

## **Sarah F. Griffee, M.A.**

*Coastal GIS Analyst, Applied Coastal Research and Engineering, Inc.*

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### **Areas of Expertise**

- Geographic Information System (GIS) development and analysis
- Computer Aided Design (CAD) computer mapping applications
- Remote sensing and image processing analysis
- Database development and management
- Web site development

### **Education**

2005, M.A., Geographic Information Systems and Environmental Remote Sensing, Boston University

2000, B.S., Geology, The University of Vermont

### **Experience**

Ms. Griffee is a Coastal GIS Specialist at Applied Coastal Research and Engineering, Inc. Since joining Applied Coastal in June 2005, she has been involved in a broad range of regional geomorphic change and sediment budget analyses using GIS software. She has also participated in various field activities associated with the Massachusetts Estuaries Project.

Prior to joining Applied Coastal, Ms. Griffee was an M.A. student at Boston University. At Boston University, she was involved with several projects using GIS and remotely sensed data including creating a bathymetric surface for a tidal inlet by using several different spatial interpolation techniques and analyzing ocean circulation patterns using sea surface temperatures derived from satellite imagery.

Before attending Boston University, Ms. Griffee was employed as a research assistant for the U.S. Geological Survey (USGS) in Woods Hole. From July 2000 to July 2002 and July 2003 to August 2004, she worked on the Stellwagen Bank National Marine Sanctuary (SBNMS) Mapping Project and the Georges Bank Habitats Project. Her responsibilities included generating and maintaining GIS databases for these projects, producing geologic and bathymetric maps using GIS and Adobe for publication, processing sidescan sonar data, creating the SBNMS website and digital maps for the Marine Invasive Species website, and assisting in the collection of sonar, sediment, and video/photographic data while at sea.

In fall 2003 and winter 2004, Ms. Griffee earned certificates in AutoCAD I, II, and III from the Upper Cape Cod Regional Technical School in Bourne, MA. In these courses, she learned the basic and advanced CAD tools that are used in computer drafting.

From September 2002 to June 2003, Ms. Griffee was a research assistant at the University of North Carolina in Chapel Hill, NC. Her responsibilities included collecting and processing ground-penetrating radar from a barrier island, maintaining the data in a GIS, and analyzing the geologic framework of the island.

While a student at the University of Vermont in Burlington, VT, Ms. Griffee worked as an intern for the Vermont Geological Survey. In this position, she conducted surficial geology mapping in Northern Vermont and contributed maps and cross-sections to the new surficial geologic map of

Vermont. She also completed a senior thesis project that involved mapping and identifying the petrology and geochemistry of several different rock formations in Vermont.