accuracy.

1. Use of IMU (inertial measurement unit) and ground control network utilizing GPS techniques.
2. Use of airborne GPS (global positioning system) in conjunction with the acquisition of imagery. The following software is used for validation of the imagery and surface modeling.
 1. Aerotriangulation - ISTAR
 2. DSM and DEM data - ISTAR
 3. Digital Orthophotography - ISTAR, OrthoPro, and Photoshop.
 4. Bentley - MicroStation
 5. ISTAR
 6. ESRI - ArcView, ArcMap
 7. EarthData proprietary software
 8. Adobe - Photoshop

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

The source data has been produced to be fully compliant with the National Standard for Spatial Data Accuracy (NSSDA) at a scale of 1 to 200.

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report:

There is no vertical accuracy component to orthophotography.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator: EarthData International, Inc

Publication_Date: 20070514

Publication_Time: Unknown

Title: MDEM/MGI MS Coastal Counties Aerial Imagery

Edition: 1

Geospatial_Data_Presentation_Form: remote-sensing

image

Type_of_Source_Media: Firewire and/or DVD

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 20070102

Ending_Date: 20070214

Source_Currentness_Reference: Publication Date

Source_Citation_Abbreviation: Aerial Imagery

Source_Contribution:

The source, digital orthophotography is comprised of a 24 bit, natural color, 6" GSD and 1' GSD (15 and 30cm respectively) ground orthos for the ground ortho section of the MS Coastal Counties project area.

Process_Step:

Process_Description:

Mosaic attributes for the MrSID compression were set for a 20:1 compression. The input files were then inserted (30 and 15cm geotiffs) and then the following steps were followed:

- 1) Maximum zoom levels set for images
- 2) Weight - 2 Frequency Balance - 2
- 3) Sharpness - 0
- 4) Block Size - 64
- 5) Strip Height - 12
- 6) 2 Pass Optimizer
- 7) X Resolution - 0.5 (15cm), Y
- 8) Resolution - 0.5 (15cm)
- 9) Error Fraction - 0.125
- 10) Block Value - 2048
- 11) Resample Method - Nearest Neighbor

Completed MrDIS mosaics were delivered via DVD, separated by county.

Process_Date: 20070320

Source_Produced_Citation_Abbreviation: MrSID

Process_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Harold Rempel
Contact_Organization: EarthData International
Contact_Position: Program Management Director
Contact_Address:
Address_Type: mailing and physical address
Address: 7320 Executive Way
City: Frederick
State_or_Province: Maryland
Postal_Code: 21704
Country: USA
Contact_Voice_Telephone: (301) 948-8550
Contact_Facsimile_Telephone: (301) 963-2064
Contact_Electronic_Mail_Address:

hrempel@earthdata.com

Cloud_Cover: 0

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Raster

Raster_Object_Information:

Raster_Object_Type: Pixel

Row_Count: 5000

Column_Count: 5000

Vertical_Count: 1

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Planar:

Map_Projection:

Map_Projection_Name: Mercator

Mercator:

Scale_Factor_at_Equator: 0.999950

Longitude_of_Central_Meridian: -088.833333

False_Easting: 984250.000000

False_Northing: 0.000

Planar_Coordinate_Information:

Planar_Coordinate_Encoding_Method: coordinate pair

Coordinate_Representation:

Abscissa_Resolution: 0.000128

Ordinate_Resolution: 0.000128

Planar_Distance_Units: Survey Feet

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1983 HARN

Ellipsoid_Name: Geodetic Reference System 80

Semi-major_Axis: 6378137.000

Denominator_of_Flattening_Ratio: 298.257222

Vertical_Coordinate_System_Definition:

Altitude_System_Definition:

Altitude_Datum_Name: North American Vertical Datum of 1988

Altitude_Resolution: 0.5
Altitude_Distance_Units: US Survey Feet
Altitude_Encoding_Method: Implicit coordinate

Distribution_Information:

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Mississippi Geographic Information, LLC

Contact_Person: Bill McDonald

Contact_Position: Project Manager

Contact_Address:

Address_Type: mailing and physical address

Address: 143-A LeFleurs Square

City: Jackson

State_or_Province: MS

Postal_Code: 39211

Contact_Voice_Telephone: 601-355-9526

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Contact_Electronic_Mail_Address: Bill.McDonald@waggonereng.com

Resource_Description: Compressed Digital Aerial Imagery

Distribution_Liability: None

Metadata_Reference_Information:

Metadata_Date: 20071219

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: EarthData International, Inc.

Contact_Person: Harold Rempel

Contact_Position: Program Management Director

Contact_Address:

Address_Type: mailing and physical address

Address: 7320 Executive Way

City: Frederick

State_or_Province: Maryland

Postal_Code: 21701

Contact_Voice_Telephone: 301-948-8550

Contact_Facsimile_Telephone: 301-963-2064

Contact_Electronic_Mail_Address: hrempele@earthdata.com

Hours_of_Service: 8:30-5:00

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Access_Constraints: None

Metadata_Use_Constraints: None