

Onondaga County 24-inch Resolution Color Infrared Orthoimagery

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Identification Information:

Citation:

Citation Information:

Originator: NYS Office of Cyber Security

Publication Date: Spring 2004

Title:

Onondaga County 24-inch Resolution Color Infrared Orthoimagery

Geospatial Data Presentation Form: remote-sensing image

Series Information:

Series Name: NYS Digital Orthoimagery Program (NYSDOP)

Publication Information:

Publisher: NYS OCS

Description:

Abstract:

These files contain 2003 digital orthoimagery of Onondaga County, New York. Image pixel size is 2 ft. GSD. Image type is color infrared. 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.

Supplemental Information:

Digital elevation models used for orthorectification where compiled from several sources, all of which were compiled photogrammetrically.

Time Period of Content:

Time Period Information:

Single_Date/Time:

Calendar_Date: April 2003

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 and are only available to the public through a separate request procedure.

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 Office of Cyber Security

Contact_Position: NYS GIS Clearinghouse

Contact_Address:

Address_Type: mailing and physical 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@dhsec.ny.gov

Data_Set_Credit:

NYS Office of Cyber Security

Native_Data_Set_Environment:

TIFF images scanned on a Z/I high-resolution photocopier

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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 were restricted to a numeric value representing the lower left corner of the ortho tile.

10470162 which represented 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

I_10470162_12_5000_col_2000.tif Consistency of file naming was ensured by the batch process.

Completeness_Report:

The project consisted of 2238 final tiles

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

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

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report:

Not applicable.

Lineage:

Process_Step:

Process_Description:

The aerial film was acquired in 2003. The imagery was scanned at 14 microns using a Z/I Imaging Photocopy TD-1 scanner. The Ground control used to support the ortho mapping was collected by identifying strategic points on the aerial photography then determining the coordinates by ground survey techniques. The Aerial Triangulation was performed using softcopy workstations and Intergraph's ISDM software. Bundle adjustment was performed using PAT-B and Digital Elevation Models were created using standard photogrammetric collection techniques on Intergraph's SSK soft copy workstation. During the bridging process, both the DEM and the bridge deck were captured as well as the ground features surrounding the bridge. A "DTM apron" was delineated at each side of the elevated bridge and the resulting smearing is located and accumulated in the solid black apron area. The images were then ortho rectified using Intergraph's Base Rectifier software. Color balancing was performed using both Intergraph's IRASC package and Orthovista. Seamless mosaicing was performed using Triathlon's AIM software and the seamless mosaic was clipped into tiles using Triathlon's Clipmos software. Images were then inspected using Intergraph's IRASC and Adobe PhotoShop software. Final files were then compressed using MrSID. Final deliverables in tiff format with tfw files were placed on DVD while the MrSID files

were placed on CD. Final quality control for horizontal accuracy and image quality was performed by New York State.

Cloud_Cover: <1%

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Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Raster

Raster_Object_Information:

Raster_Object_Type: Pixel

Row_Count: 4000

Column_Count: 6000

Vertical_Count: 1

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Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Planar:

Grid_Coordinate_System:

Grid_Coordinate_System_Name: State Plane Coordinate System 1983

State_Plane_Coordinate_System:

SPCS_Zone_Identifier: 3102

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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Entity_and_Attribute_Information:

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Distribution_Information:

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Transfer_Size: 2276

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Metadata_Reference_Information:

Metadata_Date: 20030509

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: NYS OCS

Contact_Person: Tim Ruhren

Contact_Address:

Address_Type: mailing and physical 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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