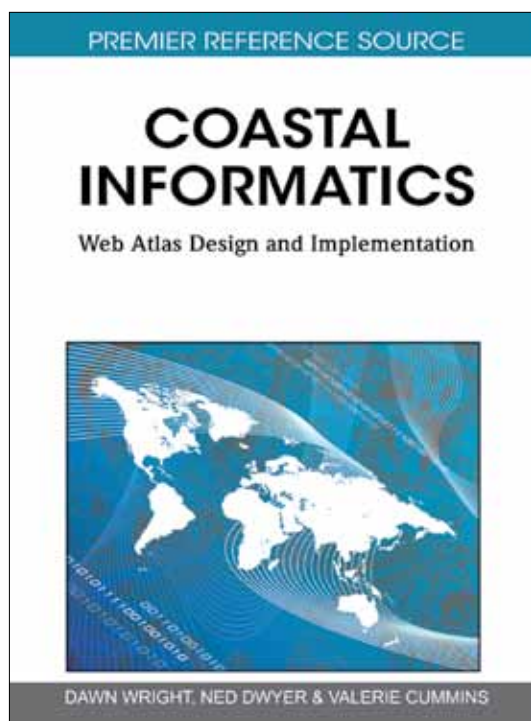


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Coastal Informatics: Web Atlas Design and Implementation



Dawn Wright (Oregon State University, USA),
Ned Dwyer (University College Cork, Ireland)
and Valerie Cummins (University College Cork, Ireland)

The field of web-based coastal atlas informatics presents experts with a variety of unique considerations in an area where accuracy is of vital importance and proper representation of spatial data come to the forefront.

Coastal Informatics: Web Atlas Design and Implementation reviews and presents the latest developments in the emerging field of coastal web atlases through a series of case studies giving practical guidance on geographic data management and documentation through standards-based metadata, as well as making underlying geographic databases interoperable. Readers will find this book of practical use in Web atlas design, development and implementation, improving spatial thinking in the coastal context.

Topics Covered:

- Coastal Web Atlas Features
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- Coastal Atlas Interoperability
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- Open Geospatial Services
- Controlled Vocabularies and Ontologies
- Coastal Web Atlas Case Studies Around the World
- European Union Atlases
- Australia, the Pacific, Africa, and the Caribbean
- Oregon, USA, Atlases
- The Atlas System - A Developer's Perspective

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Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.

Dawn Wright is a professor of geography and oceanography at Oregon State University, and the director of the Davey Jones' Locker Seafloor Mapping/Marine GIS Laboratory. Her research interests include geographic information science, coastal web atlases, benthic terrain and habitat characterization, tectonics of mid-ocean ridges, and the processing and interpretation of high-resolution bathymetry and underwater videography/photography. She serves on the editorial boards of the *International Journal of Geographical Information Science*, *Transactions in GIS*, *Journal of Coastal Conservation*, *The Professional Geographer*, and *Geography Compass*, as well as on the US National Academy of Sciences' Ocean Studies Board, Committee on Strategic Directions in the Geographical Sciences for the Next Decade, Committee on an Ocean Infrastructure Strategy for US Ocean Research in 2030, and the Committee on Geophysical and Environmental Data. She serves on the Technical Advisory Board of the Marine Metadata Interoperability project. Dawn's other books include *Arc Marine: GIS for a Blue Planet* (with M. Blongewicz, P. Halpin, and J. Breman, ESRI Press, 2007), *Place Matters: Geospatial Tools for Marine Science, Conservation, and Management in the Pacific Northwest* (with A. Scholz, Oregon State University Press, 2005), *Undersea with GIS* (ESRI Press, 2002), and *Marine and Coastal Geographical Information Systems* (with D. Bartlett, Taylor & Francis, 2000). Dawn holds a Ph.D. in Physical Geography and Marine Geology from the University of California at Santa Barbara. She is a fellow of the American Association for the Advancement of Science.