



Upcoming marine GIS-related publications and events:

A compilation summary
for fall 2002 (Wave6 Set1)



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

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Visit the ESRI Coastal and Marine Web Site

This Web site is the result of many people's focused efforts to bring together a marine and coastal Web site for marine Geographic Information System (GIS) users all over the world. Please visit <http://www.esri.com/industries/marine/index.html> and send this link to anyone involved in the marine GIS world.

Marine GIS Books

Marine Geography: GIS for the Oceans and Seas

<http://gis.esri.com/esripress/display/index.cfm?fuseaction=display&websiteID=61&moduleID=0>

Edited by Joe Breman; Foreword by Charles Convis

Scientists, academics, and professionals studying the world's oceans and seas use GIS technology to investigate their areas of interest. Population sprawl along the coasts and in near-shore zones along with the potential threat of rising sea levels creates many new problems and challenges. As marine plants and animals face increasing environmental threats, researchers are discovering how GIS can help conserve these important and valuable populations and resources.

Undersea With GIS

<http://dusk.geo.orst.edu/undersea>

Edited by Dawn Wright; Foreword by Sylvia Earle

Undersea With GIS focuses on recent technical advances in mapping the deep oceans, coasts, and estuaries with GIS as well as nautical charting and scientific visualization. Included in the book is a special section on Internet delivery of these products and a CD-ROM with GIS tools and extensions for oceanographic applications. So many advances have been presented in excellent form at recent ESRI User Conferences that the book includes papers from the Coastal, Ocean, and Marine Resources track at the 1999 and 2000 ESRI User Conferences as well as selected projects featured in past ESRI Map Galleries and at the 1999 User Conference Special Exhibition on Ocean GIS.

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

For other related publications, please see marine GIS publications at

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

Geographic Information Systems in Oceanography and Fisheries

<http://arch.imbc.gr/announce.html>

Marine GIS applications share only about one-fifth of GIS history. They created a new application theme in the field of GIS, posing several challenges in the domain of geographical information science. These new challenges originate from the fact that a computerized application is called upon to model the dynamics of a marine environment and provide meaningful explanations about these dynamics. The strength of marine GIS is that it fully develops the central point of GIS technology, georeferenced data integration, to explain the dynamic relations between marine processes and species population characteristics.

A new collection of marine GIS case studies called *Marine Geography* will be going to press in the coming weeks. The 25 chapters highlight many elements of marine-related conservation and management.

Pacem in Maribus 2002 Conference

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 a source of such exciting opportunities. It is vital that we accept the challenge not only of creating opportunities but also of using them in a wise and sustainable manner to bring benefits to coastal communities in both the developed and, especially, the developing world.

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

The International Ocean Institute–Southern Africa, will host the symposium, which 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 at <http://www.ioinst.org/pim2002> for more information, or contact the symposium secretariat at pim2002@uwc.ac.za.

Coastal GeoTools 2003 Conference

Coastal GeoTools is back! Please mark your calendars for January 6–9, 2003, to join us in historic Charleston, South Carolina, for the premier spatial technology conference for coastal resource professionals.

This GeoTools conference will be better than ever, so we sincerely hope you will be able to attend. Visit the Web site at <http://www.csc.noaa.gov/GeoTools/> for initial conference information. Be sure to check the Web site often since it will be updated periodically to include the final program, registration, and exhibitor information.

Marine Archaeology may Strike Gold

As new technologies open up the deep sea, the maritime superpowers of past and present have tried to assert ownership over thousands of ships lost in distant waters. In the past, little came of the claims because the governments often lacked the money and skills to pull sunken treasure and cultural riches from the depths. Now, however, a new agreement between the British government and a private company may be an important first step in the development of a partnering approach to deep-sea archaeology. Experts say it could end the days of freelance treasure hunting.

Find out more online at

<http://www2.ocregister.com/ocrweb/ocr/article.do?id=5809§ion>

National Conference on Coastal and Estuarine Habitat Restoration

The Inaugural National Conference on Coastal and Estuarine Habitat Restoration will be held April 13–16, 2003, in Baltimore, Maryland. The national nonprofit agency Restore America's Estuaries will host the conference, to be held at the Hyatt Regency Inner Harbor Hotel. This will be the first nationwide forum focused solely on the goals and practices of coastal and estuarine habitat restoration. Incorporating the nonprofit, government, business, and academic sectors, the conference will enable networking and communication throughout this growing movement.

Visit the conference Web site at <http://www.estuaries.org> for more information.

Northern Geomatic ArcIMS Site Tracks Whale Sightings

As part of the Maine Large Whale Take Reduction Plan, the Maine Department of Marine Resources (MDMR) launched a new Internet mapping site to track whale sightings in Maine waters. The Web site, developed by Northern Geomatics of Hallowell, Maine, uses the latest Internet mapping system (IMS) technology to display historical and current whale sightings on a detailed, interactive map. The primary goal of the site is to facilitate awareness of whale sightings for fishermen, thereby reducing gear entanglements.

Visitors to the site will learn more than just where the whales are. Clicking on a whale reveals such interesting facts as the number and species of whales sighted, and their behavior and condition at the time of the sighting and whether or not the whale is entangled.

The Maine Whale Plan Sightings Page can be accessed through a link on the Department of Marine Resources' home page at <http://megisims.state.me.us/whalesightings>.

AAG 2003 - GIS in Coastal and Marine Areas

The Association of American Geographers (AAG) 2003 session is seeking papers on the general topic of the use of GIS in coastal and marine areas. Areas of study might include GIS in support of marine-protected areas, the uses for GIS in coastal and estuarine/marsh areas, and GIS in the deep ocean. Additional topics could include the challenges and pitfalls of using GIS in a three-dimensional environment, marine data models and visualization. Both theoretical and pragmatic applications are welcome.

For more information, contact Tiffany C. Vance, NOAA and Oregon State University, at Tiffany.C.Vance@noaa.gov; or Dawn Wright, Oregon State University, at dawn@dusk.geo.orst.edu.

Register online for the AAG 2003 annual meeting at the AAG Web site, <http://www.aag.org/AnnualMeetings/Intro.html>.

Third International Workshop on Scientific Use of Submarine Cables and Related Technologies Workshop

The Third International Workshop on Scientific Use of Submarine Cables and Related Technologies will be held on June 24–27, 2003, at the Komaba campus of the University of Tokyo, Japan.

Since the second international workshop was held in Okinawa, Japan, in 1997, significant progress has been made in this field. Several new-cabled scientific observatories have been constructed, and retired coaxial submarine telecommunication cables have been reused for scientific observations. Ongoing evolution of the Internet, computers, and optical submarine cables continues to present new opportunities to develop a novel submarine cable network with a new architecture for scientific use. This has led to new ways of working with ocean sciences that are changing and will continue to change our understanding of ocean processes. It also offers unprecedented opportunities for education and outreach that can improve public understanding of the ocean sciences.

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