

ESRI Archaeology and GIS News

Number 0009 – November 12, 2001

Welcome to the ninth issue of ESRI Archaeology and GIS News, a newsletter for and about the ESRI Archaeology and GIS User Community.

You are receiving ESRI Archaeology and GIS News because you are involved in archaeological GIS activities, or related fields and interests.

This newsletter is used only to distribute information about the group.

Please use the ONLINE DISCUSSION FORUM on the site for GIS/Archaeology discussions.

To subscribe, unsubscribe, or change your e-mail address, respond to:

bbooth@esri.com

Top News

1. GIS Day – November 14, 2001
2. Deadline for ESRI User Conference Paper Submissions Nov. 16
3. Most Valuable Professional User Forum Program
3. ESRI Archaeology Web Page Updated
4. More Links of Interest
5. Do You Manage Archaeological Sites With a GIS?
6. Notices of Conferences

(1) GIS Day – November 14, 2001

<http://www.gisday.com>

GIS users and vendors are invited to join the National Geographic Society, the Association of American Geographers, the University Consortium for Geographic Information Science, the United States Geological Survey, The Library of Congress, and ESRI in opening their doors for GIS Day 2001, November 14.

(2) Deadline for ESRI User Conference Paper Submissions Nov. 16

The deadline to submit abstracts for the 2002 ESRI International User Conference is November 16, 2001. Information and submission forms are at www.esri.com/uc

The conference will be held July 8-12, 2002, at the San Diego Convention Center in San Diego, California, USA.

Other User Conference Dates to Remember:

Student Assistantship Application Submission Deadline: April 12, 2002

Software Applications Fair Submission Request Deadline: May 1, 2002

Conference Registration Deadline: May 10, 2002

Map Gallery Submission Deadline: May 16, 2002

Activities Registration Deadline: June 3, 2002

Education User Conference (EdUC): July 5-7, 2002

Preconference Seminars: July 6-7, 2002

Twenty-second Annual ESRI International User Conference: July 8-12, 2002

--==--

Every year, GIS users from around the world bring samples of their work to the ESRI User Conference. From the oceans of maps, we select a sample and produce a mapbook, which is released at the following year's conference.

These maps and stories show how hundreds of thousands of people across the world are using GIS to analyze data and solve problems.

The 16th map book, prepared for the 2001 User Conference, is now visible online:

<http://www.esri.com/mapbook>

and click on Volume 16.

You'll see examples from these categories: agriculture, business, cartography, conservation, disaster planning, electric & gas, environmental, geology, government, health & human services, law enforcement, local government, military, natural resources, oceans & seas, petroleum, pipeline, planning, public safety, telecommunications, tourism, transportation, and water & wastewater. The title "Geography - Creating Communities" underscores how people use geography to integrate information and deal with issues of importance to all of us.

(3) Most Valuable Professional User Forum Program

Most Valuable Professional (MVP) Program

<http://forums.esri.com/help.asp#mvp>

Win prizes for answering technical questions on the ESRI Archaeology Discussion Forum.

ESRI Archaeology Discussion Forum:

<http://forums.esri.com/forums.asp?c=87>

(3) ESRI Archaeology Web Page Updated

The ESRI Archaeology web page has been updated!

1) More sites added to the "Organizations Managing Archaeological Sites with GIS" page. If you have a site you'd like to add to (or remove from) this page, please contact Bob Booth (bbooth@esri.com)

2) More papers on GIS in Archaeology now online

3) More links to free ArcView extensions and scripts on the "Tools, Utilities, and Other Software page" that may be of use for archaeological research.

4) More links to GIS references that may be of interest.

(4) More Links of Interest

GIS/Archaeology Links Wanted – Please send links, scripts, fonts, suggestions, etc. to bbooth@esri.com, thanks!

University of Alabama Office of Archaeological Services
<http://museums.ua.edu/oas/archgis.html>

Temple Site at Phimai - online video of virtual site reconstruction:
<http://www.archaeologychannel.org>

Railroads of the Civil War—Confederate and Union Movements in the Chickamauga/Chattanooga Campaigns—Matthew Stutts with David Lowe
http://www.esri.com/mapmuseum/mapbook_gallery/volume16/conservation3.html
Archaeology Data Service GIS Guide to Good Practice:
<http://ads.ahds.ac.uk/project/goodguides/gis/>

Archaeology Data Service Digital Archives from Excavation and Fieldwork
Guide to Good Practice
<http://ads.ahds.ac.uk/project/goodguides/excavation/>

Is this a model for a new use for GIS in museums/collection management?
http://www.ismretail.com/articles/2001_11/011102.htm

Handheld mobile computers
<http://www.panasonic.com/computer/notebook/html/01a01.htm>

Topo! ArcGIS extension: Import seamless topographic base maps into ArcView 3.x and ArcGIS 8.1.
<http://maps.nationalgeographic.com/topo/extension.cfm>

ArcGIS (8.1) script/extension resources:

Create Thiessen Polygons from points
<http://gis.esri.com/arcscripsts/details.cfm?CFGRIDKEY=D7AAD180-CE1C-11D5-944D00508B0CB419>

3D Visualization Tool
<http://gis.esri.com/arcscripsts/details.cfm?CFGRIDKEY=E4F17A55-C18F-11D5-944B00508B0CB419>
Create a 3D scatterplot of spatial and non-spatial attributes in ArcScene to assist you identify trends and anomalies in your data.

Add X and Y coordinates of features to Attribute Table
<http://gis.esri.com/arcscripsts/details.cfm?CFGRIDKEY=578CDFF0-E0BF-11D4-943800508B0CB419>
This VBA script adds two new fields X,Y to the attribute table of the selected point layer and fills the fields with the X,Y coordinates.

Convert Graphics to Features
<http://gis.esri.com/arcscripsts/details.cfm?CFGRIDKEY=25A2412B-C19A-11D5-944B00508B0CB419>
This dll will enable a user to save a graphic shape or shapes such as polygons or lines to a shapefile. This is Freeware developed by Terrace GIS Associates.

Create and add shapefile

<http://gis.esri.com/arcscripsts/details.cfm?CFGRIDKEY=F4DF9D49-7589-11D5-944400508B0CB419>

From ArcMap, creates a new shapefile:

- Catalog dialog window for file location choice
- Shape type choice
- Asks user for adding the new shapefile to the active Data Frame

Polygon to Centroid 1.1

<http://gis.esri.com/arcscripsts/details.cfm?CFGRIDKEY=D071FD9B-877B-11D5-944500508B0CB419>

XTools 2.0 - New version of XTools is now available for ArcView 8.1 users

<http://gis.esri.com/arcscripsts/details.cfm?CFGRIDKEY=D45A8448-A30A-11D5-944700508B0CB419>

XTools 2.0 contains new cool function: Enhanced Shapefile Creator!

XTools is a package of tools useful in vector spatial analysis. Included are various overlay, shape conversion and table tools.

(5) Do you manage Archaeological sites with a GIS?

In order to promote communication between organizations managing archaeological sites with GIS (*at the landscape and site levels), I've posted the relevant web links that I've found. If you would like to add your organization to this list (or remove it), please contact Bob Booth (bbooth@esri.com).

(6) Notices of conferences

- a) Call for Papers: Chacmool 2001 - An Odyssey of Space
- b) Digital Technologies and the Sharing of Cultural Resources, December 2- 4
- c) SHA Meeting, January 9-12, 2002
- d) SAA Symposium, March 20-24, 2002
- e) MATE conference questionnaire
- f) Building Native Nations: Environment, Natural Resources, and Governance

--==--

a) Chacmool 2001 - An Odyssey of Space

November 14th - 18th 2001

Rosza Centre, University of Calgary, Calgary, Alberta, Canada

This is a theme we can have a lot of fun with and which will bring out endless interesting topics. A few potential sessions we have thought of are as follows:

How space is defined - boundaries, enclosures

How space is used - traditional ways in which space is divided into households and communities, as well as working and living space

Public space - plazas, courtyards, domestic vs. public, gender utilization

Landscapes - systems such as fields, irrigation etc.
Archaeoastronomy - Nazca, medicine wheels, Stonehenge etc.
The Cosmos - space as defined for ideological purposes - how did ancient peoples map out space
Mapping space - remote sensing, GIS and GPS
Sacred space - perceptions of space, creation myths, use of space for
Ceremonials Ancient maritime utilization of space - underwater archaeology, marine archaeology
The temporalization of space - the relationship between space and time
Geoarchaeology
Spatial analysis - history and theory, trends, future
Ethnographic studies of space
Spatial data management within CRM
More ideas, session proposals etc. are welcomed! Or if you want to run with one of the above suggestions, please contact us!

Deadlines

Submission of session topics January 15, 2001

Submission of paper abstracts February 15, 2001

Send Abstracts to: 2001 Conference Committee, Department of
Archaeology, University of Calgary, Calgary AB T2N 1N4, Canada; or FAX
us at 403-282-9567, or email us at cjcluney@ucalgary.ca

Lesley Nicholls

Department Administrator

Department of Archaeology

University of Calgary

Calgary AB T2N 1N4

Phone: 403-220-7131 FAX: 403-282-9567

--==--

b) Digital Technologies and the Sharing of Cultural Resources, December 2- 4

Greetings,

On behalf of the Electronic Cultural Atlas Initiative (ECAI), I would like to invite you to the upcoming ECAI meeting at the PNC Interim Conference in Guadalajara, Mexico, December 2-4,

"Digital Technologies and the Sharing of Cultural Resources."

The program for the 2001 Interim Conference can be found at the PNC website, pnclink.org, along with Registration, Hotel Accommodation reservation forms, and other information. The opening day will be held at the Expo Center together with the annual Guadalajara Book Fair, and the following days at the Holiday Inn Centro Historico.

ECAI

The Electronic Cultural Atlas Initiative (ECAI) is a consortium of scholars and information technology specialists building a distributed digital library of research indexed by time and location. Our URL is www.ecai.org. Based in Berkeley, our membership and our interests are global. Our focus for this conference is interoperability of digital resources across institutions, disciplines, and national boundaries.

Encouraging Digital Cultural Data Sharing

We wish to showcase ECAI IT architecture for sharing digital data compiled by cultural research projects. Those who may find our approach useful include individuals in academia, NGOs, educators, librarians, archivists, museum personnel, and government officials.

The Community of GIS and Spatial Data Professionals

We encourage the participation of those currently working in GIS and related technologies. Presentations and discussions at the meeting will explore the advantages of GIS and related technologies for those working in the humanities and social sciences.

Cultural Heritage

GIS offers potential for cultural heritage site preservation and documentation. The meeting includes presentations and demonstrations relating to heritage sites. Archaeology, photograph archives, visualization technologies, and other aspects of the study and management of cultural sites and materials contribute to an enlarged understanding of options available to researchers, curators, and management professionals.

For further information, please contact ecai@socrates.berkeley.edu.

Sincerely,
Caverlee Cary
Associate Director
ECAI

==--==--

c) SHA Meeting, Mobile Alabama

The Society for Historical Archaeology will be meeting in Mobile, Alabama, January 9-12, 2002.

SHA Website: www.sha.org

Pre-conference workshops (January 9) will include one on GIS and Archaeology.

==--==--

d) New SAA Symposium planned

CALL FOR PAPERS

Society for American Archaeology Meeting: March 20-24, 2002 in Denver, Colorado.

Due to the success of the various papers on remote sensing and GIS research in archaeology during last year's SAA meetings, we are putting out a call for papers to be included in a session focused on this genre of research.

Despite this late call we are confident that there are a significant number of researchers looking for a forum in which to present their recent work in these fields. Graduate students are particularly encouraged to respond, as are researchers working in Mesoamerica.

Symposium Title:

Current Applications of Remote Sensing and GIS in North American and Mesoamerican Archaeology.

Symposium Abstract:

Geographic information systems and remote sensing technology have recently become as commonplace as the trowel in the archaeologist's toolkit. GIS and RS are found in every step of archaeological activity, from developing excavation strategy, to data evaluation, to creating products for professional and public con-

sumption. This symposium presents a variety of approaches to the resolution of archaeological research needs using these computational techniques in Meso- and North American archaeology.

Discussants:

Dr. Payson Sheets, Department of Anthropology, University of Colorado,
Boulder.

Dr. Thomas Sever, NASA Archaeologist, Global Hydrology and Climate Center, Huntsville, Alabama.

Co-Organizers:

Daniel Irwin, National Space Science & Technology Center, Huntsville, Alabama.

Cameron Griffith, Department of Anthropology, Indiana University

Chair:

Josh Wells, Department of Anthropology, Indiana University

Entries are due in to us September 10th, so action must be taken quickly! (We apologize for this late posting). The symposium organizers will be paying the fee for late submissions, so participants will not incur any additional costs. Please direct inquiries (via email) to Daniel Irwin at

Daniel.Irwin@msfc.nasa.gov

-=-=-=-=-

e) MATE conference questionnaire

The Marine Advanced Technology Education (MATE) Center will be hosting a faculty workshop in Monterey, California in the summer of 2002 on topics related to the marine environment, marine technology, and the applications of GIS.

Proposed topics include:

* Conservation Issues, Marine Habitats, and Marine Protected Areas

* Marine Archeology (Shipwrecks and Cultural Resources)

* Seafloor mapping (Side Scan Sonar, Multibeam, Submersibles)

* Geohazards (tsunamis, submarine landslides)

The topics will be presented in the context of how GIS enhances and advances these fields.

The goals of these workshops are to:

* Increase the awareness of career opportunities in the marine technical field.

* Increase the understanding of technologies applied to ocean activities.

* Facilitate a closer interaction between marine science and GIS/technology faculty.

* Increase the diversity of students exposed to GIS, marine technology, and marine technical careers.

If you are interested in participating in this workshop please fill out a survey at:

<http://extra.marinetech.org/gis_survey/>

We will design the workshop around the interests and needs of the participants. Everyone completing the survey will be sent an application for the summer workshop. For more information on the survey or summer workshops contact Deidre Sullivan, Curriculum and Industry Manager at deidres@marinetech.org <<mailto:deidres@marinetech.org>>

The MATE Center also hosts summer workshops focused on Submersible Technology - the design and building of remotely operated vehicles (ROVs) and autonomous underwater vehicles (AUVs) - and conducts local and national ROV design and building competitions for students. For more information on submersible technology workshops please see our website at:

<<http://www.marinetech.org/education/workshops.html>>

For more information on the ROV competition please see

<http://www.marinetech.org/rov_competition/index.html>

About the MATE Center

The MATE Center, headquartered at Monterey Peninsula College, is a national partnership of community colleges and other education institutions, research institutions, employers, educators, and students. Established in 1997 with funding from the National Science Foundation, the Center's mission is to prepare America's workforce for ocean-related technical occupations utilizing information from employers, workers, and other stakeholders to improve and develop educational and training programs that provide students with the skills needed to succeed in the workplace.

For more information on the MATE Center see www.marinetech.org

Deidre Sullivan

Marine Advanced Technology Education Center

Monterey Peninsula College

980 Fremont St.

Monterey, CA 93940

(831) 646-3081

www.marinetech.org

-=-=-

f) Seeking Tribal GIS Project Presentations Upcoming Conference

For an upcoming conference, "Building Native Nations: Environment, Natural Resources, and Governance," the Udall Center and its Native Nations Institute seek recommendations for possible presentations on tribal GIS/DSS projects related to environmental and natural resources management.

The conference, expected to attract some 300 participants (mostly Leaders and resource managers from Native nations in the United States, Canada, and abroad), will occur December 11-13, 2001, in Tucson, Arizona. The conference will include a series of plenary and concurrent presentations sessions addressing issues related to the science, politics, economics, and cultural aspects of Native nations natural resources management, environmental protection, and self-governance.

We are seeking a couple of additional presentations on tribal GIS/DSS projects that would be part of a concurrent session looking as science, technology, and traditional knowledge related to Native nations' resource management issues. We can pay travel and accommodation expenses and will waive the fee for conference registration (which includes meals).

If you have any recommendations (projects or presenters), please contact Robert Merideth at the Udall Center at (520) 884-4393 or <merideth@u.arizona.edu>.

Also, the conference has several opportunities for corporate, agency, or institutional sponsorships and displays. If you would like additional information on this aspect of the conference, please contact Kimberly Abraham, senior associate, or Joan Timeche, NNI assistant director and conference director at (520) 884-4393 or via the following email addresses:
<kabraham@u.arizona.edu>
or <timechej@u.arizona.edu>.

For more information about the Building Native Nations conference, including a copy of the program and registration information, please visit the Udall Center's Web site at:

<<http://udallcenter.arizona.edu/conference/bnn2.htm>>

._._._._._._._._._.

ESRI Archaeology and GIS News

This newsletter is used only to distribute information about the group.

Please use the ONLINE DISCUSSION FORUM on the site for GIS/Archaeology discussions.

To subscribe, unsubscribe, or change your e-mail address, respond to:

bbooth@esri.com