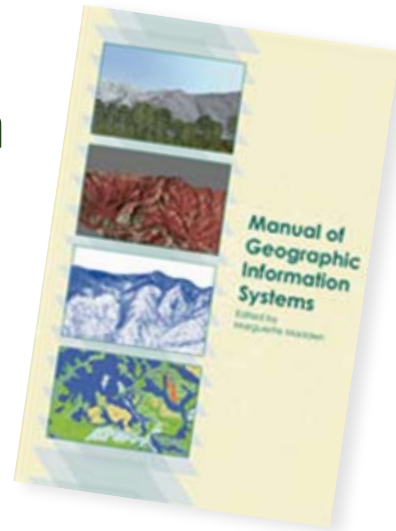


Manual of Geographic Information Systems

—edited by Marguerite Madden, PhD

“ I can recall the time, not long ago, when there were no manuals of GIS, no textbooks of GIS, and no journals devoted to GIS; a time when the existing literature consisted mostly of papers presented at conferences and final reports of the few projects that had used what has come to be called GIS technology. ”

—Jack Dangermond



—by A. M. Kinerney

The *Manual of Geographic Information Systems* is the latest addition to the growing collection of manuals published by the American Society for Photogrammetry and Remote Sensing (ASPRS). Until now, however, there has never been a manual devoted to geographic information systems (GIS). Edited by Marguerite Madden, PhD, with the Foreword by Jack Dangermond, President, Environmental Systems Research Institute, Inc. (ESRI), this volume is designed to be a comprehensive resource on GIS for students, researchers and practitioners who are interested in asking spatial questions, assessing landscapes, building geodatabases and envisioning a world of integrated geospatial technologies.

“This ASPRS *GIS Manual* facilitates photogrammetry and remote sensing working more closely with GIS; that will inevitably produce important new scientific and technological developments,” said Dangermond in the Foreword. “I hope this *Manual* will bring all geospatial professionals closer together. We need their cooperation and collaboration in problem solving; we need them to lead our efforts to meet the challenges we face.”

The book has been organized in eight major sections: Background and Overview; Data Models, Metadata and Ontology; GIS Data Quality and Uncertainty; Spatio-Temporal Aspects of GIS; Analysis and Modeling; Blending GIS with Remote Sensing, GPS and Visualization; GIS and the World Wide Web; and, GIS Applications. Top researchers in GIS from around the world, along with emerging scholars, have told the story of a discipline that originated alongside advances in computer technology and is increasingly incorporated into our daily lives. The wide range of topics covered in the 62 chapters of this volume attest to the role GIS plays in blurring the boundaries between traditional photogrammetry, remote sensing, land surveying,

The Table of Contents and list of authors for this manual can be found at www.asprs.org/gis_manual. The DVD that accompanies this book contains more than 300 color figures plus digital content contributed by leading GIS companies, agencies and institutions including, ESRI; ERDAS; SAIC; IVS 3D; NOAA; USGS; San Diego State University; University of California, Santa Barbara; University of Plymouth; Florida State University; University of Georgia; and, State University of New York College of Environmental Science and Forestry.

The book is available at a pre-publication price of \$95.00 plus shipping and handling until June 30, 2009 [ISBN: 1-57083-086-X, Hardcover, 1352 pages + DVD, Stock #4650]. To order, go to www.asprs.org and click on the On-line Bookstore link.

geodesy, cartography, and computer science. The *Manual of Geographic Information Systems* provides a conceptual framework for data connected to location, the language needed for spatial conversation and analysis tools for discovery of geographic place, proximity, dimensions, trends and correlations.

“We are proud that we have been able to add the *Manual of Geographic Information Systems* to the distinguished series of manuals published by ASPRS,” said ASPRS President Brad Doorn. “It is tangible evidence that ASPRS is executing its mission to advance the understanding of geospatial sciences.”