## **Geospatial Modeling & Visualization**

A Method Store for Advanced Survey and Modeling Technologies

GMV

Geophysics

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Modeling

**Digital Photogrammetry** 

3D Scanning

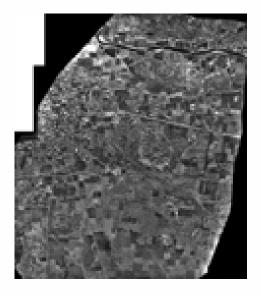
Equipment

Data and Projects by Region

## Tiwanaku, Bolivia - Ortho Image (1972)

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</u> <u>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 1972.tif (File size - 745 mb)

Photogrammetric processing was performed on 10 historic vertical aerial photographs from 1972 to produce this orthomosaic 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

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Credit: Museum of Archeology and Anthropology, General Robotics, Automation, Sensing and Perception (GRASP) Lab (University of Pennsylvania) and Center for Advanced Spatial Technologies, (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> Tiwanaku, Bolivia – Ortho Image (1972) <u>Tiwanaku, Bolivia – Ortho Image (1992)</u>

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