

WILLIAM T. HOLTON, JR.

GIS Systems Manager

Mr. Holton is the Systems Manager of Research Planning, Inc.'s Geographic Information Systems (GIS) department, specializing in computer system management, database management and design, digital and hardcopy data presentation, computer networking, and programming. His responsibilities have included system administration on PC and UNIX platforms, developing and managing databases for various natural resource management projects, developing applications for hardcopy production of digital data and Quality Assurance and Quality Control (QA/QC) of digital data for various natural resource management projects. Mr. Holton is an expert in design of database structure and the relationships between databases and GIS applications.

EDUCATION

B.S., Computer Science, University of South Carolina, Columbia (1992).

PROFESSIONAL EXPERIENCE

1994-Present: GIS System Administrator, Research Planning, Inc. Duties include system management of the GIS computer network, ARC/INFO® GIS software, and ORACLE™ Relational Database. Developing applications and databases for various natural resource management projects including the National Oceanic and Atmospheric Administration's (NOAA) Environmentally Sensitive Index (ESI) Atlases and the U.S. Department of Transportation's model for identifying Unusually Sensitive Areas (USAs). Developing applications for data conversion and QA/QC processes of ESI digital data into the Minerals Management Service's Coastal and Offshore Resource Information System (CORIS) Gulf-Wide Information System (G-WIS).

1992-1994: GIS Technician/Programmer, Research Planning, Inc. Responsible for developing applications for producing hardcopies of ESI atlases and symbology. Assisted in the design and creation of relational database structure for use with ESI maps, as well as with the data entry and editing process of the ESI maps.

1990-1992: Computer Scientist, Research Planning, Inc. Designed a statistical analysis database of accidents for British Petroleum. Designed and created a geographic information database for mapping utility facilities for South Carolina Electric and Gas Company. Assisted in the design and development of an interactive geographic port study database.

TECHNICAL EXPERTISE

Software:

Expertise in UNIX, Windows 2000, Windows NT, Windows 95/98, ORACLE™, SQL, ARC/INFO®, ARC/INFO®'s macro language (AML), ArcView, AV Spatial Analyst extension, Pixel!FX, Image Alchemy, , MapINFO®, multiple database packages (including Microsoft SQL Server, Microsoft Access, Microsoft FoxPro, and Paradox), multiple word processing packages, and multiple spreadsheet packages.

Hardware:

Expertise on NT, UNIX, DOS, Windows, and MacIntosh platforms. Experienced with various networking components including hubs, routers, and switches. Experienced with pen plotters, inkjet plotters, electrostatic plotters, color copiers, laser printers, and global positioning systems.

SELECTED PUBLICATIONS

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. 16th Annual Symposium on Sea Turtle Biology and Conservation, Hilton Head Island, South Carolina, 26-28 February 1996.

Zengel, S., L. Diveley, M. White, W. Holton, and A. Meylan, 1995, Collection and compilation of biological data during environmental sensitivity mapping. Invited Presentation, Florida Region of the American Society of Photogrammetry and Remote Sensing Annual Meeting, 25-26 September 1995.

Halls, J. and W. Holton, 1995, Implementing Region Topology to Produce Coastal Resource Atlases. Reviewed, published, and presented at the Fourteenth Annual ESRI User Conference, Palm Springs, California, 22-26 May 1995.