

REU Pubs, Presentations, etc. as of Aug 2008

Reports and publications

- McNulty, C., D. Barry, R. Bowe chop, J. Charles, M. Laungayan, R. Laungayan. in preparation. Using an assessment of 5 year growth patterns in a neotropical primary rainforest as part of a Tropical Ecology course. Education Series Report 08-0x. Center of Excellence, Peninsula College.
- McNulty, C., D. Barry, R. Bowe chop, J. Charles, M. Laungayan, R. Laungayan. in preparation. An assessment of 5 year growth patterns in a neotropical primary rainforest. To be submitted to *Mesoamericana*, October, 2008.
- Campbell, B., Epler, E, Mangiamelli, S., Wilmot, B., Charles, D., Knapp, R., Hauge, J.B., Eaton, W.D. in reievw. Characterization of multiple trophic levels in primary and secondary growth rainforest habitats within the Maquenque National Wildlife Refuge region of Northern Costa Rica. Submitted to *Mesoamericana*, August, 2008.
- Campbell, B, Russell, A., Eaton, W.D. in preparation. Effects of tree species on carbon and nitrogen cycle parameters and microbial diversity in planted and managed parcels in the lowland tropical forests of La Selva. In preparation for submission to *Mesoamericana* in August, 2008.
- Catuzo, H., D. Denson, C. DeSisto, E. Drake, K. Jones, M. Licari, T. Nabors, B. Warren, and D. Barry. 2008. Wildfire on the Peninsula: An Assessment of Hazard, Risk, and Mitigation Opportunities in Eastern Clallam County. Education Series Report 08-01. Center of Excellence, Peninsula College.
- Doherty, M., J. Ward, D. Barry, M. Wigmosta, S. McDonald, C. DeSisto, J. Sehlke, and C. Rome. 2008. The North Olympic Peninsula Solutions Network: Extending NASA tools beyond the research community to resource management user groups. Proceedings of the 76th Annual Western Snow Conference.
- Drake, E., C. DeSisto, S. McDonald, S. Evans, D. Barry, and B. Baccus. 2008. Untangling climate and wildfire influences from snow water equivalent measurements on the Deer Park, WA, snow course. Proceedings of the 76th Annual Western Snow Conference.
- Eaton, W.D., Barry, D., Wilmot, B, Epler, E., Mangiamelli, S. in reievw. Preliminary Evidence For The Potential to Use the Elwha River Periphyton Microbial Community Structure as an Indicator of Habitat Change Following River Restoration. Submitted to *Ecological Restoration*, August, 2008.
- Eaton, W.D., MacDonald, S., Roed, M., Clark, D. in preparation. Variations in the microbial diversity and community structure across a phosphorous gradient in old growth lowland forests of La Selva. In preparation for submission to *Biotropica*, September, 2008.
- Eaton, W.D., Roed, M., Campbell, B., Giles, E., Chassot, O. in preparation. Preliminary analysis of the microbial diversity, abundance and activity within forest soils from 6 different life zones in the Monteverde area of Costa Rica). In preparation for submission to *Biotropica*, September, 2008.
- Eaton, W.D., Hennen, J., J. Lee. In preparation. Variations in the microbial diversity, community structure, and carbon cycle parameters within two different floodplains and between two forest habitat types within the Elwha River ecosystem. In preparation for submission to *Applied Soil Ecology*, September, 2008.

- Giles, E., Eaton, W.D. in preparation. The microbial diversity, abundance and activity and carbon and nitrogen cycle parameters across a chronological gradient of managed forest lands in Costa Rica. In preparation for submission to *Mesoamericana* in August, 2008.
- Minion, J., D. Barry, L. Urbanec, A. Gray, and J. Duda. 2007. Salmon, forests, and pre-restoration assessment using stable isotope analysis on riparian vegetation (Washington). *Ecological Restoration* 25(3): 220-221.
- Reavey, K., and A. Derry, eds. 2007. *Landscapes of Home: A Natural History of the Elwha Watershed*. Port Angeles, WA: Peninsula College.
- Bowechop, R., R. Flores, D. Lauderback, J. Reems, D. Romero, F. Sam, S. Valadez, M. Wheeler, A. Williams, J. B. Hauge, and E. Epler. 2006. Amphibian Research in the Elwha River Basin. Education Series Report 06-03. Center of Excellence, Peninsula College.
- Bowechop, R., R. Flores, D. Lauderback, J. Reems, D. Romero, F. Sam, S. Valadez, M. Wheeler, A. Williams, D. Barry, and E. Epler. 2006. New Database Occurrence Record for Herb Robert (*Geranium robertianum*). Education Series Report 06-01. Center of Excellence, Peninsula College.
- R. Bowechop, R. Flores, D. Lauderback, J. Reems, D. Romero, F. Sam, S. Valadez, M. Wheeler, and A. Williams, W. Eaton, J. Harbord, and S. Varma-Arora. 2006. Microbial Ecology Research in the Elwha River Basin. Education Series Report 06-04. Center of Excellence, Peninsula College.
- Gray, A. 2007. The strength of salmon. Pp. 50-55 in Reavey et al. (eds), *Landscapes of Home: A Natural History of the Elwha Watershed*. Port Angeles, WA: Peninsula College Books.
- Minion, J., and D. Barry, eds. 2006. 2005-2006 Annual Report and Third Annual Research Meeting Summary. Elwha Research Consortium Report 06-01. Port Angeles, WA: Peninsula College.

REU Student Presentations (Oral, Poster, Multimedia, etc.)

- Barry, D., and S. McDonald. 2008. Rainforests, Avalanche Avoidance, and Preventing Another "Great Forks Fire of 1951." Oral presentation, Peninsula College Studium Generale Lecture Series, Forks, WA, June 12, 2008.
- Barry, D., and 2007-2008 REU Students. 2008. Smelly Fish Carcasses, Avalanche Avoidance, and Why Counting Elk Poop Is an Essential Job Skill for Science Majors. Oral presentation, Peninsula College Studium Generale Lecture Series, Port Angeles, WA, June 5, 2008.
- Barry, D., and 2007-2008 REU Students. 2008. Peninsula and Huxley Colleges Present: Elwha Field Research Reports. Oral presentation, Olympic National Park Perspectives Lecture Series, Port Angeles, WA, May 13, 2008.
- Barry, D., M. Boster, and C. DeSisto. 2008. iGIS Mashups in Higher Education: Getting Ahead of the Curve in Teaching and Job Skills Training. Poster presentation, 2008 Washington GIS Conference, Seattle, WA, May 5-7, 2008.
- DeSisto, C. 2008. Preventing an Accident Waiting to Happen: GIS Wildfire Hazard Assessment of Eastern Clallam County for Preventative Planning. Oral presentation, 2008 Washington GIS Conference, Seattle, WA, May 5-7, 2008.
- DeSisto, C. 2008. Topography, Snow, and the Deer Park Fire. Map presentation, 2008 Washington GIS Conference, Seattle, WA, May 5-7, 2008.

- Doherty, M., J. Ward, D. Barry, M. Wigmosta, S. McDonald, C. DeSisto, J. Sehlke, and C. Rome. 2008. The North Olympic Peninsula Solutions Network: Extending NASA tools beyond the research community to resource management user groups. Poster presentation, 2008 Western Snow Conference, Hood River, OR, April 15-17, 2008.
- Drake, E., C. DeSisto, S. McDonald, S. Evans, D. Barry, and B. Baccus. 2008. Untangling climate and wildfire influences from snow water equivalent measurements on the Deer Park, WA, snow course. Poster presentation, 2008 Western Snow Conference, Hood River, OR, April 15-17, 2008.
- Warren, B. 2008. REU: No matter what it takes... wmv file, available at <http://pc.ctc.edu/coe/education.htm>
- Warren, B. 2008. REU: Unravel the mysteries... wmv file, available at <http://pc.ctc.edu/coe/education.htm>
- Warren, B. 2008. Sometimes it's sink and swim. mp3 file, available at <http://pc.ctc.edu/coe/education.htm>
- Nabors, T. 2008. Why are those great big boulders on the beach? mp3 file, available at <http://pc.ctc.edu/coe/education.htm>
- Drake, E. 2008. Why looking for otter poop is not a bad day at the office! mp3 file, available at <http://pc.ctc.edu/coe/education.htm>
- Drake, E., J. Lee, and A. Johnson. 2008. Search for the Elwha's otters. mov file, available at <http://pc.ctc.edu/coe/education.htm>
- Evans, S. 2008. Restoring sustainable forests of the Pacific Northwest. mov file, available at <http://pc.ctc.edu/coe/education.htm>
- DeSisto, C., and S. McDonald. 2008. The future of water. wmv file, available at <http://pc.ctc.edu/coe/education.htm>
- McDonald, S. 2008. The Elwha: Removal, Restoration, & Research. Presentation to the Clallam County Worker's Retraining Advisory Committee, March 12, 2008.
- Warren, B. 2008. Geomorphic Habitat Type and Forage Fish Presence Within the Elwha Nearshore in the Central Strait of Juan de Fuca. Oral Presentation, 2008 Annual General Meeting, North Pacific International Chapter of the American Fisheries Society, Bellingham, WA March 4-6, 2008.
- Roed, M. 2008. Forage Fish Spawning in Elwha Nearshore: Now and in the Future. Oral Presentation, 2008 Annual General Meeting, North Pacific International Chapter of the American Fisheries Society, Bellingham, WA March 4-6, 2008.
- Nabors, T. 2008. Beyond Dam Removal: Additional Restoration Needs of the Elwha Nearshore. Oral Presentation, 2008 Annual General Meeting, North Pacific International Chapter of the American Fisheries Society, Bellingham, WA March 4-6, 2008.
- Shaffer, A., J. Schilke, M. Roed, D. Penttila, P. Crain, and L. Ward, 2008. Forage Fish Spawning in Elwha Nearshore: Now and in the Future. Oral presentation, Pacific Estuarine Research Society, 31st Annual Meeting, Newport, OR, February 28 - March 1, 2008.
- Shaffer, A., J. Schilke, T. Nabors, P. Crain, C. Lear, M. McHenry. 2008. Beyond Dam Removal: Additional Restoration Needs of the Elwa Nearshore. Oral presentation, Pacific Estuarine Research Society, 31st Annual Meeting, Newport, OR, February 28 - March 1, 2008.

- Shaffer, A., J. Schilke, T. Nabors, P. Crain, M. Beirne, M. McHenry, T. Kassler, and R Paradis. 2008. Salmonid Use of the Elwha Nearshore. Oral presentation, Pacific Estuarine Research Society, 31st Annual Meeting, Newport, OR, February 28 - March 1, 2008.
- Shaffer, A., J. Schilke, B. Warren, D. Penttila, and P. Crain, 2008. Geomorphic Habitat Type and Forage Fish Presence within the Elwha Nearshore in the Central Strait of Juan de Fuca. Oral presentation, Pacific Estuarine Research Society, 31st Annual Meeting, Newport, OR, February 28 - March 1, 2008.
- McDonald, S., and A. Soule. 2007. Dungeness Aquifer Recharge Project Pilot Study. Poster for Clallam County Environmental Health Dept.
- Paradis, R., and B. Hara. 2007. Comprehensive Assessment of the Elwha River Estuary and Nearshore Interface. Oral presentation, Fourth Annual Elwha Research Consortium Meeting, Port Angeles, WA, May 4-5, 2007.
- Wilmot, B., S. Mangiameli, and E. Epler. 2007. Analysis of Pre-dam Removal Microbial Diversity. Oral presentation, Fourth Annual Elwha Research Consortium Meeting, Port Angeles, WA, May 4-5, 2007.
- McDonald, S., and L. Urbanec. 2007. Pre-restoration assessment of marine-derived nutrients in riparian vegetation. Oral presentation, Fourth Annual Elwha Research Consortium Meeting, Port Angeles, WA, May 4-5, 2007.
- Lee, J., and D. Charles. 2007. REU Wildlife Research Efforts. Oral presentation, Fourth Annual Elwha Research Consortium Meeting, Port Angeles, WA, May 4-5, 2007.
- Paradis, R., M. Beirne, L. Ward, and M. McHenry. 2007. Comprehensive Assessment of the Elwha River Estuary and Nearshore Interface. Oral presentation, Pacific Estuarine Research Society, 30th Annual Meeting, Victoria, BC, Canada, February 22-24, 2007.
- Charles, D. 2007. Dashing through the forest...why I like science. mp3 file, available at <http://pc.ctc.edu/coe/education.htm>
- Barry, D., and 2006-2007 REU Students. 2007. Student research on the Elwha Ecosystem Restoration Project. Oral presentation, Peninsula College Studium Generale Lecture Series, Port Angeles, WA, May 5, 2007.
- Barry, D., and 2006-2007 REU Students. 2007. Elwha Field Research Reports. Oral presentation, Olympic National Park Perspectives Lecture Series, Port Angeles, WA, May 8, 2007.
- Barry, D., and 2005-2006 REU Students. 2006. Student research on the Elwha Ecosystem Restoration Project. Oral presentation, Peninsula College Studium Generale Lecture Series, Port Angeles, WA, May 11, 2006.
- Barry, D., and 2005-2006 REU Students. 2006. Elwha Field Research Reports. Oral presentation, Olympic National Park Perspectives Lecture Series, Port Angeles, WA, May 9, 2006.
- Harbord, J., R. Young, B. Eaton, and J. Duda. 2006. Analysis of the microbial diversity within the Elwha River Watershed. Oral Presentation, 31st Annual West Coast Biological Sciences Undergraduate Research Conference. April 29th, Pt. Loma University, CA.
- Varma-Arora, S., A. Cox, B. Eaton, H. Coe, S. Morley, and J. Duda. 2006. Ecological effects of the Elwha dam deconstruction on microbial structure and function. Oral Presentation, 31st Annual West Coast Biological Sciences Undergraduate Research Conference. April 29th, Pt. Loma University, CA.

Student work that was presented by agency or faculty partners at a conference

- Riparian Vegetation Research along the Elwha River. Presented by: Pat Shafroth, US Geological Survey; pg 20. 2005-2006 Annual Elwha Research Meeting
- Elwha River Wildlife Research. Presented by: Kurt Jenkins, US Geological Survey; pg 21. 2005-2006 Annual Elwha Research Meeting
- Aquatic Production: Baseline Conditions for Primary and Secondary Producers in the Elwha River. Presented by: Sarah Morley, National Oceanic and Atmospheric Administration. Pg 25. 2005-2006 Annual Elwha Research Meeting
- Nearshore, Water, and Sediment. Presented by: Jonathan Warrick, US Geological Survey. Pg 26-27. 2005-2006 Annual Elwha Research Meeting
- Duda, J.J. 2006. The USGS Elwha River Research Program. Briefing for Secretary of Interior Dirk Kempthorne, July 13th, 2006, Western Fisheries Research Center, Seattle, WA.
- Duda, J.J., S. Morley, H. Coe, M. McHenry, G. Pess, B. Eaton, P. Connolly, S. Brenkman, P. Crain, J. Freilich, and B. Winter. 2006. Ecological investigations of the Elwha River: setting the stage for long-term monitoring of fisheries and ecosystem recovery. Invited Oral Presentation, North Cascades Science Days Symposium, June 23-24, 2006. Padilla Bay National Estuarine Research Preserve, WA.
- Morley, S.A., J.J. Duda, M. McHenry, G. Pess, H. Coe, T. Beechie, W. Eaton, and M. Liermann. 2007. Elwha river dam removal: an update on collaborative monitoring. Oral Presentation, 2007 Puget Sound Georgia Basin Research Conference, March 26-29, 2007, Vancouver, British Columbia.
- Duda, J.J. 2007. Biological responses to the removal of the Elwha River dams: predictions and uncertainties. Invited presentation, US Fish and Wildlife Service Spotlight on Science Series. February 1st, 2007, Portland, OR. Annual Report: 0452328
- Bach, A., D. Barry, J. Minion, B. Smith, J. Freilich, B. Eaton, and J. A. Shaffer. 2006. Large Dam Removal and Ecosystem Restoration: The Elwha River. Poster presentation, Association of American Geographers Annual Meeting, April 2007.

REU students as field workers in other peer-reviewed research/publications

- Brenkman, S. J., G. R. Pess, C. E. Torgersen, K. K. Kloehn, J. J. Duda, and S. C. Corbett. 2008. Predicting recolonization patterns and interactions between potamodromous and anadromous salmonids in response to dam removal in the Elwha River, Washington State, USA. *Northwest Science* 82 (Special Issue):91-106.
- Morley, S.A., J. J. Duda, H. J. Coe, K. K. Kloehn, and M. L. McHenry. 2008. Benthic Invertebrates and Periphyton in the Elwha River Basin: Current Conditions and Predicted Response to Dam Removal. *Northwest Science* 82 (Special Issue):179-196.
- Brown, R. L., and J. Chenoweth. 2008. The Effect of Glines Canyon Dam on Hydrochorous Seed Dispersal in the Elwha River. *Northwest Science* 82 (Special Issue):197-209.
- Shaffer, J. A., D. Penttila, M. McHenry, and D. Vilella. 2007. Observations of Eulachon, *Thaleichthys pacificus*, in the Elwha River, Olympic Peninsula, Washington. *Northwest Science* 81(1): 76-81.