

**MARK A. WHITE**

Manager, Geographic Information Systems Department

Mr. White is the Manager of Research Planning, Inc.'s Geographic Information Systems (GIS) department. He has been a member of the RPI team for 16 years. He has extensive experience in project management, personnel allocation, budgeting and budget tracking, and client/stakeholder interactions as well as extensive experience in GIS database design, development, and techniques.

Mr. White specializes in ArcGIS®, Arc/INFO® geographic information system software for design, development, digitization, and product development for various natural resource management projects. He is experienced in ORACLE™ and MS SQL Server relational database management systems for design and structural relationships with various GIS data. He is responsible overseeing the Environmental Sensitivity Index (ESI) mapping program at RPI. Mr. White has managed or participated in the development and publishing of more 50 ESI atlases and digital data sets. These atlases and data sets include the Environmental Sensitivity Index Atlases for Puerto Rico, US and British Virgin Islands, Gulf of Aqaba, Hawaii, Florida, Washington, Columbia River, American Samoa, Alaska, Gaza Strip, as well as many others worldwide. The ESI mapping program includes the development of the Coastal Resources Atlases and data sets for Honduras, Guatemala, Golfo de Fonseca, El Salvador, and the Aleutians Islands.

Over the last 8 years, Mr. White has been a member of the National Oceanic and Atmospheric Administration (NOAA) Oil Spill Support Team as a home-team data manager and product developer that supports the on-scene Scientific Support Coordinator (and team) during oil/hazardous spill emergencies. He has experience in coastal remote sensing, coastal remote sensing applications, coastal habitat classification, benthic habitat delineation, oil impact mapping, and oil type classification and volume estimation of spilled oil using digital aerial photography.

Mr. White also manages new project development, new application and ArcGIS® extensions development, internet mapping, GIS technical guidance, and oversees the implementation of quality control procedures.

**EDUCATION**

B.A., Geography, University of South Carolina (USC), Columbia (1992).  
Concentration in Geographic Information Systems (GIS) and  
Cognate: Business Administration, Management

**PROFESSIONAL EXPERIENCE**

**1999-Present:** Manager, GIS Program, Research Planning, Inc.

Responsible for project planning, database design, technical implementation strategies, data development/creation, data /spatial analysis and interpretation, and quality control for all of RPI's Environmental Sensitivity Index (ESI) mapping projects and Gulf-Wide Information System (G-WIS) projects. He has manages the GIS component of several concurrent mapping projects for NOAA (Bristol Bay Alaska, Chukchi Sea Alaska, Beaufort Sea Alaska, Columbia

River, New Hampshire, Chesapeake Bay Virginia, and Chesapeake Bay Maryland) and other G-WIS mapping projects (Louisiana G-WIS, Florida G-WIS and Minerals Management Service Beaufort Sea). The G-WIS data is developed for the Minerals Management Service's Coastal and Offshore Resource Information System (CORIS). He is responsible for GIS project development, applications development, and Internet mapping.

Responsible for managing DOT's Unusually Sensitive Areas (USAs) mapping program for all Public Water Supplies in the US.

He designs and maintains technical mapping parameters/standards and metadata standards for all mapping projects. The metadata standards have been approved by the Federal Geographic Data Committee.

Responsibilities include final QA/QC of ESI and G-WIS digital data and metadata for all project deliverables.

**1995-1999:** GIS Project Coordinator, Research Planning, Inc. Duties include GIS project administration including methodology development, budget analysis, technical implementation strategies, data development/creation, data /spatial analysis and interpretation, data entry and management, and product delivery including atlas, metadata, and digital GIS and relational data.

**1992-1995:** GIS Technician, Research Planning, Inc. Assisted in the design and creation of relational database structure for use with environmental sensitivity index maps, as well as with the data entry and editing process of the ESI maps.

**1991-1992:** Research Assistant, Humanities and Social Sciences Computing Laboratory, University of South Carolina under Dr. David Cowen and Lynn Shirley. Assisted the GIS manager in database and application development for a Savannah River Site land use development project.

## **SELECTED PUBLICATIONS**

Locke, C., M. White, J. Michel, C. Henry, J.D. Sellars, and M. L. Aslaksen, Jr. 2008. Use of Vertical Digital Photography at the Bayou Perot, LA Spill for Oil Mapping and Volume Estimation. Proc. 2008 International Oil Spill Conference, May 5-7 2008, Savannah, GA.

Plank, C., W.T. Holton, M. White, J. Michel, C. Sherman, I. Csato, and C. Sames, 2003. Nationwide assessment and mapping of drinking water "Unusually Sensitive Areas" (USAs). Proc. 2003 International Oil Spill Conference, American Petroleum Institute Publ. No. 14730 A (CD-ROM).

Petersen, J., J. Michel, M. White, S. Zengel, C. Lord, and, C. Plank, 2002. Environmental Sensitivity Index Guidelines, Version 3.0: Prepared for the Hazardous Materials Response and Assessment Division, NOAA, Seattle, Wash., NOAA Tech. Memo. NOS OR&R 11, 89 pp. + app

Zengel, S., M.O. Hayes, J. Michel, M. White, B. Benggio, F. Lopez, E. Mosher, S. Touw, 2001, Integrated planning from the mountains to the sea: environmental sensitivity mapping in the

Puerto Rico. 2001 International Oil Spill Conference Proceedings (in press). American Petroleum Institute, Washington, D.C.

Zengel, S., M. Hayes, J. Michel, and M. White, 2000, Integrated Planning from the Mountains to the Sea: Environmental Sensitivity Mapping in the Caribbean. Submitted for Presentation, Oil Spill Conference 2001, Tampa., Fla.

Zengel, S., J. Halls, W. Holton, and M. White, 1999, Environmental Sensitivity Index (ESI) Mapping and GIS Products: Tools for Coastal Zone Management. 1999 Coastal GeoTools Conference, NOAA Coastal Services Center, Charleston, SC.

White, M. and K. Hastings, 1997, Effective management of GIS projects using quality control and quality assurance standards. Environmental Systems Research Institute Conference, 8-11 July 1997, San Diego, California.

Zengel, S., A. Meylan, H. Norris, M. White, L. Diveley, W. Holton, and K. Moody, 1996, Mapping sensitive sea turtle areas in Florida for oil spill response and natural resources management (abstract). 16th Annual Symposium on Sea Turtle Biology and Conservation, Hilton Head Island, S.C.

Zengel, S., L. Diveley, M. White, W. Holton, and A. Meylan, 1995, Collection and compilation of biological data during Environmental Sensitivity Index (ESI) mapping. Invited Presentation, Annual Meeting of the Florida Region of the American Society of Photogrammetry and Remote Sensing (ASPRS), 25-26 September 1995, Tampa., Fla.