LETTERS  Dangerous Trends: J. V. Mallow; Viroid Discovery: T. O. Diener  .................. 886

EDITORIAL  Stalking Innovation’s Woes .................................................. 889

ARTICLES  Can an Ape Create a Sentence?: H. S. Terrace et al. ......................... 891
  Restriction Endonucleases, Simian Virus 40, and the New Genetics:  
  D. Nathans .......................................................... 903

NEWS AND COMMENT  Shuttle Problems Compromise the Space Program ............. 910
  Briefing: Ex-President Disputes Election; CO₂ in Climate: Gloomsay 
  Predictions Have No Fault; Too Much Light May Be Shed on Body Public ... 912
  Earthlings at Odds over Moon Treaty .................................... 915

RESEARCH NEWS  New Treatment for Coronary Artery Disease ...................... 917
  A New Microscopic Tool for Biology .................................... 918

BOOK REVIEWS  Phylogenic Analysis and Paleontology, reviewed by M. J. Novacek;  
  J. B. Watson, R. J. Herrnstein; Behavioral Biology of Aplysia, 
  F. Krasne; Forgive and Remember, R. N. Wilson; Books Received. .... 920

REPORTS  Voyager 2 Encounter with the Jovian System: E. C. Stone and A. L. Lane .... 925
The Galilean Satellites and Jupiter: Voyager 2 Imaging Science Results:
B. A. Smith et al. ......................................................... 927
Discovery of a New Jupiter Satellite: D. C. Jewitt, G. E. Danielson,
S. P. Synnott ................................................................. 951
Infrared Observations of the Jovian System from Voyager 2: R. Hanel et al. .... 952
Photometric Observations of Jupiter at 2400 Angstroms: C. W. Hord et al. ......................................................... 956
Radio Science with Voyager at Jupiter: Initial Voyager 2 Results and a
Voyager 1 Measure of the Io Torus: V. R. Eshleman et al. ..................... 959
Extreme Ultraviolet Observations from Voyager 2 Encounter with Jupiter:
B. R. Sandel et al. .......................................................... 962
Magnetic Field Studies at Jupiter by Voyager 2: Preliminary Results:
N. F. Ness et al. ................................................................ 966
Plasma Observations Near Jupiter: Initial Results from Voyager 2:
H. S. Bridge et al. ......................................................... 972
Hot Plasma Environment at Jupiter: Voyager 2 Results: S. M. Krimigis et al. ................................................................. 977
Voyager 2: Energetic Ions and Electrons in the Jovian Magnetosphere:
R. E. Vogt et al. ................................................................ 984
Plasma Wave Observations Near Jupiter: Initial Results from Voyager 2:
D. A. Garnett, W. S. Kurth, F. L. Scarf ............................................. 987
Planetary Radio Astronomy Observations from Voyager 2 Near Jupiter:
J. W. Warwick et al. .................................................................. 991
Jupiter's Cloud Distribution Between the Voyager 1 and 2 Encounters: Results
from 5-Micrometer Imaging: R. J. Terrile et al. ........................................ 995

Products and Materials

Solvent Delivery Pump; Bacterial Plating System; Modal Analyzer; Digital
Measuring and Positioning Adaptor; Catalog of Immunological and Biological
Reagents; Color Display Terminal and Printer; Gas Absorption Cells;
Literature ................................................................. 998

Cover
Exaggerated-color mosaic of Voyager 2 images shows a variety of cloud structures in Jupiter's equatorial region. Of particular interest is the arcuate discontinuity in cloud patterns near the mosaic's right (eastern) edge. Orange and violet images which comprise the mosaic were taken at a range of $2.8 \times 10^4$ kilometers by Voyager 2 on 7 July 1979, about 60 hours prior to its closest approach. The mosaic's vertical dimension corresponds to a distance of about 34,000 kilometers on Jupiter. See page 938 for another version of this mosaic, with more nearly natural color. [Mosaics prepared by G. W. Garneau, Image Processing Laboratory, Jet Propulsion Laboratory, Pasadena, Calif.]
Science 206 (4421), 886-1000.