Onondaga County - 24-inch Resolution Natural Color Orthoimagery

Metadata:

Identification_Information:

Citation:

Citation_Information:

Originator: NYS Cyber Security
Publication_Date: Spring 2007
Title:
Onondaga County - 24-inch Resolution Natural Color Orthoimagery
Geospatial_Data_Presentation_Form: remote-sensing image
Series_Information:

Series_Name: NYS Digital Orthoimagery Program (NYSDOP)

Publication_Information:

Publisher: NYS CSCIC

Description:

Abstract:
These files contain 2006 digital orthoimagery of Onondaga County, New York. Image pixel size is 2 ft. GSD. Image type is Natural Color. Image horizontal accuracy is +/-8 ft. at the 95% confidence level. Each file contains an image covering 6000 ft. by 4000 ft. on the ground.
Purpose:
This digital orthoimagery can serve a variety of purposes, from general planning to field reference for spatial analysis to a tool for revision of vector maps. It can also serve as a reference layer for GIS.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: April 2006

Currentness_Reference:
ground condition

Status:

Progress: Complete
Maintenance_and_Update_Frequency: Irregular

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -76.509626
East_Bounding_Coordinate: -75.878111
North_Bounding_Coordinate: 43.282377
South_Bounding_Coordinate: 42.764428

Keywords:

Theme:

Theme_Keyword_Thesaurus: Orthophoto, ortho
Theme_Keyword: Digital orthoimagery

Access_Constraints: Some imagery tiles are classified as sensitive due to their content. These sensitive imagery tiles have been reprocessed to reduce the clarity of sensitive features. Non-sensitive content on these tiles is unaltered. Only the re-processed versions of sensitive tiles are made openly available to the public. A separate procedure is available for requesting original, full resolution versions of these tiles.
Use_Constraints:
Use of sensitive imagery, if granted, is only for the use specified in the request.
Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Tim Ruhren
Contact_Organization: NYS Cyber Security

Contact_Position: NYS GIS Clearinghouse
Contact_Address:

Address_Type: mailing address
Address:
30 South Pearl Street
City: Albany
State_or_Province: New York
Postal_Code: 12207-3425
Country: USA

Contact_Voice_Telephone: 518-474-5212
Contact_Facsimile_Telephone: 518-473-5848
Contact_Electronic_Mail_Address: nysgis@dhses.ny.gov

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Data_Quality_Information:

Logical_Consistency_Report:
The dataset contains raster images or digital or digital ortho images so the logical consistency report is not applicable. The file naming convention was supplied by New York State and is based on the co-ordinate pair of the lower left corner of the ortho tile. When the ortho tiles were created the file names where restricted to a numeric value representing the lower left corner of the ortho tile. 10470162 represents a tile with the lower left corner of 1047000, 162000. These tiles were then all renamed using a batch script so that they reflected the N.Y. state standard c_10470162_24_14400_col_2006.tif. Consistency of file naming was ensured by using a batch process.

Completeness_Report:
The project consisted of 790 final tiles

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:
+/-8 ft. at the 95% confidence level (NSSDA)

Lineage:

Process_Step:

Process_Description:
The digital natural color aerial imagery was acquired in spring 2006 using a DMC sensor flown at a nominal height of 19,200 [r3] feet AMT (Above Mean Terrain). ABGPS data was also collected supplemented by New York State CORS data. Digital imagery was reviewed for completeness and, after any adjustments, approved by CSCIC. The Ground Control used to support the digital natural color ortho imagery production was collected by identifying strategic points on previous aerial photography then determining the coordinates by ground survey techniques. The new Ground Control was supplemented by targeting of existing control monuments from previous year’s orthoimagery production and by existing HARN station data. The Digital Aerial Triangulation (DAT) was performed, primarily, using softcopy workstations and Intergraph's ISPM software [r4] . DAT solutions were independently reviewed and checked using blind control points. Digital Elevation Models (DEM) (masspoints and breaklines) used to support ortho imagery production were created using standard photogrammetric collection techniques on Intergraph's SSK soft copy workstations. A combination of new DEM and densified DEM from previous years work were produced. The images were then ortho rectified using Intergraph's OrthoPro software. Color balancing was performed using both Intergraph's OrthoPro software and Orthovista. Seamless mosaicing was performed by automatic and manual seamline creation using Intergraph's IRASC software and then importing them into OrthoPro for mosaicing. Images were then color balanced and quality controlled using Intergraph's IRASC, OrthoPro and Adobe PhotoShop software. Mosaics are color and tone balanced over the entire county and between counties. The seamless mosaic was clipped into tiles using OrthoPro software. The imagery product deliverables are GeoTIFF images with embedded header information describing the required projection, pixel size, tile size and other related data. Final files were then compressed to JPG2000 files (.jp2) with corresponding world files (j2w) at a compression ratio of 20:1 using Lizard Techs GeoExpress v8.0 software. All j2ps required MapInfo TAB files and ESRI AUX files.

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Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Raster
Raster_Object_Information:

Raster_Object_Type: Pixel
Row_Count: 2000
Column_Count: 3000
Vertical_Count: 1

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Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Planar:

Map_Projection:

Map_Projection_Name: Transverse Mercator
Transverse_Mercator:
Transverse Mercator

Scale_Factor_at_Central_Meridian: 0.999938
Longitude_of_Central_Meridian: -76.583333
Latitude_of_Projection_Origin: 40.000000
False_Easting: 820208.333333
False_Northing: 0.000000

Planar_Coordinate_Information:

Planar_Coordinate_Encoding_Method: row and column
Coordinate_Representation:

Abscissa_Resolution: 2.000000
Ordinate_Resolution: 2.000000

Planar_Distance_Units: survey feet

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

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Distribution_Information:

Resource_Description: Downloadable Data
Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Transfer_Size:

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Metadata_Reference_Information:

Metadata_Date: 20061201
Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: NYS CSCIC
Contact_Person: Tim Ruhren

Contact_Address:

Address_Type: mailing address
Address:
30 South Pearl Street
City: Albany
State_or_Province: New York
Postal_Code: 12207-3425
Country: USA

Contact_Voice_Telephone: 518-474-5212

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

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