

Publications from LLO Faculty and Staff
University of Minnesota Duluth
2009

Abdulla, H.A.N., R.F. Dias, and E.C. Minor, 2009. Understanding the enhanced aqueous solubility of styrene by terrestrial dissolved organic matter using stable isotope mass balance and FTIR. *Organic Geochemistry*, 40(5), 547-552.

<http://dx.doi.org/10.1016/j.orggeochem.2009.02.011> or
<http://www.sciencedirect.com/science/article/pii/S0146638009000527>

Breckenridge, A. and Johnson, T. C., 2009. Paleohydrology of the upper Laurentian Great Lakes from the late glacial to early Holocene. *Quaternary Research*, 71(3), p. 397-408.

<http://dx.doi.org/10.1016/j.yqres.2009.01.003> or
<http://www.sciencedirect.com/science/article/pii/S0033589409000076>

Campbell, L.M., R. Thacker, D. Barton, D.C.G. Muir, D. Greenwood, and R. E. Hecky. 2009. Re-engineering the eastern Lake Erie littoral food web: The trophic function of non-indigenous Ponto-Caspian species. *Journal of Great Lakes Research*, 35(2), 224-231.

<http://dx.doi.org/10.1016/j.jglr.2009.02.002> or
<http://www.sciencedirect.com/science/article/pii/S0380133009000690>

Castañeda*, I., Werne, J.P., Johnson, T.C., (2009). Influence of climate change on algal community structure and primary productivity of Lake Malawi (East Africa) from the Last Glacial Maximum to present. *Limnology & Oceanography*, v. 54, no. 6/2, pp. 2431-2447.

http://dx.doi.org/10.4319/lo.2009.54.6_part_2.2431 or
http://onlinelibrary.wiley.com/doi/10.4319/lo.2009.54.6_part_2.2431/abstract

Castañeda*, I., Werne, J.P., Johnson, T.C. and Filley, T. (2009) Late Quaternary vegetation history of southeast Africa: the molecular isotopic record from Lake Malawi. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 275(1-4), pp. 100-112.

<http://dx.doi.org/10.1016/j.palaeo.2009.02.008> or
<http://www.sciencedirect.com/science/article/pii/S0031018209000662>

Chavula, G., Brezonik, P., Thenkabail, P., Johnson, T. C. and Bauer, M., 2009. Estimating chlorophyll concentration in Lake Malawi using MODIS imagery. *Physics and Chemistry of the Earth*, 34(13-16), p. 755-760. <http://dx.doi.org/10.1016/j.pce.2009.07.015> or

<http://www.sciencedirect.com/science/article/pii/S1474706509000771>

Chavula, G., Brezonik, P., Thenkabail, P., Johnson, T. C., and Bauer, M., 2009. Estimating the surface temperature of Lake Malawi using AVHRR and MODIS satellite imagery. *Physics and Chemistry of the Earth*, 34(13-16), p. 749-754. <http://dx.doi.org/10.1016/j.pce.2009.08.001> or

<http://www.sciencedirect.com/science/article/pii/S1474706509000850>

Colman SM, Rosenbaum JG, Kaufman DS, et al. (2009) Radiocarbon ages and age models for the last 30,000 years in Bear Lake, Utah-Idaho. In: Rosenbaum JG and Kaufman DS (eds) *Paleoenvironments of Bear Lake, Utah and Idaho, and Its Catchment*. Geological Society of America, Special Paper 450, 133-144. [http://dx.doi.org/10.1130/2009.2450\(05\)](http://dx.doi.org/10.1130/2009.2450(05)) or <http://specialpapers.gsapubs.org/content/450/133.abstract>

Dalzell, B.J., E.C. Minor, and K.M. Mopper, 2009. Photodegradation of estuarine dissolved organic matter: A multi-method assessment of DOM transformation. *Organic Geochemistry*, 40(2), 243-257. <http://dx.doi.org/10.1016/j.orggeochem.2008.10.003> or <http://www.sciencedirect.com/science/article/pii/S0146638008003112>

Depew, D.C., Andrew W. Stevens, R.E.H. Smith, and R.E. Hecky. 2009. Detection and characterization of benthic filamentous algal stands (*Cladophora* sp.) on rocky substrata using a high-frequency echosounder. *Limnology and Oceanography: Methods*, 7(10), 693–705. <http://dx.doi.org/10.4319/lom.2009.7.693> or <http://www.aslo.org/lomethods/free/2009/0693.html>

Desai, A.R., J. A. Austin, V. Bennington and G.A. McKinley (2009). Stronger winds over a large lake in response to a weakening air to lake temperature gradient. *Nature-Geosciences* 2(12), 855-858. <http://dx.doi.org/10.4319/lo.2008.53.6.2724> or <http://www.nature.com/ngeo/journal/v2/n12/abs/ngeo693.html>

Dolenc, D, Romanowicz, B, McGill, P, Wilcock, W, Dolenc, (2008) Observations of infragravity waves at the ocean-bottom broadband seismic stations Endeavour (KEBB) and Explorer (KXBB). *Geochemistry Geophysics Geosystems*, 9(5). <http://dx.doi.org/10.1029/2008GC001942> or <http://onlinelibrary.wiley.com/doi/10.1029/2008GC001942/abstract>

Gikuma-Njuru, P., R. E. Hecky, and S. J. Guildford. 2009. Surficial sediment phosphorus fractions along a biogeochemical gradient in Nyanza (Winam) Gulf, northeastern Lake Victoria, and their possible role in phosphorus recycling and internal loading. *Biogeochemistry*, 97(2-3), 247- 261. <http://dx.doi.org/10.1007/s10533-009-9370-4> or <http://link.springer.com/article/10.1007%2Fs10533-009-9370-4>

Gondwe, M.J., S.J. Guildford and R.E. Hecky. 2009. Sandy shore benthic N₂-fixation in Lake Malawi, Africa. *Verh. Internat. Verein. Limnol.* 30(6), 941-944. <http://www.scribd.com/doc/170821672/Sandy-shore-benthic-N2-fixation-in-Lake-Malawi-Africa-pdf#scribd>

Hannessdottir, H., Geirsdottir, A., Miller, G. H., Manley, W., and Wattrus, N.J., 2009, Deglacial and Holocene sediment distribution in Hestvatn, South Iceland, derived from a seismic and multibeam survey. *Jokull*, 59, 67-88. <http://www.raunvis.hi.is/~bryndis/JOKULL/50-59/J59p67.pdf>

Heil CW, Jr., King JW, Rosenbaum JR, et al. (2009). Paleomagnetism and environmental magnetism of GLAD800 sediment cores from Bear Lake, Idaho and Utah. In: Rosenbaum JG and Kaufman DS (eds). *Paleoenvironments of Bear Lake, Utah and Idaho, and Its Catchment*. Boulder, Colorado: Geological Society of America Special Papers, 450, 291-310.

[http://dx.doi.org/10.1130/2009.2450\(13\)](http://dx.doi.org/10.1130/2009.2450(13))

or

<http://specialpapers.gsapubs.org/content/450/291.abstract>

Johnson, T. C. and Malala, J. O., 2009. Lake Turkana and its link to the Nile. In: Dumont, H. (ed.). *The Nile, Origin, Environments, Limnology and Human Use*. Springer Science, Berlin, pp. 287 - 304. http://link.springer.com/chapter/10.1007%2F978-1-4020-9726-3_15 or

http://books.google.com/books?id=iF_U1NoknHoC&q=

Kaufman, D.S., Bright, J., Dean, W.E., Rosenbaum, J.G., Anderson, R.S., Colman, S.M., Heil, C.W., Jr., Jimenez-Moreno, G., Moser, K.A., Reheis, M.C., and Simmons, K.R., 2009, A quarter-million years of paleoenvironmental change at Bear Lake, Utah-Idaho. In: Rosenbaum, J.G., and Kaufman, D.S., eds., *Paleoenvironments of Bear Lake, Utah and Idaho, and Its Catchment: Boulder, Colorado*. Geological Society of America Special Papers, 450, p. 311-331.

[http://www.academia.edu/2925981/A_quarter-](http://www.academia.edu/2925981/A_quarter-million_years_of_paleoenvironmental_change_at_Bear_Lake_Utah-Idaho)

[million_years_of_paleoenvironmental_change_at_Bear_Lake_Utah-Idaho](http://www.academia.edu/2925981/A_quarter-million_years_of_paleoenvironmental_change_at_Bear_Lake_Utah-Idaho)

Leavitt, P., S. Fritz, N. Anderson, P. Baker, T. Blenckner, L. Bunting, J. Catalan, D. Conley, W. Hobbs, E. Jeppesen, A. Korhola, S. McGowan, K. Ruhland, J. Rusak, G. Simpson, N. Solovieva, J.P. Werne (2009) Paleolimnological evidence of the effects on lakes of energy and mass transfer from climate and humans. *Limnology & Oceanography*, v. 54, no. 6/2, pp. 2330-234

http://dx.doi.org/10.4319/lo.2009.54.6_part_2.2330 or

<http://digitalcommons.unl.edu/cgi/viewcontent.cgi?article=1121&context=geosciencefacpub>

Malkin, S.Y., R.J. Sorichetti, J.A. Wiklund, and R.E. Hecky. 2009. Seasonal abundance, community composition, and silica content of diatoms epiphytic on *Cladophora glomerata*. *Journal of Great Lakes Research*, 35(2), 199–205. <http://dx.doi.org/10.1016/j.jglr.2008.12.008> or

<http://www.sciencedirect.com/science/article/pii/S0380133009000616>

Mbabazi, D., B. Makanga, F. Orach-Meza, R. E. Hecky, J.S. Balirwa, R. Ogutu-Ohwayo, P. Verburg, L. Chapman and E. Muhumuza. 2009. Intra-lake stable isotope ratio variation in selected fish species and their possible carbon sources in Lake Kyoga (Uganda): implications for aquatic food web studies. *African Journal of Ecology* 48: 667-675.

<http://dx.doi.org/10.1111/j.1365-2028.2009.01163.x> or

http://biology.mcgill.ca/faculty/chapman/articles/158_2009_Mbabazi_etal_AJE.pdf

Mulholland, M.R., G. E. Boneillo, P.W. Bernhardt, and E.C. Minor, 2009. Comparison of nutrient and microbial dynamics over a seasonal cycle in a mid-Atlantic coastal lagoon prone to *Aureococcus anophagefferens* (brown tide) blooms. *Estuaries and Coasts*, 32(6), 1176-1194.

<http://dx.doi.org/10.1007/s12237-009-9218-0> or

<http://link.springer.com/article/10.1007%2Fs12237-009-9218-0#page-1>

Muyodi, F.J., R. E Hecky, J. Mukisa Kitamirike and R. Odong. 2009. Trends in health risks from water-related diseases and cyanotoxins in Ugandan portion of Lake Victoria basin. *Lakes & Reservoirs: Research and Management*, 14(3), 247–257.

<http://dx.doi.org/10.1111/j.1440-1770.2009.00407.x> or

<http://onlinelibrary.wiley.com/doi/10.1111/j.1440-1770.2009.00407.x/pdf>

Ozersky, T., S.Y. Malkin, D.R. Barton, and R.E. Hecky. 2009. Dreissenid phosphorus excretion can sustain *C. glomerata* growth along a portion of Lake Ontario shoreline. *J. Great Lakes Res.* 35(3), 321-328. <http://dx.doi.org/10.1016/j.jglr.2009.05.001> or

<http://www.sciencedirect.com/science/article/pii/S0380133009001245>

Puchniak, M.K., F.E. Awortwi, P.O. Sanful, E. Frempong, R.I. Hall and R.E. Hecky. 2009. Effects of physical dynamics on the water column structure of Lake Bosomtwe/Bosumtwi, Ghana (West Africa). *Verh. Internat. Verein. Limnol.* 30(7):1077-1081.

<http://www.schweizerbart.de/publications/detail/isbn/9783510540785/%23>

Romanowicz, B. McGill, P., Neuhauser, D. and D. Dolenc (2009) Acquiring Real Time Data from the Broadband Ocean Bottom Seismic Observatory at Monterey Bay (MOBB), *Seismological Research Letters*, 80, 197-202. <http://dx.doi.org/10.1785/gssrl.80.2.197> or

http://seismo.berkeley.edu/~barbara/REPRINTS/mobb_srl09.pdf

Russell*, J., Werne, J.P., (2009) Climate change and productivity variations recorded by sedimentary sulfur in Lake Edward, Uganda/D.R. Congo. *Chemical Geology*, 264(1-4), pp. 337- 346. <http://dx.doi.org/10.1016/j.chemgeo.2009.03.020> or

<http://www.sciencedirect.com/science/article/pii/S0009254109001429>

Schindler, D.W. and R.E. Hecky. 2009. E utrophication: More nitrogen data needed. *Science*, 324(5928), 721-722. http://dx.doi.org/10.1126/science.324_721b or

<http://www.sciencemag.org/content/324/5928/721.2>

Squires, M.M., L. F.W. Lesack, R. E. Hecky, S. J. Guildford, P. S. Ramlal, and S. N. Higgins. 2009. Primary Production and Carbon Dioxide Metabolic Balance of a Lake-Rich Arctic River Floodplain: Partitioning of Phytoplankton, Epipelon, Macrophyte, and Epiphyton Production Among Lakes of the Mackenzie Delta. *Ecosystems*, 12(5), 853-872.

<http://dx.doi.org/10.1007/s10021-009-9263-3> or

<http://link.springer.com/article/10.1007%2Fs10021-009-9263-3>

Verburg, P. and R.E. Hecky. 2009. The physics of the warming of Lake Tanganyika by climate change. *Limnol. Oceanogr.* 54(6, part 2):2418-2430.

http://dx.doi.org/10.4319/lo.2009.54.6_part_2.2418 or

http://onlinelibrary.wiley.com/doi/10.4319/lo.2009.54.6_part_2.2418/abstract

Warner, D.M., Claramunt, R.M., Janssen, J., Jude, D.J., and Wattrus, N., 2009, Acoustic estimates of abundance and distribution of spawning lake trout on Sheboygan Reef in Lake Michigan. *Journal of Great Lakes Research*, 35(1), p. 147-153.

<http://dx.doi.org/10.1016/j.jglr.2008.11.005> or

<http://www.sciencedirect.com/science/article/pii/S0380133008000075>

Weijers, J.W.H., C. Blaga, J.P. Werne, and J.S. Sinninghe Damsté. 2009. Microbial membrane lipids in lake sediments as a paleothermometer. *PAGES News*, v. 17, no. 3, pp. 102-104.
http://www.pages-igbp.org/download/docs/newsletter/2009-3/Special_section/Science_Highlights/Weijers_etal_2009-3%28102-104%29.pdf