Geospatial Modeling & Visualization

A Method Store for Advanced Survey and Modeling Technologies

GMV

Geophysics

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Modeling

Digital Photogrammetry

3D Scanning

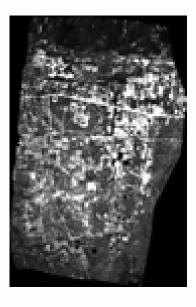
Equipment

Data and Projects by Region

Tiwanaku, Bolivia - Ortho Image (1992)

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 at <u>Tiwanaku Project Details</u> and for full details on the entire survey, refer to <u>Geophysics and Geomatics at Tiwanaku</u>.

For the .jpg, .tif, or .img photogrammetry formats, we recommend the free viewer <u>ArcGIS Explorer Desktop</u>. 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 orthomosaic 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

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Credit: <u>Museum of Archeology and Anthropology</u>, <u>General Robotics</u>, <u>Automation</u>, <u>Sensing and Perception (GRASP) Lab</u> (University of Pennsylvania) and <u>Center for Advanced Spatial Technologies</u>, (University of Arkansas)

Longer version: Data acquired, processed and distributed by the Center for Advanced Spatial Technologies staff and University of Pennsylvania.



You are reading the series: <u>Tiwanaku Data</u> <u>Tiwanaku, Bolivia – Ortho Image (1972)</u> Tiwanaku, Bolivia – Ortho Image (1992)

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