

**Publications from LLO Faculty and Staff
University of Minnesota Duluth
2013**

Abdulla, H.A.N., E.C. Minor, R.F. Dias, and P.G. Hatcher, 2013. Transformations of the chemical compositions of high molecular weight DOM along a salinity transect: Using two dimensional correlation spectroscopy and principal component analysis approaches. *Geochimica et cosmochimica Acta*, 118: 231-246. <http://dx.doi.org/10.1016/j.gca.2013.03.036>

Austin, J.A. (2013) Observations of near-inertial energy in Lake Superior. *Limnology and Oceanography* 58(2), 715-728. <http://dx.doi.org/10.4319/lo.2013.58.2.0715> or http://www.aslo.org/lo/pdf/vol_58/issue_2/0715.pdf

Austin, J. A. (2013) The potential for autonomous underwater gliders in large lake research. *Journal of Great Lakes Research*, v. 39, supplement 1, 8-13. <http://dx.doi.org/10.1016/j.jglr.2013.01.004>

Berges, J. A., Y. Jiang, R. W. Sterner, G. S. Bullerjahn, N. A. Ivanikova, and R. M. L. McKay. 2013. Identification of factors constraining nitrate assimilation in Lake Superior, Laurentian Great Lakes. *Hydrobiologia*, v. 731, no. 1, pp 81-94. <http://link.springer.com/article/10.1007%2Fs10750-013-1637-z#page-1>

Katsev, S. and M. Dittrich (2013) Modeling of decadal-scale phosphorus retention in lake sediments under varying redox conditions. *Ecological Modeling* 251:246-259. <http://dx.doi.org/10.1016/j.ecolmodel.2012.12.008>

Lane, C. S., Chorn, B. T. and Johnson, T. C., 2013. Ash from the Toba super eruption in Lake Malawi shows no volcanic winter at 75 ka, *Proc. National Academy of Sciences*, v. 110, p. 8025-8029. <http://dx.doi.org/10.1073/pnas.1301474110> or <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3657767/>

Liu, X. J., Colman, S. M., E.T., B., Henderson, A. C. G., and Holmes, J. A., 2013, Abrupt deglaciation on the northeastern Tibetan Plateau: evidence from Lake Qinghai. *Journal of Paleolimnology*, v. 51, no. 2, pp 223-240. <http://link.springer.com/article/10.1007%2Fs10933-013-9721-y#page-1>

Liu, X, S.M. Colman, E.T. Brown, E.C. Minor, H. Li, 2013. Estimation of carbonate, total organic carbon, and biogenic silica content by FTIR and XRF techniques in lacustrine sediments. *Journal of Paleolimnology*, v. 50, no. 3, pp 387-398. <http://dx.doi.org/10.1007/s10933-013-9733-7> or <http://link.springer.com/article/10.1007%2Fs10933-013-9733-7#page-1>

Macdonald, M.J. # and E.C. Minor, 2013. Photochemical degradation of dissolved organic matter from streams in the western Lake Superior watershed. *Aquatic Sciences*, 75, 509-522. <http://dx.doi.org/10.1007/s00027-013-0296-5> or <http://link.springer.com/article/10.1007%2Fs00027-013-0296-5#page-1>

Minor, E.C., E. James, V. Nelson#, R. Lusk, K. Mopper, and J.A. Austin, 2013. A preliminary examination of an in situ dual dye approach to measuring light fluxes in lotic systems. *Limnol. Oceanogr: Methods* 11, 621-642.

<http://www.aslo.org/lomethods/free/2013/0631.pdf>

Li, H, E.C. Minor, and P.K. Zigah,# 2013. Diagenetic Changes in Lake Superior Sediments as Seen by FTIR and 2D Correlation Spectroscopy. *Organic Geochemistry* 58, 125-136.

<http://dx.doi.org/10.1016/j.orggeochem.2013.03.002> or

<http://www.sciencedirect.com/science/article/pii/S0146638013000533>

Slate, J. E., Johnson, T. C., Moore, T. C., 2013. Impact of pre-Columbian agriculture, climate change, and tectonic activity inferred from a 5700-year paleolimnological record from Lake Nicaragua. *Journal of Paleolimnology*, v. 50, no. 1, p. 139-149.

<http://link.springer.com/article/10.1007%2Fs10933-013-9709-7#page-1>

Small, G. E., G. S. Bullerjahn, R. W. Sterner, B. F. N. Beall, S. Brovold, J. C. Finlay, R. M. L. McKay, and M. Mukherjee. 2013. Rates and controls of nitrification in a large oligotrophic lake. *Limnology and Oceanography* 58:276-286.

http://www.aslo.org/lo/pdf/vol_58/issue_1/0276.pdf

Sun, X., X. Zhou, G. E. Small, R. Sterner, H. Kang, and C. Liu. 2013. Energy storage and C:N:P variation in a holometabolous insect (*Curculio davidi* Fairmaire) larva across a climate gradient. *Journal of Insect Physiology*, v. 59, no. 4:408-415.

<http://dx.doi.org/10.1016/j.jinsphys.2013.01.010> or

<http://www.sciencedirect.com/science/article/pii/S0022191013000310>

Yu, S.-Y., Colman, S. M., and Milne, G. A., 2013. Radiocarbon Dating of Basal Peats Supports Separation of Lake Superior from Lakes Michigan-Huron about 1250 years ago. *Earth and Planetary Science Letters*, v. 375, p. 319-325. <http://dx.doi.org/10.1016/j.epsl.2013.05.051> or

http://www.researchgate.net/publication/272943597_Radiocarbon_Dating_of_Basal_Peats_Supports_Separation_of_Lake_Superior_from_Lakes_Michigan-Huron_about_1250_years_ago