



The Wave (3)

Upcoming Marine GIS-Related Publications and Events

A compilation summary
for Winter 2002

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If you would like to be added to the ESRI Marine GIS Special Interest Group, go to  
<http://gis.esri.com/newsletters/newssubscribe.cfm?news=MarineGIS>.

#### **1. *Marine Geography* Publication—Call for Submissions**

*Marine Geography* 2002 is planning the next issue scheduled for publication in spring 2002. *Marine Geography* is an extensively reviewed multidisciplinary magazine devoted to marine GIS research.

Papers dealing with any aspect of the application of GIS in marine mapping, research, management, and analysis are invited. Please note: The target date for submissions has been extended to January 1, 2001. The magazine is targeting annual publication. Submissions are now being solicited, and authors may send submissions to Joe Breman at [jbreman@esri.com](mailto:jbreman@esri.com).

#### **2. Dawn Wright—Marine GIS Publications**

See the press release on Dawn Wright's latest new title, *Undersea with GIS* at <http://www.esri.com/news/arcnews/fall01/articles/underseawithgis.html>.

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For other related publications, please see Marine GIS publications at <http://dusk.geo.orst.edu>.

*Marine and Coastal Geographic Information Systems*  
<http://dusk.geo.orst.edu/book>

*Undersea with GIS*  
<http://dusk.geo.orst.edu/undersea>

### **3. The Marine Advanced Technology Education Center**

#### **Announcement: Summer workshop for faculty on marine topics and GIS**

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 archaeology (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 oceans 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/](http://extra.marinetech.org/gis_survey/).

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

For more information on the ROV competition, please see [http://www.marinetech.org/rov\\_competition/index.html](http://www.marinetech.org/rov_competition/index.html).

## **4. The Cooperative Institute for Coastal and Estuarine Environmental Technology**

### **Announcement of Funding Opportunity Development Projects**

The National Oceanic and Atmospheric Administration/University of New Hampshire (NOAA/UNH) Cooperative Institute for Coastal and Estuarine Environmental Technology (CICEET), located at the University of New Hampshire, is inviting applications for "proof of concept" projects. Projects submitted to this competition should be short-duration, low-cost development projects. The purpose of this component of the CICEET program is to "seed" the development of an innovative technology for which there is currently little or no data to determine feasibility and therefore represents a high risk for full-project funding. Development projects will provide an opportunity to establish a proof of concept before moving on to a multiyear, more resource-intensive project.

Projects under this year's request for development project proposals must address one of the following coastal management issues and include one or more of the activities listed under each issue.

- Microbial contaminants
- Toxic contaminants
- Nutrient enrichment and eutrophication
- Habitat degradation/loss and habitat restoration
- Synthesis, integration, and transfer of environmental data and information pertinent to coastal management issues above

Development project proposals must be received by CICEET on or before December 21, 2001. The request for proposal can be accessed electronically by logging onto the CICEET Web site (<http://ciceet.unh.edu/>) and selecting the link for "Funding Opportunities" on the left-hand menu bar, then selecting "Development Projects" from the list.

CICEET was established in 1997 as a national center for the development and application of innovative environmental technologies for monitoring, management, and prevention of contamination in estuaries and coastal waters. It is a unique partnership between the University of New Hampshire and the National Oceanic and Atmospheric Administration and promotes collaboration among academia, government, and the private sector.

CICEET is governed by a Memorandum of Understanding between NOAA and the University of New Hampshire and is jointly managed by UNH and NOAA codirectors. CICEET uses the capabilities of the University as well as those of the Great Bay National Estuarine Research Reserve and the other 24 reserves in the National Estuarine Research Reserve System to develop and apply new environmental technologies and techniques.

Additional information may be obtained by contacting

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## **5. Three-Dimensional GIS Resources**

There are some very useful three-dimensional GIS resources in NewCyber3D: [www.newcyber-3d.com](http://www.newcyber-3d.com). It provides full source codes of three-dimensional GIS projects including real-time three-dimensional terrain walk-through, DEM generator, three-dimensional query, three-dimensional interactive design, and so forth. These codes will be helpful to academic researchers or software engineers to integrate, analyze, and easily develop or apply their own applications. See the Web site for more details and image galleries.

NewCyber3D  
[www.newcyber-3d.com](http://www.newcyber-3d.com)

The online help system is the place to find the latest information about ArcObjects including sample code, technical documents, and object model diagrams.

Use the table of contents on the left to navigate the help system.

Expand the samples on the left and click 3D Analyst for some of the tools made available online.

<http://arconline.esri.com/arcobjectsonline/>

## **6. The PACEM in MARIBUS 2002 Symposium**

The PACEM in MARIBUS 2002 Symposium  
University of the Western Cape  
Cape Town, South Africa  
December 8–14, 2002

The global ocean is of supreme importance to humanity. Not only does the ocean provide a relatively cheap source of food and transport, but it is also a vital planetary life support system. For much of human history, the global ocean has been treated as inexhaustible both in terms of what it can yield and what it can absorb.

The new economy and the current trend of globalization exacerbate existing problems and bring new challenges for the ocean. At no time in history has the ocean been under the pressure it is today, but also at no time has the ocean been such a source of exciting opportunities. It is vital that we accept the challenge of not only creating opportunities, but also using these in a wise and sustainable manner to bring benefits to coastal communities in the developed—and especially the developing—world.

The theme of this conference, Oceans in the New Economy, seeks to explore problems created within the ocean by the new economy and, more important, to identify opportunities for sustainable use that arise out of interactions between the new economy and the global ocean.

The symposium will be hosted by the International Ocean Institute in Southern Africa. It will be held at the University of the Western Cape in Cape Town, the premier tourist destination and mother city of South Africa. Please visit the Web site <http://www.ioinst.org/pim2002> for more information, or contact the symposium secretariat at [pim2002@uwc.ac.za](mailto:pim2002@uwc.ac.za).

## **7. Post-Doctoral Researcher Position Announcement**

A post-doctoral researcher position is open at the Department of Environmental Studies of the University of West Florida, starting from late January to early February 2002. The successful candidate will work on the GIS and remote sensing component for a multimillion dollar, four-year research project "Consortium for Estuarine Ecoinicator Research—Gulf of Mexico" funded by the Environmental Protection Agency (EPA). Applicants should have a recent Ph.D. in geography, environmental science, or an

appropriate area. Strong knowledge in GIS, remote sensing, and coastal environment is required. The successful candidate will conduct research on the development of ecosystem-level indicators with GIS and remote sensing technologies as well as provide GIS support for the entire research team with scientists from nine universities in six states. Strong communication skills are required. Salary ranges from \$26,000 to \$30,000 per year with full benefits. The original appointment is for one year. Extension after the first year depends on availability of funding and performance. To apply, please submit a cover letter, a copy of dated curriculum vitae, transcripts, and three letters of references to

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## **8. Announcement of New Marine Data Model Development**

ESRI is pleased to announce the development of a new Marine Data Model. A collaborative initiative involving researchers from Oregon State University, Duke, and the NOAA Coastal Service Center is resulting in the development of an ESRI data model created to support the needs of the marine GIS community. This model is still in development and will be tested and reviewed over the coming months. You are invited to reply with any feedback, ideas, or suggestions. A committee for testing and review is being recruited. The development of the model can be followed at the ArcGIS Marine Data Model work group site. Thanks to Dawn Wright and Oregon State University for hosting the site for the group.

Please visit the related links.

<http://dusk.geo.orst.edu/djl/arcgis>

<http://arconline.esri.com/datamodels.cfm>

[http://arconline.esri.com/arconline/datamodels\\_one.cfm?id=21](http://arconline.esri.com/arconline/datamodels_one.cfm?id=21)

If you have direct questions or would like to be added to the ESRI Marine Special Interest Group mailing list, please contact Joe Breman at [jbreman@esri.com](mailto:jbreman@esri.com) or log in directly at <http://gis.esri.com/newsletters/newssubscribe.cfm?news= MarineGIS>.