

FISH 503 Advanced Limnology (University of Idaho, Moscow Idaho Campus)

Coring and Paleolimnology Module

References used as background information to the module and others which may be of interest

- Avnimelech, Y., Ritvo, G., Meijer, L. E., and Kochba, M. 2001. Water content, organic carbon and dry bulk density in flooded sediments. *Aquacultural engineering* 25: 25-33.
- Bennion, H., Juggins, S., and Anderson, N. J. 1996. Predicting epilimnetic phosphorus concentrations using an improved diatom-based transfer function and its application to lake eutrophication management. *Environmental Science and Technology* 30: 2004-2007.
- Blais, J., Duff, K., Laing, T. and Smol, J.P. 1999. Regional contamination of lakes from the Norilsk smelters on the Taimyr Peninsula in Siberia, Russia. *Water, Air and Soil Pollution* 110: 389-404.
- Brubaker, L. B., Higuera, P. E., Rupp, T. S., Olson, M. A., Anderson, P. M., and Hu, F. S. 2009. Linking sediment-charcoal records and ecological modeling to understand causes of fire-regime change in boreal forests. *Ecology*: 90: 1788-1801.
- Christie, C.E., and Smol, J.P. 1993. Diatom assemblages as indicators of lake trophic status in Southeastern Ontario lakes. *J. Phycology* 29: 575-586.
- Cumming, B.F. and Smol, J.P. 1993. Development of diatom-based salinity models for paleoclimatic research from lakes in British Columbia (Canada). *Hydrobiologia* 269/270: 179-196.
- Cumming, B.F., Glew, J.R., Smol, J.P., Davis, R., and Norton, S. 1993. A comment on "Core compression and surficial sediment loss of lake sediments of high porosity caused by gravity coring". *Limnology and Oceanography* 38: 695-699.
- Dixit, A.S., Dixit, S.S. and Smol, J.P. 1992. Algal microfossils provide high temporal resolution of environmental trends. *Water, Air, and Soil Pollution* 62: 75-87.
- Donahue, W. F., and Schindler, D. W. 2006. Impacts of coal-fired power plants on trace metals and polycyclic aromatic hydrocarbons (PHAs) in lake sediments in central Alberta, Canada. *Journal of Paleolimnology* 35: 111-128.
- Gilbert, R. and Glew, J.R. 1985. A portable percussion coring device for lacustrine and marine sediments. *J. Sedimentary Petrol.* 55: 607-608.
- Glew, J.R. 1988. A portable extruding device for close interval sectioning of unconsolidated core samples. *J. Paleolimnology* 1: 235-239.
- Glew, J.R. 1989. A new trigger mechanism for sediment samplers. *J. Paleolimnology* 2: 241-243.
- Glew, J.R. 1991. Miniature gravity corer for recovering short sediment cores. *J. Paleolimnology* 5:285-287
- Glew, J.R. 1995. Conversion of shallow water gravity coring equipment for deep water systems. *J. Paleolimnology* 14: 83-88.

- Hall, R.I. and Smol, J.P. 1992. A weighted-averaging regression and calibration model for inferring total phosphorus concentration from diatoms in British Columbia (Canada) lakes. *Freshwater Biology* 27: 417-434.
- Hall, R.I., Leavitt, P.R., Quinlan, R., Dixit, A., and Smol, J.P. 1999. Effects of agriculture, urbanization and climate on water quality in the Northern Great Plains. *Limnology and Oceanography* 44: 739-756.
- Higuera, P. E., Brubaker, L. B., Anderson, P. M., Brown, T. A., Kennedy, A. T., and Hu, F. S. 2008. Frequent fires in ancient shrub tundra: implication of paleorecords for arctic environmental change. *PLoS ONE* 3: 1-7.
- Higuera, P. E., Brubaker, L. B., Anderson, P. M., Hu, F. S., and Brown, T. A. 2009. Vegetation mediated impacts of postglacial climate change on fire regimes in the south-central Brooks Range, Alaska. *Ecological Monographs* 79: 201-229.
- Hilton, J., Lishman, J. P., and Millington, A. 1986. A comparison of some rapid techniques for the measurement of density in soft sediments. *Sedimentology* 33: 777-781.
- Holmes, C. W. 1998. Short-lived isotopic chronometers - A means of Measuring decadal sedimentary dynamics. USGS Fact sheet FS-073-98.
- Last, W.M. and Smol, J.P. [Editors]. 2001. *Tracking Environmental Change Using Lake Sediments, Volume 1: Basin Analysis, Coring, and Chronological Techniques*. Kluwer Academic Publishers, Dordrecht, 548 pp.
- Last, W.M. and Smol, J.P. [Editors]. 2001. *Tracking Environmental Change Using Lake Sediments, Volume 2: Physical and Geochemical Techniques*. Kluwer Academic Publishers, Dordrecht, 504 pp.
- Leavitt, P.R., Hann, B.J., Smol, J.P., Zeeb, B.A., Christie, C.E., Wolfe, B., and Kling, H.J. 1994. Analysis of whole-lake experiments with paleolimnology: An overview of results from Lake 227, Experimental Lakes Area, Ontario. *Can. J. Fish. Aqu. Sci.* 51: 2322-2332.
- Miskimmin, B.M., P.J. Curtis, D.W. Schindler and N. Lafaut (1996). A new hammer-driven freeze corer. *J. Paleolimnol.* 15: 265-269.
- Murdoch, A., and MacKnight, S. D. eds.1994. *Handbook of techniques for aquatic sediments sampling*. 2nd ed. Lewis Publishers Boca Raton.
- Mudroch, A. and J. Azcue. 1995. *Manual of Aquatic Sediment Sampling*. Lewis Publishers Inc., Boca Raton, FL.
- Pienitz R., Smol, J.P., and Birks, H.J.B. 1995. Assessment of freshwater diatoms as quantitative indicators of past climatic change in the Yukon and Northwest Territories, Canada. *J. Paleolimnology* 13: 21-49.
- Rosen, P., Hall, R. Korsman, T., and Renberg, I. 2000. Diatom transfer-functions for quantifying past air temperature, pH and total organic carbon concentration from lakes in northern Sweden. *Journal of Paleolimnology* 24: 109-123.
- Smol, J.P. Birks, H.J.B., and Last, W.M. [Editors]. 2001. *Tracking Environmental Change Using Lake Sediments Volume 3: Terrestrial, Algal, and Siliceous Indicators*. Kluwer Academic Publishers, Dordrecht, 371 pp.
- Smol, J.P. Birks, H.J.B., and Last, W.M. [Editors]. 2001. *Tracking Environmental Change Using*

Lake Sediments, Volume 4: Zoological Indicators. Kluwer Academic Publishers, Dordrecht, 217 pp.

- Smol, J.P. and Dixit, S.S. 1990. Patterns of pH change inferred from chrysophycean microfossils in Adirondack and New England lakes. *J. Paleolimnology* 4:31-41.
- Smol, J.P. 1990. Paleolimnology -- the study of prehistoric waters? *J. Paleolimnology* 3: 84.
- Smol, J.P. 1992. Paleolimnology: An important tool for effective ecosystem management. *Journal of Aquatic Ecosystem Health* 1: 49-58.
- Stoermer, E. F., and Smol, J. P. eds. 1999. *The Diatoms: Applications for the environmental and earth sciences*. Cambridge University Press. Cambridge, UK.
- Smol, J. P., Battarbee, R. W., Davis, R. B., and Mariläinen, J. 1986. Diatoms and lake acidity. Reconstructing pH from siliceous algal remains in lake sediment. *Developments in Hydrobiologia* 29. Dr. W. Junk Publishers. Dordrecht.
- USEPA, 2001. *Methods for Collection, Storage, and Manipulation of Sediments for Chemical and Toxicological Analyses: Technical Manual, EPA/823/B-01/002*. Office of Water. District of Columbia.
- Uutala, A.J and Smol, J.P. 1996. Paleolimnological reconstructions of long-term changes in fisheries status in Sudbury area lakes. *Can J. Fish. Aq. Sci.* 53: 174-180.
- Wehr, J. D., and Sheath, R. G. 2003. *Freshwater algae of North America, ecology and classification*. Academic Press, Amsterdam.

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