

Brief CV of Dr. Zhonghui Liu (柳中暉)

Present Position and Address

Assistant Professor
Department of Earth Sciences
The University of Hong Kong
James Lee Science Building
Pokfulam Road
Hong Kong
E-mail: zhliu@hku.hk; Tel: (852) 2859 2831; Fax: (852) 2517 6912

Education

PhD – 2004 Brown University, USA

B Sc – 1996 University of Science and Technology, China (USTC)

Teaching

EASC0136 Introduction to Climatology

EASC2127 Global Change: Anthropogenic Impact

EASC2005 Meteorology

Fields of Research Interests

Paleoclimatology, Paleoceanography, Organic Geochemistry

Selected Publications

Herbert, T.D., Peterson, L.C., Lawrence, K.T. & Liu, Z. (2010) Tropical ocean temperatures over the past 3.5 Myr. **Science** 328,1530-1534.

Pagani, M., Liu, Z., LaRiviere, J., & Ravelo, A.C. (2010) High Earth-system climate sensitivity determined from Pliocene carbon dioxide concentrations. **Nature Geoscience** 3, 27-30.

Liu, Z., Pagani, M., Zinniker, D., DeConto, R., Huber, M., Brinkhuis, H., Shah, S.R., Leckie, R.M. & Pearson, A. (2009) Global cooling during the Eocene-Oligocene climate transition. **Science** 323, 1187-1190.

Brierley, C.M., Fedorov, A.V., Liu, Z., Herbert, T.D., Lawrence, K.T. & LaRivere, J.P. (2009) Greatly expanded tropical warm pool and weakened Hadley circulation in the early Pliocene. **Science** 323, 1714-1718.

Liu, Z., Altabet, M.A. & Herbert T.D. (2008) Plio-Pleistocene denitrification in the eastern tropical North Pacific: Intensification at 2.1 Ma. **Geochemistry Geophysics Geosystems** 9, doi:10.1029/2008GC002044.

Liu, Z., Cleaveland, L.C. & Herbert T.D. (2008) Early onset and origin of 100-kyr cycles in tropical SST Pleistocene records. **Earth and Planetary Science Letters** 265, 703-715.

Liu, Z. & Huang, Y. (2008) Hydrogen isotopic compositions of plant leaf lipids are unaffected by a two-fold pCO₂ changes in growth chambers. **Organic Geochemistry** 39, 478-482.

Liu, Z., Henderson, A.C.G. & Huang, Y. (2008) Regional moisture source changes inferred from late Holocene stable isotopic records. **Advances in Atmospheric Sciences** 25, 1-8.

Liu, W., Liu, Z., Fu, M. & An, Z. (2008) Distribution of the C37 tetra-unsaturated alkenone in Lake Qinghai, China: A potential lake salinity indicator. **Geochimica et Cosmochimica Acta** 72, 988-997.

D'Andrea, W.J., Liu, Z., Da Rosa Alexandre, M., Wattley, S., Herbert, T.D. & Huang, Y. (2007) An efficient method for isolating individual long-chain alkenones for compound-specific hydrogen isotope analysis. **Analytical Chemistry** 79, 3430-3435.

Lawrence, K.T., Liu, Z. & Herbert, T.D. (2006) Evolution of the eastern equatorial Pacific through Plio-Pleistocene glaciation. **Science** 312, 79-83.

Liu, Z., Henderson, A.C.G. & Huang, Y. (2006) Alkenone-based reconstruction of late-Holocene surface temperature and salinity changes in Lake Qinghai, China. **Geophysical Research Letters** 33, doi: 10.1029/2006GL026151.

Liu, Z., Altabet, M.A. & Herbert T.D. (2005) Glacial-interglacial modulation of Eastern Tropical North Pacific denitrification over the last 1.8-Myr, **Geophysical Research Letters** 32, L23607, doi: 10.1029/2005GL024439.

Liu, Z. & Herbert, T.D. (2004) High-latitude influence on the eastern equatorial Pacific climate in the early Pleistocene epoch. **Nature** 427, 720-723.