

NEWSLETTER GEOBRASIL (www.geobrasil.net)

• NATURE

Glaciers lost 673

EUAN NISBET reviews Frozen Earth: The Once and Future Story of Ice Ages by Doug Macdougall

A winter's tale tackles the rise and fall of ice ages.

doi: 10.1038/432673a

On the record 674

doi: 10.1038/432674a

Planetary science: Volcanoes on Quaoar? 681

DAVID J. STEVENSON

Quaoar, a large body in the Kuiper belt, has crystalline water ice on its surface, yet conditions there should favour amorphous ice. Does this mean that resurfacing has taken place — perhaps even volcanism?

doi: 10.1038/432681a

Climate change: Tropical flip-flop connections 684

JOHN C. H. CHIANG AND ATHANASIOS KOUTAVAS

A long climatic record shows that episodic wet periods in northeastern Brazil are linked to distant climate anomalies. The ocean–atmosphere system can evidently undergo rapid and global reorganization.

doi: 10.1038/432684a

Crystalline water ice on the Kuiper belt object (50000) Quaoar 731

DAVID C. JEWITT AND JANE LUU

doi: 10.1038/nature03111

Routing of anisotropic spatial solitons and modulational instability in liquid crystals 733

MARCO PECCIANI, CLAUDIO CONTI, GAETANO ASSANTO, ANTONIO DE LUCA & CESARE UMETON

doi: 10.1038/nature03101

Wet periods in northeastern Brazil over the past 210 kyr linked to distant climate anomalies 740

XIANFENG WANG et al.

doi: 10.1038/nature03067

Spreading-rate dependence of melt extraction at mid-ocean ridges from mantle seismic refraction data 744

DANIEL LIZARRALDE, JAMES B. GAHERTY, JOHN A. COLLINS, GREG HIRTH & SANGMYUNG D. KIM

doi: 10.1038/nature03140

• SCIENCE

The Repetitive Landscape of the Chicken Genome Thomas Wicker, Jon S. Robertson, Stefan R. Schulze, F. Alex Feltus, Vincent Magrini, Jason A. Morrison, Elaine R. Mardis,

Richard K. Wilson, Daniel G. Peterson, Andrew H. Paterson, and Robert Ivarie Genome Res. published 8 December 2004, 10.1101/gr.2438004
<http://www.genome.org/cgi/content/abstract/gr.2438004v2?ct>

RADON HAZARD AND RISK IN SUSSEX, ENGLAND AND THE FACTORS AFFECTING RADON LEVELS IN DWELLINGS IN CHALK TERRAIN I. R. Killip Radiat. Prot. Dosimetry published 7 December 2004, 10.1093/rpd/nch436
<http://rpd.oupjournals.org/cgi/content/abstract/nch436v1?ct>

Laura R Croal, Jeffrey A Gralnick, Davin Malasarn, and Dianne K Newman THE GENETICS OF GEOCHEMISTRY. Annu Rev Genet 1 Dec 2004 38: p. 175.
<http://highwire.stanford.edu/cgi/medline/pmid:15568975>

EY Zeng, D Tsukada, and DW Diehl Development of a solid-phase microextraction-based method for sampling of persistent chlorinated hydrocarbons in an urbanized coastal environment. Environ Sci Technol 1 Nov 2004 38(21): p. 5737.
<http://highwire.stanford.edu/cgi/medline/pmid:15575294>

EM Galimov Phenomenon of life: between equilibrium and non-linearity. Orig Life Evol Biosph 1 Dec 2004 34(6): p. 599.
<http://highwire.stanford.edu/cgi/medline/pmid:15570710>

PR Christensen, MB Wyatt, TD Glotch, AD Rogers, S Anwar, RE Arvidson, JL Bandfield, DL Blaney, C Budney, WM Calvin, A Fallacaro, RL Fergason, N Gorelick, TG Graff, VE Hamilton, AG Hayes, JR Johnson, AT Knudson, HY McSween Jr, GL Mehall, LK Mehall, JE Moersch, RV Morris, MD Smith, SW Squyres, SW Ruff, and MJ Wolff Mineralogy at Meridiani Planum from the Mini-TES Experiment on the Opportunity Rover. Science 3 Dec 2004 306(5702): p. 1733. <http://highwire.stanford.edu/cgi/medline/pmid:15576609>

T Boonfueng, L Axe, and Y Xu Properties and structure of manganese oxide-coated clay. J Colloid Interface Sci 1 Jan 2005 281(1): p. 80.
<http://highwire.stanford.edu/cgi/medline/pmid:15567383>

K Mashal, JB Harsh, M Flury, AR Felmy, and H Zhao Colloid formation in Hanford sediments reacted with simulated tank waste. Environ Sci Technol 1 Nov 2004 38(21): p. 5750. <http://highwire.stanford.edu/cgi/medline/pmid:15575296>

N Kantiranis Re-cycling of sugar-ash: a raw feed material for rotary kilns. Waste Manag 1 Jan 2004 24(10): p. 999. <http://highwire.stanford.edu/cgi/medline/pmid:15567665>

J Parnell Mineral radioactivity in sands as a mechanism for fixation of organic carbon on the early Earth. Orig Life Evol Biosph 1 Dec 2004 34(6): p. 533.
<http://highwire.stanford.edu/cgi/medline/pmid:15570707>

YP Chin, PL Miller, L Zeng, K Cawley, and LK Weavers Photosensitized degradation of bisphenol A by dissolved organic matter. Environ Sci Technol 15 Nov 2004 38(22): p. 5888. <http://highwire.stanford.edu/cgi/medline/pmid:15573586>

X Li, TD Scheibe, and WP Johnson Apparent decreases in colloid deposition rate coefficients with distance of transport under unfavorable deposition conditions: a general phenomenon. Environ Sci Technol 1 Nov 2004 38(21): p. 5616.
<http://highwire.stanford.edu/cgi/medline/pmid:15575280>

A Gerst and MK Savage Seismic anisotropy beneath Ruapehu volcano: a possible eruption forecasting tool. Science 26 Nov 2004 306(5701): p. 1543.
<http://highwire.stanford.edu/cgi/medline/pmid:15567860>

Recep Avci, Mary Schweitzer, Robert D Boyd, Jennifer Wittmeyer, Andrew Steele, Jan Toporski, Iwona Beech, Fernando Teran Arce, Brenda Spangler, Kelly M Cole, and David S McKay Comparison of Antibody-Antigen Interactions on Collagen Measured by Conventional Immunological Techniques and Atomic Force Microscopy. Langmuir 7 Dec 2004 20(25): p. 11053. <http://highwire.stanford.edu/cgi/medline/pmid:15568858>

E Stokstad Society of Vertebrate Paleontology meeting. Snapshots from the meeting. Science 26 Nov 2004 306(5701): p. 1467. <http://highwire.stanford.edu/cgi/medline/pmid:15567834>

E Stokstad Society of Vertebrate Paleontology meeting. Timing complicates history of horses. Science 26 Nov 2004 306(5701): p. 1467. <http://highwire.stanford.edu/cgi/medline/pmid:15567833>

E Stokstad Society of Vertebrate Paleontology meeting. Antiextinction tip: eat to live. Science 26 Nov 2004 306(5701): p. 1466. <http://highwire.stanford.edu/cgi/medline/pmid:15567832>

E Stokstad Society of Vertebrate Paleontology meeting. Head games show whether dinos went on two legs or four. Science 26 Nov 2004 306(5701): p. 1466. <http://highwire.stanford.edu/cgi/medline/pmid:15567831>

LM Chiappe, L Codorniu, G Grellet-Tinner, and D Rivarola Palaeobiology: Argentinian unhatched pterosaur fossil. Nature 2 Dec 2004 432(7017): p. 571. <http://highwire.stanford.edu/cgi/medline/pmid:15577899>

The people interested in receiving our newsletter through mail, can write to acfonseca@geobrasil.net or revistadegeologia@yahoo.com.br

****Le persone interessate in ricevere la nostra newsletter tramite e-mail, possono scrivere ad acfonseca@geobrasil.net ou revistadegeologia@yahoo.com.br.*