
EDITORIAL Upgrading Policy Analysis: The NSF Role: M. G. Morgan

ARTICLES Oceanographic Events During El Niño: M. A. Cane
Biological Consequences of El Niño: R. T. Barber and F. P. Chavez

NEWS AND COMMENT How to Win Buildings and Influence Congress
The Pentagon's Ambitious Computer Plan
Historians Deplore Classification Rules
Briefing: Government Wins Appeal in Lawsuit on Fallout; Private Groups Enunciate "Baby Doe" Principles; EPA Tightens Pesticide, Toxic Chemical Testing; Yellow Rain on Darwin's White Roses

RESEARCH NEWS Debate on Learning Theory Is Shifting
Is the Orangutan a Living Fossil?
Another Promising Code Falls
BOOK REVIEWS

Man and Environment in the Great Basin, reviewed by C. N. Warren; Nursing History, V. G. Drachman; High-Latitude Space Plasma Physics, R. L. Lysak; Geochemistry of Sedimentary Ore Deposits, W. D. Goodfellow; Books Received .......................................................... 1225

REPORTS

Ethane Ocean on Titan: J. I. Lunine, D. J. Stevenson, Y. L. Yung .................. 1229

Heat Transfer in Magma in situ: J. C. Dunn, C. R. Carrigan, R. P. Wemple ...... 1231


A Climatic Freshening of the Deep Atlantic North of 50°N over the Past 20 Years: P. G. Brewer et al. ................................. 1237

Identification of the Receptor for Antigen and Major Histocompatibility Complex on Human Inducer T Lymphocytes: S. C. Meuer et al. .................. 1239

Bromine Residue at Hydrophilic Region Influences Biological Activity of Aplysia toxin, a Tumor Promoter: K. Shimomura et al. .................. 1242

Nitrous Oxide Production in Nearshore Marine Sediments: S. P. Seitzinger, M. E. Q. Pilson, S. W. Nixon .................................. 1244

Ethanol Modulation of Opiate Receptors in Cultured Neural Cells: M. E. Charness, A. S. Gordon, J. Diamond .................. 1246


COVER

Climate anomalies during the Northern Hemisphere winter season (December 1982–February 1983) believed to be associated with the abnormally warm sea-surface temperatures in the equatorial Pacific Ocean. The white cloud symbol represents the region of enhanced rainfall and the streamlines with arrows represent circulation anomalies at the jet stream (about 10-kilometer) level. See page 1195. [Data from P. A. Arkin, Climate Analysis Center, National Oceanic and Atmospheric Administration, Washington, D.C.; analysis by J. M. Wallace, University of Washington, Seattle]