

**JOSEPH M. HOLMES**  
Graphics Director/Senior Cartographer

Mr. Holmes is a geographer and a specialist in cartography. He is experienced with all aspects of data acquisition and analysis, thematic map design, drafting, digitizing, graphic design, website design and CD-ROM production. In addition, Mr. Holmes is familiar with the special requirements of computer mapping, remote sensing and geographic information systems. As a cartographer, he is capable of bringing together a wide array of graphic techniques to produce maps where special consideration has been given to their intended use by the client.

**EDUCATION**

M.A., 1984: Department of Geography, University of South Carolina, Thesis: "Cognitive Processes used to Recognize Perspective Three-Dimensional Map Surfaces."

B.F.A., 1979, Department of Art, Western Carolina University, Specialized in Studio Art.

**EMPLOYMENT**

**1985-present:** Graphics Director, Research Planning, Inc., Columbia, South Carolina.

**1984-1985:** Cartographer, University of South Carolina, Columbia, South Carolina.

**PROFESSIONAL EXPERIENCE**

NOAA and other ESI Atlases: Graphics Director for 45 bound atlases that focused on sensitive shoreline habitats and wildlife resources at risk to oil spills. These include the coastal environments of Puerto Rico, Virgin Islands, El Salvador, Guatemala, Honduras, Hawaii, Alaska, Washington, Columbia River, Oregon, San Francisco Bay, Northern, Central, and Southern California, Lake Ontario, Northern Lake Michigan, Western Lake Michigan, Southern Lake Michigan, Lake Superior, Lake Huron, Texas, Louisiana, Mississippi, Alabama, Georgia, West Peninsular Florida (2 volumes), West Florida, South Florida, East Florida, South Carolina, North Carolina, Delaware/New Jersey/Pennsylvania, Massachusetts, Rhode Island, Connecticut, and New York. (April 1986 to present).

NOAA ESI Summary Map Series: Graphics Director for four full color map sets of environmentally sensitive resources for the Puget Sound in Washington state, Prince William Sound in Alaska, Delaware Bay in New Jersey and Delaware, Cook Inlet/Kenai Peninsula in Alaska, and Kodiak Island, Alaska. (February 1986 to present).

Training Course Field Coordinator: 4-6 week-long field seminars each year covering the modern clastic depositional systems along the coastlines of South Carolina and south-central Alaska. These courses are sponsored by the American Association of Petroleum Geologists, as well as Schlumberger Well Services, British Petroleum, Arco, and Esso Canada. (June 1989 to September 2000).

CD-ROM Production: Produced interactive CD-ROMs titled "South Carolina Coastal Environments" and "Tidal Inlet Protection Strategies for Oil-Spill Response: Coast of Rhode Island". (July 1998 and May 2000, respectively).

NOAA Port Studies: Graphics Director for 20 computerized map database studies which assess the risk of hazardous material pollution incidents in such major U.S. ports as Philadelphia, Los Angeles, Seattle, and Baltimore. (February 1985 to September 1991).

Nigerian National Petroleum Corporation Report: Graphics Coordinator for a comprehensive final report which assessed existing ecological conditions in the oil-producing regions of Nigeria for the establishment of control criteria and standards against petroleum-related pollution. (May 1985 to November 1985).

Remote Sensing Manual: Graphics coordinator for Introductory Digital Image Processing, 1986, Prentice Hall, authored by John Jensen, professor at the University of South Carolina (August 1984 to May 1985).

Thematic Atlas of Saudi Arabia: Cartographer for the production of a range of socio-economic maps for an atlas published by the Saudi government. (August 1984 to February 1985).

## **PUBLICATIONS**

Dahlin, J.A. and J.M. Holmes, 1992, Guidelines for digitization of ESI maps and symbology standards. Prepared for the Marine Spill Response Corporation, Wash., D.C., RPI/R/92-5, 28 pp. plus appendices.

Jensen, J.R., E.W. Ramsey, J.M. Holmes, J. Michel, B. Savitsky, and B.A. Davis, 1990, Environmental sensitivity index (ESI) mapping for oil spills using remote sensing and geographic information system technology: in Intl. J. of Geographic Information Systems, Vol. 4, No. 2, pp. 181-201.