Objective – develop lecture, homework, or lab activities and projects that incorporate museum specimens and/or specimen data into undergraduate courses.



Module Development

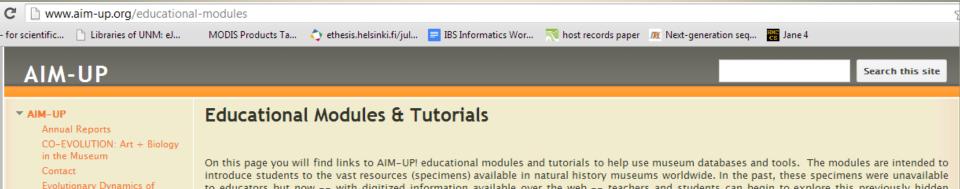
Modules have been developed in AIM-UP! seminars and as directed studies.

Fall 2010 – Integrative Inventories Spring 2012 – CO-EVOLUTION: Art + Biology in the Museum Spring 2013 – Evolutionary Dynamics of Genomes Spring 2014- Climate Change & Museums



- Identify audience
- Key concepts
- Skills
- Evaluation

Available for download on the website.



to educators but now -- with digitized information available over the web -- teachers and students can begin to explore this previously hidden library of biodiversity.

Target audiences and IT needs

AIM-UP! modules have been developed for college-level courses, but may be appropriate for advanced high school courses. These modules require accessing an online museum database, including specimen images and distribution maps.

Instructions for using the modules

Each module includes step-by-step instructions for completing an activity. Clicking on a link for a module will take you to a new page that has more information about the module as well specific instructions for implementing the module and suggested background reading.

We encourage you to use the modules in your classroom. In return, we ask that you provide us with feedback to help us improve these lessons. After completing a module, please return the associated electronic feedback from (email to: aim-up@aim-up.org). Your feedback is essential to the success of the AIM-UP! network.

AIM-UP! Educational Modules

Coal Balls

Island Biogeography

Museum & Education Events Resources Databases Educational Resources

Stomatal Density & Climate

- National Initiatives
- On-line Tools

Genomes

Meetings

Tutorials

Participants

Coal Balls GIS and Bats

Alaska

Change

Educational Modules &

Island Biogeography

Integrative Inventories

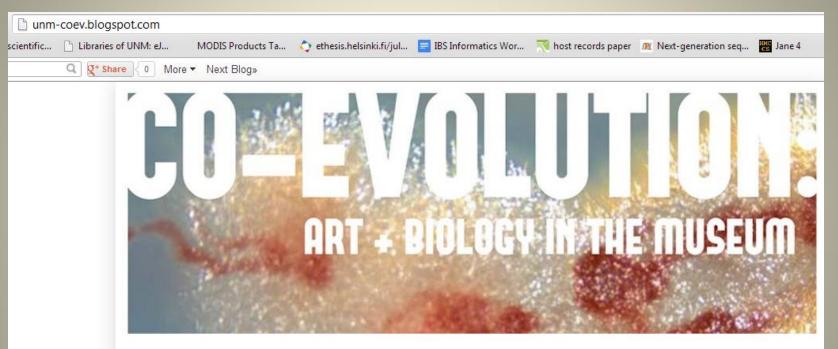
Museums & Museum Networks

Plant Range and Distribution in

Presentations & Publications

AIM-UP! Blog

Dispersion Modules are on the CO-EVOLUTION website



UNM Biology 402/502 // UNM Art Studio 389/429/529 // UHON 402 Joseph Cook // Szu-Han Ho

Space for posting thoughts, ideas, references, resources, and works. The theme of our seminar and workshop series is "Morphology and Geographic Variation." With the natural history collection as our starting point, we'll hear from scientists, artists, designers, programmers, musicians, and more on place-based study. Part of AIM-UP, an NSF Research Coordination Network.

TUESDAY, MAY 15, 2012

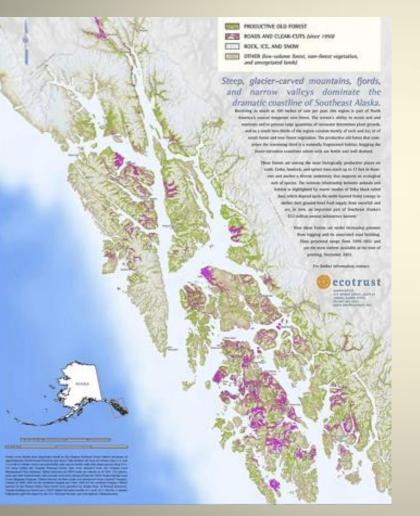
Sketches from Wkshp #3: Morphology and Evolution with Brian Conley



2012 VISITING ARTISTS

Cataloguing Wonder: Brandon Ballengée workshop_FEB 24-25, 2012 public lecture_Friday, FEB 24 5pm UNM Science Math Learning Center (SMLC) rm 102

Educational Modules Island Biogeography: Species Richness Across a Northern Archipelago



Key Concepts and Skills: Evolution & Ecology

- Body size on islands
- Competitive exclusion/release
- Isolation and Divergence
- Island biogeography

Conservation biology Scientific process & hypothesis testing Statistical methods Management & analyses of largescale databases

www.aim-up.org

Collections-based Projects

Fall 2012 UNM Mammalogy class

- open ended assignment
- use museum data to address a question about mammals
- write a paper and do a presentation

Feedback

- students did not like the open-ended nature in the beginning
- in the end most students liked the project and were proud of their product.

Future

Implementation

- Need instructors to use and evaluate current modules
- Input on design from professors currently teaching

More modules

- targeted module development
- modules that stand alone or used in a series
- Broaden the scope---new concepts, skills

