RPI

Bryan M. Thom   **Research Planning, Inc.**
GIS Analyst

Mr. Thom is a Geographic Information Systems (GIS) Analyst specializing in environmental mapping and spatial analysis. His responsibilities at RPI include GIS support for several different types of projects and tasks, including a growing list of Environmental Sensitivity Index mapping projects and deploying to chemical and oil spills. Mr. Thom has experience in deploying to the field to provide data support for oil and chemical spills.

EDUCATION

B.S., Geography (*Earth and Atmospheric Geography; Geographic Information Science*), Salisbury University, Salisbury, MD (2010).
A.A., General Studies (*Math and Science*), Harford Community College, Bel Air, MD (2008)

Awards and Honors
Dean's List – Fall 2008, Spring 2010
Presidential Citizen Scholar Program – 2009-2010 academic year
Geographic Society Award – Spring 2010
Outstanding Service to the Department – Spring 2010

PROFESSIONAL EXPERIENCE

2010 – Present: GIS Analyst, Research Planning, Inc.

2010: GIS Intern, Caroline County Department of Planning, Codes, and Engineering, Denton, MD

2009: GIS Technician (Student Temporary Employee Program), National Park Service, Berlin, MD

2009-2010: Lab/Teaching Assistant, Salisbury University Dept. of Geography and Geosciences, Salisbury, MD

2008-2010: GIS Intern, Eastern Shore Regional GIS Cooperative (ESRGC), Salisbury, MD

2005-2013: Boatswain's Mate (Petty Officer) 3rd Class, United States Coast Guard, Reserve

Mr. Thom's experience is outlined separately on the following pages in three main areas:

1) ESI/Coastal Resource Mapping

2) Oil and Hazardous Material Spill Response/Assessment

3) Various

COASTAL RESOURCE MAPPING FOR OIL SPILL CONTINGENCY PLANNING AND RESPONSE

Environmental Sensitivity Index (ESI) Mapping: Mr. Thom served as GIS support on the following ESI Projects used for coastal zone management, contingency planning, and hazardous material/natural disaster responses:

Florida, Western Peninsula	2012
South Florida	2013
Texas, Upper Coast	2013
Louisiana	2013
Delaware Bay	2013
Washington/Oregon	2014
South Carolina	2015
Georgia	2015
Chesapeake Bay	2016
Southwest Florida	2016

His role as data support on multiple ESI projects requires extensive coordination and team work with other RPI employees in various departments. He has extensive knowledge of GIS software, especially with ESRI's ArcGIS software suite.

OIL AND HAZARDOUS MATERIALS SPILL RESPONSE/ASSESSMENT

Emergency Response: Mr. Thom has been deployed to provide on-scene data support during oil spills. He has been responsible for database management of the NOAA SCAT database, collecting and processing data taken by field teams, as well as various other duties including conducting spatial analysis, making maps and compiling data for reports, Shoreline Treatment Recommendations (STRs) and operations planning.

He has provided international on-scene support for the Emergency Response and Assessment and Restoration Divisions of NOAA and other companies at incidents, including:

2016 *16Tan Incident – Lloydminster, Saskatchewan:* SCAT Data Support. Mr. Thom worked in conjuncture with Owens Coastal Consultants (OCC) to provide data support for the Husky Energy oil spill in the North Saskatchewan River.

2015 *Apex 3508 – Paducah, KY:* Sunken Oil Workgroup Data Manager. Mr. Thom participated in a team using side scan sonar to locate sunken clarified slurry oil on the Mississippi River.

Refugio Incident – Santa Barbara, CA: SCAT Data Manager. Responsibilities included maintaining SCAT data, producing daily deliverables, offering remote support to SCAT as well as NOAA NRDA representative, working closely with California Oil Spill Prevention and Response (OSPR) personnel, and attending Unified Command briefings.

2014 *Texas City Y – Port O'Connor & Galveston TX:* SCAT Data Manager for two Incident Command Posts. Responsibilities included briefing state trustees, collecting and processing field data, maintaining the SCAT data, producing daily deliverables, and remotely supporting SCAT operations.

2010   *Deepwater Horizon – Houma, LA*: Assisted Shoreline Cleanup Assessment Team (SCAT) data team, team leads and representatives of state and federal government and contractors by making maps and conducting spatial analysis, as well as collecting and processing field data. He has assisted other members of the data team with maintaining a geographically referenced photograph database. Mr. Thom also helped SCAT teams conduct field work when extra personnel were needed.

Training and Courses: Mr. Thom has completed National Incident Management System (NIMS), Incident Command System (ICS) courses IS-00100.a (ICS 100), IS-00200.a (ICS 200), IS-00300.a (ICS 300) and IS-00700.a (ICS 700).

VARIOUS OTHER PROJECTS

South Atlantic Information Resources: Data Search and Literature Synthesis for the Bureau of Ocean Energy Management, (BOEM 2013-01157): Mr. Thom supported the BOEM South Atlantic Synthesis as a GIS Analyst by performing literature searches and creating a spatial component using GIS technologies reflecting study areas from each piece of literature (2010 – 2011).

Mr. Thom has aided in various other projects at RPI, including digitizing pipelines for a project with Saudi oil company Aramco, producing field maps for SCAT training courses, assisted in producing a shoreline for Natural Resource Damage Assessment (NRDA) for the Deepwater Horizon oil spill, identifying marine debris washed ashore after Hurricane Sandy, and fulfilling other spatial needs within RPI.