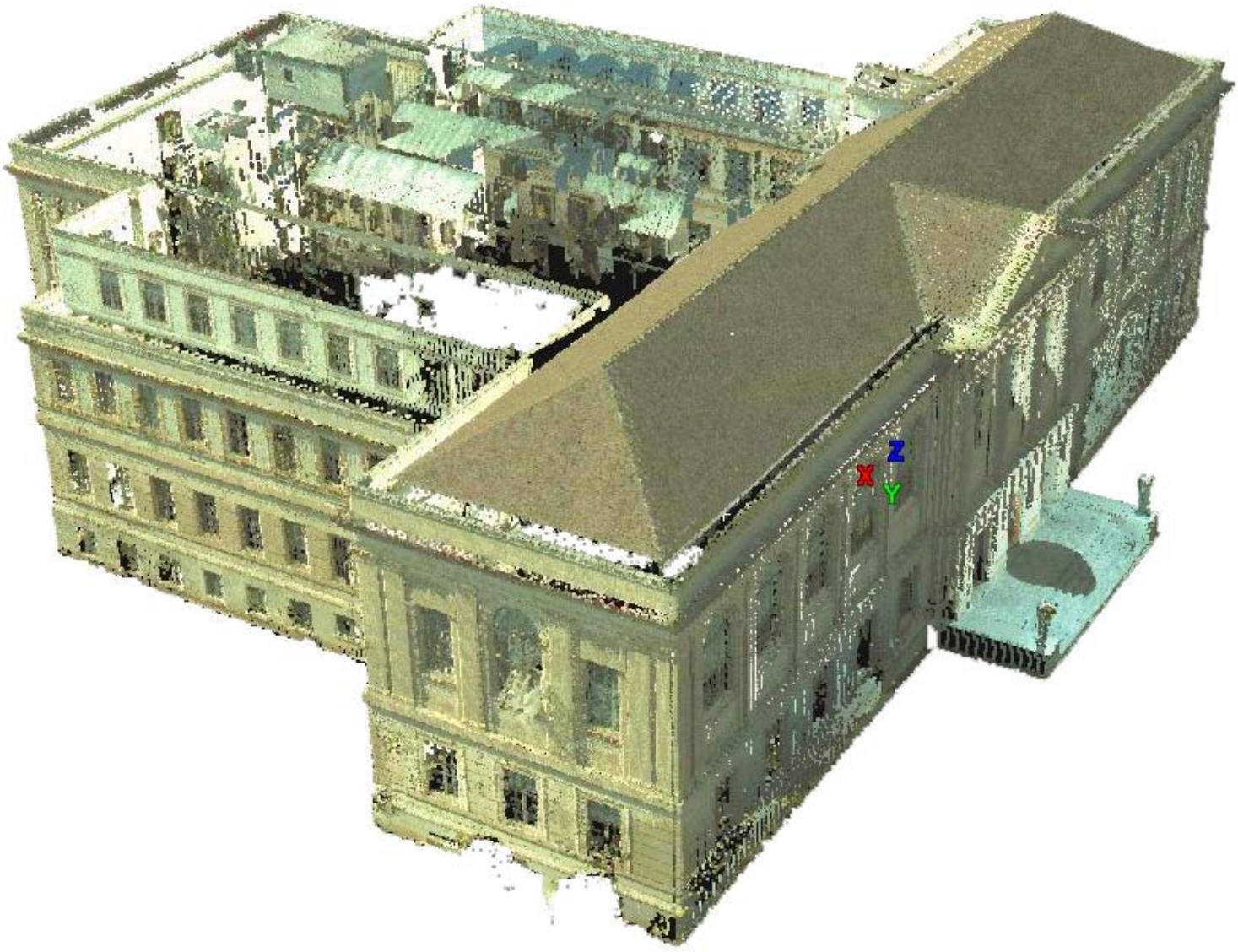
http://gmv.cast.uark.edu A Method Store for Advanced Survey and Modeling Technologies Mon, 01 Apr 2013 03:29:18 +0000 en-US hourly 1 http://wordpress.org/?v=3.5.1 http://gmv.cast.uark.edu/region-data/region/united-states/university-of-arkansas-vol-walker-building-exterior-2/ http://gmv.cast.uark.edu/region-data/region/united-states/university-of-arkansas-vol-walker-building-exterior-2/#comments Wed, 28 Mar 2012 17:49:15 +0000 caitlin http://gmv.cast.uark.edu/?p=5618 Continue reading →]]>

Working with the University of Arkansas' Facilities Management and Planning Departments, CAST is documenting the historical Vol Walker Building and its renovation. Here are merged scans of the exterior of the building which were collected with the Leica C10 Scan Station scanner. The project includes multiple floors within the building interior as well as the building exterior.Exterior scans were collected with a point spacing of approximately 5-10 cm. The data sets have been separated due to file size and data density. Interior scans were collected with a point spacing that ranged from less than a centimeter at the most dense (at a range of < 1 meter) to approximately 5 cm at the least dense (at a range of 25 meters). These scans were then reduced to a more consistent point spacing of 1 cm for potential future use in historical preservation documentation.



Vol_Walker_Building_Exterior .zip (41.9 mb) (7.5 cm spacing in .pts file format)

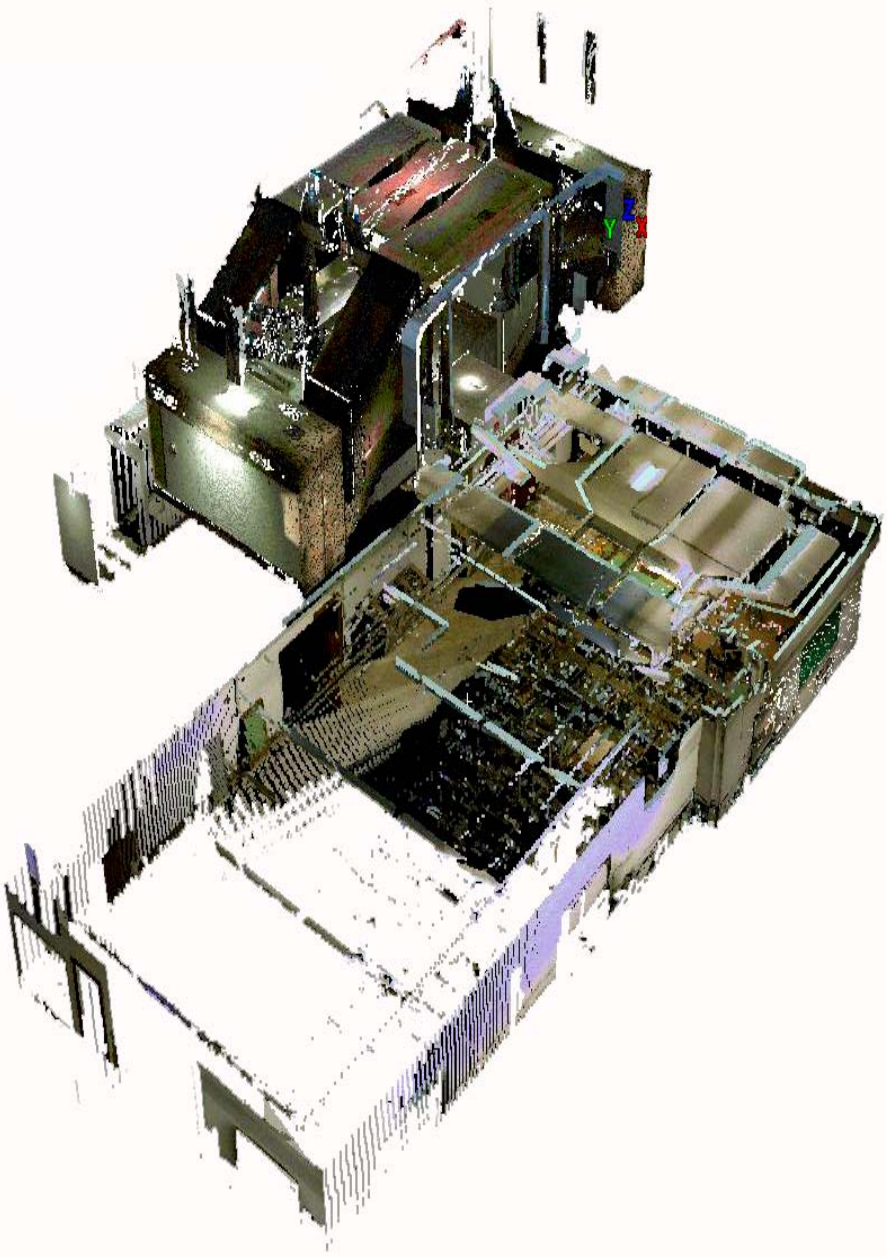
Sitemap_Vol_Walker_Exterior.htm -Explore the data set in Leica TruView, which requires Leica TruView free viewer and Internet Explorer.Â For instructions on using the free TruView data viewer and for a complete list of links to the TruView data related to this project, please see: Accessing Vol Walker Interior TruViews.

Credits:

Data was collected in collaboration with University of Arkansas Facilities Management, Operations and Maintenance and Campus Planning Divisions with outstanding assistance from Bob Harris, Construction Coordinator.

]]> http://gmv.cast.uark.edu/region-data/region/united-states/university-of-arkansas-vol-walker-building-exterior-2/feed/ 0 http://gmv.cast.uark.edu/scanning/university-of-arkansas-vol-walker-building-interior-basement-level-3/ http://gmv.cast.uark.edu/scanning/university-of-arkansas-vol-walker-building-interior-basement-level-3/#comments Wed, 28 Mar 2012 17:32:28 +0000 caitlin 5 meters]]> http://gmv.cast.uark.edu/?p=5603 Continue reading →]]>

Working with the University of Arkansas' Facilities Management and Planning Departments, CAST is documenting the historical Vol Walker Building and its renovation. Here are merged scans of the basement or ground floor of the interior, which were collected with the Z+F 5005i Scanner. The project includes multiple floors within the building interior as well as the building exterior. Interior scans were collected with a point spacing that ranged from less than a centimeter at the most dense (at a range of < 1 meter) to approximately 5 cm at the least dense (at a range of 25 meters). These scans were then reduced to a more consistent point spacing of 1 cm for potential future use in historical preservation documentation. Exterior scans were collected with a point spacing of approximately 5-10 cm. The data sets have been separated due to file size and data density.


Z
Y
X

Vol_Walker_Building_Interior_Basement .zip (4.4 mb) (1 cm spacing in .pts file format)

Sitemap_Vol_Walker_Basement.htm -Explore the data set in Leica TruView, which requires Leica TruView free viewer and Internet Explorer.Â For instructions on using the free TruView data viewer and for a complete list of links to the TruView data related to this project, please see: Accessing Vol Walker Interior TruViews.

Credits:

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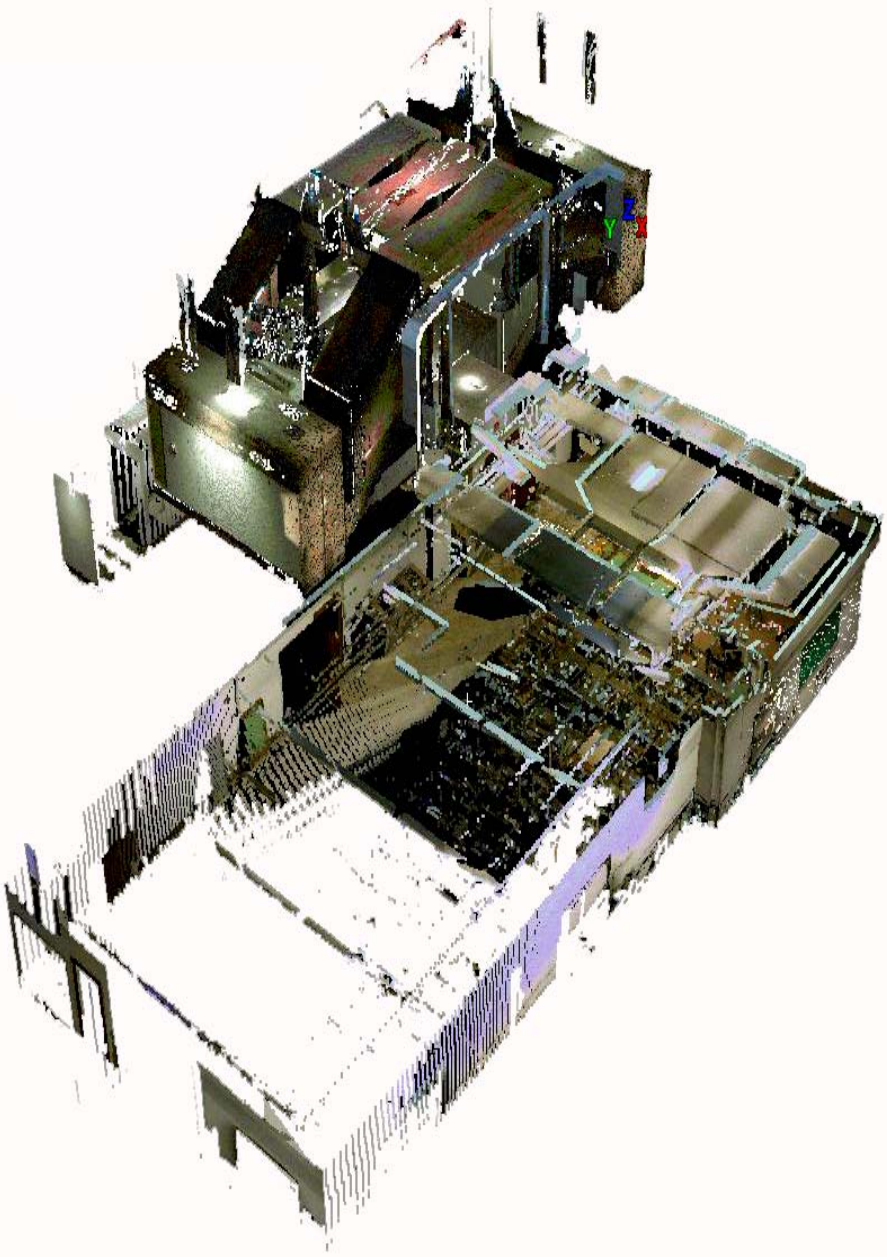
]]> http://gmv.cast.uark.edu/scanning/university-of-arkansas-vol-walker-building-interior-basement-level-3/feed/ 0 http://gmv.cast.uark.edu/region-data/region/united-states/university-of-arkansas-vol-walker-building-interior-basement-level-2/ http://gmv.cast.uark.edu/region-data/region/united-states/university-of-arkansas-vol-walker-building-interior-basement-level-2/#comments Wed, 28 Mar 2012 17:32:28 +0000 caitlin http://gmv.cast.uark.edu/?p=5603 Continue reading →]]>

Working with the University of Arkansas' Facilities Management and Planning Departments, CAST is documenting the historical Vol Walker Building and its renovation. Here are merged scans of the basement or ground floor of the interior, which were collected with the Z+F 5005i Scanner. The project includes multiple floors within the building interior as well as the building exterior. Interior scans were collected with a point spacing that ranged from less than a centimeter at the most dense (at a range of < 1 meter) to approximately 5 cm at the least dense (at a range of 25 meters). These scans were then reduced to a more consistent point spacing of 1 cm for potential future use in historical preservation documentation. Exterior scans were collected with a point spacing of approximately 5-10 cm. The data sets have been separated due to file size and data density.


Z
Y
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Vol_Walker_Building_Interior_Basement .zip (4.4 mb) (1 cm spacing in .pts file format)

Sitemap_Vol_Walker_Basement.htm -Explore the data set in Leica TruView, which requires Leica TruView free viewer and Internet Explorer.Â For instructions on using the free TruView data viewer and for a complete list of links to the TruView data related to this project, please see: Accessing Vol Walker Interior TruViews.

Credits:

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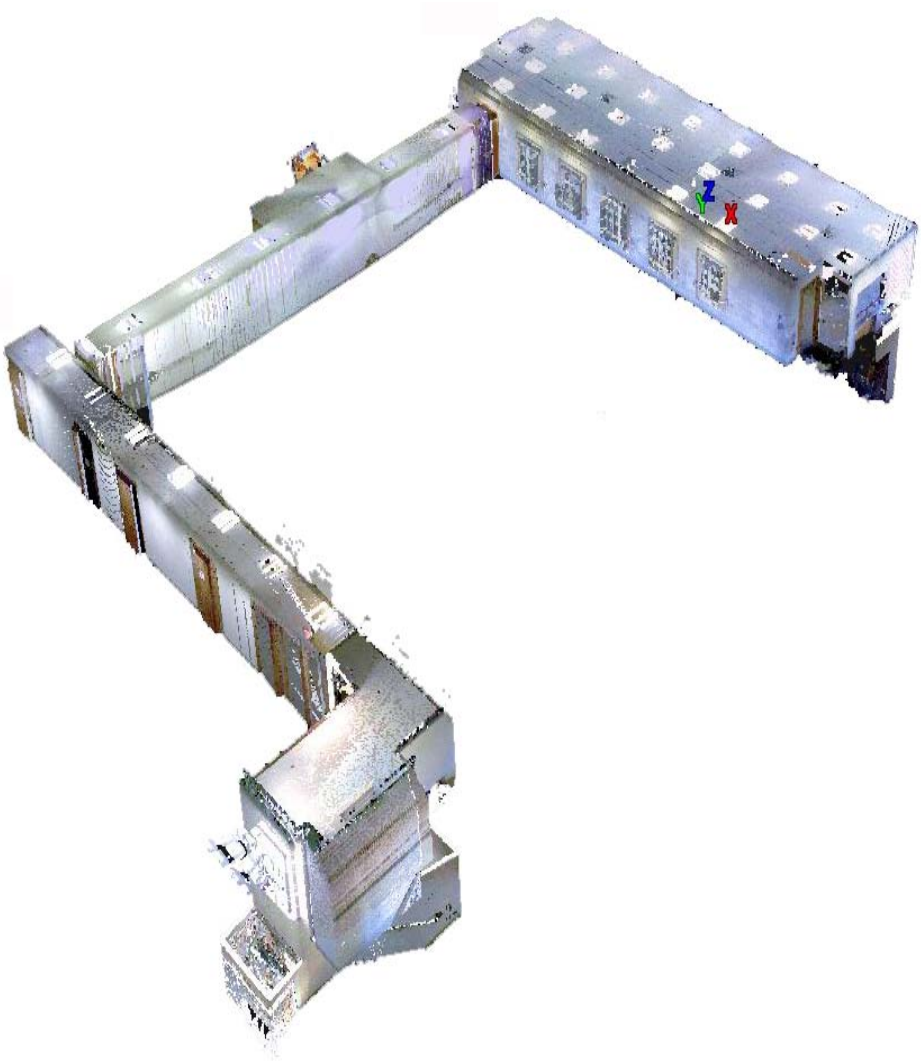
]]> http://gmv.cast.uark.edu/region-data/region/united-states/university-of-arkansas-vol-walker-building-interior-basement-level-2/feed/ 0 http://gmv.cast.uark.edu/region-data/region/united-states/university-of-arkansas-vol-walker-building-interior-floor-3-2/ http://gmv.cast.uark.edu/region-data/region/united-states/university-of-arkansas-vol-walker-building-interior-floor-3-2/#comments Wed, 28 Mar 2012 17:25:57 +0000 caitlin http://gmv.cast.uark.edu/?p=5600 Continue reading →]]>

Working with the University of Arkansas' Facilities Management and Planning Departments, CAST is documenting the historical Vol Walker Building and its renovation. Here are merged scans of the third floor of the interior, which were collected with the Z+F 5005i Scanner. The project includes multiple floors within the building interior as well as the building exterior. Interior scans were collected with a point spacing that ranged from less than a centimeter at the most dense (at a range of < 1 meter) to approximately 5 cm at the least dense (at a range of 25 meters). These scans were then reduced to a more consistent point spacing of 1 cm for potential future use in historical preservation documentation. Exterior scans were collected with a point spacing of approximately 5-10 cm. The data sets have been separated due to file size and data density.



Vol_Walker_Building_Interior_Floor_3 .zip (4.4 mb) (1 cm spacing in .pts file format)

Sitemap_Vol_Walker_Floor_3.htm -Explore the data set in Leica TruView, which requires Leica TruView free viewer and Internet Explorer.Â For instructions on using the free TruView data viewer and for a complete list of links to the TruView data related to this project, please see: Accessing Vol Walker Interior TruViews.

Credits:

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]]> http://gmv.cast.uark.edu/region-data/region/united-states/university-of-arkansas-vol-walker-building-interior-floor-3-2/feed/ 0 http://gmv.cast.uark.edu/region-data/region/united-states/university-of-arkansas-vol-walker-building-interior-floor-2-2/ http://gmv.cast.uark.edu/region-data/region/united-states/university-of-arkansas-vol-walker-building-interior-floor-2-2/#comments Tue, 30 Aug 2011 00:50:10 +0000 caitlin http://gmv.cast.uark.edu/?p=3634 Continue reading →]]>

Working with the University of Arkansas' Facilities Management and Planning Departments, CAST is documenting the historical Vol Walker Building and its renovation.Â Here are merged scans of the second floor of the interior, which were collected with the Z+F 5005i Scanner.Â The project includes multiple floors within the building interior as well as the building exterior.Â Interior scans were collected with a point spacing that ranged from less than a centimeter at the most dense (at a range of < 1 meter) to approximately 5 cm at the least dense (at a range of 25 meters).Â These scans were then reduced to a more consistent point spacing of 1 cm for potential future use in historical preservation documentation.Â Exterior scans were collected with a point spacing of approximately 5-10 cm.Â The data sets have been separated due to file size and data density.

Vol_Walker_Building_Interior_Floor_2 .zip (2.81 gb) (1 cm spacing in .pts file format)

Sitemap_Vol_Walker_Floor_2.htm -Explore the data set in Leica TruView, which requires Leica TruView free viewer and Internet Explorer.Â For instructions on using the free TruView data viewer and for a complete list of links to the TruView data related to this project, please see: Accessing Vol Walker Interior TruViews.

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Working with the University of Arkansas' Facilities Management and Planning Departments, CAST is documenting the historical Vol Walker Building and its renovation.Â Here are merged scans of the first floor of the interior, which were collected with the Z+F 5005i Scanner.Â The project includes multiple floors within the building interior as well as the building exterior.Â Interior scans were collected with a point spacing that ranged from less than a centimeter at the most dense (at a range of < 1 meter) to approximately 5 cm at the least dense (at a range of 25 meters).Â These scans were then reduced to a more consistent point spacing of 1 cm for potential future use in historical preservation documentation.Â Exterior scans were collected with a point spacing of approximately 5-10 cm.Â The data sets have been separated due to file size and data density.

Vol_Walker_Building_Interior_Floor_1 .zip (2 gb) (1 cm spacing in .pts file format)

Sitemap_Vol_Walker_Floor_1.htm -Explore the data set in Leica TruView, which requires Leica TruView free viewer and Internet

Explorer.Â For instructions on using the free TruView data viewer and for a complete list of links to the TruView data related to this project, please see: Accessing Vol Walker Interior TruViews.

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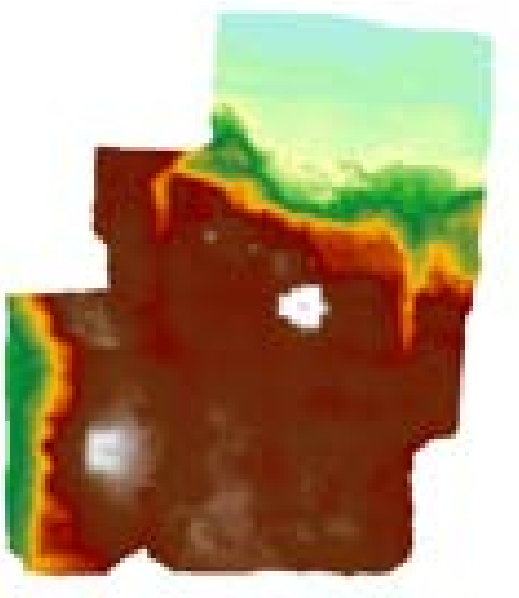
The Center has been involved in a multi-year project in collaboration with Dr. Alexei Vranich at the University of Pennsylvania to scan and document the Pre-Incan site of Tiwanaku, Bolivia.Â Read a short synopsis of the project atÂ Tiwanaku Project Details and for full details on the entire survey, refer toÂ Geophysics and Geomatics at Tiwanaku.

For the .jpg, .tif, or .img photogrammetry formats, we recommend the free viewer ArcGIS Explorer Desktop. This free GIS application provides ways to explore and share GIS data.



dem_1972_1m.tif (File size â€“ 71 mb)

Photogrammetric processing was performed on 10 historic vertical aerial photographs from 1972 to produce this digital elevation model (DEM) covering the monumental core and surrounding areas of Tiwanaku.
Ground sample distance â€“ 0.5-m
Coverage â€“ 330-ha
Coordinate system â€“ Arbitrary, based on local coordinate system used by archaeologists.

]]> http://gmv.cast.uark.edu/scanning/tiwanaku-boliviadem-2/feed/ 0 http://gmv.cast.uark.edu/scanning/tiwanaku-bolivia-digital-elevation-model-1992-2/ http://gmv.cast.uark.edu/scanning/tiwanaku-bolivia-digital-elevation-model-1992-2/#comments Fri, 17 Jun 2011 18:31:42 +0000 adam http://gmv.cast.uark.edu/?p=3469 Continue reading →]]>

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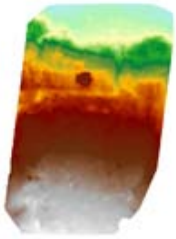


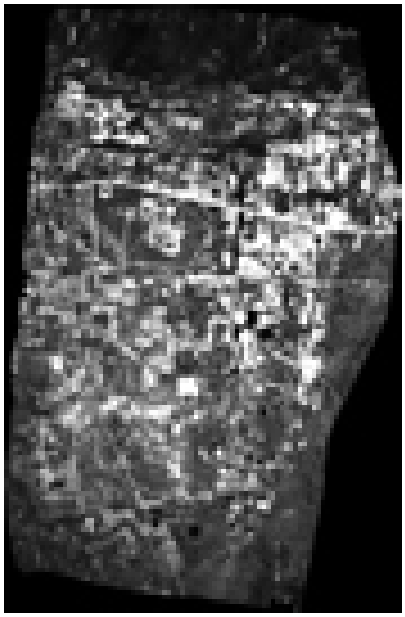
dem_1992_1m.tif (File size â€“ 26 mb)

Photogrammetric processing was performed on two historic vertical aerial photographs from 1992 to produce this digital elevation model (DEM) covering the monumental core and surrounding areas of Tiwanaku.
Ground sample distance â€“ 1-m
Coverage â€“ 550-ha
Coordinate system â€“ Arbitrary, based on local coordinate system used by archaeologists.

]]> http://gmv.cast.uark.edu/scanning/tiwanaku-bolivia-digital-elevation-model-1992-2/feed/ 0 http://gmv.cast.uark.edu/scanning/tiwanaku-bolivia-photogrammetry-of-area-in-1992-2/ http://gmv.cast.uark.edu/scanning/tiwanaku-bolivia-photogrammetry-of-area-in-1992-2/#comments Tue, 14 Jun 2011 18:17:15 +0000 caitlin http://gmv.cast.uark.edu/?p=3348 Continue reading →]]>

The Center has been involved in a multi-year project in collaboration with Dr. Alexei Vranich at the University of Pennsylvania to scan and document the Pre-Incan site of Tiwanaku, Bolivia. Read a short synopsis of the project atÂ Tiwanaku Project Details and for full details on the entire survey, refer toÂ Geophysics and Geomatics at Tiwanaku.

For the .jpg, .tif, or .img photogrammetry formats, we recommend the free viewer ArcGIS Explorer Desktop. This free GIS application provides ways to explore and share GIS data.



ortho_1992.tif (File size – 125 mb)

Photogrammetric processing was performed on two historic vertical aerial photographs from 1992 to produce this ortho mosaic covering the monumental core and surrounding areas of Tiwanaku.
Ground sample distance – 20.4-cm
Coverage – 710-ha
Coordinate system – Arbitrary, based on local coordinate system used by archaeologists.

	Average Scale	Average Flying Height (m)	Ground Coverage per Pixel (cm)
1992 Photos	1:16 100	2470	20.4

]]> http://gmv.cast.uark.edu/scanning/tiwanaku-bolivia-photogrammetry-of-area-in-1992-2/feed/ 0 http://gmv.cast.uark.edu/scanning/tiwanaku-bolivia-photogrammetry-of-area-in-1972-2/ http://gmv.cast.uark.edu/scanning/tiwanaku-bolivia-photogrammetry-of-area-in-1972-2/#comments Tue, 14 Jun 2011 18:13:40 +0000 caitlin http://gmv.cast.uark.edu/?p=3343 Continue reading →]]>

The Center has been involved in a multi-year project in collaboration with Dr. Alexei Vranich at the University of Pennsylvania to scan and document the Pre-Incan site of Tiwanaku, Bolivia.Â Read a short synopsis of the project atÂ Tiwanaku Project Details and for full details on the entire survey, refer toÂ Geophysics and Geomatics at Tiwanaku.

For the .jpg, .tif, or .img photogrammetry formats, we recommend the free viewer ArcGIS Explorer Desktop. This free GIS application provides ways to explore and share GIS data.

ortho_1972.tif (File size – 745 mb)

Photogrammetric processing was performed on 10 historic vertical aerial photographs from 1972 to produce this ortho mosaic covering the monumental core and surrounding areas of Tiwanaku.
Ground sample distance – 6.5-cm
Coverage – 360-ha
Coordinate system – Arbitrary, based on local coordinate system used by archaeologists.

	Average Scale	Average Flying Height (m)	Ground Coverage per Pixel (cm)
1972 Photos	1:5 150	782	6.5

]]> http://gmv.cast.uark.edu/scanning/tiwanaku-bolivia-photogrammetry-of-area-in-1972-2/feed/ 0