

LRC Publications

The numbering system was revised in 2010 and will not correspond to the numbers mentioned in papers published prior to 2010.

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

In review

Hotchkiss, S., Calcote, R., Lynch, E.A., Yanger, C., and Mladenoff, D.J., in review. The paleoecology of landscapes using pollen assemblages to reconstruct landscape heterogeneity, *The Holocene*

Black, J.L., Edlund, M.B., Hausmann, S., Pienitz, R., in review. A new diatom, *Cyclotella pingualuitii* sp. nov., from Pingualuit Crater Lake sediments and its paleoenvironmental significance. submitted to *Diatom Research*

Edlund, M.B. and Stoermer, E.F., in review. Minnesota diatomists and diatoms: The first 150 years. submitted to *Phytotaxa*

Shinneman, A.L.C., Edlund, M.B., Soninkhishig, N., in review. Diatom biodiversity in Mongolia: New and poorly known cyclotelloid diatoms from western Mongolia. submitted to *Phycological Research*

2011

11-01 Van der Meeren, T., Ito, E., Verschuren, D., Almendinger, J. E., and Martens, K., in press. Valve chemistry of *Limnocythere inopinata* (Ostracoda) in a cold arid environment – implications for Paleolimnological interpretation. *Palaeogeography, Palaeoclimatology, Palaeoecology*. Accepted April 11, 2011

2010

10-01 Shane L C K, 2010. Paul B. Sears' Contributions to the Development of Paleoecology, *Ohio Journal of Science*, 109. No. 4-5, 76-87

10-02 Shapley MD, Ito E and Forester RM, 2010. Negative correlations between Mg:Ca and total dissolved solids in lakes: false aridity signals and decoupling mechanism for paleohydrologic proxies. *Geology* 38:427-430. doi: 10.1130/G30718.1.

10-03 van der Meeren T, Almendinger JE, Ito E and Martens K, 2010. The ecology of ostracodes (Ostracoda, Crustacea) in western Mongolia. *Hydrobiologia*, 641:253-273. DOI: 10.1007/s10750-010-0089-y.

10-04 Cheng Zhao, Zicheng Yu, Yan Zhao, Emi Ito, Kenneth P. Kodama and Fahu Chen, 2010. Holocene millennial-scale climate variations documented by multiple lake-level proxies from Hurleg Lake in northwestern China. *Journal of Paleolimnology*, 44:995-1008. DOI 10.1007/s10933-010-9469-6.

10-05 Parsekian, A., L. Slater, X. Comas, and P. Glaser, 2010. Non-invasive comparison of biogenic free phase gas accumulation between forested crest and mid-slope lawn of a large raised bog complex: variations in the vertical distribution of gas. *Journal of Geophysical Research-Biogeosciences*. 115, G02002, doi:10.1029/2009JG001086.

10-06 D'Andrilli, J. J.P. Chanton, P. H. Glaser, and W.T. Cooper, **in press**. Characterization of dissolved organic matter in northern peatland soil porewaters using Ultrahigh Resolution Mass Spectrometry. *Organic Geochemistry*.

10-07 Van der Meeren, T., Verschuren, D., Ito, E., Martens, K, 2010. Morphometric techniques allow environmental reconstructions from low-diversity continental ostracode assemblages. *Journal of Paleolimnology* 44:903–911. DOI 10.1007/s10933-010-9463-z

- 10-08 Siver, P.A., Wolfe, A.P. and Edlund, M.B. 2010. Taxonomic descriptions and evolutionary implications of Middle Eocene pennate diatoms representing the extant genera *Oxynois*, *Actinella* and *Nupela* (Bacillariophyceae). *Plant Ecology and Evolution* 143(3): 349-351, doi: 10.591/plecevo.2010.419
- 10-09 Edlund, M.B., Shinneman, A.L.C., Soninkhishig, N. 2010. Diatoms (Bacillariophyceae) from the Valley of the Great Lakes in western Mongolia. *Mongolian Journal of Biological Sciences* 8(1): 17-26.
- 10-10 Rushforth, S.J., Edlund, M.B., Spaulding, S.A. and Stoermer, E.F. 2010. The Reimer Diatom Herbarium: an important resource for teaching and research. *Proceedings of the Academy of Natural Sciences of Philadelphia* 160: 13-20.
- 10-11 Edlund, M.B. and Brant, L.A. 2010. *Eunotia charliereimeri*, a new *Eunotia* species (Bacillariophyceae) with amphoroid frustule symmetry. *Proceedings of the Academy of Natural Sciences of Philadelphia* 160: 47-56.
- 10-12 Morales, E.A., Edlund, M.B. and Spaulding, S.A. 2010. Description and ultrastructure of araphid diatom species (Bacillariophyceae) morphologically similar to *Pseudostaurosira elliptica* (Schumann) *Edlund et al.* *Phycological Research* 58: 97-107.
- 10-13 Shinneman, A.L.C., Umbanhowar, C.E., Jr., Edlund, M.B. and Soninkhishig, N. 2010. Late Holocene moisture balance inferred from diatoms and lake sediment records in western Mongolia. *The Holocene* 20: 123-138.
- 10-14 Shinneman, A.L.C., Umbanhowar, C.E., Jr., Almendinger, J.E., Edlund, M.B. and Soninkhishig, N. 2009. Paleolimnologic evidence for recent eutrophication in the Valley of the Great Lakes (Mongolia). *Ecosystems* 12: 944-960. DOI: 10.1007/s10021-009-9269-x
- 10-15 Mackay, A.W., Edlund, M.B. and Khursevich, G. 2010. Diatoms in ancient lakes. In Smol, J.P. and Stoermer, E.F. (Eds) *The Diatoms: Applications for the Environmental and Earth Sciences*. Cambridge University Press. pp 209-228.
- 10-16 Reavie, E.D. and Edlund, M.B. 2010. Diatoms as indicators of environmental change in rivers, fluvial lakes and impoundments. In Smol, J.P. and Stoermer, E.F. (Eds) *The Diatoms: Applications for the Environmental and Earth Sciences*. Cambridge University Press. pp 86-97.
- 10-17 Spaulding, S.A., Kilroy, C. and Edlund, M.B. 2010. Diatoms as nonnative species. In Smol, J.P. and Stoermer, E.F. (Eds) *The Diatoms: Applications for the Environmental and Earth Sciences*. Cambridge University Press. pp 560-569.
- 10-18 Spaulding, S. and Edlund, M.B. (Invited Editors). 2010. "A special volume honoring the life and legacy of Dr. Charles W. Reimer", *Proceedings of the Academy of Natural Sciences of Philadelphia* 160: 126 pp.
- 10-19 Christensen, V.G., Jones, P.M., Edlund, M.B., and Ramstack, J.M., 2010, Water quality (2000–08) and historical phosphorus concentrations from paleolimnological studies of Swamp and Speckled Trout Lakes, Grand Portage Reservation, northeastern Minnesota: U.S. Geological Survey Scientific Investigations Report 2010–5192, 53 pp. < <http://pubs.usgs.gov/sir/2010/5192/> >
- 10-20 S. E. Metcalfe, M. D. Jones, S. J. Davies, A. Noren, and A. MacKenzie, 2010. Climate variability over the last two millennia in the North American monsoon region, recorded in laminated lake sediments from Laguna de Juanacatlán, Mexico, *The Holocene* 20: 1195-1206. doi:10.1177/0959683610371994
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- 09-17. Martín- Puertas, C., Blas L. Valero- Garcés , M Pilar Mata , Ana Moreno , Santiago Giralt, Francisca Martínez-Ruiz, Francisco Jiménez- Espejo, **in press**. Geochemical processes in a Mediterranean Lake: a high-resolution study of the last 4000 years in Zoñar Lake (southern Spain). *Journal of Paleolimnology*.
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