<Countyname>_5ft

Shapefile

Thumbnail Not Available

Tags

elevation, Digital Elevation Model, Digital Terrain Model, DTM, Topography, Altitude, Height, Contour

Summary

The purpose of this project was to develop statewide Digital Elevation Data (DTM) from the statewide two foot resolution 2006/2007 aerial imagery.

Description

This metadata record describes the production of a Digital Terrain Model (DTM) and contours for the state of Mississippi. The DTM was compiled at a scale 400 feet from imagery with a 2' ground sample distance (GSD) from a previous statewide project. Part of the imagery acquisition occurred January through March, 2006. With additional acquisition occurred January, 2007. The following contributed to the Mississippi Statewide dataset: Fugro EarthData, Inc., Mississippi Geographic Information, LLC, Mississippi Department Environmental Quality, NOAA Coastal Services Center, Mississippi DOT, Mississippi State University, and Mississippi Coordinating Council for Remote Sensing and GIS.

Credits

There are no credits for this item.

Use limitations

Data should be used only as originally intended and is not for engineering or design purposes.

Extent

West -91.660862 **East** -91.148453
North 31.752979 **South** 31.189901

Scale Range

There is no scale range for this item.

ArcGIS Metadata ►

Topics and Keywords ►

* CONTENT TYPE Downloadable Data

Citation ►

* TITLE Adams_5ft

PRESENTATION FORMATS * digital map

Resource Details ►

DATASET LANGUAGES * English (UNITED STATES)

SPATIAL REPRESENTATION TYPE * vector

* PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.2.1.3497

CREDITS

ARCGIS ITEM PROPERTIES
* NAME Adams_5ft
* SIZE 1267.143
* LOCATION
file://\\10.10.7.98\maris1\Vector\Contours\County_Contour_shp\Adams_5ft.shp
* ACCESS PROTOCOL Local Area Network

Extents ►

EXTENT
VERTICAL EXTENT
* MINIMUM VALUE 35.000061
* MAXIMUM VALUE 449.999887

EXTENT
GEOGRAPHIC EXTENT
BOUNDING RECTANGLE
EXTENT TYPE Extent used for searching
* WEST LONGITUDE -91.660862
* EAST LONGITUDE -91.148453
* NORTH LATITUDE 31.752979
* SOUTH LATITUDE 31.189901
* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM
* WEST LONGITUDE 1883913.420125
* EAST LONGITUDE 2041706.553685
* SOUTH LATITUDE 617060.475777
* NORTH LATITUDE 820380.112115
* EXTENT CONTAINS THE RESOURCE Yes

Resource Constraints ►

CONSTRAINTS
LIMITATIONS OF USE
Data should be used only as originally intended and is not for engineering or design purposes.

Spatial Reference ►

ARCGIS COORDINATE SYSTEM
* TYPE Projected
* GEOGRAPHIC COORDINATE REFERENCE GCS_North_American_1983_HARN
* PROJECTION NAD_1983_HARN_StatePlane_Mississippi_West_FIPS_2302_Feet
* COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM
WELL-KNOWN IDENTIFIER 2900
X ORIGIN -16151000
Y ORIGIN -43523900
XY SCALE 137248168.13086346
Z ORIGIN -100000
Z SCALE 3048.0000000000005
M ORIGIN -100000
M SCALE 10000
XY TOLERANCE 0.0032808333333333331
Z TOLERANCE 0.0032808398950131233
M TOLERANCE 0.001
HIGH PRECISION true
LATEST WELL-KNOWN IDENTIFIER 2900
WELL-KNOWN TEXT
PROJCS["NAD_1983_HARN_StatePlane_Mississippi_West_FIPS_2302_Feet",GEOGCS["GCS_North_American_1983_HARN",DATUM["D_North_American_1983_HARN",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Transverse_Mercator"],PARAMETER["False_Easting",2296583.333333333],PARAMETER["False_Northing",0.0],PARAMETER["Central_Meridian",-90.33333333333333],PARAMETER["Scale_Factor",0.99995],PARAMETER["Latitude_Of_Origin",29.5],UNIT["Foot_US",0.3048006096012192],AUTHORITY["EPSG",2900]],VERTCS["NAVD_1988",VDATUM["North_American_Vertical_Datum_1988"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Foot",0.3048]]

REFERENCE SYSTEM IDENTIFIER
* VALUE 2900
* CODESPACE EPSG
* VERSION 8.2.6

Spatial Data Properties ►

VECTOR ►
* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS
FEATURE CLASS NAME Adams_5ft
* OBJECT TYPE composite
* OBJECT COUNT 861419

ARCGIS FEATURE CLASS PROPERTIES ►
FEATURE CLASS NAME Adams_5ft
* FEATURE TYPE Simple
* GEOMETRY TYPE Polyline
* HAS TOPOLOGY FALSE
* FEATURE COUNT 861419
* SPATIAL INDEX TRUE
* LINEAR REFERENCING TRUE

Geoprocessing history ►

PROCESS
DATE 2012-08-20 15:09:36
TOOL LOCATION C:\Program Files\ArcGIS\ArcToolbox\Toolboxes\Conversion Tools.tbx\MetadataImporter
COMMAND ISSUED
```
MetadataImporter J:/10-0020_MissBLK4/GIS/Metadata/20120126_DRAFT_METADATA/MS_contours.xml K:/MissBlock4/Adams.gdb/ElevationAndBathymetry\Contour K:/MissBlock4/Adams.gdb/ElevationAndBathymetry\Contour
```
INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

Distribution ►

DISTRIBUTOR ►
AVAILABLE FORMAT
* NAME File Geodatabase Feature Class

TRANSFER OPTIONS
ONLINE SOURCE
* LOCATION file:////\\PETTERSVILLE\K$\MissBlock4\Adams.gdb
* ACCESS PROTOCOL Local Area Network
* DESCRIPTION Downloadable Data

Hide Distributor ▲

DISTRIBUTION FORMAT
* NAME Shapefile

TRANSFER OPTIONS
* TRANSFER SIZE 1267.143

Fields ►

DETAILS FOR OBJECT Adams_5ft ►
* TYPE Feature Class
* ROW COUNT 861419
DEFINITION
Lines

DEFINITION SOURCE
Fugro EarthData, Inc.

FIELD FID ►
* ALIAS FID
* DATA TYPE OID
* WIDTH 4
* PRECISION 0
* SCALE 0
* FIELD DESCRIPTION
Internal feature number.

* DESCRIPTION SOURCE
Esri

* DESCRIPTION OF VALUES
Sequential unique whole numbers that are automatically generated.

FIELD OBJECTID ►
* ALIAS OBJECTID
* DATA TYPE Integer
* WIDTH 9
* PRECISION 9
* SCALE 0
FIELD DESCRIPTION
Internal feature number.

DESCRIPTION SOURCE
ESRI

DESCRIPTION OF VALUES
Sequential unique whole numbers that are automatically generated.

FIELD Shape ►
* ALIAS Shape
* DATA TYPE Geometry
* WIDTH 0
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Feature geometry.

DESCRIPTION SOURCE
ESRI

DESCRIPTION OF VALUES
Sequential unique whole numbers that are automatically generated.

FIELD SOURCE_DAT ►
* ALIAS SOURCE_DAT
* DATA TYPE String
* WIDTH 100
* PRECISION 0
* SCALE 0

FIELD DATA_SECUR ►
* ALIAS DATA_SECUR
* DATA TYPE SmallInteger
* WIDTH 4
* PRECISION 4
* SCALE 0

FIELD DISTRIBUTI ►
* ALIAS DISTRIBUTI
* DATA TYPE String
* WIDTH 4
* PRECISION 0
* SCALE 0

FIELD LOADDATE ►
* ALIAS LOADDATE
* DATA TYPE Date
* WIDTH 8
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION
Date

DESCRIPTION SOURCE
ESRI

LIST OF VALUES
VALUE Date
DESCRIPTION Image capture and processing date
ENUMERATED DOMAIN VALUE DEFINITION SOURCE Date of service

FIELD QUALITY ►
* ALIAS QUALITY
* DATA TYPE Integer
* WIDTH 9
* PRECISION 9
* SCALE 0
FIELD DESCRIPTION
Attribute code on the quality of the data base on MDEM standards

DESCRIPTION SOURCE
national data model

LIST OF VALUES
VALUE 1
DESCRIPTION MDEM
ENUMERATED DOMAIN VALUE DEFINITION SOURCE National Data Model

VALUE 2
DESCRIPTION Non MDEM
ENUMERATED DOMAIN VALUE DEFINITION SOURCE national data model

VALUE 0
DESCRIPTION unknown
ENUMERATED DOMAIN VALUE DEFINITION SOURCE national data model

ACCURACY INFORMATION
ACCURACY 1
EXPLANATION
MDEM

MEASUREMENT FREQUENCY None planned

FIELD SCALE ►
* ALIAS SCALE
* DATA TYPE Integer
* WIDTH 9
* PRECISION 9
* SCALE 0
FIELD DESCRIPTION
1:4800

DESCRIPTION SOURCE
national data model

LIST OF VALUES
VALUE 0
DESCRIPTION unknown or scale NA
ENUMERATED DOMAIN VALUE DEFINITION SOURCE national data model

VALUE 1

DESCRIPTION small scale
ENUMERATED DOMAIN VALUE DEFINITION SOURCE national data model

VALUE 2
DESCRIPTION medium scale
ENUMERATED DOMAIN VALUE DEFINITION SOURCE national data model

VALUE 3
DESCRIPTION large scale
ENUMERATED DOMAIN VALUE DEFINITION SOURCE national data model

ACCURACY INFORMATION
ACCURACY 2
EXPLANATION
medium

MEASUREMENT FREQUENCY None planned

FIELD CONTOURINT ►
* ALIAS CONTOURINT
* DATA TYPE Integer
* WIDTH 9
* PRECISION 9
* SCALE 0

FIELD CONTOURDES ►
* ALIAS CONTOURDES
* DATA TYPE Integer
* WIDTH 9
* PRECISION 9
* SCALE 0

FIELD CONTOURTYP ►
* ALIAS CONTOURTYP
* DATA TYPE Integer
* WIDTH 9
* PRECISION 9
* SCALE 0

FIELD CONTOURUNI ►
* ALIAS CONTOURUNI
* DATA TYPE Integer
* WIDTH 9

* PRECISION 9
* SCALE 0

FIELD Elevation ►
* ALIAS Elevation
* DATA TYPE Double
* WIDTH 19
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION
Height above sea level

DESCRIPTION SOURCE
Database

FIELD Level ►
* ALIAS Level
* DATA TYPE Integer
* WIDTH 9
* PRECISION 9
* SCALE 0

FIELD DESCRIPTION
Microstation designation

DESCRIPTION SOURCE
Microstation

DESCRIPTION OF VALUES
Microstation level

FIELD Shape_Leng ►
* ALIAS Shape_Leng
* DATA TYPE Double
* WIDTH 19
* PRECISION 0
* SCALE 0

Metadata Details ►

* METADATA LANGUAGE English (UNITED STATES)
* METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA * dataset
SCOPE NAME * dataset

* LAST UPDATE 2015-09-30

ARCGIS METADATA PROPERTIES
METADATA FORMAT ArcGIS 1.0
METADATA STYLE ISO 19139 Metadata Implementation Specification

CREATED IN ARCGIS FOR THE ITEM 2015-09-28 13:35:31
LAST MODIFIED IN ARCGIS FOR THE ITEM 2015-09-30 12:10:30

AUTOMATIC UPDATES
HAVE BEEN PERFORMED Yes
LAST UPDATE 2015-09-30 12:10:30

FGDC Metadata (read-only) ▼

CITATION
CITATION INFORMATION
ORIGINATOR Fugro EarthData, Inc.
PUBLICATION DATE 2012
PUBLICATION TIME Unknown
TITLE
Contour
EDITION 1st Edition
GEOSPATIAL DATA PRESENTATION FORM vector digital data
PUBLICATION INFORMATION
PUBLICATION PLACE Frederick, Maryland
PUBLISHER Fugro EarthData, Inc.
ONLINE LINKAGE \\PETTERSVILLE\K$\MissBlock4\Adams.gdb

DESCRIPTION
ABSTRACT
This metadata record describes the production of a Digital Terrain Model (DTM) and contours for the state of Mississippi. The DTM was compiled at a scale 400 feet from imagery with a 2' ground sample distance (GSD) from a previous statewide project. Part of the imagery acquisition occurred January through March, 2006. With additional acquisition occurred January, 2007. The following contributed to the Mississippi Statewide dataset: Fugro EarthData, Inc., Mississippi Geographic Information, LLC, Mississippi Department Environmental Quality, NOAA Coastal Services Center, Mississippi DOT, Mississippi State University, and Mississippi Coordinating Council for Remote Sensing and GIS.
PURPOSE
The purpose of this project was to develop statewide Digital Elevation Data (DTM) from the statewide two foot resolution 2006/2007 aerial imagery.
TIME PERIOD OF CONTENT
TIME PERIOD INFORMATION
RANGE OF DATES/TIMES
BEGINNING DATE 2006
ENDING DATE 2012
CURRENTNESS REFERENCE
ground condition
STATUS

PROGRESS Complete
MAINTENANCE AND UPDATE FREQUENCY Unknown

SPATIAL DOMAIN
BOUNDING COORDINATES
WEST BOUNDING COORDINATE -90.962554
EAST BOUNDING COORDINATE -90.388036
NORTH BOUNDING COORDINATE 34.523368
SOUTH BOUNDING COORDINATE 33.979278

KEYWORDS
THEME
THEME KEYWORD THESAURUS ISO 19115 Topic Category
THEME KEYWORD elevation
THEME KEYWORD Digital Elevation Model
THEME KEYWORD Digital Terrain Model
THEME KEYWORD DTM
THEME KEYWORD Topography
THEME KEYWORD Altitude
THEME KEYWORD Height
THEME KEYWORD Contour

PLACE
PLACE KEYWORD THESAURUS Geographic Names Information System
PLACE KEYWORD Mississippi
PLACE KEYWORD USA
PLACE KEYWORD North America

STRATUM
STRATUM KEYWORD THESAURUS Land
STRATUM KEYWORD Land Surface

TEMPORAL
TEMPORAL KEYWORD THESAURUS Date
TEMPORAL KEYWORD 2006
TEMPORAL KEYWORD 2007

ACCESS CONSTRAINTS
None
USE CONSTRAINTS
Data should be used only as originally intended and is not for engineering or design purposes.
POINT OF CONTACT
CONTACT INFORMATION
CONTACT ORGANIZATION PRIMARY
CONTACT ORGANIZATION Geospatial Resources Division MDEQ - Office of Geology
CONTACT POSITION Director Geospatial Resources Division
CONTACT ADDRESS
ADDRESS TYPE mailing address
ADDRESS PO Box 2279
CITY Jackson
STATE OR PROVINCE Mississippi
POSTAL CODE 39225-2279
COUNTRY UNITED STATES

CONTACT VOICE TELEPHONE 601-961-5506
CONTACT FACSIMILE TELEPHONE 601-961-5521

CONTACT ELECTRONIC MAIL ADDRESS Stephen_Champlin@deq.state.ms.us
HOURS OF SERVICE Monday through Friday, 8:30am to 5:00pm

SECURITY INFORMATION
SECURITY CLASSIFICATION SYSTEM National data model
SECURITY CLASSIFICATION Unclassified
SECURITY HANDLING DESCRIPTION None

NATIVE DATA SET ENVIRONMENT
Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 3; ESRI ArcCatalog 9.2.6.1500

ATTRIBUTE ACCURACY
ATTRIBUTE ACCURACY REPORT
The accuracy of the data is dependent upon the 2 foot pixel resolution aerial imagery. See positional accuracy for attributes pertaining to elevation.
QUANTITATIVE ATTRIBUTE ACCURACY ASSESSMENT
ATTRIBUTE ACCURACY VALUE 3.3
ATTRIBUTE ACCURACY EXPLANATION
RMSE value based on NGS points
LOGICAL CONSISTENCY REPORT
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 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.
The following methods are used to assure 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. 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
COMPLETENESS REPORT
The data was collected from two foot pixel aerial imagery. The data set includes obscured areas and seasonal standing water. Refer to metadata process steps for methodology.
POSITIONAL ACCURACY
HORIZONTAL POSITIONAL ACCURACY
HORIZONTAL POSITIONAL ACCURACY REPORT
This data has been produced to be fully compliant with the ASPRS Class 2 at a scale of 1 = 400 feet with a 2' GSD. Resulting horizontal accuracies of +/- 4 RMSE will meet or exceed ASPRS accuracy standards.

QUANTITATIVE HORIZONTAL POSITIONAL ACCURACY ASSESSMENT
HORIZONTAL POSITIONAL ACCURACY VALUE 1.84'
HORIZONTAL POSITIONAL ACCURACY EXPLANATION
Measurement of ground control versus stereo pairs after AT processing
VERTICAL POSITIONAL ACCURACY
VERTICAL POSITIONAL ACCURACY REPORT
Map scale 1:4800 with a 5 foot ASPRS Class II contour interval for the area. Data will reference Mississippi State Plane East and West coordinates, NAD83, NAVD88 vertical datum in US Survey Feet. Accuracy of all final map products will meet or exceed ASPRS Class II accuracy standards for large scale maps. Resulting vertical accuracies of +/- 3.3 RMSE will meet or exceed ASPRS accuracy standards.
QUANTITATIVE VERTICAL POSITIONAL ACCURACY ASSESSMENT
VERTICAL POSITIONAL ACCURACY VALUE 3.3' RMSE
VERTICAL POSITIONAL ACCURACY EXPLANATION
EarthData extracted a set of 7,294 NGS points throughout the state in order to complete the final product assessment.
LINEAGE
SOURCE INFORMATION
SOURCE CITATION
CITATION INFORMATION
ORIGINATOR EarthData International, Inc. (Aviation Division)
PUBLICATION DATE 2006-03-04
TITLE
Aerial Imagery
EDITION 1
GEOSPATIAL DATA PRESENTATION FORM remote-sensing image
SOURCE SCALE DENOMINATOR 4800
TYPE OF SOURCE MEDIA disc
SOURCE TIME PERIOD OF CONTENT
TIME PERIOD INFORMATION
RANGE OF DATES/TIMES
BEGINNING DATE 2006-01-03
ENDING DATE 2006-03-04
SOURCE CURRENTNESS REFERENCE
ground condition
SOURCE CITATION ABBREVIATION
Aerial Imagery
SOURCE CONTRIBUTION
Base imagery used to compile Breaklines, Mass points, Hydrography, and Transportation..
SOURCE INFORMATION
SOURCE CITATION
CITATION INFORMATION
ORIGINATOR Waggoner Engineering, Inc.
PUBLICATION DATE 2006-06-07
PUBLICATION TIME Unknown
TITLE
Mississippi Statewide - Photo Control
EDITION 1
GEOSPATIAL DATA PRESENTATION FORM model
OTHER CITATION DETAILS
The additional 72 points were collected in 2009.
SOURCE SCALE DENOMINATOR 4800
TYPE OF SOURCE MEDIA electronic mail system
SOURCE TIME PERIOD OF CONTENT
TIME PERIOD INFORMATION

SINGLE DATE/TIME
CALENDAR DATE 2006-04-13
SOURCE CURRENTNESS REFERENCE
ground condition
SOURCE CITATION ABBREVIATION
Ground Control
SOURCE CONTRIBUTION
Waggoner Engineering, Inc., under contract to EarthData International, Inc. successfully established ground control for the Mississippi Statewide project (Part A). A total of 43
ground control points in Mississippi were acquired using GPS for both vertical and horizontal coordinate values. All 43 points utilized photo identifiable points. Additional 72 points were surveyed to supplement the
compilation project. These points were collected using a
Similar methodology as the previous project.
SOURCE INFORMATION
SOURCE CITATION
CITATION INFORMATION
ORIGINATOR Fugro EarthData, Inc.
PUBLICATION DATE 2009
TITLE
Aerial Triangulation
EDITION 1
GEOSPATIAL DATA PRESENTATION FORM tabular digital data

SOURCE SCALE DENOMINATOR 4800
TYPE OF SOURCE MEDIA disc
SOURCE TIME PERIOD OF CONTENT
TIME PERIOD INFORMATION
SINGLE DATE/TIME
CALENDAR DATE 2012
SOURCE CURRENTNESS REFERENCE
ground condition
SOURCE CITATION ABBREVIATION
AT
SOURCE CONTRIBUTION
Aerial triangulation report was submitted with the data. This process is an extension of ground survey data to allow compilation of mapping data.
PROCESS STEP
PROCESS DESCRIPTION
Fugro EarthData, Inc. completed all phases of aerotriangulation (AT) for the 73 flight lines covering the Mississippi, Block 1 ADS40 Orthophotography Mapping Project. All final ADS40 data and related products will be delivered to the client in the projection(s) and datum(s) of UTM 16N, NAD83, Meters. All coordinates and measurements in this report will be presented in UTM 16N, NAD83, GRS80, Meters, unless otherwise stated. The results of this Aerial Triangulation solution are sufficient to support ASPRS Class 2 five foot contours.
Collections: 9
Collection Dates: January 3rd, 11th, 24th, 29th, and 31st, February 7th and 9th, 2006
Ground Sample Distance (GSD): 1 pixel is equal to 2 ft
Flight Level(s):18900 ft above mean terrain (AMT)
Camera Type: Leica ADS-40
Camera Serial Number(s): SP9, SH-30034, SP6
All imagery for the collection of was acquired on the dates January 3rd, 11th, 24th, 29th, and 31st, February 7th and 9th, 2006 from an altitude of 18900 ft above mean terrain (AMT). The resulting Ground Sample Distance (GSD) of 1 pixel is equal to 2 ft of ground coverage. Fugro EarthData, Inc. acquired all photography using the Leica

ADS-40 digital airborne sensor, serial number(s) SP9, SH-30034, SP6, each with a calibrated focal length of 62.77 mm. The entire project collection was completed with a total of 9 lift(s).

SOURCE USED CITATION ABBREVIATION
Ground Control

SOURCE USED CITATION ABBREVIATION
Aerial Imagery

PROCESS DATE 2009-09-22

SOURCE PRODUCED CITATION ABBREVIATION
AT

PROCESS CONTACT

CONTACT INFORMATION

CONTACT ORGANIZATION PRIMARY

CONTACT ORGANIZATION Fugro EarthData, Inc.

CONTACT PERSON Robert Riley

CONTACT POSITION Project Manager

CONTACT ADDRESS

ADDRESS TYPE mailing and physical address

ADDRESS 7320 Executive Way

CITY Frederick

STATE OR PROVINCE MD

POSTAL CODE 21704

COUNTRY UNITED STATES

CONTACT VOICE TELEPHONE 301-948-8550 x212

CONTACT FACSIMILE TELEPHONE 301-963-2064

CONTACT ELECTRONIC MAIL ADDRESS briley@earthdata.com

HOURS OF SERVICE Monday through Friday, 8:30am to 5:00pm

PROCESS STEP

PROCESS DESCRIPTION
Fugro EarthData, Inc. completed all phases of aerotriangulation (AT) for the 75 flight lines covering the Mississippi, Block 2 ADS40 Orthophotography Mapping Project. All final ADS40 data and related products will be delivered to the client in the projection(s) and datum(s) of UTM 16N, NAD83, Meters. All coordinates and measurements in this report will be presented in UTM 16N, NAD83, GRS80, Meters, unless otherwise stated. The results of this Aerial Triangulation solution are sufficient to support ASPRS Class 2 five foot contours.
Collections: 11
Collection Dates: January 5th, 7th, 14th, and 31st, February 4th, 7th, 9th, and 13th, 2006
Ground Sample Distance (GSD): 1 pixel is equal to 2 ft
Flight Level(s):18900ft above mean terrain (AMT)
Camera Type: Leica ADS40
Camera Serial Number(s): SP9, SH-30034, SP12, SP6
All imagery for the collection of was acquired on the dates January 5th, 7th, 14th, and 31st, February 4th, 7th, 9th, and 13th, 2006 from an altitude of 18900 ft above mean terrain (AMT). The resulting Ground Sample Distance (GSD) of 1 pixel is equal to 2 ft of ground coverage. Fugro EarthData, Inc. acquired all photography using the Leica ADS40 digital airborne sensor, serial number(s) SP9, SH-30034, SP12, SP6, each with a calibrated focal length of 62.77 mm. The entire project collection was completed with a total of 11 lift(s).

PROCESS DATE 2009-09-22

PROCESS CONTACT

CONTACT INFORMATION

CONTACT ORGANIZATION PRIMARY
CONTACT ORGANIZATION Fugro EarthData, Inc.
CONTACT PERSON Robert Riley
CONTACT POSITION Project Manager
CONTACT ADDRESS
ADDRESS TYPE mailing and physical address
ADDRESS 7320 Executive Way
CITY Frederick
STATE OR PROVINCE MD
POSTAL CODE 21704
COUNTRY UNITED STATES

CONTACT VOICE TELEPHONE 301-948-8550
CONTACT FACSIMILE TELEPHONE 301-863-2064
CONTACT ELECTRONIC MAIL ADDRESS briley@earthdata.com
HOURS OF SERVICE M-F 8-5

PROCESS STEP
PROCESS DESCRIPTION
Fugro EarthData, Inc. completed all phases of aerotriangulation (AT) for the 73 flight lines covering the Mississippi, Block 3 ADS40 Orthophotography Mapping Project. All final ADS40 data and related products will be delivered to the client in the projection(s) and datum(s) of UTM 16N, NAD83, Meters. All coordinates and measurements in this report will be presented in UTM 16N, NAD83, GRS80, Meters, unless otherwise stated. The results of this Aerial Triangulation solution are sufficient to support ASPRS Class 2 five foot contours.
Collections: 13
Collection Dates: January 5th, 7th, 11th, 14th, and 25th, February 13th, March 1st and 4th, 2006
Ground Sample Distance (GSD): 1 pixel is equal to 2 ft
Flight Level(s): 18900 ft above mean terrain (AMT)
Camera Type: Leica ADS40
Camera Serial Number(s): SP9, SH-30034, SP12, SP6, SP17, SP19
All imagery for the collection of was acquired on the dates January 5th, 7th, 11th, 14th, and 25th, February 13th, March 1st and 4th, 2006 from an altitude of 18901 ft above mean terrain (AMT). The resulting Ground Sample Distance (GSD) of 1 pixel is equal to 2 ft of ground coverage. Fugro EarthData, Inc. acquired all photography using the Leica ADS40 digital airborne sensor, serial number(s) SP9, SH-30034, SP12, SP6, SP17, SP19, each with a calibrated focal length of 62.77 mm. The entire project collection was completed with a total of 13 lift(s).
PROCESS DATE 2009-09-22

PROCESS CONTACT
CONTACT INFORMATION
CONTACT ORGANIZATION PRIMARY
CONTACT ORGANIZATION Fugro EarthData, Inc.
CONTACT PERSON Robert Riley
CONTACT POSITION Project Manager
CONTACT ADDRESS
ADDRESS TYPE mailing and physical address
ADDRESS 7320 Executive Way
CITY Frederick
STATE OR PROVINCE MD
POSTAL CODE 21704
COUNTRY UNITED STATES

CONTACT VOICE TELEPHONE 301-948-8550
CONTACT FACSIMILE TELEPHONE 301-963-2064
CONTACT ELECTRONIC MAIL ADDRESS briley@earthdata.com

PROCESS STEP
PROCESS DESCRIPTION
Fugro EarthData, Inc. completed all phases of aerotriangulation (AT) for the 59 flight lines covering the Mississippi, Block 4 ADS40 Orthophotography Mapping Project. All final ADS40 data and related products will be delivered to the client in the projection(s) and datum(s) of UTM 16N, NAD83, Meters. All coordinates and measurements in this report will be presented in UTM 16N, NAD83, GRS80, Meters, unless otherwise stated. The results of this Aerial Triangulation solution are sufficient to support ASPRS Class 2 five foot contours.
Collections: 9
Collection Dates: January 5th, 8th, 14th, and 29th, February 7th and 8th, 2006
Ground Sample Distance (GSD): 1 pixel is equal to 2 ft
Flight Level(s): 19150 ft above mean terrain (AMT)
Camera Type: Leica ADS40
Camera Serial Number(s): SP9, SH-30034, SP12, SP6, SP17, SP19
All imagery for the collection of was acquired on the dates January 5th, 8th, 14th, and 29th, February 7th and 8th, 2006 from an altitude of 19150 ft above mean terrain (AMT). The resulting Ground Sample Distance (GSD) of 1 pixel is equal to 2 ft of ground coverage. Fugro EarthData, Inc. acquired all photography using the Leica ADS40 digital airborne sensor, serial number(s) SP9, SH-30034, SP12, SP6, SP17, SP19, each with a calibrated focal length of 62.77 mm. The entire project collection was completed with a total of 9 lift(s).
PROCESS DATE 2009-10-28

PROCESS CONTACT
CONTACT INFORMATION
CONTACT ORGANIZATION PRIMARY
CONTACT ORGANIZATION Fugro EarthData, Inc.
CONTACT PERSON Robert Riley
CONTACT POSITION Project Manager
CONTACT ADDRESS
ADDRESS TYPE mailing and physical address
ADDRESS 7320 Executive Way
CITY Frederick
STATE OR PROVINCE MD
POSTAL CODE 21704
COUNTRY UNITED STATES

CONTACT VOICE TELEPHONE 301-948-8550
CONTACT FACSIMILE TELEPHONE 301-963-2064
CONTACT ELECTRONIC MAIL ADDRESS briley@earthdata.com

PROCESS STEP
PROCESS DESCRIPTION
Fugro EarthData, Inc. completed all phases of aerotriangulation (AT) for the 56 flight lines covering the Mississippi, Block 5 ADS40 Orthophotography Mapping Project. All final ADS40 data and related products will be delivered to the client in the projection(s) and datum(s) of UTM 16N, NAD83, Meters. All coordinates and measurements in this report will be presented in UTM 16N, NAD83, GRS80, Meters, unless otherwise stated. The results of this Aerial Triangulation solution are sufficient to support ASPRS Class 2 five foot contours.
Collections: 12

Collection Dates: January 2nd, 6th, 9th, and 29th, March 8th, 9th, 16th, and 17th, 2007
Ground Sample Distance (GSD): 1 pixel is equal to 2 ft
Flight Level(s): 18900 ft above mean terrain (AMT)
Camera Type: Leica ADS40
Camera Serial Number(s): SP9, SP19
All imagery for the collection of was acquired on the dates January 2nd, 6th, 9th, and 29th, March 8th, 9th, 16th, and 17th, 2007 from an altitude of 18901 ft above mean terrain (AMT). The resulting Ground Sample Distance (GSD) of 1 pixel is equal to 2 ft of ground coverage. Fugro EarthData, Inc. acquired all photography using the Leica ADS40 digital airborne sensor, serial number(s) SP9, SP19, each with a calibrated focal length of 62.77 mm. The entire project collection was completed with a total of 12 lift(s).

PROCESS DATE 2009-09-22

PROCESS CONTACT
CONTACT INFORMATION
CONTACT ORGANIZATION PRIMARY
CONTACT ORGANIZATION Fugro EarthData, Inc.
CONTACT PERSON Robert Riley
CONTACT POSITION Project Manager
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CITY Frederick
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POSTAL CODE 21704
COUNTRY UNITED STATES

CONTACT VOICE TELEPHONE 301-948-8550
CONTACT FACSIMILE TELEPHONE 301-963-2064
CONTACT ELECTRONIC MAIL ADDRESS briley@earthdata.com

PROCESS STEP
PROCESS DESCRIPTION
Stereo pairs generated from the 2' GSD orthoimagery, were used for compiling the breaklines and mass points.
Breaklines were captured along water features and designate closed marsh, other open water and other water bodies (i.e. streams) were captured to the standard cartographic specifications for 400-scale mapping.
Supporting compiled features include a 200' post grid of mass points and other required breaklines necessary to support generation of 5' Class II contours. Breaklines were placed in such locations as sharp peaks and valleys, cliffs, drop offs, cut, fill, road crowns, drainage features, etc. It should be noted that these supplemental breaklines were compiled on an as-needed basis only, and will not serve as a complete transportation or other planimetric data layer. Breaklines were placed to suitably define the terrain for the contours to meet the accuracy standard. Following breakline compilation, extraneous mass points may have been eliminated near breakline features that take precedence for contour generation. As a result, the final deliverable mass point data set may have isolated areas that do not comply with the nominal 200' spacing.
SOURCE USED CITATION ABBREVIATION
Ground Control
SOURCE USED CITATION ABBREVIATION
Aerial Imagery
PROCESS DATE 2012

PROCESS CONTACT
CONTACT INFORMATION
CONTACT ORGANIZATION PRIMARY
CONTACT ORGANIZATION Fugro EarthData, Inc.
CONTACT PERSON Robert Riley
CONTACT POSITION Project Manager
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PROCESS STEP
PROCESS DESCRIPTION
Following compilation and editing of the mass points and breaklines, a triangulated irregular network (TIN) was generated as the first step in contour generation. Using the resulting TIN, the contours were generated at a 5' interval. The 5-foot contours were auto-generated using TerraModeler software running on MicroStation. The TIN is considered a production product only and will not be delivered. All resulting contour datasets were translated from MicroStation to ArcInfo geodatabase meeting the requirements of the client supplied database schema.
PROCESS DATE 2012

PROCESS CONTACT
CONTACT INFORMATION
CONTACT ORGANIZATION PRIMARY
CONTACT ORGANIZATION Fugro EarthData, Inc.
CONTACT PERSON Robert Riley
CONTACT POSITION Project Manager
CONTACT ADDRESS
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PROCESS STEP
PROCESS DESCRIPTION
In areas with water above normal levels the elevation was established where the water was at its lowest point on either end of the high water. The elevation was then computed on either end to establish flow direction. Water direction was checked at inflows from side streams as well and flow direction was verified.
PROCESS DATE 2012

PROCESS CONTACT
CONTACT INFORMATION

CONTACT ORGANIZATION PRIMARY
CONTACT ORGANIZATION Fugro Earthdata, Inc.
CONTACT POSITION Project Manager
CONTACT ADDRESS
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HOURS OF SERVICE 8-5 M-F

PROCESS STEP
PROCESS DESCRIPTION
The aerial imagery acquisition for the Mississippi Statewide project (Part A) was flown to support the creation of digital orthophotography with a 2' GSD. The imagery was acquired in 31 lifts consisting of 285 lines running east, west. The imagery was flown at 18,900 feet above mean terrain. Imagery was flown with a 30% overlap between flight lines. All imagery was collected using the Leica ADS40 digital push broom sensor. The aerial imagery acquisition for Part B MS was flown to support the creation of digital orthophotography with a 2ft GSD. The imagery was acquired in 6 lifts consisting of 116 lines running east, west. The imagery was flown at 18900 Des. Alt AGL (ft). Imagery was flown with a 30% overlap between flight lines. All imagery was collected using the Leica ADS40 digital push broom sensor.
PROCESS DATE 2006

CLOUD COVER 0

HORIZONTAL COORDINATE SYSTEM DEFINITION
PLANAR
PLANAR COORDINATE INFORMATION
PLANAR COORDINATE ENCODING METHOD coordinate pair
COORDINATE REPRESENTATION
ABSCISSA RESOLUTION 0.000328
ORDINATE RESOLUTION 0.000328
PLANAR DISTANCE UNITS survey feet

GEODETIC MODEL
HORIZONTAL DATUM NAME D_North_American_1983_HARN
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 DATUM NAME North American Vertical Datum of 1988
ALTITUDE RESOLUTION 0.000328
ALTITUDE DISTANCE UNITS Feet
ALTITUDE ENCODING METHOD Explicit elevation coordinate included with horizontal coordinates

Detailed Description
Entity Type
Entity Type Label Contour
Entity Type Definition
Lines
Entity Type Definition Source Fugro EarthData, Inc.

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
Sequential unique whole numbers that are automatically generated.

Attribute
Attribute Label SOURCE_DAT

Attribute
Attribute Label DATA_SECUR

Attribute
Attribute Label DISTRIBUTI

Attribute
Attribute Label LOADDATE
Attribute Definition
Date
Attribute Definition Source ESRI
Attribute Domain Values
Enumerated Domain
Enumerated Domain Value Date
Enumerated Domain Value Definition
Image capture and processing date
Enumerated Domain Value Definition Source
Date of service

Attribute
Attribute Label QUALITY

Attribute Definition
Attribute code on the quality of the data base on MDEM standards
Attribute Definition Source national data model
Attribute Domain Values
Enumerated Domain
Enumerated Domain Value 1
Enumerated Domain Value Definition
MDEM
Enumerated Domain Value Definition Source
National Data Model
Enumerated Domain
Enumerated Domain Value 2
Enumerated Domain Value Definition
Non MDEM
Enumerated Domain Value Definition Source
national data model
Enumerated Domain
Enumerated Domain Value 0
Enumerated Domain Value Definition
unknown
Enumerated Domain Value Definition Source
national data model
Attribute Value Accuracy Information
Attribute Value Accuracy 1
Attribute Value Accuracy Explanation
MDEM
Attribute Measurement Frequency
None planned

Attribute
Attribute Label SCALE
Attribute Definition
1:4800
Attribute Definition Source national data model
Attribute Domain Values
Enumerated Domain
Enumerated Domain Value 0
Enumerated Domain Value Definition
unknown or scale NA
Enumerated Domain Value Definition Source
national data model
Enumerated Domain
Enumerated Domain Value 1
Enumerated Domain Value Definition
small scale
Enumerated Domain Value Definition Source
national data model
Enumerated Domain
Enumerated Domain Value 2
Enumerated Domain Value Definition
medium scale
Enumerated Domain Value Definition Source
national data model
Enumerated Domain
Enumerated Domain Value 3
Enumerated Domain Value Definition
large scale
Enumerated Domain Value Definition Source
national data model

Attribute Value Accuracy Information
Attribute Value Accuracy 2
Attribute Value Accuracy Explanation
medium
Attribute Measurement Frequency
None planned

Attribute
Attribute Label CONTOURINT

Attribute
Attribute Label CONTOURDES

Attribute
Attribute Label CONTOURTYP

Attribute
Attribute Label CONTOURUNI

Attribute
Attribute Label Elevation
Attribute Definition
height above sea level
Attribute Definition Source database
Attribute Domain Values

Attribute
Attribute Label Level
Attribute Definition
Microstation designation
Attribute Definition Source Microstation
Attribute Domain Values
Unrepresentable Domain
Microstation level

Attribute
Attribute Label Shape_Leng

Distributor
Contact Information
Contact Organization Primary
Contact Organization Mississippi Geospatial Clearinghouse, Mississippi Department Information Technology Service
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Address Type physical address
Address 301 N. Lamar Street, Suite 508
City Jackson
State or Province MS
Postal Code 39201-1495
Country UNITED STATES

Contact Voice Telephone (601) 359-1395
Contact Facsimile Telephone (601) 354-6016
Hours of Service 8:00 - 5:00

Resource Description Mississippi Statewide Digital Terrain Model (DTM) and Contour Mapping 2006-2007
Distribution Liability

The Mississippi Office of Geology provides the data to any interested party as is in the present format.

STANDARD ORDER PROCESS
DIGITAL FORM
DIGITAL TRANSFER INFORMATION
FORMAT NAME ARCE
FORMAT VERSION NUMBER gdb
FORMAT SPECIFICATION
available in a variety of formats

DIGITAL TRANSFER OPTION
ONLINE OPTION
COMPUTER CONTACT INFORMATION
NETWORK ADDRESS
NETWORK RESOURCE NAME http://www.gis.ms.gov

OFFLINE OPTION
OFFLINE MEDIA portable hard drive
RECORDING CAPACITY
RECORDING DENSITY 1
RECORDING DENSITY UNITS NA
RECORDING FORMAT MS
COMPATIBILITY INFORMATION
MS

FEES none
ORDERING INSTRUCTIONS
see Geospatial Clearinghouse website for instructions.

AVAILABLE TIME PERIOD
TIME PERIOD INFORMATION
SINGLE DATE/TIME
CALENDAR DATE 2012

METADATA DATE 2012-10-13
METADATA REVIEW DATE 2012-08-10
METADATA CONTACT
CONTACT INFORMATION
CONTACT ORGANIZATION PRIMARY
CONTACT ORGANIZATION Fugro EarthData, Inc.
CONTACT PERSON Robert Riley
CONTACT POSITION Project Manager
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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 USE CONSTRAINTS
None
METADATA EXTENSIONS
ONLINE LINKAGE http://www.esri.com/metadata/esriprof80.html
PROFILE NAME ESRI Metadata Profile
METADATA EXTENSIONS
ONLINE LINKAGE http://www.esri.com/metadata/esriprof80.html
PROFILE NAME ESRI Metadata Profile