This Week in Science

9 1989 New Year's Resolution: Go to Heaven


17 Universities Fight Animal Activists
20 NIH Scientists Agonize Over Technology Transfer
21 NAE: Revamp Export Controls
Samuel Broder New Head of NCI
22 NSF Opens High-Speed Computer Network
24 Bush Makes Some Science Appointments

25 Is It Chaos, or Is It Just Noise? ■ The Onset of Chaos
28 How to Fix the Clouds in Greenhouse Models
29 Neurotoxicity Creates Regulatory Dilemma
30 Getting a Grip on Elliptic Curves
32 Random Samples: We Have Met the Enemy and It Is Us ■ Bagging the Albatross ■ The Fire (Ants) This Time

45 Protein Structure Determination in Solution by Nuclear Magnetic Resonance Spectroscopy: K. WOTTRICH
51 Innovative Approaches to Plasminogen Activator Therapy: E. HABER, T. QUERTERMOUS, G. R. MATSUEDA, M. S. RUNGE

57 Cloud-Radiative Forcing and Climate: Results from the Earth Radiation Budget Experiment: V. RAMANATHAN, R. D. CESS, E. F. HARRISON, P. MINNIS, B. R. BARKSTROM, E. AHMAD, D. HARTMANN
Depiction of the effect of clouds on the radiative heating of the planet as determined from the NASA Earth Radiation Budget Experiment. Regions where clouds have a cooling effect are shown in green and blue (dark blue, strongest effect). The cooling effect arises because the reflection of solar radiation by clouds exceeds their greenhouse effect. In yellow regions the two effects nearly cancel; rust indicates slight heating. Globally, the satellite data revealed that clouds have a large cooling effect on the radiation budget of the planet. See page 57. [V. Ramanathan et al., Department of Geophysical Sciences, University of Chicago, IL 60637; color images processed at NASA Langley Research Center, Hampton, VA 23665]