

LRC PUBLICATIONS

Names underlined are of those persons reporting research undertaken at the Limniological Research Center, including the Pollen Laboratory (before 1963) and of those persons who holds Graduate Faculty appointments and have worked with LRC graduate students.

2013

- 13-01 Lascu, I. and Plank, C. P., 2013, A new dimension to sediment magnetism: Charting the spatial variability of magnetic properties across lake basins, *Global and Planetary Change*, doi: 10.1016/j.gloplacha.2013.03.013.
- 13-02 Anger, C.T., C. Sueper, D.J. Blumentritt, K. McNeill, D.R. Engstrom, and W.A. Arnold. 2013. Quantification of triclosan, chlorinated triclosan derivatives, and their dioxin photoproducts in lacustrine sediment cores. *Environmental Science & Technology* DOI 10.1021/es3045289
- 13-03 Benson, C.J., Edlund, M.B., Gray, S., Powell, L., Paulin-Curlee, G., Armien, A., Overmann, J.A. 2013. The presence of diatom algae in a tracheal wash from a German Wirehaired Pointer with aspiration pneumonia. *Veterinary Clinical Pathology*
- 13-04 Blumentritt, D.J., D.R. Engstrom, and S.J. Balogh. 2013 A novel repeat-coring approach to reconstruct recent sediment, phosphorus, and mercury loading from the upper Mississippi River to Lake Pepin, USA. *Journal of Paleolimnology* (in press).
- 13-05 Cooke, C.A., H. Hintelmann, J.J. Ague, R. Burger, H. Biester, Sachs, J.P., and D.R. Engstrom. 2013. Use and legacy of mercury in the Andes. *Environmental Science & Technology* DOI 10.1021/es3048027.
- 13-06 Engstrom, D.R. and N.L. Rose. 2013. A whole-basin, mass-balance approach to paleolimnology. *Journal of Paleolimnology* 49: 333-347.
- 13-07 Fitzgerald, W.F., C.R. Hammerschmidt, D.R. Engstrom, P.H. Balcom, C.H. Lamborg, and C-M. Tseng. 2013. Mercury in the Alaskan Arctic in J.E. Hobbie and G.W. Kling, editors, *A Warming Arctic: Ecological Consequences for Tundra, Streams and Lakes*. Oxford University Press (in press).
- 13-08 Kaczmarek, I., Poulíčková, A., Sato, S., Edlund, M.B., Idei, M., Watanabe, T. and Mann, D.G. 2013. Proposals for a terminology for diatom sexual reproduction, auxospores and resting stages. *Diatom Research* <http://dx.doi.org/10.1080/0269249X.2013.791344>
- 13-09 Lamborg, C.H., D.R. Engstrom, W.F. Fitzgerald, and P.H. Balcom. 2013. Apportioning global and non-global components of mercury deposition through ²¹⁰Pb indexing. *Science of the Total Environment* 448: 132-140.
- 13-10 McLauchlan, K. K., Lascu, I., Myrbo, A. and Leavitt, P. R., 2013, Variable ecosystem response to climate change during the Holocene in northern Minnesota, U.S.A., *Geological Society of America Bulletin* 125, p. 445–452, doi: 10.1130/B30737.1.
- 13-11 Pavlov, A., Levkov, Z., Williams, D.M. and Edlund, M.B. 2013. Observations on *Hippodonta* from selected ancient lakes. *Phytotaxa* 90: 1-53.
- 13-12 Reavie, E.D. and Edlund, M.B. 2013. Assessing diatom transfer function performance on four Minnesota sediment cores: the effects of training set size and sample age. *Journal of Paleolimnology* DOI: 10.1007/s10933-013-9706-x

- 13-13 Schottler, S.P., J. Ulrich, P. Belmont, R. Moore, J.W. Lauer, D.R. Engstrom, and J.E. Almendinger. 2013. Twentieth century agricultural drainage creates more erosive rivers. *Hydrological Processes* DOI: 10.1002/hyp.9738.
- 13-14 Umbanhowar, C.E. Jr., Camill, P., Edlund, M.B., Geiss, C., W. Durham, D. Kreger, W. Molano, C. Raskob, M. Stocker, A. Tvera and J. Williams (in press) Contrasting changes in surface waters and barrens over the past 60 years for a subarctic forest-tundra site located in northern Manitoba based on remote sensing imagery. *Canadian Journal of Earth Sciences*
- 13-15 Corbett, J. E., M. M. Tfaily, D. J. Burdige, W. T. Cooper, P. H. Glaser, and J. P. Chanton (2013). Partitioning pathways of CO₂ production in peatlands with stable carbon isotopes. *Biogeochemistry*. DOI 10.1007/s10533-012-9813-1.
- 13-16 Tfaily, M.M, J. E. Corbett, J. P. Chanton, P. H. Glaser, and W. T. Cooper. Investigating dissolved organic matter decomposition in northern peatlands using complimentary analytical techniques. *Geochimica et Cosmochimica Acta* (in press)
- 13-17 Edlund, M.B. and Stoermer, E.F. (in press) Minnesota diatomists and diatoms: The first 150 years. *Phytotaxa*

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- 12-01 Lascu, I., McLauchlan, K.K., Myrbo, A., Banerjee, S.K (2012) Sediment-magnetic evidence for last millennium drought conditions at the prairie-forest ecotone of northern USA. *Palaeogeography, Palaeoclimatology, Palaeoecology*. *Palaeoecology* 337-338, p. 99-107, doi: 10.1016/j.palaeo.2012.04.001.
- 12-02 van der Meeren, T., Mischke, S., Sunjidmaa, N., Herxschuh, U., Ito, E., Martens, K., and Verschuren, D. 2012. Subfossil ostracode assemblages from Mongolia – Quantifying response for paleolimnological applications. *Ecological Indicators*. 14:138-151. doi:10.1016/j.ecolind.2011.07.004
- 12-03 Marco-Barba, J., Ito, E., Carbonell, E. and Mezquita-Joanes, F. (2012.) Empirical calibration of shell chemistry of *Cyprideis torosa* (Jones, 1850) (Crustacea: Ostracoda). *Geochimica et Cosmochimica Acta*. 93:143-163. <http://dx.doi.org/10.1016/j.gca.2012.06.019>
- 12-04 Anderson, N.J., R.H. Foy, D.R. Engstrom, B. Rippey and F. Alamgir. 2012. Climate forcing of diatom productivity in a lowland, eutrophic lake: White Lough revisited. *Freshwater Biology* (in press).
- 12-05 Black, J.L., Edlund, M.B., Hausmann, S., Pienitz, R. 2012. Small freshwater thalassiosiroid diatoms from Pleistocene sediments of Pingualuit Crater Lake, northern Québec (Canada) including description of *Cyclotella pingaluitii* sp. nov. *Diatom Research*, DOI:10.1080/0269249X.2012.654825
- 12-06 Black, J.L., Edlund, M.B., Hausmann, S., Pienitz, R. 2012. Small freshwater thalassiosiroid diatoms from Pleistocene sediments of Pingualuit Crater Lake, northern Québec (Canada) including description of *Cyclotella pingaluitii* sp. nov. *Diatom Research* 27(1): 53-63, DOI:10.1080/0269249X.2012.654825
- 12-07 Camill, P., Umbanhowar, C.E. Jr., Geiss, C., Hobbs, W.O., Edlund, M.B., Shinneman, A.C., Dorale, J.A. and Lynch, J. 2012. Holocene climate change and landscape development from a low-Arctic tundra lake in the western Hudson Bay region of Manitoba, Canada. *Journal of Paleolimnology* 48: 175-192, DOI 10.1007/s10933-012-9619-0

- 12-08 Coleman Wasik, J.K., C.P.J. Mitchell, D.R. Engstrom, E.B. Swain, B.A. Monson, S.J. Balogh, J.D. Jeremiason, B.A. Branfireun, S.L. Eggert, R.K. Kolka, and J.A. Almendinger. 2012. Methylmercury declines in a boreal peatland when experimental sulfate deposition decreases. *Environmental Science & Technology* 46: 6663-6671
- 12-09 Corella,JP. Achim Brauer, Clara Mangili, Valentí Rull, Teresa Vegas-Vilarrúbia, Mario Morellón, Blas L. Valero-Garcés. 2012 The 1.5-ka varved record of Lake Montcortès (southern Pyrenees, NE Spain). *Quaternary Research* 78: 323 - 332
- 12-10 Drevnick, P.E, D.R. Engstrom, C.T. Driscoll, E.B. Swain, S.J. Balogh, N.C. Kamman, D.T. Long, D.G.C. Muir, M.J. Parsons, K.R. Rolfhus, and R. Rossmann. 2012. Spatial and temporal patterns of mercury accumulation in sediment records from across the Great Lakes Region. *Environmental Pollution* 161:252-260.
- 12-11 García-Ruiz, J.M., Carlos Martí-Bono, José L. Peña-Monné, Carlos Sancho, Edward J. Rhodes, Blas Valero-Garcés, Penélope González-Sampériz and Ana Moreno. 2012. Glacial And Fluvial Deposits In The Aragón Valley, Central-Western Pyrenees: Chronology Of The Pyrenean Late Pleistocene Glaciers. *Geografiska Annaler: Series A, Physical Geography* (on line, 27 Sept. 2012)
- 12-12 Glaser, P.H., J. C. Volin, T. J. Givnish, B. C.S. Hansen, and C. A. Stricker (2012). Carbon and sediment accumulation in the Everglades (USA) during the past 4000 years: rates, drivers, and sources of error. *Journal of Geophysical Research-Biogeosciences* 117, G03026, doi:10.1029/2011JG001821, 2012.
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- 12-14 Gutiérrez, F. B. Valero-Garcés, G. Desir, P. González-Sampériz, M.Gutiérrez, R. Linares, M. Zarroca, A. Moreno, J. Guerrero, C. Roqué, L.J. Arnold, M. Demuro. 2012. Late Holocene evolution of playa lakes in the Central sector of the Ebro depression based on geophysical surveys and morphostratigraphic analysis of lacustrine terraces . *Geomorphology*. doi:10.1016/j.geomorph.2012.02.013
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- 12-16 Hobbs, W.O., Ramstack Hobbs, J.M., LaFrancois, T., Zimmer, K.D., Theissen, K.M., Edlund, M.B. Michelutti, N., Butler, M.G., Hanson, M.A., and Carlson, T.J. 2012. A 200-year perspective on alternative stable state theory and lake management from a biomanipulated shallow lake. *Ecological Applications* 22:1483–1496. < <http://dx.doi.org/10.1890/11-1485.1> >
- 12-17 Jiménez-Sánchez, M. L. Rodríguez-Rodríguez, J. M. García-Ruiz, M. J. Domínguez-Cuesta, P. Farias, B. Valero-Garcés, A. Moreno, M. Rico, M. Valcárcel. 2012. A review of glacial geomorphology and chronology in northern Spain: Timing and regional variability during the last glacial cycle. *Geomorphology*. doi:10.1016/j.geomorph.2012.06.009
- 12-18 Morellón, M., Büntgen, U., Catalán, J., Corella, J. P., González-Sampériz, P., González-Trueba, J. J., López-Sáez, J. A., Moreno, A., Pérez-Sanz, A., Pla, S., Rull, V., Saz-Sánchez, M. A., Serrano, Ecarlos Sancho,, Steinhilber, F., and Valero-Garcés, B. . 2012. A multi-proxy

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- 12-19 Moreno, A. Ana Pérez, Jaime Frigola, Vanesa Nieto-Moreno, Marta Rodrigo-Gámiz, Belén Martrat, Penélope González-Sampériz, Mario Morellón, Celia Martín-Puertas, Juan Pablo Corella, Ánchel Belmonte, Carlos Sancho, Isabel Cacho, Gemma Herrera, Miquel Canals, Joan Grimalt, Francisco Jiménez-Espejo, Francisca Martínez Ruiz, Teresa Vegas and Blas L. Valero-Garcés 2012. The Medieval Climate Anomaly in the Iberian Peninsula reconstructed from a compilation of marine and lake records. *Quaternary Science Reviews*, 43: 16-32
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- 12-21 Roberts, N. Ana Moreno, Blas L. Valero-Garcés, Juan Pablo Corella , Matthew Jones, Samantha Allcock , Jessie Woodbridge, Mario Morellón Juerg Luterbacher, Elena Xoplaki, Murat Türkeş. 2012. Palaeolimnological evidence for an east–west climate see-saw in the Mediterranean since AD 900. *Global and Planetary Changes*. 84-85:23 – 34 doi:10.1016/j.gloplacha.2011.11.002
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- 11-06 Corella, P., Moreno, A. Morellón, M., Rull, V., Giralt, S., Rico, M., Pérez-Sanz, A., Valero-Garcés, B 2011 Climate and human impact on a meromictic lake during the last 6,000 years

- (Montcortès Lake, Central Pyrenees, Spain) *Journal of Paleolimnology*. 46:351-367.
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- 11-19 Valero-Garcés, B and Moreno A. 2011 Iberian lacustrine sediment records: responses to past and recent global changes in the Mediterranean región. *Journal of Paleolimnology*. 46:319 -325
- 11-20 Myrbo, A., M. Murphy, and V. Stanley, 2011. The Minneapolis Chain of Lakes by bicycle: Glacial history, human modifications, and paleolimnology of an urban natural environment, in Miller, J.D., Hudak, G.J., Wittkop, C., and McLaughlin, P.I., eds., Geological Society of America Field Guide 24, p. 435-437.
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