

## SERVICES

Since 1978, RPI has been providing solutions for coastal and environmental management. RPI specialists, including on-staff ecologists, biologists, geologists, geochemists, and marine scientists bring a multi-disciplinary approach to environmental consulting. RPI has years of direct experience working in close cooperation with state, federal, and non-profit resource trustees, as well as private industry. Our capabilities for rapidly bringing to bear the appropriate scientific expertise are unmatched.

RPI's Geographic Information Systems (GIS) and remote sensing analysts, programmers, database engineers, cartographers, and computer scientists have extensive experience in developing analytical and cartographic information solutions. RPI's focus is the unique and unparalleled potential of uniting natural resource expertise with the spatial and information processing capabilities.

### Geographic Information Systems (GIS) and Spatial Analysis

Our core capabilities involve mapping and spatial analysis for demographics and natural resource management. We have been providing Geographic Information Systems (GIS) and spatial analysis support to state and federal agencies, private industry, and international organizations since 1989. Our expertise in the physical and biological sciences, urban planning, and the acquisition and analysis of a variety of remote sensing products, from digital aerial photographs to high-resolution satellite imagery to LIDAR and other airborne sensors, combined with our proficiencies in GIS and cartography, relational database design, geostatistics, 3-D modeling and visualization allow us to specialize in GIS and analysis

### Natural Resource Damage Assessment (NRDA)

RPI offers highly experienced staff in the following areas of NRDA:

- Emergency Response and Ephemeral Data Collection
- Preassessment Phase Activities
- Case Management
- Design and Implementation of Field and Lab Studies for Injury Quantification
- Restoration Scaling

- Preparation of Damage Assessment and Restoration Plans
- Expert Testimony

### Spill Response and Planning

RPI's rapid response team is able to go anywhere in the world in the event of an oil or chemical spill emergency. We currently respond to about 50 spills per year. Because of our extensive experience at many oil spills, RPI is uniquely qualified in the following areas:

- Emergency Technical Response
- Oil Spill Contingency Planning
- Applied Oil Spill Research and Monitoring
- Environmental Sensitivity Index (ESI) Mapping: Using GIS Technology Improves Planning and Response
- Oil Spill Training Courses
- Protection Strategies for Tidal Inlets

### Environmental and Coastal Resources Management

RPI assesses impacts and developing mitigation measures around the world for a variety of coastal hazards, including hurricanes, beach erosion, oil spills, and tidal inlet expansion and migration. Our research and investigations always seek answers based on the most current and detailed physical and biological processes data available. RPI specialists bring a multi-disciplinary approach to evaluating environmental conditions and developing recommendations that work within the natural and sustainable constraints of a system.

### Database/Application Development

RPI has extensive experience in making use of developments in information technology to provide our clients with better ways to collect, access and visualize natural resource information. Our staff has extensive experience in the following areas:

- Creating complex relational databases for the storage and analysis of natural resource data
- Developing customized desktop GIS applications for multiple software packages
- Design custom field data collection software for use with Global Positioning System (GPS) units and/or other analytical instruments

