

STEPHEN JOHN MCCANDLESS

(smccandless@gis.necoxmail.com)
67 Sand Plain Road, Charlestown, RI 02813
(401) 213-6161

EDUCATION:

M.S., Environmental Science (Focus: Geosciences), University of Rhode Island, Kingston, RI, August 2001.

B. S., Marine Science, Kutztown University, Kutztown, PA, May 1995.

EXPERIENCE:

GIS Coordinator, Town of Charlestown, June 2004 – Present. Charlestown Town Hall 4540 South County Trail Charlestown RI.

- Implementation of Geographic information Systems (GIS) within Town Hall
- Establishment of GIS access and usage throughout Town hall and Town practices
- Creation and maintenance of base maps and environmental data
- Management of all Town Department GIS needs
- Management of the capture two Orthographic flights for Charlestown (2006 and 2016) including bid creation, hiring as well as the QAQC through the projects
- Coordinated and supervised a successful maintenance dredging and beach nourishment project in Ninigret Pond, 2011-2012
- Successfully applied and receive funding from the Sandy Resiliency Fund to remove hazards from the Ninigret Breachway channel and mouth, 2013
- Instrumental in the writing (an author), acquisition, planning and implementation of the successful Department of Interior Rhode Island South Coast Habitat and Community Resiliency Project Grant of 3.25 million dollars, 2015-2017
- Instrumental in the writing (an author), acquisition, and planning of the successful NOAA Grant for Improving Coastal Habitat and Community Resiliency in Quonochontaug Pond Grant for 1.72 million dollars, 2017

GIS Manager, Town of Hopkinton, October 2002 - June 2004. Hopkinton Town Hall, One Town Hall Road, Hopkinton, RI.

- Implementation of Geographic information Systems (GIS) within Town hall
- Establishment of GIS access and usage throughout Town hall and Town practices
- Creation and maintenance of base maps and environmental data
- Management of all Town Departments GIS needs

Rhode Island Field Manager, microDATA GIS, Inc., November 2001 – 2002. 2843 South County Trail, East Greenwich, RI.

- Creation of a GIS database through field mapping and data collection for the Rhode Island Enhanced 911
- Liaison between local government, RI 911 and microDATA GIS headquarters located in Vermont
- Hiring, training and supervising Rhode Island GPS Field Technicians
- Speaker at professional conferences

GIS Specialist, Rhode Island Geologic Survey, May 2001 – November 2001. Project Manager: Dr. Jon C. Boothroyd, Dept. of Geosciences, University of Rhode Island, Kingston, RI.

- High resolution and regional Quaternary geology mapping at scales of 1:24,000 and 1:100,000
- Map development using MapInfo™, MapBasics™, ArcView™, ArcInfo™, and Spatial Analyst™
- Creation of metadata compliant with FGDC standards (Metadata Collection Tool™)

Research Assistant, U.S. Army Corps of Engineers, 1999 - 2001. Project Manager: Dr. Jon C. Boothroyd, Dept. of Geosciences, University of Rhode Island, Kingston, RI.

- Eelgrass (*Zostera marina*) habitat restoration project for Rhode Island coastal lagoons
- Incorporation of aerial photography into a GIS using MapInfo™
- Mapping the flood tidal delta growth of coastal lagoons using GIS applications

References available upon request

Coastal Geology Monitoring, University of Rhode Island, 1998 - 2000. Project Manager: Dr. Jon C. Boothroyd, Dept. of Geosciences, University of Rhode Island, Kingston, RI.

- Digitization of beach morphology from aerial photography for analysis of erosion and deposition
- Weekly surveying of Southern Rhode Island barriers and headlands
- Incorporation of high-resolution side-scan sonar imagery into a GIS (Autocad™ and MapInfo™)
- Sediment sampling through vibra-coring of southern Rhode Island coastal lagoons

Field Assistant, University of Rhode Island, Summer 1999 - 2000. Project Manager: Dr. Arthur J. Gold, Dept. of Natural Resource Sciences, University of Rhode Island, Kingston, RI.

- Delineation of wetlands in Rhode Island based on soil stratigraphy and flora
- Groundwater well installation and monitoring

Data Technician, Narrow River Preservation Association, January 1999 - June 1999. Project Manager: Ms. Melissa Hughes, Narrow River Preservation Association, Narragansett, RI.

- Organization of the Narrow River environmental database into an Excel™ format

Field Biologist, Cooperative Atlantic States Shark Pupping and Nursery Survey, Summers 1998 – 2001. Project Manager: Mr. Harold L. Pratt, NMFS Narragansett Lab, Narragansett, RI.

- Ongoing study of the Delaware Bay sandbar shark, *Carcharhinus plumbeus*
- Monthly longline and gillnet surveys, shark tagging, bycatch identification and acoustic telemetry

Master Instructor and Museum Coordinator, Marine Science Consortium, May 1995 - December 1996. Programs Manager: Ms. Leslie A. Leckvarcik, Marine Science Consortium, Wallops Island, VA.

- Development and teaching of Marine Biology, Geology, Wetland Ecology, and Oceanography courses
- Maintenance of aquaria and field equipment
- Speaker at public relations conferences and a guest speaker for many educational events
- Development of exhibits and solicitation of donations for the museum