

The Anchor



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Eighth Annual GIS Day Conference is a Success

On Wednesday, November 1st, the New Hampshire Space Grant Consortium and Complex Systems Research Center hosted their eighth annual GIS Day Conference and College Fair at the Institute for the Study of Earth Oceans and Space in Morse Hall. GIS Day takes place during National Geography Awareness Week and allows Geo-Spatial Science Professionals to reach out and educate people of all ages about the important contributions that Geo-Spatial Science related technologies make in all of our lives. **Briana Sullivan, Kurt Schwehr, Stephen Schaeffer and Roland Arsenault** were on hand to showcase various demonstrations on how data from mapping can be displayed, explored, studied and used. NOAA's **John Kelley** and **Jason Greenlaw** were there to demonstrate the new NowCoast website, a web mapping portal to real-time coastal observations and NOAA forecasts. In a letter to Larry Mayer, Conference Coordinator, Michael Routhier acknowledged CCOM/JHC's contribution in making the day so successful:

“On behalf of EOS, myself, this year’s conference staff, and all of our attendees I would like to express our greatest thanks to you and all of your staff for your collaboration and participation in this year’s GIS Day. All of your staff showed such excitement and professionalism on GIS Day and throughout the planning process that it was really quite a pleasure working with all of you. The generosity of your time, data, products and expertise is greatly appreciated. During this year’s events all of the CCOM/JHC displays awed our professional guests and inspired our visiting high school students. Your sonar data and products were wonderful and truly the cornerstone of this year’s main cartographic collection. As a matter of fact, many participants attending this year’s events stated to me that they thought that this year’s collection



Briana Sullivan demonstrates GEOZui4D features used for whale tracking

was the best that we have ever displayed. Also, the addition of your ocean observation buoys added a grand scale to the events like we have never seen before. CCOM’s Digital and hands-on displays were also a definite crowd favorite and the centerpiece of this year’s GIS Day “Digital Ocean Mapping Theater”. I’m certain that your collaboration has helped to provide a



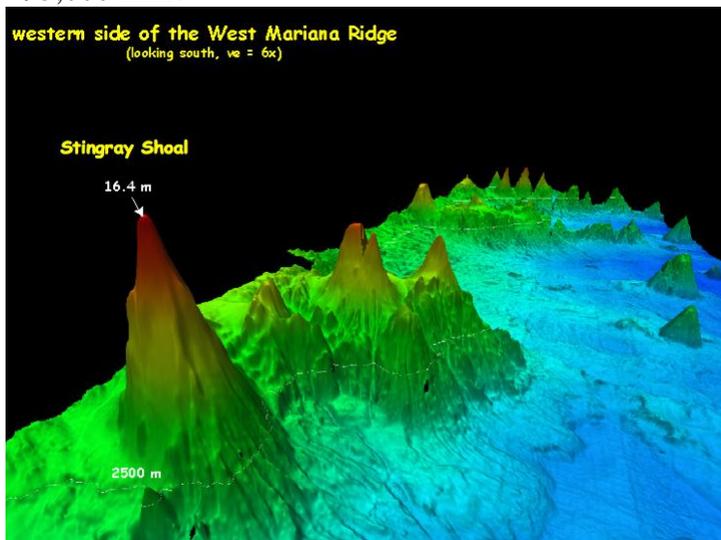
Jason Greenlaw demonstrates the new NowCoast website

lasting experience that has built continued interest in research, career and educational opportunities within the Ocean Sciences and Geo-Spatial Sciences here at the university and beyond. All of us here on the GIS Day staff very much appreciated your help.”

Jim Gardner maps the Parece Vela Basin

From October 12th through November 12th, Jim Gardner was on the USNS Bowditch, a 330 foot US Naval Oceanographic Office hydrographic ship, to map the Parece Vela Basin of the eastern Philippine Sea for US Law of the Sea concerns. He and his NAVO colleagues mapped the 2500-m isobath in its entirety and the entire

area from the summit of the West Mariana Ridge to the middle of the eastern Parece Vela Basin, an area of ~93,000 km².

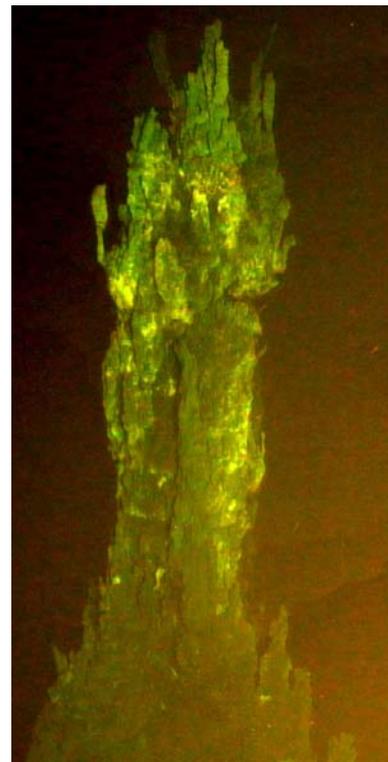


Oblique view (ve=6x, looking S) showing the extinct volcanoes of the West Mariana Ridge. The ridge volcanoes are thought to have become dormant about 17 million years ago, in the early Miocene period. How can a volcanic peak survive at 16.4 m water depth for 17 million years without being eroded down to wave base?

Yuri Rzhanov participates in East Pacific Rise Research Cruise

From October 24th through November 18th, **Yuri Rzhanov** participated in a research cruise in the areas around hydrothermal vents in the East Pacific Rise. The cruise, aboard the R/V Atlantis, operated by WHOI (Woods Hole Oceanographic Institute) was, in part, to allow for the study of larvae dispersal. Out of the 11 Alvin (the US Navy-owned Deep Submergence Vehicle) dives, approximately nine had exploratory parts, during which several new vents were discovered, including a spectacular 14 meter high black smoker. For Yuri and Dr. Stacey Beaulieu from WHOI, the cruise was a first field test for ALVIMOS (Alvin Video Mosaicing Suite), their video mosaicing software suite, developed within an NSF-funded project. The video collected during all dives has been processed to produce hundreds of geo-referenced TIFF images, each representing an approximate 15 meter segment. These images were included in ArcGIS. While processing the video, Yuri and Dr. Beaulieu wrote the user manual for ALVIMOS. They got a lesson about different learning styles when they asked two untrained individuals to test it out. The first subject was able to quickly produce a mosaic, but the second subject stormed out of the lab in the middle of the introduction,

saying something about the whole thing being more involved than he expected. The excitement didn't end there....as the Atlantis was heading back to port, the ship had to detour around Hurricane Sergio and, as a result, the entire party missed their flights home and had to stay in Mexico, where an extremely loud Revolution Day celebration (not to mention a small earthquake) prevented anyone from getting any rest.



14 meter black smoker vent in the East Pacific Rise

CCOM says goodbye to three graduate students

In December **Chuck Carline**, **Beccie Conrad** and **Gretchen Imahori** all finished their Master's Programs. Chuck will be working as an Applications Engineer for Eagle Test Systems, a manufacturer of semiconductor test equipment, in Bedford, NH. Beccie will be working at DEKA Research in Manchester, NH as a Controls Engineer, working on the IBOT Mobility System (a wheelchair that can navigate up stairs). Gretchen will be back at NOAA, working for the Data Acquisition and Control Branch. We wish them all the best in their future endeavors!

Spotlight on.....Nguyen Thanh

Since 2000, GEBCO student **Nguyen Thanh** has worked for the Vietnam Research Institute for Marine Fisheries (RIMF) applying GIS technology for fisheries management and fish forecasting. His department's goal is to establish a GIS database for RIMF as well as for the Ministry of Fisheries. Growing up in a small village in Vietnam, about 20 km from Haiphong City, Thanh never expected to one day be going to school in the United States. His mother is a farmer and worked long days to earn money so that Thanh and his younger brother and sisters could go to school. His father was

disabled in the Vietnam war and died in 1997. In 1999 Thanh graduated from Hanoi University of Mining and Geology with a degree in Geodetic Engineering and after working for five years at RIMF, he was ready to expand his knowledge of Geodetic Engineering. For up to an hour each day, he searched on the internet for scholarship opportunities and finally found information about the GEBCO program.



When asked what Americans would find most surprising about Vietnam, Thanh mentioned the stable political climate, growing economic development and beautiful vacation destinations like Halong Bay and the city of Hue.



Thanh's wife and daughter

Thanh and his wife Nguyen Thanh Sam have a beautiful three year old daughter.

CCOM Holiday Party held at Redhook Brewery

The CCOM Holiday party was held on Friday, December 15th at the Redhook Ale Brewery with over 100 guests in attendance.



Vasu, Leonardo, Nick, Pepe and Yasu at the Redhook Ale Brewery

CCOM Chef Wins Future Chefs Winter Festival Competition at Bretton Woods Resort

On Saturday, January 6th, Nathan Paquin took part in the Future Chefs Winter Festival at the Bretton Woods Resort. The annual event brings together junior culinary teams from around the state to compete to determine which team will represent the state at the American Culinary Federation's regional conference. Nathan and his fellow classmates from the Atlantic Culinary Academy won the event, with their Brandy Black Pepper Crusted Roast Beef Tenderloin, Pan-seared Deep Diver Scallops, Black Truffle Duchess Potatoes, and Duo of Sauce Perigordine and Sauce Bearnaise.....mmmmm! Congratulations Nathan!

Administrative Notes

Abby Pagan-Allis will now be handling all CCOM travel-related needs, including those related to travel pre-approval, making hotel and airfare reservations, and handling travel reimbursement forms.

Linda Prescott will be handling all purchasing with the exception of purchasing for the Electronics Lab, which is handled by **Maureen Claussen**.

Effective January 1s, 2007, the UNH mileage reimbursement rate has increased to **\$0.485** per mile.

For those of you who have a UNH Purchasing Card, please keep in mind that the following purchases are *not allowable* when using your p-card:

- Advertising**
- Alcoholic Beverages**
- Automotive Repairs**
- Cash Advances**
- Consulting Services**
- Donations**
- Equipment (Greater than \$5,000)**
- Flowers**
- Lease or rentals**
- Services**

Reminder: Monday, January 15th is a UNH Holiday, in observance of Martin Luther King's Birthday.