Onondaga County 12-inch Resolution Natural Color Orthoimagery

Metadata:

- Identification_Information
- Data_Quality_Information
- Spatial_Data_Organization_Information
- Spatial_Reference_Information
- Entity_and_Attribute_Information
- Distribution_Information
- Metadata_Reference_Information

Identification_Information:

   Citation:

      Citation_Information:

         Originator: NYS Office of Cyber Security
         Publication_Date: Spring 2004
         Title:
            Onondaga County 12-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 OCS

   Description:

      Abstract:
         These files contain 2003 digital orthoimagery of Onondaga County, New York. Image pixel size is 1.0 ft. GSD. Image type is natural color. Image horizontal accuracy is +/-4 ft. at the 95% confidence level. Each file contains an image covering 3000 ft. by 2000 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: -76.386136
        East_Bounding_Coordinate: -75.912268
        North_Bounding_Coordinate: 43.249305
        South_Bounding_Coordinate: 42.951200

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@dhses.ny.gov

Data_Set_Credit:
　　NYS Office of Cyber Security
Native_Data_Set_Environment:
　　TIFF images scanned on a Z/I high-resolution photoscanner

Data_Quality_Information:

Logical_Consistency_Report:
　　The dataset contains raster images or digital or digital ortho images so the logical consitency 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 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 37 final tiles

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:
　　+/-4 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 Photoscan 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 where 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%

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

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: 1.000000
                    Ordinate_Resolution: 1.000000

                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

Entity_and_Attribute_Information:

Distribution_Information:

    Standard_Order_Process:

        Digital_Form:

            Digital_Transfer_Information:

                Transfer_Size: 33

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