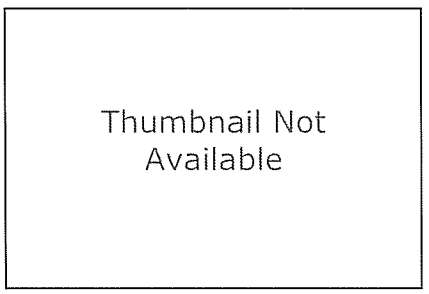
Grand Forks - East Grand Forks MPO

Raster Dataset



Tags

Aerial Photography, Photography, Color Photography, Imagery, Aerial Imagery, Orthophoto, Photo, Mapping, GIS, Planning, Land Use Planning, Grand Forks, North Dakota, East Grand Forks, Minnesota, Grand Forks - East Grand Forks Metropolitan Planning Organization, MPO

Summary

Color Orthophotos were generated for the Grand Forks - East Grand Forks Metropolitan Planning Organization (MPO). Ortho imagery could be utilized in various applications including GIS, planning and engineering. The direct use and application of the orthophotos will be at the discretion of MPO.

Description

Aerial imagery was acquired over the project area with a Digital Mapping Camera (DMC) on April 10, 2015. Using Airborne GPS and existing ground control, an aerial triangulation solution was created using ISAT software. From the AT solution and existing DEM, (RGB/8bit) orthophotos were generated using the InPho software suite at a 0.5' pixel resolution (0.5 GSD) in Geo-Tiff and ECW Format (Compression Ratio 20:1) with registration files. Ortho images were delivered in NAD 83/HARN 3301-North Dakota North zone State Plane Coordinates in US-Survey Feet.

Credits

Quantum Spatial, Inc. 13400 - 68th Avenue North, Suite #100 Maple Grove, MN 55311

Use limitations

There are no access and use limitations for this item.

Extent

West -97.046344 **East** -97.033591
North 47.846405 **South** 47.837819

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:150,000,000

ArcGIS Metadata ▶

Topics and Keywords ▶

THEMES OR CATEGORIES OF THE RESOURCE imageryBaseMapsEarthCover, planningCadastre, transportation

* CONTENT TYPE Downloadable Data
EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

PLACE KEYWORDS Grand Forks, East Grand Forks, North Dakota, Minnesota, Red River

THEME KEYWORDS Digital Orthophoto, Orthophoto, Ortho, Photo, Imagery, Aerial Photography, Images, GIS, Planning, Land Use Planning, Grand Forks - East Grand Forks Metropolitan Planning Organization (MPO)

Hide Topics and Keywords ▲

Citation ▶

TITLE Grand Forks - East Grand Forks MPO

PRESENTATION FORMATS * digital map

Hide Citation ▲

Citation Contacts ▶

RESPONSIBLE PARTY
INDIVIDUAL'S NAME Teri Kouba
ORGANIZATION'S NAME Grand Forks - East Grand Forks MPO
CONTACT'S POSITION Planner
CONTACT'S ROLE resource provider

CONTACT INFORMATION ▶
PHONE
VOICE (218) 773-0124

ADDRESS
TYPE both
DELIVERY POINT 255 North Fourth Street, PO Box 5200
CITY Grand Forks
ADMINISTRATIVE AREA ND
POSTAL CODE 58206
COUNTRY UNITED STATES
E-MAIL ADDRESS terikouba@theforksmpo.org

Hide Contact information ▲

Hide Citation Contacts ▲

Resource Details ▶

DATASET LANGUAGES * English (UNITED STATES)
DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

SPATIAL REPRESENTATION TYPE * grid

SPATIAL RESOLUTION
GROUND SAMPLE DISTANCE
PRECISION OF SPATIAL DATA [in_us] (inch)

* PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.1.0.3035

CREDITS

Quantum Spatial, Inc. 13400 - 68th Avenue North, Suite #100 Maple Grove, MN 55311

ARCGIS ITEM PROPERTIES
* NAME Template.tif
* LOCATION file://E:\FinalBigTiles_MN\Template.tif
* ACCESS PROTOCOL Local Area Network

Hide Resource Details ▲

Extents ▶

EXTENT
DESCRIPTION
Orthophoto data is centered over the city of Grand Forks, ND and covers approximately 144 square miles. The coverage extends 12 miles (north/south) by 13 miles (east/west) with an irregular boundary on the northeast and southeast project limits.

GEOGRAPHIC EXTENT
BOUNDING RECTANGLE
EXTENT TYPE Extent used for searching
* WEST LONGITUDE -97.046344
* EAST LONGITUDE -97.033591
* NORTH LATITUDE 47.846405
* SOUTH LATITUDE 47.837819
* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM
* WEST LONGITUDE 2816380.000000
* EAST LONGITUDE 2819380.000000
* SOUTH LATITUDE 324760.000000
* NORTH LATITUDE 327760.000000
* EXTENT CONTAINS THE RESOURCE Yes

Hide Extents ▲

Resource Points of Contact ▶

POINT OF CONTACT
INDIVIDUAL'S NAME Teri Kouba
ORGANIZATION'S NAME Grand Forks - East Grand Forks MPO
CONTACT'S POSITION Planner
CONTACT'S ROLE resource provider

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Hide Contact information ▲

Hide Resource Points of Contact ▲

Spatial Reference ▶

ARCGIS COORDINATE SYSTEM
* TYPE Projected
* GEOGRAPHIC COORDINATE REFERENCE GCS_North_American_1983
* PROJECTION NAD_1983_StatePlane_North_Dakota_North_FIPS_3301_Feet
* COORDINATE REFERENCE DETAILS
PROJECTED COORDINATE SYSTEM
WELL-KNOWN IDENTIFIER 102720
X ORIGIN -116784100
Y ORIGIN -99537700
XY SCALE 37924219.152847983
Z ORIGIN -100000
Z SCALE 10000
M ORIGIN -100000
M SCALE 10000
XY TOLERANCE 0.0032808333333333331
Z TOLERANCE 0.001
M TOLERANCE 0.001
HIGH PRECISION true
LATESTWKID 102720
WELL-KNOWN TEXT PROJCS
["NAD_1983_StatePlane_North_Dakota_North_FIPS_3301_Feet",GEOGCS
["GCS_North_American_1983",DATUM["D_North_American_1983",SPHEROID
["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT
["Degree",0.0174532925199433]],PROJECTION["Lambert_Conformal_Conic"],PARAMETER
["False_Easting",1968500.0],PARAMETER["False_Northing",0.0],PARAMETER
["Central_Meridian",-100.5],PARAMETER
["Standard_Parallel_1",47.43333333333333],PARAMETER
["Standard_Parallel_2",48.73333333333333],PARAMETER["Latitude_Of_Origin",47.0],UNIT
["Foot_US",0.3048006096012192],AUTHORITY["ESRI",102720]]

REFERENCE SYSTEM IDENTIFIER
* VALUE 102720
* CODESPACE ESRI
* VERSION 10.1.0

Hide Spatial Reference ▲

Spatial Data Properties ▶

GEORECTIFIED GRID ▶
* NUMBER OF DIMENSIONS 2

AXIS DIMENSIONS PROPERTIES
DIMENSION TYPE column (x-axis)
* DIMENSION SIZE 6000
* RESOLUTION 0.500000 Foot_US

AXIS DIMENSIONS PROPERTIES
DIMENSION TYPE row (y-axis)
* DIMENSION SIZE 6000
* RESOLUTION 0.500000 Foot_US

* CELL GEOMETRY area
* POINT IN PIXEL center

* TRANSFORMATION PARAMETERS ARE AVAILABLE Yes

* CHECK POINTS ARE AVAILABLE No

CORNER POINTS
* POINT 2816380.000000 324760.000000
* POINT 2816380.000000 327760.000000
* POINT 2819380.000000 327760.000000
* POINT 2819380.000000 324760.000000

* CENTER POINT 2817880.000000 326260.000000

Hide Georectified Grid ▲

ARCGIS RASTER PROPERTIES ▶
GENERAL INFORMATION
* PIXEL DEPTH 8
* COMPRESSION TYPE None
* NUMBER OF BANDS 3
* RASTER FORMAT TIFF
* SOURCE TYPE continuous
* PIXEL TYPE unsigned integer
* HAS COLORMAP No
* HAS PYRAMIDS Yes

Hide ArcGIS Raster Properties ▲

Hide Spatial Data Properties ▲

Spatial Data Content ▶

IMAGE DESCRIPTION
* TYPE OF INFORMATION image
ATTRIBUTE DESCRIBED BY CELL VALUES Color 24bit (RGB)

BAND INFORMATION
* DESCRIPTION Band_1
UNITS
* SYMBOL Foot_US
* NUMBER OF BITS PER VALUE 8

BAND INFORMATION
* DESCRIPTION Band_2
UNITS
* SYMBOL Foot_US
* NUMBER OF BITS PER VALUE 8

BAND INFORMATION
* DESCRIPTION Band_3
UNITS
* SYMBOL Foot_US
* NUMBER OF BITS PER VALUE 8

TRIANGULATION HAS BEEN PERFORMED No
RADIOMETRIC CALIBRATION IS AVAILABLE No
CAMERA CALIBRATION IS AVAILABLE No
FILM DISTORTION INFORMATION IS AVAILABLE No
LENS DISTORTION INFORMATION IS AVAILABLE No

Hide Spatial Data Content ▲

Lineage ▶

LINEAGE STATEMENT

Aerial imagery was acquired over the project area with a Digital Mapping Camera (DMC) on April 10, 2015. Using Airborne GPS and existing ground control, an aerial triangulation solution was created using ISAT software. From the AT solution and existing DEM, (RGB/8bit) orthophotos were generated using the InPho software suite at a 0.5' pixel resolution (0.5 GSD) in Geo-Tif and ECW Format (Compression Ratio 20:1) with registration files. Ortho images were delivered in NAD 83/HARN 3301-North Dakota North zone State Plane Coordinates in US-Survey Feet. These images have been designed to conform to the National Map Accuracy Standards for 1"=100' orthophoto production. Reasonable care was exercised to conform to the standards of practice ordinarily used by the photogrammetric profession.

Hide Lineage ▲

Distribution ▶

DISTRIBUTION FORMAT
* NAME Raster Dataset

Hide Distribution ▲

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 2015-08-07

ARCGIS METADATA PROPERTIES
METADATA FORMAT ArcGIS 1.0
METADATA STYLE FGDC CSDGM Metadata
STANDARD OR PROFILE USED TO EDIT METADATA FGDC

CREATED IN ARCGIS FOR THE ITEM 2012-08-30 08:53:34
LAST MODIFIED IN ARCGIS FOR THE ITEM 2015-08-07 17:12:21

AUTOMATIC UPDATES
HAVE BEEN PERFORMED Yes
LAST UPDATE 2015-08-07 17:12:21

Hide Metadata Details ▲

Metadata Contacts ▶

METADATA CONTACT
INDIVIDUAL'S NAME Teri Kouba
ORGANIZATION'S NAME Grand Forks - East Grand Forks MPO
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Metadata Maintenance ▶

MAINTENANCE
UPDATE FREQUENCY as needed

Hide Metadata Maintenance ▲