DIGITAL ARCHIVE

OF

HUMAN-INDUCED LANDSCAPE CHANGE

WITH VERMONT K-16 STUDENTS

CHRISTINE MASSEY,
LAURA MALLARD, and
PAUL BIERMAN

Perkins Geology Museum—University of Vermont
Copper Mine, Ely, Vermont, 1896
HISTORIC Image

MAD RIVER, MORETOWN, VT. 14.
2000/2001
Vermont Towns
30% Town Coverage in Vermont

- 300 Students
- 12 Schools
- 70 of 230 Towns
- 12 of 14 Counties
- 270 Image Pairs Archived
Project Outline

- **Identify High Schools**
- Orientation at School
- Student Work
- Poster Presentations
- Teachers Evaluate
- Celebration at UVM 2001
2000/2001
Vermont Schools

- Technology Support
- Teacher Manual
- Student Manual
- School Visits

Schools

50 km
Project Outline

- Identify High Schools
- Orientation at School
- Student Work
- Poster Presentations
- Teachers Evaluate
- Celebration at UVM 2001
Technology Orientation
Project Outline

- Identify High Schools
- Orientation at School
- **Student Work**
- Poster Presentations
- Teachers Evaluate
- Celebration at UVM 2001
Gathering Data
Student Technology

- iMac Computer
- Scanner
- Color Printer
- Digital Camera
- GPS
Summer Work

• UVM Undergraduate
• High School Student
• Scanned UVM Library’s Special Collection
  (stereoviews, postcards, photographs, etc.)
• Re-photographed Sites
Reoccupying a Site
Identify High Schools
Orientation at School
Student Work
**Poster Presentations**
Teachers Evaluate
Celebration at UVM 2001
Project Outline

- Identify High Schools
- Orientation at School
- Student Work
- Poster Presentations
- Teachers Evaluate
- Celebration at UVM 2001
<table>
<thead>
<tr>
<th>ESSAY (std. 1.8)*</th>
<th>Points possible</th>
<th>Points earned</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Old and recent photographs with dates (std. 1.8)</td>
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<tr>
<td>Locations(town/county) for old and recent photographs</td>
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<tr>
<td>History of location (agricultural, human settlement) (std. 1.18, 1.19, 6.6)</td>
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<td>Human impact on location (std. 6.1)</td>
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<td>Landscape analysis (std. 7.15, 4.5)</td>
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<td>plants</td>
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<td>landforms</td>
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<td>Grammar/spelling (std. 1.8)</td>
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<td>Source of photographs and information</td>
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| POSTER (std. 5.15, 2.13, 1.2) | | | |
| Pictures showing landscape (std. 1.2) | | | |
| Essay included (the same as above) (std. 1.8) | | | |
| Neat presentation | | | |
| Title/Your name/Your school | | | |
| Oral presentation of poster (std. 1.5, 1.9) | | | |

| COMPUTER FILES (std. 7.17, 2.13, 1.2) | | | |
| Pictures | | | |
| old | | | |
| recent | | | |
| Essay (std. 1.8) | | | |
| Photo data log complete (std. 1.2) | | | |

| TOTAL | | | |
| GRADE | | | |

* see table of relevant standards for descriptions.
Project Outline

• Identify High Schools
• Orientation at School
• Student Work
• Poster Presentations
• Teachers Evaluate
• Celebration at UVM 2001
Closing Ceremony

• June 2001
• 300 Students and Parents
• Keynote Speaker
• Poster Presentations
• Natural Science Workshops
• UVM Sponsored with Dinner
DIGITAL ARCHIVE WEBSITE:
http://geology.uvm.edu/landscape

Funding: NSF Grant EAR-9907724 / The Univ. of Vermont

1927 Flood, Proctor, Vermont
VISIT OUR COMPUTER DISPLAY WITH MORE DETAILS!

WEDNESDAY AFTERNOON POSTER SESSION

WITH

LAURA MALLARD

LANDSCAPE CHANGE OUTREACH COORDINATOR
VISIT OUR
WEDNESDAY AFTERNOON
POSTER SESSION
FOR MORE DETAILS!

WITH
LAURA MALLARD
LANDSCAPE CHANGE
OUTREACH COORDINATOR