

Oregon Geographic Information Council (OGIC) Framework Data Development Program

For the 2009 – 2011 Biennium
Proposal to Catalog Historic Aerial Photographs

Background:

State, local and federal agencies in Oregon have depended on aerial photographs as a source of geographic information since the middle of the 20th century. Over the years aerial photography has been acquired for everything from hydropower and defense planning, to beach access preservation and forest management. Many of the negatives from these projects have been stored for future use but photographic film has a finite life and some are at risk of being lost due to film degradation. In addition to the loss from decay a comprehensive catalog of images does not exist, which makes access to this valuable historic information very difficult. This FIT proposal will fund three activities with the overall goal of preservation, inventory, and accessibility of this valuable historic and geographic record.

Proposed Activity:

The project

- A) Activity A will involve creating a database of film owned by state and local agencies in Oregon available for digital scanning.
- B) Activity B will be to have a contractor scan a roll of ODF film (roll #TA-M2, 1949 imagery 107 exposures) and a roll of film from the ODOT library following established orthoimagery scanning standards (FGDC-STD-008-1999). This will enable a more accurate determination of the magnitude of the entire data collection effort.
- C) Activity C will be to deliver the pilot images collected in Activity B via a web service such as the Oregon Explorer.

Specify Project Deliverables:

Activity A: An Access database containing information about film owned by agencies available for scanning. Completion date: February 1, 2010.

Activity B: A hard drive containing images of film negatives scanned on a photogrammetric grade scanner at 4 to 12 microns and the appropriate radiometric resolution. Completion date: May 31, 2010.

Activity C: A web service delivering the images from Activity B to make them accessible to the public and other agencies. As much as possible this effort will be done in conjunction with other image portal and data distribution projects. The intent of Activity C is to take the standards developed by the FIT orthoimagery group for spatial index data. 1) Photo project area polygons, 2) Photo flight lines, 3) Photo center points, 4) Extent of individual photo images, and 5) Effective image extents. These layers will be utilized to develop a mechanism to allow users to retrieve the raw images from a geographic interface. Completion date: June 30, 2011.

Amount Requested:

\$29,025

Preliminary budget breakdown for entire project:

Activity A: Three months of an ISS3 temporary position
\$16,400

Activity B: Contract scan +/- 250 images, estimated cost = \$10.50/ image + disk storage
\$2,625

Activity C: Web service to distribute the pilot images on the web.

\$10,000

- Oregon Parks and Recreation Department (OPRD) will provide office space, administrative support, and supervision for the ISS3 position.
- The Oregon Department of Transportation (ODOT) and the Oregon Department of Forestry (ODF) will make their film libraries available for inventory and scanning as an in-kind contribution.
- Identify any unfunded activities - None

Additional Information:

No previous requests for FIT funds have been made for compilation of historic aerial photograph information.

State Partners

Oregon Department of Forestry (approximately 325 rolls of film)
Oregon Department of Transportation (approximately 600 rolls of film)
Oregon Parks and Recreation Department
Oregon Department of State Lands
Oregon Department of Land Conservation and Development
Oregon State Archives

Local regional, county and city agencies

Federal Stakeholders

USDI Bureau of Land Management
USDA Forest Service
USGS
Army Corps of Engineers

By submitting this application I understand and agree that all members of the project team shall recuse themselves from participation in the current proposal evaluation process.

Contact Information:

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