Spring 2007 report

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SAL Initiatives

- Two proposals (expanding geospatial technology and strengthening spatial thinking) submitted to Smith strategic planning process. Both referred to the Provost.

- Organize and host Google Earth Summit workshop for Smith faculty and staff (October 12th, 2006)

- Develop and Organize first Five College GIS Day held at Amherst College (November 16th, 2006)

- Sponsoring Northeast ArcInfo Users Group (NEARC) spring meeting (April 27th, 2007)

- Working with Admissions office to explore geodemographic modeling processes to enhance recruitment.

- Broker and support arrangement between Smith student (Hanh Chu) and Baystate Medical Center to conduct a spatial analysis of BMI measurements and risk factors for obesity in Springfield, MA school district. Principal Investigator: James J. Burns MD, Chief Pediatrics, Baystate Children’s Hospital. Additional support from Baystate Health Geographics Program and Commerce High School.

- Organize and coach Smith student team in the Build Your Campus in 3D Competition sponsored by Google.

- Establish weekly walk-in GIS clinic for GIS and GPS support

- Establish Spatial Analysis Lab Blog


- Continued GPS and mapping support to the Botanical Garden plant and tree inventory mapping.

- CET grant award to purchase large format scanner
SAL Usage

Fall 2006

<table>
<thead>
<tr>
<th>Class</th>
<th>Course Code</th>
<th>Students</th>
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</thead>
<tbody>
<tr>
<td>Natural Disasters: Understanding and Coping</td>
<td>GEO105</td>
<td>~ 55</td>
</tr>
<tr>
<td>Plant Ecology</td>
<td>BIO356</td>
<td>3</td>
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Spring 2007

<table>
<thead>
<tr>
<th>Class</th>
<th>Course Code</th>
<th>Students</th>
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<tbody>
<tr>
<td>Archeology</td>
<td>ARC211</td>
<td>~ 30</td>
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<tr>
<td>Introduction to GIS</td>
<td>GEO150</td>
<td>27</td>
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<tr>
<td>Island Biology</td>
<td>BIO356</td>
<td>19</td>
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<td>Geomorphology</td>
<td>GEO252</td>
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<tr>
<td>Oceanography</td>
<td>GEO108</td>
<td>~ 20</td>
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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

• Ruth Indrick (Geology; sustainable development)
• Katie Dick (Geology, EVS300; erosion modeling)
• Hanh Chu (Anthropology; Baystate BMI study)
• June Yeung (Engineering Design Clinic - Restoration Design for the Weir Creek Salt Marsh)
• Amhed Naija (Engineering, Irrigation project in Holyoke, MA)
• GEO150 students (too many to count!)
• GEO252 students (too many to count!)

Faculty / Staff Support

• Tom Litwin
• John Burk
• Bob Burger
• Ann Zulwaki
• Steve Tilley
• Bob Merritt
• Paul Voss
• Tom Hartely
• Larry Meinert
• Al Curran
• Jamie Hubbard
• Eric Jensen
• Eric Brewer

General Support

• Poster printing
• System Administration
• Programming / Scripts
• Mapping/Cartography Projects
  o Land Conservation
  o Buddhism in the Valley
  o Massachusetts School Funding

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
- Bonnie Caldwell
- Moitri Ghosh

Equipment / Space

- Large Format Scanner installed and operating in Sandbox (Bass105)

Software & Data

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

- ArcGIS 9.2 (server and desktop)
- Erdas Imagine 9.1 (15 seat license)
- Feature Analyst 4.1
- ESRI Maps and Data 2006
- Vision 6 (screen sharing / collaboration software)

Presentations

- Invited speaker at the Northeast Regional Computing Program *Virtual Globes: GIS 2.0* conference (January 19th, 2007)

- Invited speaker at Smith College Technology Fair (November 15th, 2006)