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This computer visualization of global stratospheric ozone levels for 1 October 1991 highlights the Antarctic ozone hole (thin, dark blue region on lower globe). Powerful computer models are heating up research climates in molecular biology, chemistry, materials science, physics, and math—see the 19-page special report (page 44) and Bell’s Perspective (page 64). [Image: Lloyd A. Treinish, using IBM’s POWER Visualization System on data from NASA/Goddard’s National Space Science Data Center]

RESEARCH ARTICLE

Oceanic Uptake of Fossil Fuel CO₂: Carbon-13 Evidence
P. D. Quay, B. Tilbrook, C. S. Wong

Reports

Diamond from the Dabies Shan Metamorphic Rocks and Its Implication for Tectonic Setting
Xu Shuting, A. I. Okay, Ji Shouyuan, A. M. C. Sengör, Su Wen, Liu Yician, Jiang Laili

Variations in Strength and Slip Rate Along the San Andreas Fault System
C. H. Jones and S. G. Wesnousky

Rejection of the “Flying Primate” Hypothesis by Phylogenetic Evidence from the ε-Globin Gene
W. J. Bailey, J. L. Slightom, M. Goodman

Maternal-Effect Selfish Genes in Flour Beetles
R. W. Beeman, K. S. Friesen, R. E. Denell

A Conformation of Cyclosporin A in Aqueous Environment Revealed by the X-ray Structure of a Cyclosporin-Fab Complex
D. Altschuh, O. Vix, B. Rees, J.-C. Thierry

Competition for Overlapping Sites in the Regulatory Region of the Drosophila Gene and KniI
M. Hoch, N. Gerwin, H. Taubert, H. Jäckle

Molecular Cloning of the Interleukin-1β Converting Enzyme

Balancing Selection at Allozyme Loci in Oysters: Implications from Nuclear RFLPs
S. A. Karl and J. C. Avise

Identification of ras Oncogene Mutations in the Stool of Patients with Curable Colorectal Tumors
D. Sidransky, T. Tokino, S. R. Hamilton, K. W. Kinzler, B. Levin, P. Frost, B. Vogelstein

CD19: Lowering the Threshold for Antigen Receptor Stimulation of B Lymphocytes
R. H. Carter and D. T. Fearon

Participation of Non–Zinc Finger Residues in DNA Binding by Two Nuclear Orphan Receptors
T. E. Wilson, R. E. Paulsen, K. A. Padgett, J. Milbrandt

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