

NEWSLETTER GEOBRASIL

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- **NATURE**

Climate change: Hot news from summer 2003 559

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The European heatwave of 2003: was it merely a rare meteorological event or a first glimpse of climate change to come? Probably both, is the answer, and the anthropogenic contribution can be quantified.

doi: 10.1038/432559a

Information science: Quantum errors corrected 560

ANDREW STEANE

The phrase 'quantum error correction' might sound like a technical fix to a device that ought to be working better. But it is in fact a fascinating piece of fundamental physics with powerful implications.

doi: 10.1038/432560a

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doi: 10.1038/432571a

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Atmospheric science: Tropospheric temperature series from satellites

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doi: 10.1038/nature03208

Atmospheric science: Stratospheric cooling and the troposphere

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doi: 10.1038/nature03209

Atmospheric science: Stratospheric cooling and the troposphere (reply)

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doi: 10.1038/nature03210

- **SCIENCE**

Characterization of C1-Metabolizing Prokaryotic Communities in Methane Seep Habitats at the Kuroshima Knoll, Southern Ryukyu Arc, by Analyzing pmoA, mmoX, mxaF, mcrA, and 16S rRNA Genes Fumio Inagaki, Urumu Tsunogai, Masae Suzuki, Ayako Kosaka, Hideaki Machiyama, Ken Takai, Takuro Nunoura, Kenneth H. Nealson, and Koki Horikoshi *Appl. Environ. Microbiol.* 2004; 70(12): p. 7445-7455
<http://aem.asm.org/cgi/content/abstract/70/12/7445?ct>

Molecular Characterization of a Dechlorinating Community Resulting from In Situ Biostimulation in a Trichloroethene-Contaminated Deep, Fractured Basalt Aquifer and

Comparison to a Derivative Laboratory Culture Tamzen W. Macbeth, David E. Cummings, Stefan Spring, Lynn M. Petzke, and Kent S. Sorenson, Jr. *Appl. Environ. Microbiol.* 2004; 70(12): p. 7329-7341 <http://aem.asm.org/cgi/content/abstract/70/12/7329?ct>

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Evolution of xylem lignification and hydrogel transport regulation C. Kevin Boyce, Maciej A. Zwieniecki, George D. Cody, Chris Jacobsen, Sue Wirick, Andrew H. Knoll, and N. Michele Holbrook *Proc. Natl. Acad. Sci. USA* published 1 December 2004, 10.1073/pnas.0408024101 <http://www.pnas.org/cgi/content/abstract/0408024101v1?ct>

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