

NEWSLETTER GEOBRASIL **(www.geobrasil.net)**

?? NATURE

Climate change: Snow maker for the ice ages 809

KATHARINA BILLUPS

In the Northern Hemisphere, large-scale glaciation was initiated comparatively recently. Paradoxically, it seems that the trigger was a seasonal warming of the sea surface in an upwind oceanic region.

doi: 10.1038/433809a

Planetary science: Being there 814

KEVIN ZAHNLE

The protoplanets that collided to make the Earth may themselves have had atmospheres and oceans. Venus has vastly more argon and neon than Earth: fossil evidence, perhaps, of protoplanetary atmospheres?

doi: 10.1038/433814b

North Pacific seasonality and the glaciation of North America 2.7 million years ago 821

GERALD H. HAUG, et al.

doi: 10.1038/nature03332

Enhanced atmospheric loss on protoplanets at the giant impact phase in the presence of oceans 842

HIDENORI GENDA AND YUTAKA ABE

doi: 10.1038/nature03360

Lithospheric structure of the Rio Grande rift 851

DAVID WILSON, et al.

doi: 10.1038/nature03297

Counter-rotating microplates at the Galapagos triple junction 855

EMILY M. KLEIN, DEBORAH K. SMITH, CLARE M. WILLIAMS & HANS SCHOUTEN

doi: 10.1038/nature03262

New evidence on deinonychosaurian dinosaurs from the Late Cretaceous of Patagonia 858

FERNANDO E. NOVAS AND DIEGO POL

doi: 10.1038/nature03285

Prokaryotic cells of the deep sub-seafloor biosphere identified as living bacteria 861

AXEL SCHIPPERS, et al.

doi: 10.1038/nature03302

?? SCIENCE

Pneumoconiosis after sericite inhalation

E Algranti, A M Handar, P Dumortier, E M C Mendonca, G L Rodrigues, A M A Santos, T Mauad, M Dolhnikoff, P De Vuyst, P H N Saldiva, and M A Bussacos

Occup. Environ. Med. 2005; 62(3): p. e2

<http://oem.bmjournals.com/cgi/content/abstract/62/3/e2?ct>

The cultural landscape of interplanetary space
Alice Gorman

Journal of Social Archaeology. 2005; 5(1): p. 85-107
<http://jsa.sagepub.com/cgi/content/abstract/5/1/85?ct>

Embedded Non-destructive Evaluation for Structural Health Monitoring,
Damage Detection, and Failure Prevention
Victor Giurgiutiu and Adrian Cuc

The Shock and Vibration Digest. 2005; 37(2): p. 83-105
<http://svd.sagepub.com/cgi/content/abstract/37/2/83?ct>

Rainfall exclusion in an eastern Amazonian forest alters soil water
movement and depth of water uptake

Hugo Romero-Saltos, Leonel da S. L. Sternberg, Marcelo Z. Moreira, and
Daniel C. Nepstad

Am. J. Bot. 2005; 92(3): p. 443-455
<http://www.amjbot.org/cgi/content/abstract/92/3/443?ct>

Correlation but no causation between leaf nitrogen and maximum assimilation: the role
of drought and reproduction in gas exchange in an
understorey tropical plant *Miconia ciliata* (Melastomataceae)

Debora V. Aragao, Lucas B. Fortini, Stephen S. Mulkey, Daniel J.
Zarin, Maristela M. Araujo, and Claudio J. R. de Carvalho

Am. J. Bot. 2005; 92(3): p. 456-461
<http://www.amjbot.org/cgi/content/abstract/92/3/456?ct>

Hard superconducting nitrides

Xiao-Jia Chen, Viktor V. Struzhkin, Zhigang Wu, Maddury Somayazulu,
Jiang Qian, Simon Kung, Axel Norlund Christensen, Yusheng Zhao, Ronald
E. Cohen, Ho-kwang Mao, and Russell J. Hemley

Proc. Natl. Acad. Sci. USA published 22 February 2005,
10.1073/pnas.0500174102
<http://www.pnas.org/cgi/content/abstract/0500174102v1?ct>

Ecosystem recovery after climatic extremes enhanced by genotypic diversity

Thorsten B. H. Reusch, Anneli Ehlers, August Hammerli, and Boris Worm
Proc. Natl. Acad. Sci. USA. 2005; 102(8): p. 2826-2831

<http://www.pnas.org/cgi/content/abstract/102/8/2826?ct>

Sulfide binding is mediated by zinc ions discovered in the crystal
structure of a hydrothermal vent tubeworm hemoglobin

Jason F. Flores, Charles R. Fisher, Susan L. Carney, Brian N. Green,
John K. Freytag, Stephen W. Schaeffer, and William E. Royer, Jr.

Proc. Natl. Acad. Sci. USA. 2005; 102(8): p. 2713-2718
<http://www.pnas.org/cgi/content/abstract/102/8/2713?ct>

PRELIMINARY SURVEY OF OUTDOOR GAMMA DOSE RATES IN LESVOS ISLAND (GREECE)

Anastasios B. Petalas, Efstratios Vogiannis, Dimitrios Nikolopoulos,
and Constantinos P. Halvadakis

Radiat. Prot. Dosimetry published 22 February 2005, 10.1093/rpd/nch455
<http://rpd.oupjournals.org/cgi/content/abstract/nch455v1?ct>

The Sounds of Science: Listening to Laboratory Practice

Cyrus C. M. Mody

Science Technology Human Values. 2005; 30(2): p. 175-198

<http://sth.sagepub.com/cgi/content/abstract/30/2/175?ct>

Genetic Differentiation Among Populations of the Salt Marsh Beetle *Pogonus littoralis* (Coleoptera: Carabidae): A Comparison Between Atlantic and Mediterranean Populations

H. Dhuyvetter, E. Gaublonne, P. Verdyck, and K. Desender

J. Hered. published 24 February 2005, 10.1093/jhered/esi040

<http://jhered.oupjournals.org/cgi/content/abstract/esi040v1?ct>

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