

# Abstract

## **Adding Spatial Queries to a Legacy Search Engine Using ArcIMS**

**Track:** Ocean, Coastal, and Marine Resources

**Author(s):** Stephen Threlkeld, Greg Easson, Chuck Parker

The University of Mississippi (UM) NASA-supported Geoinformatics Center and NVision Solutions Inc., added ArcIMS spatial querying capability to a perl-based text search engine for articles published in the international scientific journal "Estuaries," whose editorial offices are located at UM. ArcIMS allows users to select an area of interest to search the article database for articles with research locations, or authors' research institutions, within the selected area. AXL is used to exchange spatial information between the search engine and ArcIMS. In addition to hydrologic and political layers the ArcIMS map includes a worldwide Landsat 7 mosaic.

### **Stephen Threlkeld**

University of Mississippi  
Department of Biology and Geoinformatics Center  
Department of Biology, Shoemaker Hall  
University of Mississippi  
University , MS 38677  
USA

**Phone:** 662-915-5803

**Fax:** 662-915-1537

**E-mail:** [stt@olemiss.edu](mailto:stt@olemiss.edu)

### **Greg Easson**

Department of Geology and Geological Engineering  
Department of Geology and UM Geoinformatics Center  
University of Mississippi  
Carrier Hall  
University 38677  
USA

**Phone:** 662-915-5995

**E-mail:** [geasson@olemiss.edu](mailto:geasson@olemiss.edu)

### **Chuck Parker**

NVisions Solutions, Inc.  
Suite 146J, Bldg. 1103

Stennis Space Center

Bay St. Louis 39529

USA

**Phone:** 228-688-3951

**Fax:** 228-688-3843

**E-mail:** [cparker@NVisionSolutions.com](mailto:cparker@NVisionSolutions.com)