LETTERS

On a "Nuclear Winter": S. F. Singer; C. H. Kearny; R. P. Turco et al. ........... 356

EDITORIAL

Mission to Planet Earth: B. I. Edelson ......................... 367

ARTICLES

African Land-Cover Classification Using Satellite Data: C. J. Tucker,
J. R. G. Townshend, T. E. Goff ................................. 369
Prooxidant States and Tumor Promotion: P. A. Cerutti ......................... 375
Safety Concerns and Genetic Engineering in Agriculture: W. J. Brill ............ 381
Guidelines for Industry-Sponsored Research at Universities: R. D. Varri and
D. S. Kukich .................................................................. 385

NEWS AND COMMENT

A Fresh Start for Arms Negotiations .................................. 389
Study of Reye’s-Aspirin Link Raises Concerns ......................... 391
Agency Scraps Plan to Limit Ethylene Oxide .......................... 392
Briefing: Critical Materials Imports Vulnerable, OTA Warns; A New U.S.–Soviet
Manned Space Mission?; Medical Institute to Sell Hughes Aircraft; Louisiana
Judge Voids Creationism Law; Academy to Reopen Soviet Exchange Program .... 394

RESEARCH NEWS

Momentum Builds for New Synchrotron Source .......................... 396
Red Queen Runs into Trouble? ........................................ 399
Eastern Quakes Pinned Down? ........................................ 400
BOOK REVIEWS
Perspectives on Plant Population Ecology, reviewed by D. W. Schemske; The Biology of Ground-Dwelling Squirrels, A. T. Smith; Seabird Energetics, C. Carey; Summing Up, D. W. Fiske; Books Received

REPORTS
Geologic Evidence for Recurrent Moderate to Large Earthquakes Near Charleston, South Carolina: S. F. Obermeier et al. .......... 408

Highly Supercooled Cirrus Cloud Water: Confirmation and Climatic Implications: K. Sassen et al. .............................. 411

Myosin: A Link Between Streptococci and Heart: K. Krisher and M. W. Cunningham ............................. 413

Reversal of Experimental Allergic Encephalomyelitis with Monoclonal Antibody to a T-Cell Subset Marker: M. K. Waldor et al. .................................................. 415


Disk-to-Disk Transfer as the Rate-Limiting Step for Energy Flow in Phycobilisomes: A. N. Glazer et al. ........................... 419


Amino Terminal Myristylation of the Protein Kinase p60src, a Retroviral Transforming Protein: A. M. Schultz et al. .............................. 427

Antibodies to Peptides Detect New Hepatitis B Antigen: Serological Correlation with Hepatocellular Carcinoma: A. M. Moriarty et al. ........................................ 429

Vaccinia Virus Recombinants: Expression of VSV Genes and Protective Immunization of Mice and Cattle: M. Mackett et al. ................................................................. 433

Fluorogenic Substrate Detection of Viable Intracellular and Extracellular Pathogenic Protozoa: P. R. Jackson, M. G. Pappas, B. D. Hansen .......................... 435

Ascorbic Acid and the Behavioral Response to Haloperidol: Implications for the Action of Antipsychotic Drugs: G. V. Rebec et al. ................................................. 438


COVER
Integrated spectral vegetation index for Africa from April 1982 to April 1983 representing the integrated green leaf biomass or density for the period. The tan, brown, and tan-orange colors represent small amounts of cumulative green leaf activity, the gold colors represent modest amounts, the greens higher amounts, and the reds and purples the highest amounts. See page 369. [NASA/Goddard Space Flight Center, Greenbelt, Maryland 20771]