San Antonio Missions National Historical Park, 2005 Rancho Color IR Photomosaic Metadata

Identification_Information:
  Citation:
    Citation_Information:
      Originator: USDA-FSA-APFO
      Publication_Date: 20050309
      Title: rancho_2005_clip.tif
      Geospatial_Data_Presentation_Form: raster digital data
      Publication_Information:
        Publication_Place: Salt Lake City, Utah
        Publisher: USDA_FSA_APFO Aerial Photography Field Office
      Online_Linkage: C:\Projects\nps\SAAN\CD\Basemaps\NAIP_2005\rancho_2005_clip.tif
      Online_Linkage: http://biology.usgs.gov/npsveg/saan/index.html#aerial_photo
  Description:
    Abstract:
      This data set contains imagery from the National Agricultural Imagery Program (NAIP). NAIP acquires digital ortho imagery during the agricultural growing seasons in the continental U.S.. A primary goal of the NAIP program is to enable availabilty of ortho imagery within a year of acquisition. NAIP provides two main products: 1 meter ground sample distance (GSD) ortho imagery rectified to a horizontal accuracy of within +/- 3 meters of reference digital ortho quarter quads (DOQQS) from the National Digital Ortho Program (NDOP); and, 2 meter GSD ortho imagery rectified to within +/- 20 meters of reference DOQQs. The tiling format of NAIP imagery is based on a 3.75' x 3.75' quarter quadrangle with a 360 meter buffer on all four sides. NAIP quarter quads are rectified to the UTM coordinate system NAD83. NAIP imagery can obtain as much as 10% cloud cover per tile.

      This file was generated by compressing mosaicked digital quarter quadrangle image tiles scanned from natural color positive or color infrared positive aerial film into a single mosaic. The mosaic may cover all or portions of an individual county. MrSid software compression, with mosaic option, was used to create the final product.

      Each individual image tile within the mosaic covers a 3.75 X 3.75 minute quarter quadrangle plus a 360 meter buffer on all four sides. All individual tile images and the resulting mosaic were rectified to the UTM coordinate system, NAD 83 and cast into a single predetermined UTM zone. All digital products and the underlying film images were produced through the National Agriculture Imagery Program (NAIP). The primary purpose of the mosaicked digital ortho quarter quads is to support USDA Field Service Centers located in counties throughout the United States.
    Purpose:
      The 1 meter GSD NAIP is intended as a source for current digital ortho imagery in USDA Field Service Center GIS and for other uses that require ortho imagery acquired during the agricultural growing season.
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    Time_Period_Information:
      Single_Date/Time:
        Calendar_Date: 2004
    Currentness_Reference: Acquisition years of source image Dates.
  Status:
    Progress: Complete
    Maintenance_and_Update_Frequency: Irregular
  Spatial_Domain:
    Description_of_Geographic_Extent: San Antonio Missions National Historical Park and environs
    Bounding_Coordinates:
      West_Bounding_Coordinate: -98.185923
      East_Bounding_Coordinate: -98.147613
      North_Bounding_Coordinate: 29.108663

South_Bounding_Coordinate: 29.082435
Keywords:
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Theme_Keyword: Mosaic
Theme_Keyword: Georeferenced Image
Theme_Keyword: Quarter Quadrangle Centered
Theme_Keyword: Georectification
Theme_Keyword: USDA-FSA-APFO Aerial Photography Field Office
Theme_Keyword: compression
Theme_Keyword: MrSID
Theme_Keyword: NAIP
Theme_Keyword: Compliance
Theme_Keyword: Aerial Compliance
Theme_Keyword: Farming
Theme_Keyword: Agriculture
Place:
Place_Keyword_Thesaurus: Geographic Names Information System
Place_Keyword: TX
Place_Keyword: Wilson
Place_Keyword: WILSON CO TX FSA
Place_Keyword: 48493
Access_Constraints: There are no limitations for access.
Use_Constraints:
None, The Aerial Photography Field Office asks to be credited in derived products.
Point_of_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: USDA-FSA Aerial Photography Field Office
Contact_Address:
Address_Type: mailing and physical address
Address: 2222 West 2300 South
City: Salt Lake City
State_or_Province: Utah
Postal_Code: 84119-2020
Country: USA
Contact_Voice_Telephone: 801-975-3503
Contact_Facsimile_Telephone: 801-975-3532
Contact_Electronic_Mail_Address: sales@apfo.usda.gov
Native_Data_Set_Environment: Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 9.2.0.1324

Data_Quality_Information:
Logical_Consistency_Report:
NAIP 3.75 minute tile file names are based on the USGS quadrangle naming convention.
Completeness_Report: None
Positional_Accuracy:
Horizontal_Positional_Accuracy:
Horizontal_Positional_Accuracy_Report:
The positional accuracy for the digital data is tested by visual comparison to a data source with a higher order of accuracy.
Vertical_Positional_Accuracy:
Vertical_Positional_Accuracy_Report: N/A 2d only
Lineage:
Source_Information:

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Source_Citation_Abbreviation: Georectified Image
Source_Contribution: NAIP Digital Quarter Quadrangle used in Mosaicked County Image.
Process_Step:
Process_Description:
Imagery was flown with Leica ADS40 digital sensors to capture 0.9m raw data. Raw data is then downloaded using Leica GPro software into 12 bit TIFF format. The raw TIFF imagery is then georeferenced and reprojected using GPS/INS 200Hz exterior orientation information (x/y/z/o/p/k) to allow stereo viewable imagery. This stereo viewable imagery is processed with the GPro/LPS automatic point matching algorithm to determine common match points every 2000 pixels across the imagery strip and 333 pixels along strip. This pattern includes dual rows of line ties to the adjacent line of imagery. The resulting point data is imported in Leica ORIMA and used to perform a full bundle adjustment of the imagery point data. Any blunders are removed, and weak areas are manually supplemented to ensure good coverage of points. Once the point data is cleaned and point coverage is acceptable vertical control points from the prior generation MDOQ's are introduced in the corners and center of the block being adjusted. This control is used to perform any datum shift (x/y/z and rotation) to ensure the new adjusted imagery fits the existing MDOQ reference imagery. The output from this bundle adjustment process is revised exterior orientation data for the sensor with any GPS/INS, datum, and sensor calibration errors modeled and compensated for. Using this revised EO data orthorectified image strips are created using the USGS DEM. The 10m DEM is used where available and 30m DEM is used elsewhere. The orthorectified strips are overlaid over the existing MDOQ compressed files to ensure accuracy is met by a visual inspection and manually measuring features. Once the accuracy of the orthorectified image strips are validated the strips are processed with a NWG proprietary dodging package that compensates for the bi-directional reflectance function that is caused by the sun's position relative to the image area. This compensated imagery is then imported into Inpho's OrthoVista 4.0 package which is used for the final radiometric balance, mosaic, and DOQQ sheet creation. These final DOQQ sheets contain a 300m minimum buffer. These final DOQQ tiles are edge inspected to the existing MDOQ sheets for accuracy validation. The final DOQQ tiles are then organized into directories based on the USDA provided county lists. A visual inspection is performed of the entire county to ensure all tiles are present and the radiometric quality of the county looks good. If the radiometric quality is acceptable the county is compressed to MG3 format using Lizard Tech's GeoExpress v5.0 with a compression factor of 15 and 9 overview levels. Once this compression is complete manual reviewing is performed to ensure satisfactory results. The associated CCM shapefile is created using ESRI ArcView 9.0 with the latest service packs.
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Process_Date: Unknown

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Indirect_Spatial_Reference: Wilson, TX
Direct_Spatial_Reference_Method: Raster
Raster_Object_Information:
Raster_Object_Type: Pixel
Row_Count: 1440

Column_Count: 1854
Vertical_Count: 1

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Horizontal_Coordinate_System_Definition:
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Universal_Transverse_Mercator:
UTM_Zone_Number: 14
Transverse_Mercator:
Scale_Factor_at_Central_Meridian: 0.999600
Longitude_of_Central_Meridian: -99.000000
Latitude_of_Projection_Origin: 0.000000
False_Easting: 500000.000000
False_Northing: 0.000000
Planar_Coordinate_Information:
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Abscissa_Resolution: 2.000000
Ordinate_Resolution: 2.000000
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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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24-bit pixels, 3 band color(RGB) values 0 - 255
Entity_and_Attribute_Detail_Citation: None

Distribution_Information:
Distributor:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: USGS Center for Biological Informatics
Contact_Position: USGS-NPS Vegetation Mapping Program Coordinator
Contact_Address:
Address_Type: mailing and physical address
Address: United States Geological Survey, Center for Biological Informatics
Address: MS 302, Bldg 810, Room 8000
Address: Denver Federal Center
City: Denver
State_or_Province: Colorado
Postal_Code: 80225
Country: USA
Contact_Voice_Telephone: 303 202-4220
Contact_Facsimile_Telephone: 303 202-4219
Contact_Facsimile_Telephone: 303 202-4229
Contact_Electronic_Mail_Address: gs-b-npsveg@usgs.gov
Resource_Description: Downloadable Data
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  Standard_Order_Process:
    Digital_Form:
      Digital_Transfer_Information:
        Format_Name: HTML
      Digital_Transfer_Option:
        Online_Option:
          Computer_Contact_Information:
            Network_Address:
              Network_Resource_Name: http://biology.usgs.gov/npsveg/saan/index.html#aerial_photo
          Access_Instructions: Internet Access
    Fees: None
  Standard_Order_Process:
    Digital_Form:
      Digital_Transfer_Information:
        Format_Name: Compressed County Mosaic
        Format_Information_Content: Color Infrared
      Digital_Transfer_Option:
        Online_Option:
          Computer_Contact_Information:
            Network_Address:
              Network_Resource_Name: None
        Offline_Option:
          Offline_Media: CD-ROM
          Recording_Format: ISO 9660
    Fees: Contact the Aerial Photography Field Office for more information

Metadata_Reference_Information:
  Metadata_Date: 20080313
  Metadata_Review_Date: 20080911
  Metadata_Contact:
    Contact_Information:
      Contact_Organization_Primary:
        Contact_Organization: USGS-NPS Vegetation Mapping Program Coordinator
      Contact_Address:
        Address_Type: mailing and physical address
        Address:
```

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Contact_Electronic_Mail_Address: gs-b-npsveg@usgs.gov
Metadata_Standard_Name: FGDC-STD-001.1-1999 Content Standard for Digital Geospatial Metadata, 1998 Part 1: Biological Data Profile, 1999
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Extensions:
Online_Linkage: http://metadata.nbii.gov/portal/community/Communities/Toolkit/Metadata/FGDC_Metadata/
Profile_Name: Biological Data Profile FGDC-STD-001.1-1999