

Spring 2007 Report II



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SAL Initiatives

- Help organize and host Northeast ArcInfo Users Group ([NEARC](#)) spring meeting attended by over 150 professionals from the Northeastern states.
- Continue working with [Admissions](#) office to explore geodemographic modeling processes to enhance recruitment.
- Initiate and help negotiate Smith College license to “Social Explorer” which provides easy access to demographic information about the United States using compelling graphics and animation. This is a college wide license available from any computer on campus (verify’s IP address) <http://www.socialexplorer.com/>
- Continue weekly walk-in GIS clinic for GIS and GPS support
- Finalize Map for Friends of Northampton Trails and Greenways <http://www.fntg.net/fntgmap2007-05.pdf>
- Build data infrastructure for “Order of Bloom” map on Smith Campus. This will become an interactive, near real-time map displaying sequence and location of bloom on campus.
- Develop interactive mapping application for “**a discussion of the variety of Buddhism in the Pioneer Valley**”

Other News of Interest

- GEO150 “Modeling Our World” final project posters will be on display in McConnell Foyer during senior week.

SAL Usage

Fall 2006

Class	Course Code	Students
Natural Disasters: Understanding and Coping	GEO105	~ 55
Plant Ecology	BIO356	3

Spring 2007

Class	Course Code	Students
Archeology	ARC211	~ 30
Introduction to GIS	GEO150	27
Island Biology	BIO356	19
Geomorphology	GEO252	21
Oceanography	GEO108	~ 20

Support

Individuals

Thesis / Special Studies

- Cassandra Finger (urban planning techniques and morphology in ancient Rome)

Doctoral

- **Jennifer Seavey**, UMASS; Biology *doctoral research

Jennifer is conducting a temporal and spatial scale analysis of environmental determinates of abundance and productivity in Piping Plover on Long Island, New York. The SAL is supporting Jennifer with GPS equipment and training, as well as base data collection and organization.

- **Megan O'Connor**, UMASS; Biology

Fish Ecology in Hudson River

Other Student / Class Projects Support

- Katie Dick (Geology, EVS300; erosion modeling)
- Hanh Chu (Anthropology; Baystate BMI study)
- JuneYeung (Engineering Design Clinic - *Restoration Design for the Weir Creek Salt Marsh*)
- Amhed Naija and team (Engineering, Irrigation project in Holyoke, MA)
- Alexandra Gorin and team (Windmill site modeling in Nicaragua)
- Catherin Masek (EVS300, GEO150 project)
- Isha Mahamud (malaria in Eastern Africa)
- GEO150 students (too many to count!)
- GEO252 students (too many to count!)

Faculty / Staff Support

- Tom Litwin
- John Burk
- Bob Burger
- Jamie Hubbard
- Nick Horton
- Greg White
- Lester Little
- Elizabeth Armstrong

General Support

- Poster printing
- System Administration
- Programming / Scripts
- Mapping/Cartography Projects
 - Land Conservation
 - Buddhism in the Valley

Ongoing Program Support and Development

Programmatic

- Web Page maintenance
- System Administration
- Valley GIS Meetings
- Five College GIS Meetings
- SAL Blog; Screen casts; podcasts

Student Assistants

- Hanh Chu
- Rachel Brown
- Cassandra Finger
- Moitri Ghosh

Software & Data

New software and data acquired and installed during the summer and fall includes:

- Update special collections data archive
(<http://www.science.smith.edu/sal/data.html#specialcollection>)
- Feature Analyst 4.1 (update license)
- Acquire all 2005 Massachusetts Color Orthophotography in GeoTiff format consisting of 4-band (RGBN), 8 bits, 0.5 meter pixel
- Acquire statewide Massachusetts impervious surface layer (resampled to 1 meter pixel)