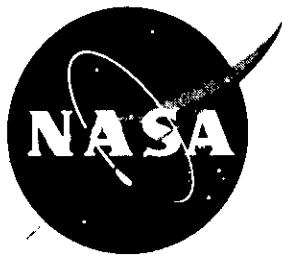




Space Sciences Laboratory Publications and Presentations January 1–December 31, 1994

Compiled by
T.W. Moorehead



Space Sciences Laboratory Publications and Presentations January 1–December 31, 1994

Compiled by
T.W. Moorehead
Marshall Space Flight Center • MSFC, Alabama

National Aeronautics and Space Administration
Marshall Space Flight Center • MSFC, Alabama 35812

TABLE OF CONTENTS

	Page
NASA REPORTS	
Special Publication	1
Conference Publication	1
Technical Memorandum	1
OPEN LITERATURE	
Refereed Journal Articles	3
Contributions to Books, Conference Proceedings, Etc.	14
Published Abstracts	35
PRESENTATIONS	44
APPENDIX: SSL Preprints	57
SSL AUTHOR INDEX.....	59

NASA REPORTS

Special Publication

1. X-Ray and Gamma Ray Astronomy Detectors, NASA SP-517, 1994. R. Decher, B. D. Ramsey, and R. Austin. (ES84)

Conference Publication

1. Joint Launch + One Year Science Review of USML-1 and USMP-1 with the Microgravity Measurement Group. NASA CP-3272, Vols. I and II, May 1994. N. Ramachandran, D. O. Frazier, S. L. Lehoczky, and C. R. Baugher. (ES75)

Technical Memorandum

1. MAMS Data for the Convection and Moisture Experiment (CAMEX). NASA TM-108435, January 1994. A. R. Guillory, G. J. Jedlovec, and R. J. Atkinson. (ES43)
2. Survey of Visualization and Analysis Tools. NASA TM-108436, January 1994. P. J. Meyer. (ES44)
3. A Survey of Geographical Information Systems Applications for the Earth Science and Applications Division, Space Sciences Laboratory, Marshall Space Flight Center. NASA TM-108438, February 1994. D. Rickman, K. A. Butler, and C. A. Laymon. (ES44)
4. Inter-Comparison of Wildfire and High-Resolution Interferometer Sounder (HIS) Data from STORM-FEST: An Investigation of Wildfire Spectral Channel Discrepancies. NASA TM-108439, March 1994. G. J. Jedlovec and G. S. Carlson. (ES43)
5. Operations Summary for the Convection and Moisture Experiment (CAMEX). NASA TM-108445, March 1994. V. L. Griffin, A. R. Guillory, M. Susko, and J. E. Arnold. (ES43)
6. NASA Marshall Space Flight Center Solar Observatory Report—July–October 1993. NASA TM-108448, April 1994. J. E. Smith. (ES82)
7. Ampoule Failure Sensor Time Response Testing-Experiment 1. NASA TM-108449, April 1994. M. L. Johnson and D. A. Watring. (ES75)

Technical Memorandum (concluded)

8. Space Sciences Laboratory Publications and Presentations—January 1-December 31, 1993. NASA TM-108450, April 1994. T. W. Moorehead (Compiler). (ES02)
9. National Aerospace Plane (NASP) X-30 Natural Environment Requirements Document (Rev. 1.0). NASA TM-108451, April 1994. D. L. Johnson. (ES44)
10. Ampoule Failure Sensor Time Response Testing—Experiments 2 and 3. NASA TM-108458, June 1994. M. L. Johnson and D. A. Watring. (ES75)
11. Dynamics Explorer 1, Retarding Ion Mass Spectrometer Summary Spectrograms—81/280 to 81/365 Spin-Time Spectrograms for H⁺, He⁺, O⁺, N⁺, O⁺⁺, M/Z=2, and Molecular Ions. NASA TM-108462, July 1994. DE 1/RIMS Investigators; B. L. Giles, point of contact. (ES83)
12. Dynamics Explorer 1, Retarding Ion Mass Spectrometer Summary Spectrograms—82/001 to 82/109 Spin-Time Spectrograms for H⁺, He⁺, O⁺, N⁺, O⁺⁺, M/Z=2, and Molecular Ions. NASA TM-108468, October 1994. DE 1/RIMS Investigators; B. L. Giles, point of contact. (ES83)
13. NASA Marshall Space Flight Center Solar Observatory Report, March-May 1994. NASA TM-108471, December 1994. J. E. Smith. (ES82)

OPEN LITERATURE

Refereed Journal Articles

1. Aircraft Electric Field Measurements: Calibration and Ambient Field Retrieval. *J. Geophys. Res.*, 99(D11), 22,781-22,792 (1994). W. J. Koshak, J. Bailey, H. J. Christian, and D. M. Mach. (ES43)
2. Ampoule Failure Sensor Development for Semiconductor Crystal Growth Experiments. *J. Crys. Growth*, 140, 41-44 (1994). D. A. Watring and M. Johnson. (ES75)
3. ATLAS Space Shuttle Studies Earth's Atmosphere and Solar Input. *Eos*, 75(29), 321-322 (1994). T. L. Miller, S. A. Smith, and J. A. Kaye. (ES42)
4. BATSE Gamma-Ray Burst Line Search. I. Search for Narrow Lines in Spectroscopy Detector Data. *Astrophys. J. Lett.*, 433, L77-L80 (1994). D. M. Palmer, B. J. Teegarden, B. E. Schaefer, T. L. Cline, D. L. Band, L. A. Ford, J. L. Matteson, W. S. Paciesas, G. N. Pendleton, M. S. Briggs, R. D. Preece, G. J. Fishman, C. A. Meegan, R. B. Wilson, and J. P. Lestrade. (ES84)
5. BATSE Observations of the Very Intense Gamma-Ray Burst GRB 930131. *Astrophys. J. Lett.*, 422, L59-L62 (1994). C. Kouveliotou, R. Preece, N. Bhat, G. J. Fishman, C. A. Meegan, J. M. Horack, M. S. Briggs, W. S. Paciesas, G. N. Pendleton, D. Band, J. Matteson, D. Palmer, B. Teegarden, and J. P. Norris. (ES84)
6. BATSE Results on Observational Properties of Gamma-Ray Bursts. *Astrophys. J. Suppl.*, 92, 637-642 (1994). C. Kouveliotou. (ES84)
7. BATSE Spectroscopy Catalog of Bright Gamma-Ray Bursts. *Astrophys. J. Suppl.*, 92, 285-310 (1994). B. E. Schaefer, G. J. Fishman, C. A. Meegan, R. B. Wilson, W. S. Paciesas, G. N. Pendleton, M. S. Briggs, et al. (ES81)
8. Is Bioluminescent Turbulence an Example of Self-Organized Criticality? *Phys. Lett. A*, 189, 176-180 (1994). D. Noever and R. Cronise. (ES76)
9. The Boundary Structure of Low-Energy Ions Associated with the Nightside Convection Reversal. *J. Geophys. Res.*, 99(A6), 11,401-11,409 (1994). C. Liu, J. D. Perez, T. E. Moore, and C. R. Chappell. (ES83)
10. Centrifugal Acceleration of the Polar Wind. *J. Geophys. Res.*, 99(A8), 15,051-15,064 (1994). J. L. Horwitz, C. W. Ho, H. D. Scarbro, G. R. Wilson, and T. E. Moore. (ES83)
11. Charge Transfer in Helium-Rich Supernova Plasma. *Astrophys. J.*, 428, 267-274 (1994). D. A. Swartz. (ES84)

Refereed Journal Articles (continued)

12. Chromospherically Active Stars. XII. ADS 11060 C: A Double Lined K Dwarf Binary in a Quintuple System. *Astronomical J.*, 108(2), 694-700 (1994). F. C. Fekel, G. W. Henry, M. L. Hampton, R. Fried, and M. D. Morton. (ES82)
13. Chromospherically Active Stars. XIII. HD 30957: A Double Lined K Dwarf Binary. *Astronomical J.*, 108(5), 1936-1939 (1994)., F. C. Fekel, V. Dadonas, J. Sperauskas, T. R. Vaccaro, and L. R. Patterson. (ES82)
14. Coarsening of Three-Dimensional Droplets by Two-Dimensional Diffusion: Part I. Experiment. *J. Electronic Matrls.*, 23(10), 999-1006 (1994). J. R. Rogers, J. P. Downey, W. K. Witherow, B. R. Facemire, D. O. Frazier, et al. (ES76)
15. Coarsening of Three-Dimensional Droplets by Two-Dimensional Diffusion: Part II. Theory. *J. Electronic Matrls.*, 23(10), 1007-1013 (1994). V. E. Fradkov, J. R. Rogers, J. P. Downey, W. K. Witherow, B. R. Facemire, D. O. Frazier, et al. (ES76)
16. The Color Temperature of (2060) Chiron: A Warm and Small Nucleus. *Astronomical J.*, 108(6), 2318-2322 (1994). H. Campins, C. M. Telesco, D. J. Osip, G. H. Rieke, M. J. Rieke, and B. Schulz. (ES84)
17. A Comment on the Suspected Solar Neutrino-Solar Activity Connection. *Solar Phys.*, 149, 391-394 (1994). Robert M. Wilson. (ES82)
18. Comparison Between Liouville's Theorem and Observed Latitudinal Distributions of Trapped Ions in the Plasmapause Region. *J. Geophys. Res.*, 99(A2), 2191-2203 (1994). R. C. Olsen, L. J. Scott, and S. A. Boardsen. (ES83)
19. COMPTEL Measurements of the Gamma-Ray Burst GRB 930131. *Astrophys. J. Lett.*, 422, L67-L70 (1994). J. Ryan, G. J. Fishman, C. Kouveliotou, C. Meegan, et al. (ES81)
20. Computerized *in vitro* Test for Chemical Toxicity Based on *Tetrahymena* Swimming Patterns. *Chemosphere*, 29(6), 1373-1384 (1994). D. A. Noever, H. C. Matsos, R. J. Cronise, L. L. Looger, R. A. Relwani, and J. U. Johnson. (ES76)
21. A Conjectured Explanation for Room-Temperature Superconductivity in Narrow Channels in Oxidized Polypropylene. *J. Superconductivity*, 7(3), 679-682 (1994). D. M. Eagles. (ES76)
22. Constraints on Galactic Distributions of Gamma-Ray Burst Sources from BATSE Observations. *Astrophys. J.*, 422, 659-670 (1994). J. Hakkila, C. A. Meegan, G. N. Pendleton, G. J. Fishman, R. B. Wilson, W. S. Paciesas, M. N. Brock, and J. M. Horack. (ES84)

Refereed Journal Articles (continued)

23. Constraints on the Luminosity Function of Gamma-Ray Bursts Detected by BATSE. *Astrophys. J. Lett.*, 426, L5-L9 (1994). J. M. Horack, A. G. Emslie, and C. A. Meegan. (ES84)
24. Contributions of Low-Energy Ionospheric Protons to the Plasma Sheet. *J. Geophys. Res.*, 99(A4), 5681-5689 (1994). D. C. Delcourt, T. E. Moore, and C. R. Chappell. (ES83)
25. The Continuum Spectral Characteristics of Gamma-Ray Bursts Observed by BATSE. *Astrophys. J.*, 431, 416-424 (1994). G. N. Pendleton, W. S. Paciesas, M. S. Briggs, R. S. Mallozzi, T. M. Koshut, G. J. Fishman, C. A. Meegan, R. B. Wilson, B. A. Harmon, and C. Kouveliotou. (ES81)
26. Convecto-Diffusive Growth of Lead Bromide Crystals: A Test of Theories. *J. Crys. Growth*, 139, 158-164 (1994). N. B. Singh, S. L. Lehoczky, et al. (ES75)
27. Coupling of Microprocesses and Macroprocesses Due to Velocity Shear: An Application to the Low-Altitude Ionosphere. *J. Geophys. Res.*, 99(A5), 8873-8889 (1994). G. Ganguli, M. J. Keskinen, H. Romero, R. Heelis, T. Moore, and C. Pollock. (ES83)
28. The Crystal and Molecular Structure of an Asymmetric Diacetylene Monomer, 6-(2-Methyl-4-Nitroanilino)-2,4-Hexadiyn-1-ol. *Macromol. Chem. Phys.*, 195, 2791-2797 (1994). M. Vlasse and M. S. Paley. (ES76)
29. Crystallography of Rare Galactic Honeycomb Structure Near Supernova 1987A. *Astrophys. & Space Sci.*, 220, 65-74 (1994). David A. Noever. (ES76)
30. Continuous-Wave Laser Beam Fanning in Organic Solutions: A Novel Phenomenon. *Optics Lett.*, 19(24), 2068-2070 (1994). H. Abdeldayem, W. K. Witherow, A. Shields, B. Penn, D. O. Frazier, et al. (ES76)
31. DE 1 Observations of Polar O⁺ Stream Bulk Parameters and Comparison with a Model of the Centrifugally-Accelerated Polar Wind. *Geophys. Res. Lett.*, 21(23), 2459-2462 (1994). C. W. Ho, J. L. Horwitz, and T. E. Moore. (ES83)
32. Detection of Signature Consistent with Cosmological Time Dilation in Gamma-Ray Bursts. *Astrophys. J.*, 424, 540-545 (1994). J. P. Norris, R. J. Nemiroff, J. D. Scargle, C. Kouveliotou, G. J. Fishman, C. A. Meegan, W. S. Paciesas, and J. T. Bonnell. (ES84)
33. Diffusion Model for Lightning Radiative Transfer. *J. Geophys. Res.*, 99(D7), 14,361-14,391 (1994). W. J. Koshak, R. J. Solakiewicz, D. D. Phanord, and R. J. Blakeslee. (ES43)

Refereed Journal Articles (continued)

34. Discovery of Intense Gamma-Ray Flashes of Atmospheric Origin. *Science*, 264, 1313-1316 (1994). G. J. Fishman, P. N. Bhat, R. Mallozzi, J. M. Horack, T. Koshut, C. Kouveliotou, G. N. Pendleton, C. A. Meegan, R. B. Wilson, W. S. Paciesas, S. J. Goodman, and H. J. Christian. (ES81)
35. Dynamic Characteristics of the Partially Filled Rotating Dewar of the Gravity Probe-B Spacecraft. *Acta Astronautical*, 32(3), 199-209 (1994). R. J. Hung, C. C. Lee, and F. W. Leslie. (ES41)
36. The Effect of Heat Treatment on the Magnitude and Composition of Residual Gas in Sealed Silica Glass Ampoules. *J. Crys. Growth*, 142, 215-224 (1994). W. Palosz, F. R. Szofran, and S. L. Lehoczky. (ES75)
37. The Effects of Temperature and NaCl Concentration on Tetragonal Lysozyme Face Growth Rates. *J. Crys. Growth*, 139, 89-94 (1994). E. Forsythe and M. L. Pusey. (ES76)
38. The Effect of a Transverse Mangetic Field on the Microstructure of Directionally Solidified CdTe. *J. Crys. Growth*, 137, 201-207 (1994). M. W. Price, R. N. Andrews, C. H. Su, S. L. Lehoczky, and F. R. Szofran. (ES75)
39. Electrical Properties and Compositional Distributions of CVT and PVT Grown $Hg_{1-x}Cd_xTe$ Epilayers. *J. Electronic Matrls.*, 23(1), 25-29 (1994). Y.-G. Sha, M. P. Volz, and S. L. Lehoczky. (ES75)
40. An Experimental Study of the Flow Emerging from Porous Walls. *Experiments in Fluids*, 18, 119-128 (1994). N. Ramachandran, J. Heaman, and A. Smith. (ES75)
41. Field Response of Ultra-Thin Type II Superconducting Transmission Lines. *IEEE Trans. on Appl. Superconductivity*, 4(2), 65-75 (1994). R. E. Troxler, G. P. Rodrique, and P. N. Peters. (ES75)
42. Fine Structure of Low-Energy H^+ in the Nightside Auroral Region. *J. Geophys. Res.*, 99(A3), 4131-4141 (1994). C. Liu, J. D. Perez, T. E. Moore, C. R. Chappell, and J. A. Slavin. (ES83)
43. The First BATSE Gamma-Ray Burst Catalog. *Astrophys. J. Suppl.*, 92, 229-283 (1994). G. J. Fishman, C. A. Meegan, R. B. Wilson, M. N. Brock, J. M. Horack, C. Kouveliotou, S. Howard, W. S. Paciesas, M. S. Briggs, G. N. Pendleton, T. M. Koshut, R. S. Mallozzi, M. Stollberg, and J. P. Lestrade. (ES81)
44. The First WetNet Precipitation Intercomparison Project: Generation of Results. *Remote Sensing Rev.*, 11(1-4), 243-302 (1994). D. R. Kniveton, B. C. Motta, H. M. Goodman, M. Smith, and F. J. LaFontaine. (ES43)

Refereed Journal Articles (continued)

45. The First WetNet Precipitation Intercomparison Project: Interpretation of Results. *Remote Sensing Rev.*, 11(1-4), 49-60 (1994). E. C. Barrett, J. Dodge, H. M. Goodman, J. Janowiak, C. Kidd, and E. A. Smith. (ES43)
46. Fluid System Angular Momentum and Moment Fluctuations Driven by Gravity Gradient or Gravity Jitter in Microgravity. *Z. Flugwiss. Weltraumforsch.*, 18, 195-202 (1994). R. J. Hung, H. L. Pan, and F. W. Leslie. (ES41)
47. Foam Fractionation of Particles in Low Gravity. *J. Spacecr. & Roc.*, 31(2), 319-322 (1994). D. A. Noever. (ES76)
48. Formation of Tetragonal $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ from an Undercooled Melt. *J. Mater. Res.*, 9(1), 1-3 (1994). J. R. Olive, W. H. Hofmeister, R. J. Bayuzick, G. Carro, J. P. McHugh, R. H. Hopkins, M. Vlasse, J.K.R. Weber, P. C. Nordine, and M. McElfresh. (ES76)
49. Froth Instability in Small-Over-Large Bubble Lattices. *Physica D*, 71, 453-459 (1994). David A. Noever and Raymond J. Cronise. (ES76)
50. Gamma Ray Bursts Still a Mystery. *Nature*, 370, 26 (1994). C. Kouveliotou. (ES84)
51. Gamma-Ray Bursts are Time-Asymmetric. *Astrophys. J.*, 423, 432-435 (1994). R. J. Nemiroff, J. P. Norris, C. Kouveliotou, G. J. Fishman, C. A. Meegan, and W. S. Paciesas. (ES84)
52. Gross Spectral Differences Between Bright and Dim Gamma-Ray Bursts. *Astrophys. J. Lett.*, 435, L133 (1994). R. J. Nemiroff, J. P. Norris, J. T. Bonnell, W.A.D.T. Wickramasinghe, C. Kouveliotou, W. S. Paciesas, G. J. Fishman, and C. A. Meegan. (ES84)
53. Growth of Binary Organic NLO Crystals: m.NA-p.NA and m.NA-CNA Systems. *Materials Lett.*, 20(3,4), 203-210 (1994). T. Henningsen, D. O. Frazier, et al. (ES01)
54. High-Energy Gamma Rays from the Intense 1993 January 31 Gamma-Ray Burst. *Astrophys. J. Lett.*, 422, L63-L66 (1994). M. Sommer, G. J. Fishman, C. Kouveliotou, et al. (ES81)
55. High-Resolution Imaging of Rain Systems with the Advanced Microwave Precipitation Radiometer. *J. Atmos. & Oceanic Technol.*, 11(4), 849-857 (1994). R. W. Spencer, R. E. Hood, F. J. LaFontaine, E. A. Smith, R. Platt, J. Galliano, V. L. Griffin, and E. Lobl. (ES43)

Refereed Journal Articles (continued)

56. Implications of the BATSE Data for a Heliospheric Origin of Gamma-Ray Bursts. *Astrophys. J.*, 429, 319-324 (1994). J. M. Horack, T. M. Koshut, R. S. Mallozzi, S. D. Storey, and A. G. Emslie. (ES84)
57. Instrumentation for X-Ray Astronomy. *Space Sci. Rev.*, 69, 139-204 (1994). B. D. Ramsey, R. A. Austin, and R. Decher. (ES84)
58. Integral-Moment Analysis of the BATSE Gamma-Ray Burst Intensity Distribution. *Astrophys. J.*, 428, 620-628 (1994). J. M. Horack and A. G. Emslie. (ES84)
59. A Linear Method for Analyzing Lightning Field Changes. *J. Atmos. Sci.*, 51(4), 473-488 (1994). W. J. Koshak and E. P. Krider. (ES43)
60. Low-Energy Particle Signature of Substorm Dipolarization. *Geophys. Res. Lett.*, 21(3), 229-232 (1994). C. Liu, J. D. Perez, T. E. Moore, and C. R. Chappell. (ES83)
61. Low-Temperature Thermoluminescence of High-Temperature Superconductors. *J. Appl. Phys.*, 75, 2712-2714 (1994). S. Katz, M. Roth, J. Golben, and M. Vlasse. (ES76)
62. A Maskless Gamma-Ray All-Sky Imager: BATSE/CGRO. *IEEE Trans. Nucl. Sci.*, 41(4), 1313-1320 (1994). S. N. Zhang, G. J. Fishman, B. A. Harmon, W. S. Paciesas, C. A. Meegan, R. B. Wilson, M. H. Finger, and B. C. Rubin. (ES84)
63. Measurement and Analysis of Thermal Energy Responses from Discrete Urban Surfaces Using Remote Sensing Data. *Int. J. Remote Sensing*, 15(10), 1991-2022 (1994). D. A. Quattrochi and M. K. Ridd. (ES44)
64. Modeling the Arecibo Nighttime F₂ Layer. 2. Ionospheric Gradients. *J. Geophys. Res.*, 99(A12), 23,307-23,327 (1994). D. J. Melendez-Alvira, R. G. Burnside, and J.C.G. Walker. (ES83)
65. Multiple-Photon Emission in Heavy Particle Decays. *J. Phys. G*, 20(8), 1257-1266 (1994). K. Asakimori, M. J. Christl, J. H. Derrickson, W. F. Fountain, T. A. Parnell, F. E. Roberts, J. W. Watts, et al. (ES84)
66. Multiwavelength Observations of the Be Star/X-Ray Binary EXO2030+375 During Outburst. *M.N.R.A.S.*, 271(4), 981-992 (1994). A. J. Norton, D. Chakrabarty, M. J. Coe, C. Everall, M. H. Finger, T. A. Prince, P. Roche, M. T. Stollberg, and R. B. Wilson. (ES84)
67. Multiwavelength Observations of Hercules X-1/HZ Herculis. *Astrophys. J. Lett.*, 436, L9-L13 (1994). S. D. Vrtilek, R. B. Wilson, et al. (ES84)

Refereed Journal Articles (continued)

68. Network Synthesis Localization of Two Soft Gamma Repeaters. *Astrophys. J. Lett.*, 431, L31-L34 (1994). K. Hurley, M. Sommer, C. Kouveliotou, G. Fishman, C. Meegan, T. Cline, M. Boer, and M. Niel. (ES84)
69. New Method of Structural Functions for Analysing Fractal Scaling Properties of Natural Processes. *J. Phys. A: Math Gen.*, 27, L403-L409 (1994). V. I. Nikora, O. I. Nikora, D. A. Noever, and G. M. Smart. (ES76)
70. A New Path for the Electron Bulk Energization in Solar Flares: Fermi Acceleration by MHD Turbulence in Reconnection Outflows. *Astrophys. J.*, 425, 856-860 (1994). T. N. LaRosa, R. L. Moore, and S. N. Shore. (ES82)
71. Null Result in Gamma-Ray Burst Lensed Echo Search. *Astrophys. J.*, 432, 478 (1994). R. J. Nemiroff, W.A.D.T. Wickramasinghe, J. P. Norris, C. Kouveliotou, G. J. Fishman, C. A. Meegan, W. S. Paciesas, and J. Horack. (ES84)
72. Observation of GX 339-4 Hard State Outbursts in 1991 and 1992. *Astrophys. J. Lett.*, 425, L17-L20 (1994). B. A. Harmon, C. A. Wilson, W. S. Paciesas, G. N. Pendleton, M. S. Briggs, B. C. Rubin, M. H. Finger, G. J. Fishman, M. N. Brock, R. B. Wilson, and C. A. Meegan. (ES84)
73. Ocean-Atmosphere CO₂ Exchange: An Accessible Lab Simulation for Considering Biological Effects. *Climatic Change*, 27, 299-320 (1994). D. A. Noever, H. C. Matsos, R. J. Cronise, L. L. Looger, R. A. Relwani, and V. I. Nikora. (ES76)
74. One-Photon Annihilation of Thermal Positrons with Bound Atomic Electrons. *Astrophys. J.*, 424, 988-990 (1994). Young-Dae Jung. (ES84)
75. The Optical and X-Ray Content of the 1992 May 1 Gamma-Ray Burst Error Box. *Astrophys. J. Suppl.*, 92, 655-657 (1994). K. Hurley, C. Kouveliotou, G. Fishman, et al. (ES84)
76. Organic Chelation of Cadmium Using DI-PDMS: A Bioconvective Test for Protective Effects. *J. Environ. Sci. Health*, A29(7), 1283-1293 (1994). D. A. Noever, H. C. Matsos, L. L. Looger, M. M. Jones, and P. K. Singh. (ES76)
77. Oxidation of Copper by Fast Atomic Oxygen. *Oxidation of Metals*, 42(1/2), 1-15 (1994). G. N. Raikar, J. C. Gregory, and P. N. Peters. (ES75)
78. Photodeposition of Thin Polydiacetylene Films from Solution that Exhibit Large Third-Order Optical Nonlinearities. *Chem. of Matrls.*, 6(12), 2213-2215 (1994). M. S. Paley, D. O. Frazier, H. Abdeldayem, and S. P. McManus. (ES76)

Refereed Journal Articles (continued)

79. Photoluminescence of Vapor and Solution Grown ZnTe Single Crystals. *J. Crys. Growth*, 138, 219-224 (1994). Y. Biao, M. Azoulay, M. A. George, A. Burger, W. E. Collins, E. Silberman, C.-H. Su, M. P. Volz, F. R. Szofran, and D. C. Gillies. (ES75)
80. Preferred Negative Geotactic Orientation in Mobile Cells: Tetrahymena Results. *Biophys. J.*, 67, 2090-2095 (1994). D. A. Noever, R. Cronise, and H. C. Matsos. (ES76)
81. Producing the Solar Dynamo. *Eos*, 75(47), 548 (1994). D. H. Hathaway. (ES82)
82. Radio Imaging of the Magnetosphere. *Eos*, 75, 129-134 (1994). P. H. Reiff, J. L. Green, R. F. Benson, D. Carpenter, W. Calvert, S. F. Fung, D. Gallagher, B. Reinisch, M. F. Smith, and W.W.F. Taylor. (ES83)
83. Rapid Searches for Counterparts of GRB 930131. *Astrophys. J. Lett.*, 422, L71-L74 (1994). B. E. Schaefer, G. J. Fishman, C. Kouveliotou, C. A. Meegan, et al. (ES81)
84. The Rarity of Soft γ -Ray Repeaters Deduced from Reactivation of SGR1806-20. *Nature*, 368, 125-127 (1994). C. Kouveliotou, G. J. Fishman, C. A. Meegan, W. S. Paciesas, J. van Paradijs, J. P. Norris, R. D. Preece, M. S. Briggs, J. M. Horack, G. N. Pendleton, and D. A. Green. (ES84)
85. Reflection of Alfvén Waves in the Solar Wind. *J. Geophys. Res.*, 99(A12), 23,489-23,501 (1994). M. Krogulec, Z. E. Musielak, S. T. Suess, S. F. Nerney, and R. L. Moore. (ES82)
86. Results of a Five-Year Program of Multifrequency Monitoring of Low-Frequency Variable Radio Sources. *Astrophys. J. Suppl.*, 93, 441 (1994). K. J. Mitchell, B. Dennison, J. J. Condon, D. R. Altschuler, H. E. Payne, S. L. O'Dell, and J. J. Broderick. (ES84)
87. ROSAT Observations of the Jupiter Aurora. *J. Geophys. Res.*, 99(A8), 14,799-14,809 (1994). J. H. Waite, Jr., R. Elsner, et al. (ES84)
88. Screening Modification on the Trajectory of the Projectile Electron in the Electron-Ion Excitation in Dense Plasmas. *Phys. Plasmas*, 1(3), 789-792 (1994). Y.-D. Jung. (ES84)
89. A Search for Nonburst Emission from the Positions of Well-Localized Gamma-Ray Bursts. *Astrophys. J.*, 425, 776-781 (1994). J. M. Horack and A. G. Emslie. (ES84)

Refereed Journal Articles (continued)

90. A Search for the Radio Counterpart to the 1994 March 1 Gamma Ray Burst. *Astrophys. J. Lett.*, 437, L43-L46 (1994). D. A. Frail, G. J. Fishman, C. Kouveliotou, C. A. Meegan, et al. (ES81)
91. The Shape of the Sunspot Cycle. *Solar Phys.*, 151, 177-190 (1994). D. H. Hathaway, R. M. Wilson, and E. J. Reichmann. (ES82)
92. Solar Fine-Scale Structures in the Corona, Transition Region, and Lower Atmosphere. *Astrophys. J.*, 430, 913-924 (1994). D. Moses, J. W. Cook, J.-D. Bartoe, G. E. Brueckner, K. P. Dere, D. F. Webb, J. M. Davis, J. W. Harvey, F. Recely, S. F. Martin, and H. Zirin. (ES82)
93. Solar Granulation and Statistical Crystallography: A Modeling Approach Using Size-Shape Relations. *Astron. & Astrophys.*, 282(1), 252-261 (1994). D. A. Noever. (ES76)
94. Spacecraft to Explore the Outer Heliosphere. *Eos*, 75(50), 587 (1994). W. I. Axford and S. T. Suess. (ES82)
95. Spectral Evolution of a Subclass of Gamma-Ray Bursts Observed by BATSE. *Astrophys. J.*, 426, 604-611 (1994). P. N. Bhat, G. J. Fishman, C. A. Meegan, R. B. Wilson, C. Kouveliotou, W. S. Paciesas, G. N. Pendleton, and B. E. Schaefer. (ES84)
96. Static and Dynamic Scaling Properties of Single, Self-Avoiding Polymer Chains in Two Dimensions via the Bond Fluctuation Method of Monte Carlo Simulation. *Macromolecules*, 27(11), 2929-2932 (1994). J. P. Downey. (ES75)
97. Statistical Survey of Pitch Angle Distributions in Core (0-50 eV) Ions from Dynamics Explorer 1: Outflow in the Auroral Zone, Polar Cap, and Cusp. *J. Geophys. Res.*, 99(A9), 17,483-17,501 (1994). B. L. Giles, C. R. Chappell, T. E. Moore, R. H. Comfort, and J. H. Waite, Jr. (ES83)
98. Statistical Uncertainties in Temperature Diagnostics for Hot Coronal Plasma Using the ASCA SIS. *Astrophys. J. Lett.*, 435, L149-L152 (1994). D. A. Swartz, S. L. O'Dell, M. E. Sulkanen, and A. F. Tennant, Jr. (ES84)
99. Statistics of Low-Density Microcellular Materials. *J. Mater. Res.*, 9(2), 515-522 (1994). David A. Noever. (ES76)
100. Synchrotron Topography Characterization of ZnTe Single Crystals. *Materials Science & Engineering*, B27, 143-153 (1994). W. Zhou, M. Dudley, J. Wu, C.-H. Su, M. P. Volz, D. C. Gillies, F. R. Szofran, and S. L. Lehoczky. (ES75)

Refereed Journal Articles (continued)

101. Three-Dimensional Numerical Investigation of Gravitational and Solutal Effects in a Cylindrical Cell. *J. Spacecr. & Roc.*, 31(2), 304-311 (1994). N. Ramachandran and J. P. Downey. (ES71)
102. A Technical Description of the TSS-1 ROPE Investigation. *Il Nuovo Cimento*, 17C(1), 85-89 (1994). N. H. Stone, K. H. Wright, Jr., J. D. Winnigham, J. Biard, and C. Gurgiolo. (ES83)
103. A Technical Overview of TSS-1: The First Tethered-Satellite System Mission. *Il Nuovo Cimento*, 17C(1), 1-12 (1994). M. Dobrowolny and N. H. Stone. (ES83)
104. 10 Micron Detection of the Hard X-Ray Transient GRO JO422+32: Free-Free Emission from an X-Ray-Driven Accretion Disk Wind? *Astrophys. J. Lett.*, 429, L19-L23 (1994). J. van Paradijs, C. M. Telesco, C. Kouveliotou, and G. J. Fishman. (ES84)
105. Thermal and Nonthermal Electron-Ion Bremsstrahlung Spectrum from High-Temperature Plasmas. *Phys. of Plasmas*, 1(3), 785-788 (1994). Young-Dae Jung. (ES84)
106. Time-Averaged Current Analysis of a Thunderstorm Using Ground-Based Measurements. *J. Geophys. Res.*, 99(D5), 10,653-10,661 (1994). K. T. Driscoll, R. J. Blakeslee, and W. J. Koshak. (ES43)
107. A Time-Dependent Gyro-Kinetic Model of Thermal Ion Upflows in the High-Latitude F Region. *J. Geophys. Res.*, 99(A9), 17,429-17,451 (1994). M. Loranc and J.-P. St.-Maurice. (ES83)
108. Time Evolution of a Mini-Flare as Seen in H α , UV Lines, and X-Rays. *Astrophys. J.*, 424, 1022-1031 (1994). J. Fontenla, B. Schmieder, G. Simnett, and E. Tandberg-Hanssen. (ES01)
109. Understanding Genetic Algorithm Dynamics Using Harvesting Strategies. *Physica D*, 79, 132-145 (1994). D. Noever, S. Baskaran, and P. Schuster. (ES76)
110. Use of FUV Auroral Emissions as Diagnostic Indicators. *J. Geophys. Res.*, 99(A1), 383-388 (1994). G. A. Germany, D. G. Torr, M. R. Torr, and P. G. Richards. (ES84)
111. Weightless Bubble Lattices: A Case of Froth Wicking. *Phys. Fluids*, 6(7), 2493-2498 (1994). D. A. Noever and R. J. Cronise. (ES76)
112. The WetNet Project, Special Edition: The First Precipitation Intercomparison Project (PIP-1). *Remote Sensing Reviews*, 11(1-4), 5-21 (1994). J. Dodge and H. M. Goodman. (ES44)

Refereed Journal Articles (concluded)

113. WW Horologii: X-Ray and Optical Observations. M.N.R.A.S., 271, 733 (1994). A. F. Tennant, J. Bailey, D. T. Wickramasinghe, K. Wu, L. Ferrario, and J. Hough. (ES84)

Contributions to Books, Conference Proceedings, Etc.

1. AO535+26. IAU Circular No. 5933 (1994). R. B. Wilson, B. A. Harmon, and M. H. Finger. (ES84)
2. AO535+26. IAU Circular No. 5945 (1994). R. B. Wilson, B. A. Harmon, G. J. Fishman, and M. H. Finger. (ES84)
3. 2S 1417-624. IAU Circular No. 6075 (1994). C. A. Wilson, R. B. Wilson, M. H. Finger, S. N. Zhang, D. Chakrabarty, and T. A. Prince. (ES84)
4. 4U 0115+634. IAU Circular No. 5990 (1994). D. M. Scott, M. H. Finger, R. B. Wilson, and T. A. Prince. (ES84)
5. 4U 0115+634. IAU Circular No. 5999 (1994). R. B. Wilson, M. H. Finger, and D. M. Scott. (ES84)
6. 4U 1145-619. IAU Circular No. 5955 (1994). R. B. Wilson, M. H. Finger, M. Stollberg, T. A. Prince, J. M. Grunsfeld, B. A. Harmon, and S. N. Zhang. (ES84)
7. An April 1991 Outburst from 4U 0115+63 Observed by BATSE. In The Second Compton Symposium, AIP Conf. Proc. No. 304, edited by C. Fichtel, N. Gehrels, and J. Norris, pp. 294-298 (1994) (AIP: New York) (proceedings of symposium held College Park, Maryland, September 20-22, 1993). L. Cominsky, M. Roberts, and M. H. Finger. (ES84)
8. Astronomical Observations with Normal Incidence Multilayer Optics III: Selection of Multilayer Bandpasses. In Multilayer and Grazing Incidence X-Ray/EUV Optics II, SPIE Vol. 2011, edited by R. B. Hoover and A.B.C. Walker, Jr., pp. 450-463 (1994) (proceedings 1993 SPIE Symposium on Optical Instrumentation and Applied Science, San Diego, California, July 11-16, 1993). A.B.C. Walker, Jr., L. R. Jackson, J. Plummer, R. B. Hoover, and T. W. Barbee, Jr. (ES82)
9. Astronomical Observations with Normal Incidence Multilayer Optics IV: Selection of Spectral Lines. In Advances in Multilayer and Grazing Incidence X-Ray/EUV/FUV Optics, SPIE Vol. 2279, edited by R. B. Hoover and A.B.C. Walker, Jr., pp. 343-355 (1994) (proceedings 1994 SPIE International Symposium on Optics, Imaging, and Instrumentation, San Diego, California, July 24-29, 1994). A.B.C. Walker, Jr., J. Plummer, R. B. Hoover, and T. W. Barbee, Jr. (ES82)

Contributions to Books, Conference Proceedings, Etc. (continued)

10. ATLAS-1 and Middle Atmosphere Global Change. In *Adv. Space Res.*, 14(1), 189-200 (1994) (proceedings World Space Congress and 29th Plenary Meeting of COSPAR, Washington, D.C., August 30-September 5, 1992). M. R. Torr. (ES81)
11. The Average Temporal Profile of BATSE Gamma-Ray Bursts: Comparison Between Strong and Weak Events. In *Gamma-Ray Bursts*, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 187-191 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). I. G. Mitrofanov, A. M. Cherenko, A. S. Pozanenko, W. S. Paciesas, C. Kouveliotou, C. A. Meegan, G. J. Fishman, and R. Z. Sagdeev. (ES84)
12. BACODINE: The Real-Time BATSE Gamma-Ray Burst Coordinates Distribution Network. In *Gamma-Ray Bursts*, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 643-647 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). S. D. Barthelmy, T. L. Cline, N. Gehrels, T. G. Bialas, M. A. Robbins, J. R. Kuyper, G. J. Fishman, C. Kouveliotou, and C. A. Meegan. (ES81)
13. BATSE: Burst Performance and Experiment Status. In *Gamma-Ray Bursts*, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 648-652 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). G. J. Fishman, C. A. Meegan, C. Kouveliotou, R. Mallozzi, J. Horack, T. Koshut, G. Pendleton, W. S. Paciesas, R. B. Wilson, and M. N. Brock. (ES81)
14. BATSE Discovery of a Hard X-Ray Pulsar: GRO J1008-57. In *The Second Compton Symposium*, AIP Conf. Proc. No. 304, edited by C. Fichtel, N. Gehrels, and J. Norris, pp. 390-394 (1994) (AIP: New York) (proceedings of symposium held College Park, Maryland, September 20-22, 1993). R. B. Wilson, B. A. Harmon, G. J. Fishman, M. H. Finger, M. T. Stollberg, G. N. Pendleton, M. Briggs, T. A. Prince, L. Bildsten, D. Chakrabarty, B. C. Rubin, and S. N. Zhang. (ES84)
15. BATSE Images of the Galactic Center Region. In *The Second Compton Symposium*, AIP Conf. Proc. No. 304, edited by C. Fichtel, N. Gehrels, and J. Norris, pp. 431-435 (1994) (AIP: New York) (proceedings of symposium held College Park, Maryland, September 20-22, 1993). S. N. Zhang, G. J. Fishman, B. A. Harmon, W. S. Paciesas, B. C. Rubin, C. A. Meegan, R. B. Wilson, and M. H. Finger. (ES84)

Contributions to Books, Conference Proceedings, Etc. (continued)

16. BATSE Observations of 3C 273. In *The Second Compton Symposium*, AIP Conf. Proc. No. 304, edited by C. Fichtel, N. Gehrels, and J. Norris, pp. 674-678 (1994) (AIP: New York) (proceedings of symposium held College Park, Maryland, September 20-22, 1993). W. S. Paciesas, R. S. Mallozzi, G. N. Pendleton, B. A. Harmon, C. A. Wilson, S. N. Zhang, and G. J. Fishman. (ES84)
17. BATSE Observations of 4U1538-52: A 530 Second Pulsar. In *The Evolution of X-Ray Binaries*, AIP Conf. Proc. No. 308, edited by S. S. Holt and C. S. Day, pp. 455-458 (1994) (AIP: New York) (proceedings of conference held College Park, Maryland, October 11-13, 1993). B. C. Rubin, M. H. Finger, R. B. Wilson, G. J. Fishman, C. A. Meegan, W. S. Paciesas, T. Prince, J. Chiu, and D. Chakrabarty. (ES84)
18. BATSE Observations of Cygnus X-1. In *The Second Compton Symposium*, AIP Conf. Proc. No. 304, edited by C. Fichtel, N. Gehrels, and J. Norris, pp. 220-224 (1994) (AIP: New York) (proceedings of symposium held College Park, Maryland, September 20-22, 1993). J. C. Ling, W. A. Wheaton, R. T. Skelton, B. A. Harmon, G. J. Fishman, and W. S. Paciesas. (ES84)
19. BATSE Observations of GS 0834-430. In *The Evolution of X-Ray Binaries*, AIP Conf. Proc. No. 308, edited by S. S. Holt and C. S. Day, pp. 259-262 (1994) (AIP: New York) (proceedings of conference held College Park, Maryland, October 11-13, 1993). C. A. Wilson, B. A. Harmon, R. B. Wilson, G. J. Fishman, and M. H. Finger. (ES84)
20. BATSE Observations of GX 354-00. In *The Second Compton Symposium*, AIP Conf. Proc. No. 304, edited by C. Fichtel, N. Gehrels, and J. Norris, pp. 456-460 (1994) (AIP: New York) (proceedings of symposium held College Park, Maryland, September 20-22, 1993). B. A. Harmon, S. N. Zhang, G. J. Fishman, W. S. Paciesas, B. C. Rubin, C. A. Meegan, R. B. Wilson, and M. H. Finger. (ES84)
21. BATSE Observations of Her X-1: The 35 Day Cycle, Orbit Determination, and Torque Studies. In *The Second Compton Symposium*, AIP Conf. Proc. No. 304, edited by C. Fichtel, N. Gehrels, and J. Norris, pp. 235-239 (1994) (AIP: New York) (proceedings of symposium held College Park, Maryland, September 20-22, 1993). R. B. Wilson, M. H. Finger, G. N. Pendleton, M. Briggs, and L. Bildsten. (ES84)

Contributions to Books, Conference Proceedings, Etc. (continued)

22. BATSE Observations of Nova Muscae 1991. In *The Evolution of X-Ray Binaries*, AIP Conf. Proc. No. 308, edited by S. S. Holt and C. S. Day, pp. 115-118 (1994) (AIP: New York) (proceedings of conference held College Park, Maryland, October 11-13, 1993). W. S. Paciesas, M. S. Briggs, G. N. Pendleton, B. A. Harmon, C. A. Wilson, S. N. Zhang, and G. J. Fishman. (ES84)
23. BATSE Observations of Transient Hard X-Ray Sources. In *The Second Compton Symposium*, AIP Conf. Proc. No. 304, edited by C. Fichtel, N. Gehrels, and J. Norris, pp. 210-219 (1994) (AIP: New York) (proceedings of symposium held College Park, Maryland, September 20-22, 1993). B. A. Harmon, S. N. Zhang, C. A. Wilson, B. C. Rubin, G. J. Fishman, and W. S. Paciesas. (ES84)
24. On Burst Classification Using Peak Rate Ratios. In *Gamma-Ray Bursts*, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 232-236 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). C. A. Meegan and C. Kouveliotou. (ES84)
25. Centrifugal Flow Reversal in the Equatorial Magnetosphere. In *Auroral Dynamics*, American Geophys. Union Mono. Ser. #80, edited by R. Lysak, p. 233 (1994) (AGU: Washington, D.C.) (proceedings Chapman Conference, held Minneapolis, Minnesota, October 1991). D. C. Delcourt, J. A. Sauvaud, and T. E. Moore. (ES83)
26. Challenges and Opportunities in Visualization for NASA's EOS Mission to Planet Earth. In *Visualization '94*, pp. 392-395 (1994) (IEEE: Los Alamitos, California) (proceedings of conference held Washington, D.C., October 17-21, 1994). M. Botts, J. D. Dykstra, L. S. Elson, S. J. Goodman, and M. Lee. (ES44)
27. Change in Accretion Torque in the Binary Accreting Pulsar 4U 1626-67. In *The Second Compton Symposium*, AIP Conf. Proc. No. 304, edited by C. Fichtel, N. Gehrels, and J. Norris, pp. 290-293 (1994) (AIP: New York) (proceedings of symposium held College Park, Maryland, September 20-22, 1993). L. Bildsten, D. Chakrabarty, J. Chiu, M. H. Finger, J. M. Grunsfeld, T. Koh, T. A. Prince, and R. Wilson. (ES84)

Contributions to Books, Conference Proceedings, Etc. (continued)

28. Channel to Energy Calibration Results for the BATSE Large Area Detectors. In *The Second Compton Symposium*, AIP Conf. Proc. No. 304, edited by C. Fichtel, N. Gehrels, and J. Norris, pp. 749-753 (1994) (AIP: New York) (proceedings of symposium held College Park, Maryland, September 20-22, 1993). G. N. Pendleton, W. S. Paciesas, M. S. Briggs, B. A. Harmon, C. A. Wilson, G. J. Fishman, R. B. Wilson, and C. A. Meegan. (ES84)
29. Characterization of Growth Defects in ZnTe Single Crystals. In *Materials Research Society Symposium*, Vol. 299, pp. 203-208 (1994) (proceedings Materials Research Society Spring Meeting, San Francisco, California, April 1993). W. Zhou, J. Wu, M. Dudley, C.-H. Su, M. P. Volz, D. C. Gillies, F. R. Szofran, and S. L. Lehoczky. (ES75)
30. Do Classical Gamma-Ray Bursts Repeat? In *Gamma-Ray Bursts*, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 127-131 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). D. H. Hartmann, G. R. Blumenthal, K. Hurley, E. V. Linder, J. Hakkila, G. J. Fishman, C. A. Meegan, R. B. Wilson, M. Brock, J. M. Horack, C. Kouveliotou, M. S. Briggs, W. S. Paciesas, and G. N. Pendleton. (ES84)
31. Color Diagrams of Gamma-Ray Bursts. In *Gamma-Ray Bursts*, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 328-332 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). W.A.D.T. Wickramasinghe, R. J. Nemiroff, J. P. Norris, and C. Kouveliotou. (ES84)
32. Comparison of BATSE, COMPTEL, EGRET, and OSSE Spectra of GRB910601. In *Gamma-Ray Bursts*, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 283-287 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). G. H. Share, W. N. Johnson, J. D. Kurfess, R. J. Murphy, A. Connors, B. L. Dingus, B. E. Schaefer, D. Band, J. Matteson, W. Collmar, V. Schönfelder, C. E. Fichtel, P. W. Kwok, B. J. Teegarden, G. Fishman, L. Kuiper, G. V. Jung, S. M. Matz, P. L. Nolan, E. J. Schneid, and C. Winkler. (ES81)
33. Comparison of Model Predictions with LDEF Satellite Radiation Measurements, in *Adv. Space Res.*, 14(10), 17-20 (1994) (proceedings World Space Congress '92 and 29th Plenary Meeting of COSPAR, Washington, D.C., August 30-September 5, 1992). T. W. Armstrong, B. L. Colborn, B. A. Harmon, T. A. Parnell, J. W. Watts, Jr., and E. V. Benton. (ES84)

Contributions to Books, Conference Proceedings, Etc. (continued)

34. Comparisons of WATCH and IPN Locations of Gamma-Ray Bursts. In Gamma-Ray Bursts, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 364-368 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). K. Hurley, N. Lund, S. Brandt, A. J. Castro-Tirado, M. Sommer, I. Lapshov, J. Laros, R. Klebesadel, G. Fishman, C. Kouveliotou, C. Meegan, T. Cline, M. Böer, and M. Niel. (ES81)
35. Consistency Analysis of a Candidate Line Feature in GRB930506. In Gamma-Ray Bursts, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 266-270 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). R. Preece, M. Briggs, W. Paciesas, G. Pendleton, L. Ford, D. Band, J. Matteson, D. Palmer, B. Teegarden, B. Schaefer, and M. Brock. (ES84)
36. Continuum Spectral Characteristics of Bursts Measured with the BATSE Large Area Detectors. In Gamma-Ray Bursts, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 313-317 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). G. N. Pendleton, W. S. Paciesas, M. S. Briggs, R. S. Mallozzi, T. M. Koshut, G. J. Fishman, R. B. Wilson, C. A. Meegan, and C. Kouveliotou. (ES84)
37. Cross Calibration of Burst Spectra with BATSE, EGRET, and COMPTEL for GRB910503. In Gamma-Ray Bursts, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 280-282 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). B. E. Schaefer, B. Teegarden, T. Cline, B. L. Dingus, G. J. Fishman, C. A. Meegan, R. B. Wilson, W. S. Paciesas, G. N. Pendleton, D. L. Band, E. J. Schneid, P. W. Kwok, V. Schönfelder, C. Winkler, W. Hermsen, and R. M. Kippen. (ES81)
38. Development of a Hard X-Ray Imaging Polarimeter. In X-Ray and Ultraviolet Polarimetry, SPIE Vol. 2010, edited by S. Fineschi, pp. 118-126 (1994) (proceedings 1993 SPIE Symposium on Optical Instrumentation and Applied Science, San Diego, California, July 11-16, 1993). R. A. Austin, T. Minamitani, and B. D. Ramsey. (ES84)
39. Development of a Hybrid Gas Detector/Phoswich for Hard X-Ray Astronomy. In EUV, X-Ray, and Gamma-Ray Instrumentation for Astronomy V, SPIE Vol. 2280, edited by O.H.W. Siegmund and J. V. Vallerga, pp. 119-126 (1994) (proceedings 1994 SPIE International Symposium on Optics, Imaging, and Instrumentation, San Diego, California, July 24-29, 1994). M. M. Pimperl, B. D. Ramsey, R. A. Austin, T. Minamitani, M. C. Weisskopf, J. E. Grindlay, K.S.K. Lum, and R. P. Manandhar. (ES84)

Contributions to Books, Conference Proceedings, Etc. (continued)

40. The Development of Microstrip Proportional Counters for X-Ray Astronomy. In EUV, X-Ray, and Gamma-Ray Instrumentation for Astronomy V, SPIE Vol. 2280, edited by O.H.W. Siegmund and J. V. Vallerga, pp. 110-118 (1994) (proceedings 1994 SPIE International Symposium on Optics, Imaging, and Instrumentation, San Diego, California, July 24-29, 1994). B. D. Ramsey, J. J. Kolodziejczak, A. Fulton, J. Mir, and M. C. Weisskopf. (ES84)
41. Discovery of the Hard X-Ray Pulsar GRO J1008-57 by BATSE. In The Evolution of X-Ray Binaries, AIP Conf. Proc. No. 308, edited by S. S. Holt and C. S. Day, pp. 451-454 (1994) (AIP: New York) (proceedings of conference held College Park, Maryland, October 11-13, 1993). R. B. Wilson, B. A. Harmon, G. J. Fishman, M. H. Finger, M. T. Stollberg, G. N. Pendleton, M. Briggs, T. A. Prince, L. Bildsten, D. Chakrabarty, B. C. Rubin, and S. N. Zhang. (ES84)
42. Distributions from BATSE Observations. In Gamma-Ray Bursts, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 59-63 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). J. Hakkila, C. A. Meegan, G. J. Fishman, R. B. Wilson, M. N. Brock, J. M. Horack, G. N. Pendleton, W. S. Paciesas, and M. S. Briggs. (ES84)
43. Dynamic Gravity Probe-B Spacecraft Due to Gravity Jitter Induced Cryogenic Helium Disturbances in Rotating Dewar. In Adv. Space Res., 14(5), 115-122 (1994) (proceedings World Space Congress and 29th Plenary Meeting of COSPAR, Washington, D.C., August 30-September 5, 1992). R. J. Hung, C. C. Lee, and F. W. Leslie. (ES41)
44. Electric Current Systems in Solar Active Regions. In Solar Active Region Evolution: Comparing Models with Observations, ASP Conf. Ser., Vol. 68, edited by K. S. Balasubramaniam and G. W. Simon, pp. 171-179 (1994) (proceedings Sac Peak Summer Workshop, Sacramento Peak, New Mexico, August 31-September 3, 1993). G. A. Gary and P. Démoulin. (ES82)
45. The ESO-Schmidt Survey of Gamma-Ray Bursts. In Gamma-Ray Bursts, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 396-400 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). M. Böer, H. Pederson, A. Smette, J. Fishman, C. Kouveliotou, and K. Hurley. (ES81)

Contributions to Books, Conference Proceedings, Etc. (continued)

46. An Evaluation of BATSE Burst Locations Compared with the MAXBC Datatype. In Gamma-Ray Bursts, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 697-700 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). T. M. Koshut, W. S. Paciesas, G. N. Pendleton, M. N. Brock, G. J. Fishman, C. A. Meegan, and R. B. Wilson. (ES84)
47. Evolution of Massive Stars to Explosion. In Space Science Reviews, Vol. 66, No. 1 (1994) (proceedings Conference of Evolution of Massive Stars, Brussels, Belgium, October 1993). J. C. Wheeler and D. A. Swartz. (ES65)
48. EXO 1846-031. IAU Circular No. 6096 (1994). S. N. Zhang, B. A. Harmon, C. A. Wilson, G. J. Fishman, W. S. Paciesas, J. E. Grindlay, D. Barret, E. Ford, M. Tavani, and P. Kaaret. (ES84)
49. Exploration of Bi-Modality in Gamma-Ray Burst Duration and Hardness Distributions. In Gamma-Ray Bursts, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 172-176 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). J. P. Norris, R. J. Nemiroff, S. P. Davis, C. Kouveliotou, G. J. Fishman, C. A. Meegan, and W. S. Paciesas. (ES84)
50. Fabrication and Test of a Wide-Field H-Lyman α Coronagraph/Polarimeter. In X-Ray and Ultraviolet Polarimetry, SPIE Vol. 2010, edited by S. Fineschi, pp. 104-117 (1994) (proceedings 1993 SPIE Symposium on Optical Instrumentation and Applied Science, San Diego, California, July 11-16, 1993). R. B. Hoover, A.B.C. Walker, Jr., S. Fineschi, P. C. Baker, M. Zukic, and J. Kim. (ES82)
51. First Results of the BATSE/COMPTEL/NMSU Rapid Burst Response Campaign. In Gamma-Ray Bursts, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 418-422 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). R. M. Kippen, A. Connors, J. Macri, M. McConnell, J. Ryan, W. Collmar, J. Greiner, V. Schönfelder, M. Varendorff, G. J. Fishman, C. A. Meegan, C. Kouveliotou, B. McNamara, T. Harrison, W. Hermsen, L. Kuiper, K. Bennett, L. Hanlon, and C. Winkler. (ES81)

Contributions to Books, Conference Proceedings, Etc. (continued)

52. Gamma-Ray Burst Variability: A Search for Correlations with Other Parameters. In *Gamma-Ray Bursts*, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 212-216 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). J. P. Lestrade, M. Briggs, W. Paciesas, G. J. Fishman, C. A. Meegan, and R. B. Wilson. (ES84)
53. Gamma-Ray Bursts: Observational Overview. In *The Second Compton Symposium*, AIP Conf. Proc. No. 304, edited by C. Fichtel, N. Gehrels, and J. Norris, pp. 22-29 (1994) (AIP: New York) (proceedings of symposium held College Park, Maryland, September 20-22, 1993). G. J. Fishman. (ES81)
54. Global Temperature Monitoring from Space. In *Adv. Space Res.*, 14(1), 69-76 (1994) (proceedings World Space Congress and 29th Plenary Meeting of COSPAR, Washington, D.C., August 30-September 5, 1992). R. W. Spencer. (ES43)
55. Ground-to-Orbit Transfer of the AXAF-I Flux Scale. In *Advances in Multi-layer and Grazing Incidence X-Ray/EUV/FUV Optics*, SPIE Vol. 2279, edited by R. B. Hoover and A.B.C. Walker, Jr., pp. 332-342 (1994) (proceedings 1994 SPIE International Symposium on Optics, Imaging, and Instrumentation, San Diego, California, July 24-29, 1994). R. F. Elsner, M. Joy, S. L. O'Dell, B. D. Ramsey, and M. C. Weisskopf. (ES84)
56. Growing Organic Crystals by the Czochralski Method. In *Laser Tech Briefs*, pp. 58-59, Winter 1994. A. Shields, D. O. Frazier, B. G. Penn, M. D. Aggarwal, and W. S. Wang. (ES76)
57. GX 339-4. IAU Circular #5915 (1994). B. A. Harmon, W. S. Paciesas, S. N. Zhang, G. J. Fishman, and M. H. Finger. (ES84)
58. Hard X-Ray Observations of A 0535+262. In *The Evolution of X-Ray Binaries*, AIP Conf. Proc. No. 308, edited by S. S. Holt and C. S. Day, pp. 459-462 (1994) (AIP: New York) (proceedings of conference held College Park, Maryland, October 11-13, 1993). M. H. Finger, L. R. Cominsky, R. B. Wilson, B. A. Harmon, and G. J. Fishman. (ES84)
59. Hard X-Ray Transient. IAU Circular #5890 (1994). B. A. Harmon, S. N. Zhang, G. J. Fishman, and C. A. Wilson. (ES84)

Contributions to Books, Conference Proceedings, Etc. (continued)

60. High Resolution X-Ray Spectroscopy with a Rocket Borne Cosmic X-Ray Microcalorimeter Spectrograph. In Advances in Multilayer and Grazing Incidence X-Ray/EUV/FUV Optics, SPIE Vol. 2279, edited by R. B. Hoover and A.B.C. Walker, Jr., pp. 122-133 (1994) (proceedings 1994 SPIE International Symposium on Optics, Imaging, and Instrumentation, San Diego, California, July 24-29, 1994). A.B.C. Walker, Jr., A. Kapitulnik, R. B. Hoover, L. Lesyna, and M. P. Ulmer. (ES82)
61. The Imaging Properties of a Silicon Wafer X-Ray Telescope. In Advances in Multilayer and Grazing Incidence X-Ray/EUV/FUV Optics, SPIE Vol. 2279, edited by R. B. Hoover and A.B.C. Walker, Jr., pp. 283-286 (1994) (proceedings 1994 SPIE International Symposium on Optics, Imaging, and Instrumentation, San Diego, California, July 24-29, 1994). M. K. Joy, J. J. Kolodziejczak, M. C. Weisskopf, S. Fair, and B. D. Ramsey. (ES84)
62. Implications of the BATSE Data for a Heliocentric Origin of Gamma-Ray Bursts. In Gamma-Ray Bursts, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 69-73 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). J. M. Horack, S. D. Storey, T. M. Koshut, R. S. Mallozzi, and A. G. Emslie. (ES84)
63. The Importance of "Electron Tracking" in Understanding the Response of Proportional Counters. In EUV, X-Ray, and Gamma-Ray Instrumentation for Astronomy V, SPIE Vol. 2280, edited by O.H.W. Siegmund and J. V. Vallerga, pp. 145-153 (1994) (proceedings 1994 SPIE International Symposium on Optics, Imaging, and Instrumentation, San Diego, California, July 24-29, 1994). J. Youngen, M. C. Weisskopf, K. L. Dietz, R. A. Austin, S. L. O'Dell, B. D. Ramsey, and A. Tennant. (ES84)
64. The Inner Magnetosphere Imager Mission. In Solar System Plasmas in Space and Time, Geophys. Mono. Ser. Vol. #84, pp. 265-274 (1994) (American Geophysical Union: Washington, D.C.) (proceedings of 1993 Yosemite Conference, February 2-5, 1993). D. L. Gallagher. (ES83)
65. Integral Moment Analysis of the BATSE Gamma-Ray Burst Intensity Distribution. In Gamma-Ray Bursts, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 64-68 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). J. M. Horack and A. G. Emslie. (ES84)
66. Integration of Multiple Phenomena. In GIS World Sourcebook, pp. 306-308 (GIS World: Ft. Collins, Colorado) (1994). Dale A. Quattrochi. (ES44)

Contributions to Books, Conference Proceedings, Etc. (continued)

67. Investigation of Nucleating Lysozyme Solutions. In *Acta Cryst.*, Vol. D50, pp. 396-397 (1994) (proceedings Fifth International Conference on the Crystallization of Biological Macromolecules, San Diego, California, August 8-13, 1993). L. Sibille and M. Pusey. (ES76)
68. The Isotropy of Gamma-Ray Bursts: Dipole and Quadrupole Tests. In *Gamma-Ray Bursts*, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 44-48 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). M. S. Briggs, W. S. Paciesas, G. N. Pendleton, G. J. Fishman, C. A. Meegan, R. B. Wilson, M. N. Brock, and C. Kouveliotou. (ES84)
69. The Kapteyn (Lognormal) Distribution as a Model of GRB Spectra and Pulse Profiles. In *Gamma-Ray Bursts*, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 672-676 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). M. Brock, C. Meegan, R. Wilson, C. Kouveliotou, W. Paciesas, G. Pendleton, M. Briggs, and R. Preece. (ES84)
70. Long-Term Monitoring of the Accreting Pulsar GX 1+4. In *The Second Compton Symposium*, AIP Conf. Proc. No. 304, edited by C. Fichtel, N. Gehrels, and J. Norris, pp. 285-289 (1994) (AIP: New York) (proceedings of symposium held College Park, Maryland, September 20-22, 1993). D. Chakrabarty, L. Bildsten, J. Chiu, J. M. Grunsfeld, T. Koh, T. A. Prince, M. H. Finger, and R. B. Wilson. (ES84)
71. Magnetohydrodynamic Simulation of a Streamer Beside a Realistic Coronal Hole. *Space Sci. Rev.*, 70, 295-298 (1994) (proceedings SOHO Workshop No. 2, Elba, Italy, September 1993). S. T. Suess, S. T. Wu, A.-H. Wang, and G. Poletto. (ES82)
72. Microflaring at the Feet of Large Active Region Loops. In *New Look at the Sun with Emphasis on Advanced Observations of Coronal Dynamics and Flares*, NRO Report No. 360, edited by S. Enome and T. Hirayama, pp. 65-69 (1994) (proceedings of symposium held Kofu, Japan, September 6-10, 1993). J. Porter, R. L. Moore, G. Roumeliotis, T. Shimizu, S. Tsuneta, P. A. Sturrock, and L. W. Acton. (ES82)

Contributions to Books, Conference Proceedings, Etc. (continued)

73. Molecular Contamination Study of Iridium-Coated X-Ray Mirrors. In *Advances in Multilayer and Grazing Incidence X-Ray/EUV/FUV Optics*, SPIE Vol. 2279, edited by R. B. Hoover and A.B.C. Walker, Jr., pp. 12-26 (1994) (proceedings 1994 SPIE International Symposium on Optics, Imaging, and Instrumentation, San Diego, California, July 24-29, 1994). D. E. Graessle, R. F. Elsner, S. L. O'Dell, et al. (ES84)
74. Morphological Study of Short Gamma Ray Bursts. In *Gamma-Ray Bursts*, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 197-201 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). P. N. Bhat, G. J. Fishman, C. A. Meegan, R. B. Wilson, and W. S. Paciesas. (ES84)
75. MultiSpectral Solar Telescope Array VII: A Status Report. In *Multilayer and Grazing Incidence X-Ray/EUV Optics II*, SPIE Vol. 2011, edited by R. B. Hoover and A.B.C. Walker, Jr., pp. 489-503 (1994) (proceedings 1993 SPIE Symposium on Optical Instrumentation and Applied Science, San Diego, California, July 11-16, 1993). A.B.C. Walker, Jr., R. B. Hoover, and T. W. Barbee, Jr. (ES82)
76. The Mystery That Won't Go Away. *Sky and Telescope*, pp. 28-32 (1994). C. A. Meegan. (ES84)
77. NASA Shuttle Lightning Research: Observations of Nocturnal Thunderstorms and Lightning Displays as Seen During Recent Space Shuttle Missions. In *Optical Spectroscopic Techniques and Instrumentation for Atmospheric Space Research*, SPIE Vol. 2266, pp. 395-403 (1994) (proceedings 1994 SPIE International Symposium on Optics, Imaging, and Instrumentation, San Diego, California, July 24-29, 1994). O. H. Vaughan, Jr. (ES44)
78. The Nearest Neighbors of BATSE Gamma-Ray Bursts: Narrowing the Possibilities. In *Gamma-Ray Bursts*, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 122-126 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). J. J. Brainerd, W. S. Paciesas, C. A. Meegan, and G. J. Fishman. (ES84)
79. Observation of a Correlation Between Main-On Intensity and Spin Behavior of Her X-1. In *The Evolution of X-Ray Binaries*, AIP Conf. Proc. No. 308, edited by S. S. Holt and C. S. Day, pp. 475-478 (1994) (AIP: New York) (proceedings of conference held College Park, Maryland, October 11-13, 1993). R. B. Wilson, M. H. Finger, G. N. Pendleton, M. Briggs, and L. Bildsten. (ES84)

80. Observations of Accreting Pulsars. In *The Evolution of X-Ray Binaries*, AIP Conf. Proc. No. 308, edited by S. S. Holt and C. S. Day, pp. 245-254 (1994) (AIP: New York) (proceedings of conference held College Park, Maryland, October 11-13, 1993). T. A. Prince, L. Bildsten, D. Chakrabarty, R. B. Wilson, and M. H. Finger. (ES84)

Contributions to Books, Conference Proceedings, Etc. (continued)

81. Observations of Accretion Torques in Cen X-3. In *The Second Compton Symposium*, AIP Conf. Proc. No. 304, edited by C. Fichtel, N. Gehrels, and J. Norris, pp. 304-308 (1994) (AIP: New York) (proceedings of symposium held College Park, Maryland, September 20-22, 1993). M. H. Finger, R. B. Wilson, and G. J. Fishman. (ES84)
82. Observations of Enhanced Coronal Heating in Sheared Magnetic Fields. In *New Look at the Sun with Emphasis on Advanced Observations of Coronal Dynamics and Flares*, NRO Report No. 360, edited by S. Enome and T. Hirayama, pp. 89-92 (1994) (proceedings of symposium held Kofu, Japan, September 6-10, 1993). R. L. Moore, J. Porter, G. Roumeliotis, S. Tsuneta, T. Shimizu, P. A. Sturrock, and L. W. Acton. (ES82)
83. Orthorhombic Lysozyme Solubility. In *Acta Cryst.*, Vol. D50, pp. 424-428 (1994) (proceedings Fifth International Conference on the Crystallization of Biological Macromolecules, San Diego, California, August 8-13, 1993). F. Ewing, E. Forsythe, and M. Pusey. (ES76)
84. Performance of the Multilayer-Coated Mirrors for the MultiSpectral Solar Telescope Array. In *Multilayer and Grazing Incidence X-Ray/EUV Optics II*, SPIE Vol. 2011, edited by R. B. Hoover and A.B.C. Walker, Jr., pp. 381-390 (1994) (proceedings 1993 SPIE Symposium on Optical Instrumentation and Applied Science, San Diego, California, July 11-16, 1993). M. J. Allen, T. D. Willis, C. C. Kankelborg, R. H. O'Neal, D. S. Martinez-Galarce, C. E. DeForest, L. R. Jackson, J. Plummer, A.B.C. Walker, Jr., T. W. Barbee, Jr., J. W. Weed, and R. B. Hoover. (ES82)
85. Performance of the Repolished S-056 Grazing Incidence Mirror in the MSFC AXAF Test Facility. In *Multilayer and Grazing Incidence X-Ray/EUV Optics II*, SPIE Vol. 2011, edited by R. B. Hoover and A.B.C. Walker, Jr., pp. 75-88 (1994) (proceedings 1993 SPIE Symposium on Optical Instrumentation and Applied Science, San Diego, California, July 11-16, 1993). J. W. Campbell, R. B. Hoover, and P. C. Baker. (ES82)

Contributions to Books, Conference Proceedings, Etc. (continued)

86. Polarization Characteristics of the MSFC Experimental Vector Magnetograph. In *Polarization Analysis and Measurement II*, SPIE Vol. 2265, pp. 272-283 (1994) (proceedings 1994 SPIE International Symposium on Optics, Imaging, and Instrumentation, San Diego, California, July 24-29, 1994). E. A. West and M. H. Smith. (ES82)
87. Polarization Errors Associated with Birefringent Waveplates. In *Polarization Analysis and Measurement II*, SPIE Vol. 2265, pp. 260-271 (1994) (proceedings 1994 SPIE International Symposium on Optics, Imaging, and Instrumentation, San Diego, California, July 24-29, 1994). E. A. West and M. H. Smith. (ES82)
88. Precise Localizations and Counterpart Searches of GRBs from the 2nd Interplanetary Network. In *Gamma-Ray Bursts*, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 359-363 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). F. Hack, K. Hurley, J.-L. Atteia, C. Barat, M. Niel, T. Cline, B. Dennis, C. Kouveliotou, R. Klebesadel, J. Laros, V. Kurt, A. Kuznetsov, and V. Zenchenko. (ES84)
89. Precise Triangulation of the Jan 31 1993 ("Superbowl") Burst. In *Gamma-Ray Bursts*, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 369-372 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). K. Hurley, M. Sommer, G. Fishman, C. Kouveliotou, C. Meegan, T. Cline, M. Böer, and M. Niel. (ES81)
90. Pulse Width Distributions and Total Counts as Indicators of Cosmological Time Dilation in Gamma-Ray Bursts. In *Gamma-Ray Bursts*, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 182-186 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). S. P. Davis, J. P. Norris, C. Kouveliotou, G. J. Fishman, C. A. Meegan, and W. S. Paciesas. (ES84)
91. Quasi-Periodic Oscillations of Black-Hole Candidates Observed with BATSE. In *The Second Compton Symposium*, AIP Conf. Proc. No. 304, edited by C. Fichtel, N. Gehrels, and J. Norris, pp. 202-209 (1994) (AIP: New York) (proceedings of symposium held College Park, Maryland, September 20-22, 1993). C. Kouveliotou. (ES84)

Contributions to Books, Conference Proceedings, Etc. (continued)

92. A Quick, Cheap, and Beautiful X-Ray Polarimeter. In X-Ray and Ultraviolet Spectroscopy and Polarimetry, SPIE Vol. 2283, pp. 70-74 (1994) (proceedings 1994 SPIE International Symposium on Optics, Imaging, and Instrumentation, San Diego, California, July 24-29, 1994). M. C. Weisskopf, R. F. Elsner, M. K. Joy, S. L. O'Dell, B. D. Ramsey, G. P. Garmire, P. Meszaros, and R. Sunyaev. (ES01)
93. A Real-Time Search for Optical Counterparts to Gamma-Ray Bursts. In Gamma-Ray Bursts, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 401-403 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). J. T. Bonnell, J. P. Norris, S. D. Barthelmy, T. L. Cline, N. Gehrels, G. J. Fishman, C. Kouveliotou, and C. A. Meegan. (ES81)
94. Recent Observations of EXO 2030+375 with BATSE. In The Evolution of X-Ray Binaries, AIP Conf. Proc. No. 308, edited by S. S. Holt and C. S. Day, pp. 255-258 (1994) (AIP: New York) (proceedings of conference held College Park, Maryland, October 11-13, 1993). M. T. Stollberg, W. S. Paciesas, M. H. Finger, G. J. Fishman, R. B. Wilson, B. A. Harmon, and C. A. Wilson. (ES84)
95. Recent Small Gamma-Ray Burst Error Boxes in the ROSAT All-Sky Survey. In Gamma-Ray Bursts, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 458-462 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). M. Böer, J. Greiner, P. Kahabka, C. Motch, W. Voges, M. Sommer, K. Hurley, M. Niel, J. Laros, R. Klebesadel, C. Kouveliotou, G. Fishman, and T. Cline. (ES84)
96. Remote Sensing of Substorm Dynamics via Radio Sounding. In Substorms-2, edited by J. R. Kan, J. D. Craven, and S.-I. Akasofu, pp. 281-287 (1994) (Fairbanks: University of Alaska Press) (proceedings of Second International Conference on Substorms, Fairbanks, Alaska, May 18, 1994). P. H. Reiff, J. L. Green, R. F. Benson, D. L. Carpenter, W. Calvert, S. F. Fung, D. L. Gallagher, Y. Omura, B. W. Reinisch, M. F. Smith, and W.W.L. Taylor. (ES83)
97. Retrieval of Rainrate Over Rough Sea Surfaces as Measured by the Advanced Microwave Precipitation Radiometer (AMPR). In Proceedings of the 1995 International Geoscience and Remote Sensing Symposium (IGARSS'94), Vol. III, pp. 1783-1785 (1994) (held Pasadena, California, August 8-12, 1994). S. S. T. Wu. (ES43)

Contributions to Books, Conference Proceedings, Etc. (continued)

98. ROSAT and BATSE Observations of GRS 1915+105. In *The Second Compton Symposium*, AIP Conf. Proc. No. 304, edited by C. Fichtel, N. Gehrels, and J. Norris, pp. 260-264 (1994) (AIP: New York) (proceedings of symposium held College Park, Maryland, September 20-22, 1993). J. Greiner, S. Snowden, B. A. Harmon, C. Kouveliotou, and W. Paciesas. (ES84)
99. ROSAT Observation of the 4U 1543-47 Outburst in 1992. In *The Second Compton Symposium*, AIP Conf. Proc. No. 304, edited by C. Fichtel, N. Gehrels, and J. Norris, pp. 314-318 (1994) (AIP: New York) (proceedings of symposium held College Park, Maryland, September 20-22, 1993). J. Greiner, P. Predehl, and B. A. Harmon. (ES84)
100. A Search for Extra-Galactic Source Emission Using the Earth Occultation Technique. In *The Second Compton Symposium*, AIP Conf. Proc. No. 304, edited by C. Fichtel, N. Gehrels, and J. Norris, pp. 592-596 (1994) (AIP: New York) (proceedings of symposium held College Park, Maryland, September 20-22, 1993). R. S. Mallozzi, W. S. Paciesas, G. N. Pendleton, M. S. Briggs, B. A. Harmon, C. A. Wilson, and S. N. Zhang. (ES84)
101. The Search for Gamma-Ray Burst Spectral Features in the Compton GRO BATSE Data. In *Gamma-Ray Bursts*, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 247-255 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). D. M. Palmer, B. J. Teegarden, B. E. Schaefer, T. L. Cline, D. L. Band, L. A. Ford, J. L. Matteson, R. D. Peece, W. S. Paciesas, G. N. Pendleton, M. S. Briggs, G. J. Fishman, C. A. Meegan, R. B. Wilson, and J. P. Lestrade. (ES84)
102. Searching Gamma-Ray Bursts for Gravitational Lensing Echoes. In *Gamma-Ray Bursts*, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 150-154 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). R. J. Nemiroff, W.A.D.T. Wickramasinghe, J. P. Norris, C. Kouveliotou, G. J. Fishman, C. A. Meegan, and W. S. Paciesas. (ES84)
103. Second BATSE Burst Catalogue. IAU Circular No. 5991 (1994). C. A. Meegan. (ES84)

Contributions to Books, Conference Proceedings, Etc. (continued)

104. Simultaneous Optical/Gamma-Ray Observations of GRBs. In Gamma-Ray Bursts, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 408-412 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). J. Greiner, W. Wenzel, R. Hudec, E. I. Moskalenko, V. Metlov, N. S. Chernykh, V. S. Getman, R. Ziener, K. Birkle, N. Bade, S. B. Tritton, G. J. Fishman, C. Kouveliotou, C. A. Meegan, W. S. Paciesas, and R. B. Wilson. (ES81)
105. The Slope of the Log N-Log S Distribution for BATSE Gamma-Ray Bursts. In Gamma-Ray Bursts, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 84-87 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). V. Petrosian, W. J. Azzam, and C. A. Meegan. (ES84)
106. Spectral Curvature in High-Energy Gamma Ray Bursts Observed by the BATSE Large Area Detectors. In Gamma-Ray Bursts, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 318-322 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). R. D. Preece, M. S. Briggs, W. S. Paciesas, G. N. Pendleton, C. Kouveliotou, and M. N. Brock. (ES84)
107. Spectral Evolution of a Sub-Class of Gamma Ray Bursts. In Gamma-Ray Bursts, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 288-292 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). P. N. Bhat, G. J. Fishman, C. A. Meegan, R. B. Wilson, C. Kouveliotou, W. S. Paciesas, G. N. Pendleton, and B. E. Schaefer. (ES84)
108. Status of the Stellar X-Ray Polarimeter for the Spectrum-X-Gamma Mission. In X-Ray and Ultraviolet Polarimetry, SPIE Vol. 2010, edited by S. Fineschi, pp. 22-27 (1994) (proceedings 1993 SPIE Symposium on Optical Instrumentation and Applied Science, San Diego, California, July 11-16, 1993). P. E. Kaaret, M. C. Weisskopf, R. F. Elsner, B. D. Ramsey, et al. (ES84)
109. Stellar Flares and Gamma-Ray Bursts. In Gamma-Ray Bursts, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 428-432 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). P. Li, K. Hurley, G. J. Fishman, and C. Kouveliotou. (ES81)

Contributions to Books, Conference Proceedings, Etc. (continued)

110. Stray Light Analysis of a Reflecting UV Coronagraph/Polarimeter with Multilayer Optics. In *X-Ray and Ultraviolet Polarimetry*, SPIE Vol. 2010, edited by S. Fineschi, pp. 78-92 (1994) (proceedings 1993 SPIE Symposium on Optical Instrumentation and Applied Science, San Diego, California, July 11-16, 1993). S. Fineschi, M. Romoli, R. B. Hoover, P. C. Baker, M. Zukic, and J. Kim. (ES82)
111. Structure of Serum Albumin. In *Advances in Protein Chemistry: Lipoproteins, Apolipoproteins, and Lipases*, edited by V. N. Schumaker, Vol. 45, pp. 153-203 (1994) (Academic Press). D. C. Carter and J. X. Ho. (ES76)
112. Studies on Tetragonal Lysozyme Crystal Growth Rates. In *Acta Cryst.*, Vol. D50, pp. 617-619 (1994) (proceedings Fifth International Conference on the Crystallization of Biological Macromolecules, San Diego, California, August 8-13, 1993). E. Forsythe, F. Ewing, and M. Pusey. (ES76)
113. Study of the Precision of the Gamma-Ray Burst Source Locations Obtained with the Ulysses/PVO/CGRO Network. In *Gamma-Ray Bursts*, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 373-376 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). T. L. Cline, K. C. Hurley, M. Sommer, M. Böer, M. Niel, G. J. Fishman, C. Kouveliotou, C. A. Meegan, W. S. Paciesas, R. B. Wilson, J. G. Laros, and R. W. Klebesadel. (ES81)
114. Synchrotron White Beam Reflection Topography of Interfaces in Gallium-Doped Germanium. In *1993 National Synchrotron Light Source Annual Report*, edited by S. L. Hulbert and N. M. Lazarz, p. B-174 (1994) (BNL Associated Universities, Inc.). W. Zhou, M. Dudley, C.-H. Su, D. C. Gillies, F. R. Szofran, and S. L. Lehoczky. (ES75)
115. Theoretical and Experimental Studies on the Stabilization of Hydrodynamic Flow in Free Fluid Electrophoresis. Chapter 3 in *Cell Electrophoresis*, edited by Johann Bauer (CRC Press: Boca Raton). P. H. Rhodes and R. S. Snyder. (ES76)
116. Thermal Remote Sensing in Landscape Ecology: A Powerful Tool in the Characterization of Landscapes on a Functional Basis. In *Thermal Remote Sensing of the Energy and Water Balance Over Vegetation in Conjunction with Other Sensors*, pp. 201-204 (1994) (workshop held La Londe Les Mautes, France, September 20-23, 1993). J. C. Luvall, K. James, and E. Schneider. (ES44)

Contributions to Books, Conference Proceedings, Etc. (continued)

117. Time Asymmetry in Gamma-Ray Burst Light Curves. In *Gamma-Ray Bursts*, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 237-241 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). R. J. Nemiroff, J. P. Norris, C. Kouveliotou, G. J. Fishman, C. A. Meegan, and W. S. Paciesas. (ES84)
118. TIMS Data for Measurement of Thermal Responses Over Mountain Desert Terrain. In *Thermal Remote Sensing of the Energy and Water Balance Over Vegetation in Conjunction with Other Sensors*, pp. 317-324 (1994) (workshop held La Londe Les Maures, France, September 20-23, 1993). Dale A. Quattrochi and E. G. Astling. (ES44)
119. Two and a Half Years of BATSE Burst Observations. In *Gamma-Ray Bursts*, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 3-12 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). C. Meegan, G. Fishman, R. Wilson, M. Brock, J. Horack, W. Paciesas, G. Pendleton, M. Briggs, T. Koshut, C. Kouveliotou, B. Teegarden, J. Matteson, and J. Hakkila. (ES84)
120. Two Classes of Gamma-Ray Bursts. In *Gamma-Ray Bursts*, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 167-171 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). C. Kouveliotou, C. A. Meegan, G. J. Fishman, P. N. Bhat, M. S. Briggs, T. M. Koshut, W. S. Paciesas, and G. N. Pendleton. (ES84)
121. The Ulysses Supplement to the First BATSE Catalog of Gamma-Ray Bursts. In *Gamma-Ray Bursts*, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 27-31 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). K. Hurley, M. Sommer, C. Kouveliotou, G. Fishman, C. Meegan, T. Cline, M. Böer, and M. Niel. (ES84)
122. The Use of an Aircraft-Based Thermal Infrared Multispectral Scanner (TIMS) Data to Measure Surface Energy Budgets on a Landscape Scale. In *Thermal Remote Sensing of the Energy and Water Balance Over Vegetation in Conjunction with Other Sensors*, pp. 275-279 (1994) (workshop held La Londe Les Maures, France, September 20-23, 1993). Jeffrey C. Luvall. (ES44)

Contributions to Books, Conference Proceedings, Etc. (continued)

123. Use of Poly(ethylene Glycol)-Modified Antibody in Cell Extraction. In Methods in Enzymology-Aqueous Two-Phase Systems, Vol. 228, edited by H. Walter and G. Johansson, pp. 377-390 (1994) (Academic Press: San Diego). L. L. Karr, D. L. Donnelly, A. Kozlowski, and J. M. Harris. (ES76)
124. Use of Thermal Infrared Multispectral Scanner (TIMS) Data for Analysis of Urban Landscape and Vegetation Responses. In Thermal Remote Sensing of the Energy and Water Balance Over Vegetation in Conjunction with Other Sensors, pp. 221-226 (1994) (workshop held La Londe Les Maures, France, September 20-23, 1993). Dale A. Quattrochi. (ES44)
125. Using Contour Maps to Search for Red-Shifted 511 keV Features in BATSE GRB Spectra. In Gamma-Ray Bursts, AIP Conf. Proc. No. 307, edited by G. J. Fishman, J. J. Brainerd, and K. Hurley, pp. 711-714 (1994) (AIP: New York) (proceedings of Second Huntsville Gamma-Ray Burst Workshop, Huntsville, Alabama, October 20-22, 1993). P. G. Varmette, J. P. Lestrade, G. J. Fishman, C. A. Meegan, M. N. Brock, R. D. Preece, M. S. Briggs, G. N. Pendleton, and W. S. Paciesas. (ES81)
126. V1357 Cygni. IAU Circular #5881 (1994). B. A. Harmon, G. J. Fishman, B. C. Rubin, C. A. Wilson, and W. S. Paciesas. (ES84)
127. The Visible or Sensible Earth. In GIS World Sourcebook, pp. 304-306 (GIS World: Ft. Collins, Colorado) (1994). Dale A. Quattrochi. (ES44)
128. X-Ray Detectors Probe Energetic Processes in Our Universe. In Laser Focus World, pp. S9-S19 (1994). B. D. Ramsey and R. A. Austin. (ES84)
129. X-Ray/EUV/FUV Calibration of Photographic Films for Solar Research. In Multilayer and Grazing Incidence X-Ray/EUV Optics II, SPIE Vol. 2011, edited by R. B. Hoover and A.B.C. Walker, Jr., pp. 504-516 (1994) (proceedings 1993 SPIE Symposium on Optical Instrumentation and Applied Science, San Diego, California, July 11-16, 1993). R. B. Hoover, A.B.C. Walker, Jr., C. E. DeForest, M. J. Allen, and D. B. Gore. (ES82)
130. X-Ray Nova in Ophiuchus. IAU Circular #5900 (1994). B. A. Harmon, G. J. Fishman, W. S. Paciesas, and S. N. Zhang. (ES84)
131. X-Ray Nova in Ophiuchus. IAU Circular #5913 (1994). B. A. Harmon and W. S. Paciesas. (ES84)

Contributions to Books, Conference Proceedings, Etc. (concluded)

132. X-Ray Nova in Scorpius. IAU Circular #6046 (1994). S. N. Zhang, C. A. Wilson, B. A. Harmon, G. J. Fishman, R. B. Wilson, W. S. Paciesas, M. Scott, and B. C. Rubin. (ES84)
133. X-Ray Nova in Scorpius. IAU Circular #6056 (1994). C. A. Wilson, B. A. Harmon, S. N. Zhang, W. S. Paciesas, G. J. Fishman, M. Scott, B. C. Rubin, and R. B. Wilson. (ES84)
134. X-Ray Nova in Scorpius. IAU Circular #6101 (1994). S. N. Zhang, B. A. Harmon, W. S. Paciesas, C. A. Wilson, and G. J. Fishman. (ES84)
135. X-Ray Nova in Scorpius. IAU Circular #6106 (1994). S. N. Zhang, B. A. Harmon, W. S. Paciesas, C. A. Wilson, and G. J. Fishman. (ES84)
136. X-Ray and Optical Observations of GRO J0422+32. In The Second Compton Symposium, AIP Conf. Proc. No. 304, edited by C. Fichtel, N. Gehrels, and J. Norris, pp. 319-323 (1994) (AIP: New York) (proceedings of symposium held College Park, Maryland, September 20-22, 1993). T. E. Harrison, B. J. McNamara, and B. A. Harmon. (ES84)

Published Abstracts

1. Algorithm Development for the Lightning Imaging Sensor. 1994 Fall Meeting of the American Geophysical Union, San Francisco, California, December 5-9, 1994; Eos, 75(44), 105 (1994). W. L. Boeck, D. M. Mach, S. J. Goodman, and H. J. Christian. (ES44)
2. The Application of the Network Synthesis Method to Repeating Classical Gamma-Ray Bursts. 185th Meeting of the American Astronomical Society, Tucson, Arizona, January 8-13, 1995; Bull. AAS, 26(4), 1333 (1994). K. Hurley, C. Kouveliotou, J. Fishman, C. Meegan, J. Laros, and R. Klebesadel. (ES84)
3. The BATSE Coordinates Distribution Network - A New GRB Alert System. 1994 Joint April Meeting of APS/AAPT, Crystal City, Virginia, April 18-22, 1994; Bull. APS, 39(2), 1009 (1994). S. D. Barthelmy, T. L. Cline, N. Gehrels, J. R. Kuyper, G. J. Fishman, C. Kouveliotou, and C. A. Meegan. (ES81)
4. BATSE Discovery of X-Ray Nova Scorpii 1994 (GRO J1655-40). 185th Meeting of the American Astronomical Society, Tucson, Arizona, January 8-13, 1995; Bull. AAS, 26(4), 1519 (1994). C. A. Wilson, B. A. Harmon, G. J. Fishman, S. N. Zhang, B. C. Rubin, D. M. Scott, and W. S. Paciesas. (ES84)
5. BATSE Earth Occultation Observations of Cygnus X-1 in 1993. 184th Meeting of the American Astronomical Society, Minneapolis, Minnesota, May 29-June 2, 1994; Bull. AAS, 26(2), 971 (1994). J. C. Ling, W. A. Wheaton, R. T. Skelton, B. A. Harmon, B. C. Rubin, G. J. Fishman, and W. S. Paciesas. (ES84)
6. BATSE Observations of the Hard X-Ray Transient GRS1915+105. 185th Meeting of the American Astronomical Society, Tucson, Arizona, January 8-13, 1995; Bull. AAS, 26(4), 1484 (1994). K. J. Deal, W. S. Paciesas, M. S. Briggs, G. N. Pendleton, B. A. Harmon, C. A. Wilson, G. J. Fishman, and S. N. Zhang. (ES84)
7. Coincident Observations of Thunderstorms from DMSP Satellites and Ground-Based Lightning Networks During the 12-13 March 1993 "Storm of the Century." 1994 Fall Meeting of the American Geophysical Union, San Francisco, California, December 5-9, 1994; Eos, 75(44), 103 (1994). S. J. Goodman, G. Scharfen, and K. W. Knowles. (ES44)
8. Comments on the Accuracy of Angular Clustering Tests Used to Study Repeating Gamma-Ray Bursts in BATSE Data. 184th Meeting of the American Astronomical Society, Minneapolis, Minnesota, May 29-June 2, 1994; Bull. AAS, 26(2), 873 (1994). V. C. Vo, J. Hakkila, L. M. Pearson, C. A. Meegan, D. H. Hartmann, J. M. Horack, G. J. Fishman, G. N. Pendleton, R. B. Wilson, M. N. Brock, W. S. Paciesas, and M. S. Briggs. (ES84)

Published Abstracts (continued)

9. Compatibility of the BATSE Gamma-Ray Burst Data with General Friedmann Cosmological Models. 184th Meeting of the American Astronomical Society, Minneapolis, Minnesota, May 29-June 2, 1994; Bull. AAS, 26(2), 892 (1994). A. G. Emslie and J. M. Horack. (ES84)
10. Connection Between Pulse Asymmetry and Spectral Softening in Gamma-Ray Bursts. 185th Meeting of the American Astronomical Society, Tucson, Arizona, January 8-13, 1995; Bull. AAS, 26(4), 1333 (1994). J. P. Norris, R. J. Nemiroff, J. T. Bonnell, W. S. Paciesas, C. Kouveliotou, G. J. Fishman, and C. A. Meegan. (ES84)
11. Constraints on the Luminosity Function of Gamma-Ray Bursts Detected by BATSE. 184th Meeting of the American Astronomical Society, Minneapolis, Minnesota, May 29-June 2, 1994; Bull. AAS, 26(2), 881 (1994). J. M. Horack and A. G. Emslie. (ES84)
12. Continuous Monitoring of NGC 4151 with CGRO/BATSE. 185th Meeting of the American Astronomical Society, Tucson, Arizona, January 8-13, 1995; Bull. AAS, 26(4), 1499 (1994). A. Parsons, N. Gehrels, W. Paciesas, A. Harmon, and G. Fishman. (ES84)
13. Coronal Bright Points and High Speed/High Latitude Solar Wind Streams. 1994 Fall Meeting of the American Geophysical Union, San Francisco, California, December 5-9, 1994; Eos, 75(44), 512 (1994). S. T. Suess, G. Poletto, M. Neugebauer, B. E. Goldstein, J. Khan, Y. Uchida, E. Hiei, K. Strong, and K. Harvey. (ES82)
14. Electron Bulk Energization in Solar Flares: New Promise for Fermi Acceleration by MHD Turbulence. 1994 Spring Meeting of the American Geophysical Union, Baltimore, Maryland, May 23-27, 1994; Eos, 75(16), 263 (1994). T. N. LaRosa, J. A. Miller, R. L. Moore, and S. N. Shore. (ES82)
15. An Empirically Derived Time-Dependent Plasmasphere. 1994 Spring Meeting of the American Geophysical Union, Baltimore, Maryland, May 23-27, 1994; Eos, 75(16), 258 (1994). D. L. Gallagher, P. D. Craven, and R. H. Comfort. (ES83)
16. Energy Storage and Release in the Earth's Ring Current. 1994 Fall Meeting of the American Geophysical Union, San Francisco, California, December 5-9, 1994; Eos, 75(44), 551 (1994). J. U. Kozyra, V. K. Jordanova, M.-C. Fok, and C. R. Clauer. (ES83)
17. Feasibility of the Use of Radio Imaging in Magnetospheric Studies. 1994 Spring Meeting of the American Geophysical Union, Baltimore, Maryland, May 23-27, 1994; Eos, 75(16), 259 (1994). W.W.L. Taylor, J. L. Green, R. F. Benson, S. F. Fung, M. F. Smith, W. Calvert, D. L. Carpenter, D. L. Gallagher, B. W. Reinisch, and P. H. Reiff. (ES83)

Published Abstracts (continued)

18. Fractal Dimension: A Predictor for Solar Flares. 183rd Meeting of the American Astronomical Society, Washington, D.C., January 11-15, 1994; Bull. AAS, 26(1), 794 (1994). M. Adams, Z. E. Musielak, and H. M. Jaenisch. (ES82)
19. Fractal Techniques Applied to a Flaring Active Region. 185th Meeting of the American Astronomical Society, Tucson, Arizona, January 8-13, 1995; Bull. AAS, 26(4), 1472 (1994). M. Adams and Z. E. Musielak. (ES82)
20. Further Constraints on Galactic Coronal Models of BATSE Gamma-Ray Bursts: (1) Limits on Local Group Member Contributions, and (2) Implications for Spiral Arm Plus Coronal Distributions. 184th Meeting of the American Astronomical Society, Minneapolis, Minnesota, May 29-June 2, 1994; Bull. AAS, 26(2), 881 (1994). J. Hakkila, C. A. Meegan, J. M. Horack, G. J. Fishman, G. N. Pendleton, R. B. Wilson, M. N. Brock, W. S. Paciesas, and M. S. Briggs. (ES84)
21. A Galactic Plane Supernova Search Using BATSE. 185th Meeting of the American Astronomical Society, Tucson, Arizona, January 8-13, 1995; Bull. AAS, 26(4), 1518 (1994). R. Cavallo, D. M. Smith, M. Leventhal, N. Gehrels, J. Tueller, G. Fishman, and E. Chipman. (ES81)
22. On the Global Properties of Solar Flares Observed with the Burst and Transient Source Experiment. 1994 Spring Meeting of the American Geophysical Union, Baltimore, Maryland, May 23-27, 1994; Eos, 75(16), 288 (1994). D. A. Biesecker, J. M. Ryan, and G. J. Fishman. (ES81)
23. Gross Spectral Differences Between Bright and Dim Gamma-Ray Bursts. 183rd Meeting of the American Astronomical Society, Washington, D.C., January 11-15, 1994; Bull. AAS, 26(1), 798 (1994). R. J. Nemiroff, J. T. Bonnell, J. P. Norris, W.A.D.T. Wickramasinghe, C. Kouveliotou, G. J. Fishman, C. A. Meegan, and W. S. Paciesas. (ES84)
24. Integral Moment Analysis of the BATSE Burst Intensity Distribution: Comments on Two-Population (Local Disk/Halo Plus Extended Halo) Models. 184th Meeting of the American Astronomical Society, Minneapolis, Minnesota, May 29-June 2, 1994; Bull. AAS, 26(2), 874 (1994). B. A. Thompson, J. Hakkila, V. C. Vo, C. A. Meegan, J. M. Horack, G. J. Fishman, G. N. Pendleton, R. B. Wilson, M. N. Brock, W. S. Paciesas, and M. S. Briggs. (ES84)
25. Ion Energization and Upwelling in the Low Altitude Convective Flow Reversal Region. 1994 Spring Meeting of the American Geophysical Union, Baltimore, Maryland, May 23-27, 1994; Eos, 75(16), 298 (1994). G. Ganguli, M. J. Keshinen, R. Heelis, T. Moore, C. Pollock, J. M. Picone, and R. Meier. (ES83)

Published Abstracts (continued)

26. The Ionosphere as an Alpha Particle Source. 1994 Spring Meeting of the American Geophysical Union, Baltimore, Maryland, May 23-27, 1994; Eos, 75(16), 307 (1994). B. L. Giles, T. E. Moore, and R. H. Comfort. (ES83)
27. The Kappa Distribution Derived from a Variational Principle for a Plasma. 1994 Joint April Meeting of APS/AAPT, Crystal City, Virginia, April 18-22, 1994; Bull. APS, 39(2), 1203 (1994). M. J. Pangia, C. J. Pollock, and D. L. Gallagher. (ES83)
28. Klein-Gordon Equation and Reflection of Alfvén Waves. 185th Meeting of the American Astronomical Society, Tucson, Arizona, January 8-13, 1995; Bull. AAS, 26(4), 1520 (1994). Z. E. Musielak and R. L. Moore. (ES82)
29. Lightning Characteristics in the Equatorial Region of the Western Pacific. 1994 Fall Meeting of the American Geophysical Union, San Francisco, California, December 5-9, 1994; Eos, 75(44), 100 (1994). R. E. Orville, E. J. Zipser, G. Aulich, C. Weidman, E. P. Krider, M. Brook, H. Christian, S. Goodman, and R. Blakeslee. (ES41)
30. Lightning Imaging Sensor Data Structure. 1994 Fall Meeting of the American Geophysical Union, San Francisco, California, December 5-9, 1994; Eos, 75(44), 104 (1994). D. M. Mach, W. L. Boeck, S. J. Goodman, and H. J. Christian. (ES44)
31. Low-Energy (\sim 1 keV) ENA Images During the Recovery Phase of a Magnetic Storm. 1994 Spring Meeting of the American Geophysical Union, Baltimore, Maryland, May 23-27, 1994; Eos, 75(16), 258 (1994). M.-C. Fok, T. E. Moore, C. J. Chase, and E. C. Roelof. (ES83)
32. Low-Frequency QPO in GRO J1719-24. 185th Meeting of the American Astronomical Society, Tucson, Arizona, January 8-13, 1995; Bull. AAS, 26(4), 1514 (1994). F. van der Hooft, C. Kouveliotou, J. van Paradijs, B. Rubin, M. Finger, A. Harmon, M. van der Klis, W.H.G. Lewin, J. P. Norris, and G. J. Fishman. (ES84)
33. Magnetic Field Changes at Site of Sub-Flare and Surge. 1994 Spring Meeting of the American Geophysical Union, Baltimore, Maryland, May 23-27, 1994; Eos, 75(16), 286 (1994). M. J. Hagyard. (ES82)
34. Measurements of Solar Differential Rotation from Cross-Correlation Tracking of Supergranulation. 1994 Spring Meeting of the American Geophysical Union/AAS-Solar Physics Division, Baltimore, Maryland, May 23-27, 1994; Eos, 75(16), 267 (1994). J. C. Kasher, D. H. Hathaway, et al. (ES82)

Published Abstracts (continued)

35. Microphysics from Global Images. 1994 Fall Meeting of the American Geophysical Union, San Francisco, California, December 5-9, 1994. T. E. Moore, M.-C. Fok, J. D. Perez, and J. P. Keady. (ES83)
36. A Modified Thermal Conductivity of Low Density Flux Tubes. 1994 Fall Meeting of the American Geophysical Union, San Francisco, California, December 5-9, 1994; *Eos*, 75(44), 546 (1994). R. H. Comfort and P. D. Craven. (ES83)
37. Multiwavelength Coverage of the 7 January 1992 Flare. 1994 Spring Meeting of the American Geophysical Union/AAS-Solar Physics Division, Baltimore, Maryland, May 23-27, 1994; *Eos*, 75(16), 286 (1994). A. V. Silva, M. J. Hagyard, et al. (ES82)
38. A Non-Hyperbolic Solution to the Problem of Mapping Lightning Sources Using UHV Time-of-Arrival Measurements. 1994 Fall Meeting of the American Geophysical Union, San Francisco, California, December 5-9, 1994; *Eos*, 75(44), 104 (1994). W. J. Koshak and H. J. Christian. (ES43)
39. Observations of Soft Gamma Repeaters (SGRs). 1994 Joint April Meeting of APS/AAPT, Crystal City, Virginia, April 18-22, 1994; *Bull. APS*, 39(2), 1021 (1994). C. Kouveliotou. (ES84)
40. The Optical Transient Detector. 1994 Fall Meeting of the American Geophysical Union, San Francisco, California, December 5-9, 1994; *Eos*, 75(44), 99 (1994). H. J. Christian. (ES41)
41. Overview of the ATLAS-2 Space Shuttle Mission. 1994 Spring Meeting of the American Geophysical Union, Baltimore, Maryland, May 23-27, 1994; *Eos*, 75(16), 95 (1994). T. L. Miller and S. A. Smith. (ES42)
42. Particle Transport from the Low Latitude Boundary Layer. 1994 Fall Meeting of the American Geophysical Union, San Francisco, California, December 5-9, 1994. T. E. Moore, B. L. Giles, and D. C. Delcourt. (ES83)
43. Plans for GOES/SXI: Observing Sequences and Automatic Feature Recognition. 1994 Spring Meeting of the American Geophysical Union, Baltimore, Maryland, May 23-27, 1994; *Eos*, 75(16), 275 (1994). P. L. Bornmann, R. N. Grubb, D. Speich, E. Hildner, and J. Davis. (ES82)
44. Plasmasphere Modeling with Convection. 1994 Spring Meeting of the American Geophysical Union, Baltimore, Maryland, May 23-27, 1994; *Eos*, 75(16), 307 (1994). S. M. Guter and T. E. Moore. (ES83)

Published Abstracts (continued)

45. The Polar Wind Acceleration Region: Generalized Semi-Kinetic (GSK) Simulation and Data Comparison. 1994 Spring Meeting of the American Geophysical Union, Baltimore, Maryland, May 23-27, 1994; Eos, 75(16), 307 (1994). G. R. Wilson, M. O. Chandler, and B. L. Giles. (ES83)
46. Potential Flow Downstream of a Non-Spherical Shock. 1994 Spring Meeting of the American Geophysical Union, Baltimore, Maryland, May 23-27, 1994; Eos, 75(16), 285 (1994). S. Nerney and S. T. Suess. (ES82)
47. Radio Probing of the Plasmasphere. 1994 Spring Meeting of the American Geophysical Union, Baltimore, Maryland, May 23-27, 1994; Eos, 75(16), 259 (1994). D. L. Carpenter, R. F. Benson, S. F. Fung, J. L. Green, M. F. Smith, W. Calvert, R. R. Anderson, D. L. Gallagher, P. H. Reiff, B. W. Reinisch, and W.W.L. Taylor. (ES83)
48. The Record-Shattering Gamma Ray Burst of February 17 1994. 184th Meeting of the American Astronomical Society, Minneapolis, Minnesota, May 29-June 2, 1994; Bull. AAS, 26(2), 881 (1994). K. Hurley, M. Boer, M. Niel, C. Kouveliotou, C. Meegan, G. J. Fishman, et al. (ES84)
49. Refilling Flows in a Detached Plasmaspheric Flux Tube. 1994 Fall Meeting of the American Geophysical Union, San Francisco, California, December 5-9, 1994; Eos, 75(44), 546 (1994). S. M. Guiter and T. E. Moore. (ES83)
50. Remote Sensing of the Magnetopause and Boundary Layers by Radio Sounding. 1994 Spring Meeting of the American Geophysical Union, Baltimore, Maryland, May 23-27, 1994; Eos, 75(16), 259 (1994). S. F. Fung, R. F. Benson, J. L. Green, M. F. Smith, D. L. Carpenter, W. Calvert, D. L. Gallagher, P. H. Reiff, B. W. Reinisch, and W.W.L. Taylor. (ES83)
51. Results from GROCSE, A Real-Time Search for the Optical Counterparts of Gamma-Ray Bursts. 185th Meeting of the American Astronomical Society, Tucson, Arizona, January 8-13, 1995; Bull. AAS, 26(4), 1509 (1994). C. Akerlof, B. Lee, S. Barthelmy, T. Cline, N. Gehrels, E. Ables, R. Bionta, L. Ott, H.-S. Park, G. Fishman, C. Kouveliotou, C. Meegan, and D. Ferguson. (ES81)
52. Ring Current Decay and the Corresponding ENA Flux. 1994 AGU Western Pacific Geophysics Meeting, Hong Kong, July 25-29, 1994; Eos (1994). M. C. Fok, T. E. Moore, E. C. Roelof, and C. J. Chase. (ES83)
53. The Role of Alfvèn Waves in Solar Wind Acceleration. 185th Meeting of the American Astronomical Society, Tucson, Arizona, January 8-13, 1995; Bull. AAS, 26(4), 1472 (1994). M. Krogulec, Z. E. Musielak, S. T. Suess, S. F. Nerney, and R. L. Moore. (ES82)

Published Abstracts (continued)

54. ROSAT Observations of Cool Magnetic White Dwarfs. 183rd Meeting of the American Astronomical Society, Washington, D.C., January 11-15, 1994; Bull. AAS, 26(1), 792 (1994). Z. E. Musielak, J. M. Davis, J. G. Porter, and V. L. Trimble. (ES82)
55. ROSAT Observations of the May 1 1992 Gamma Ray Burst Source. 184th Meeting of the American Astronomical Society, Minneapolis, Minnesota, May 29-June 2, 1994; Bull. AAS, 26(2), 873 (1994). M. Sommer, K. Hurley, P. Li, C. Kouveliotou, G. J. Fishman, M. Boer, M. Niel, J. Laros, and T. Cline. (ES81)
56. Search for Faint Black Hole Transients: Results for EX01846-031. 185th Meeting of the American Astronomical Society, Tucson, Arizona, January 8-13, 1995; Bull. AAS, 26(4), 1514 (1994). J. Grindlay, D. Barret, P. Bloser, M. Garcia, J. McClintock, P. Zhao, S. Zhang, A. Harmon, W. Paciesas, E. Ford, P. Kaaret, and M. Tavani. (ES84)
57. A Search for Hard X-Ray Emission from Globular Clusters with BATSE. 185th Meeting of the American Astronomical Society, Tucson, Arizona, January 8-13, 1995; Bull. AAS, 26(4), 1350 (1994). E. C. Ford, M. Tavani, P. Kaaret, B. A. Harmon, and S. N. Zhang. (ES84)
58. Search for Hard X-Ray Emission from the Soft X-Ray Transient Aquila X-1. 185th Meeting of the American Astronomical Society, Tucson, Arizona, January 8-13, 1995; Bull. AAS, 26(4), 1484 (1994). B. A. Harmon, S. N. Zhang, W. S. Paciesas, M. Tavani, P. Kaaret, and E. Ford. (ES84)
59. Selenium Precipitation in ZnSe Cyrstals Grown by the Physical Vapor Transport. 1994 Meeting of the American Physical Society, Pittsburgh, Pennsylvania, March 21-25, 1994; Bull. APS (1994). K. T. Chen, M. A. George, Y. Zhang, A. Burger, C.-H. Su, Y.-G. Sha, D. C. Gilles, and S. L. Lehoczky. (ES75)
60. Simulator for Hydrology and Energy Exchange at the Land Surface and Its Development Through the CaPE Hydrometeorology Project. 1994 Spring Meeting of the American Geophysical Union, Baltimore, Maryland, May 23-27, 1994; Eos, 75(16), 173 (1994). C. A. Laymon, W. L. Crosson, and S. J. Goodman. (ES44)
61. The Solar Origin of and Mass Flux in High Speed Streams at Ulysses, December 1992-August 1993. 1994 Spring Meeting of the American Geophysical Union, Baltimore, Maryland, May 23-27, 1994; Eos, 75(16), 277 (1994). S. T. Suess, M. Neugebauer, B. E. Goldstein, and G. Poletto. (ES82)

Published Abstracts (continued)

62. Solar Tomographic Imaging Using a Rotating Spectrograph (STIRS). 1994 Spring Meeting of the American Geophysical Union, Baltimore, Maryland, May 23-27, 1994; Eos, 75(16), 257 (1994). T. Cook, G. Emslie, and J. Porter. (ES82)
63. The Solar X-Ray Imager for the Geostationary Operational Environmental Satellite (GOES). 1994 Spring Meeting of the American Geophysical Union, Baltimore, Maryland, May 23-27, 1994; Eos, 75(16), 275 (1994). J. Davis and P. L. Bornmann. (ES82)
64. A Statistical Analysis of the Barium Star Spatial Distribution and Luminosity Function: Preliminary Results. 184th Meeting of the American Astronomical Society, Minneapolis, Minnesota, May 29-June 2, 1994; Bull. AAS, 26(2), 954 (1994). J. M. Myers, B. W. Mulligan, M. J. Johnson, J. Hakkila, and C. A. Meegan. (ES84)
65. A Statistical Analysis of the Type I Cepheid Spatial Distribution and Luminosity Function: Preliminary Results. 184th Meeting of the American Astronomical Society, Minneapolis, Minnesota, May 29-June 2, 1994; Bull. AAS, 26(2), 954 (1994). P. T. Bennett, J. Hakkila, and C. A. Meegan. (ES84)
66. A Statistical Analysis of the Type II Cepheid Spatial Distribution and Luminosity Function: Preliminary Results. 184th Meeting of the American Astronomical Society, Minneapolis, Minnesota, May 29-June 2, 1994; Bull. AAS, 26(2), 954 (1994). J. E. Marquardt, J. Hakkila, and C. A. Meegan. (ES84)
67. A Statistical Analysis of the Wolf-Rayet Star Spatial Distribution and Luminosity Function: Preliminary Results. 184th Meeting of the American Astronomical Society, Minneapolis, Minnesota, May 29-June 2, 1994; Bull. AAS, 26(2), 954 (1994). J. C. Hallum, J. Hakkila, and C. A. Meegan. (ES84)
68. A Study of Pulse Profile Variations from EXO 2030+375 with BATSE. 185th Meeting of the American Astronomical Society, Tucson, Arizona, January 8-13, 1995; Bull. AAS, 26(4), 1485 (1994). M. T. Stollberg, W. S. Paciesas, M. H. Finger, R. B. Wilson, and G. J. Fishman. (ES84)
69. 10 Micron Spectroscopy of 51 Ophiuchi. 184th Meeting of the American Astronomical Society, Minneapolis, Minnesota, May 29-June 2, 1994; Bull. AAS, 26(2), 883 (1994). D. K. Lynch, R. W. Russell, J. A. Hackwell, S. Fajardo-Acosta, R. Knacke, M. Hanner, and C. Telesco. (ES84)
70. 35-Day Evolution of the Her X-1 Pulse Profile: Evidence for an Inner Disk Occultation of the Pulsar. 185th Meeting of the American Astronomical Society, Tucson, Arizona, January 8-13, 1995; Bull. AAS, 26(4), 1485 (1994). D. M. Scott. (ES84)

Published Abstracts (concluded)

71. Uncertainties in X-Ray Coronal-Plasma Temperature Diagnostics Using the ASCA/SIS. 184th Meeting of the American Astronomical Society, Minneapolis, Minnesota, May 29-June 2, 1994; Bull. AAS, 26(3), 1213 (1994). M. E. Sulkanen, D. A. Swartz, S. L. O'Dell, and A. F. Tennant. (ES84)
72. The Use of Radio Imaging in Substorm Studies. 1994 Spring Meeting of the American Geophysical Union, Baltimore, Maryland, May 23-27, 1994; Eos, 75(16), 259 (1994). P. H. Reiff, J. L. Green, R. F. Benson, S. F. Fung, M. F. Smith, W. Calvert, D. L. Carpenter, D. L. Gallagher, B. W. Reinisch, and W.W.L. Taylor. (ES83)
73. The Wall of Turbulent Reconnection in a Large Solar Flare. 1994 Spring Meeting of the American Geophysical Union, Baltimore, Maryland, May 23-27, 1994; Eos, 75(16), 263 (1994). R. L. Moore, T. N. LaRosa, and L. E. Orwig. (ES82)

PRESENTATIONS

1. Aircraft Investigations of Lightning and Thunderstorms During TOGA-COARE. AMS Annual Meeting, Nashville, Tennessee, January 23-28, 1994. R. Blakeslee, J. Bailey, and H. Christian. (ES43)
2. Applications of Electrodynamic Tethers to Investigations in Ionospheric, Thermospheric, and Mesospheric Physics. Workshop on Space Tethered Missions for ITM Science, Ann Arbor, Michigan, July 6-8, 1994. N. H. Stone and M. O. Chandler. (ES83)
3. An Archive of Digital Data from the Defense Meteorological Satellite Program (DMSP). AMS 10th International Conference on Interactive Information and Processing Systems (IIPS) for Meteorology, Oceanography, and Hydrology, Nashville, Tennessee, January 23-28, 1994. H. W. Kroehl, G. R. Scharfen, E. S. Arrance, and S. J. Goodman. (ES42)
4. Astronomical Observations with Normal Incidence Multilayer Optics IV: Selection of Spectral Lines. SPIE's 1994 International Symposium on Optics, Imaging, and Instrumentation, San Diego, California, July 24-29, 1994. A.B.C. Walker, Jr., R. B. Hoover, T. W. Barbee, Jr., C. DeForest, and J. Plummer. (ES82)
5. Basic Feature of the STS/Spacelab Vibration Environment. Fifth European Symposium on Space Environmental Control Systems and 24th International Conference on Environmental Systems, Friedrichshafen, Germany, July 20-23, 1994. C. R. Baugher and N. Ramachandran. (ES75)
6. BATSE Earth Occultation Observations of Cygnus X-1 from 1991 to 1994: Long-Term Temporal Behavior. 1994 Meeting of the AAS High Energy Astrophysics Division, Napa Valley, California, November 2-5, 1994. W. S. Paciesas, G. N. Pendleton, B. A. Harmon, C. A. Wilson, B. C. Rubin, et al. (ES84)
7. BATSE Observations of Galactic Black Hole Candidates. NATO Advanced Study Institute: The Gamma-Ray Sky with Compton GRO and Sigma, Les Houches, France, January 25-February 4, 1994 (to appear in proceedings). W. S. Paciesas, B. A. Harmon, B. C. Rubin, C. A. Wilson, and S. N. Zhang. (ES84)
8. BATSE Observations of Gamma-Ray Bursts. 30th Plenary Meeting of COSPAR, Hamburg, Germany, July 20-21, 1994. C. Kouveliotou. (ES84)

Presentations (continued)

9. BATSE Observations of the Power Spectrum of Nova Persei. NATO Advanced Study Institute: The Gamma-Ray Sky with Compton GRO and Sigma, Les Houches, France, January 25-February 4, 1994 (to appear in proceedings). B. C. Rubin, C. Kouveliotou, J. van Paradijs, M. H. Finger, B. A. Harmon, G. J. Fishman, C. A. Meegan, R. B. Wilson, and W. S. Paciesas. (ES84)
10. BATSE Observations of the Reactivation of the Soft Gamma Repeater SGR 1806-20. New Horizon of X-Ray Astronomy--First Results from ASCA, Tokyo, Japan, March 8-11, 1994 (to appear in proceedings). C. Kouveliotou. (ES84)
11. Challenges and Opportunities in Visualization for NASA's EOS Mission to Planet Earth. IEEE Visualization '94 Conference, Washington, D.C., October 17-21, 1994. M. Botts, J. D. Dykstra, L. S. Elson, S. J. Goodman, and M. Lee. (ES44)
12. Characteristics of Annulus Baroclinic Wave Structure During Amplitude Vacillation. International Symposium on Life Cycles of Extratropical Cyclones, Bergen, Norway, June 27-July 1, 1994. H.-I. Lu and T. L. Miller. (ES42)
13. De Novo Design of Human Immunodeficiency Virus Protease-Inhibitor Complexes. International Conference on Evolutionary Computation, Jerusalem, Israel, October 9-14, 1994. D. A. Noever and S. Baskaran. (ES76)
14. De Novo Design of Human Immunodeficiency Virus Protease-Inhibitor Complexes. Technology 2004 Symposium, Washington, D.C., November 1994. D. A. Noever. (ES76)
15. Design, Structure, and Performance of Narrow Band Multilayer Mirrors for Solar Imaging. SPIE's 1994 International Symposium on Optics, Imaging, and Instrumentation, San Diego, California, July 24-29, 1994. J. Pedulla, R. D. Deslattes, C. Tarrio, A. Bartos, and R. B. Hoover. (ES82)
16. The Development of Microstrip Proportional Counters for X-Ray Astronomy. SPIE's 1994 International Symposium on Optics, Imaging, and Instrumentation, San Diego, California, July 24-29, 1994 (to appear in proceedings). B. D. Ramsey, J. J. Kolodziejczak, A. Fulton, J. Mir, and M. C. Weisskopf. (ES84)

Presentations (continued)

17. Development of a Hybrid Gas Detector/Phoswich for Hard X-Ray Astronomy. SPIE's 1994 International Symposium on Optics, Imaging, and Instrumentation, San Diego, California, July 24-29, 1994 (to appear in proceedings). M. M. Pimperl, B. D. Ramsey, R. A. Austin, T. Minimatani, M. C. Weisskopf, et al. (ES84)
18. Development of the Water Window Imaging X-Ray Microscope. SPIE's 1994 International Symposium on Optics, Imaging, and Instrumentation, San Diego, California, July 24-29, 1994. R. B. Hoover, D. L. Shealy, A.B.C. Walker, Jr., P. C. Baker, and T. W. Barbee, Jr. (ES82)
19. Diagnostics of Macroscale Cloud Systems and Their Relationships to Kinematic and Thermodynamic Forcing. European Conference on Global Energy and Water Cycle, London, United Kingdom, July 18-22, 1994. Franklin R. Robertson and William E. McCaul. (ES42)
20. Earth Occultation All-Sky Imaging with BATSE/CGRO. Workshop on Imaging in High Energy Astronomy, Frascati, Italy, September 26-30, 1994 (to appear in proceedings). S. N. Zhang, G. J. Fishman, B. A. Harmon, and W. S. Paciesas. (ES84)
21. Earth Occultation All-Sky Imaging with BATSE/CGRO. Colloquium, University of Southampton, United Kingdom, September 22-23, 1994. S. N. Zhang, G. J. Fishman, B. A. Harmon, and W. S. Paciesas. (ES84)
22. Effects on the Chemical and Optical Properties of Copper when Exposed in a Low-Earth Orbit. Eighth Annual Alabama Materials Research Conference, Tuscaloosa, Alabama, September 26-27, 1994. P. J. Pettigrew, G. Raiker, R. Connatser, L. Christl, J. C. Gregory, and P. Peters. (ES75)
23. An Empirically Derived Time-Dependent Plasmasphere. 1994 Huntsville Workshop, Guntersville, Alabama, October 16-19, 1994 (to appear in proceedings). D. L. Gallagher, P. D. Craven, and R. H. Comfort. (ES83)
24. Evaluating Microscale Effects on Mesoscale Transport. 1994 Huntsville Workshop, Guntersville, Alabama, October 16-19, 1994 (to appear in proceedings). T. E. Moore. (ES83)
25. Gamma-Ray Bursts: Observational Overview. IAU Symposium No. 165, Compact Stars in Binaries, The Hague, The Netherlands, August 15-19, 1994 (to appear in proceedings). G. J. Fishman. (ES81)

Presentations (continued)

26. Gamma-Ray Bursts: Observational Overview and Counterpart Prospects. IAU Colloquium No. 151, Flares and Flashes, Sonnenberg, Germany, December 5-9, 1994 (to appear in proceedings). G. J. Fishman. (ES81)
27. Gamma-Ray Burst Observations from BATSE on the Compton Observatory. NATO Advanced Study Institute: The Gamma-Ray Sky with Compton GRO and Sigma, Les Houches, France, January 25-February 4, 1994 (to appear in proceedings). G. J. Fishman. (ES81)
28. Gamma-Ray Bursts: Present Status of Observations. 17th Texas Symposium on Relativistic Astrophysics, Munich, Germany, December 12-17, 1994 (to appear in proceedings). G. J. Fishman. (ES81)
29. Global Distributions of Lightning Mapped from Nighttime Visible Band DMSP Satellite Data. Lightning and Mountains 1994 Conference, Chamonix Mont-Blanc, France, June 6-8, 1994. R. G. Barry, G. R. Scharfen, K. W. Knowles, and S. J. Goodman. (ES44)
30. Ground-Based Research on the Growth of II-VI Semiconductors by Physical Vapor Transport. 32nd AIAA Aerospace Sciences Meeting, Reno, Nevada, January 10-13, 1994. C.-H. Su, Y.-G. Sha, M. P. Volz, D. C. Gillies, F. R. Szofran, S. L. Lehoczky, and J. C. Wang. (ES75)
31. Ground-to-Orbit Transfer of the AXAF-I Flux Scale: In Situ Contamination Monitoring of X-Ray Telescopes. SPIE's 1994 International Symposium on Optics, Imaging, and Instrumentation, San Diego, California, July 24-29, 1994 (to appear in proceedings). R. F. Elsner, M. Joy, S. L. O'Dell, B. D. Ramsey, and M. C. Weisskopf. (ES84)
32. Guess Dependence of the Physical Split Window Technique for the Retrieval of Integrated Water Content. Seventh Conference on Satellite Meteorology and Oceanography, Monterey, California, June 6-10, 1994. Gary J. Jedlovec and Grant S. Carlson. (ES43)
33. Heat, Moisture, and Radiation Diagnostics of Convectively-Active Storms Over the GCIP Area. European Conference on the Global Energy and Water Cycle, London, England, July 1994. D. J. Perkey, S. R. Dembek, F. R. Robertson, and K. G. Doty (ES42)
34. High Energy Spectral Evolution of GRBs Observed by BATSE. 1994 Meeting of the AAS High Energy Astrophysics Division, Napa Valley, California, November 2-5, 1994. R. D. Preece, M. S. Briggs, G. N. Pendleton, W. S. Paciesas, C. Kouveliotou, et al. (ES84)

Presentations (continued)

35. High Speed Solar Wind Streams and Coronal Bright Points. Third SOHO Workshop, Estes Park, Colorado, September 26-29, 1994. G. Poletto, S. T. Suess, J. Khan, Y. Uchida, E. Hier, B. Goldstein, M. Neugebauer, and K. Harvey. (ES82)
36. High Resolution X-Ray Spectroscopy with a Rocket Borne Cosmic X-Ray Microcalorimeter Spectrograph. SPIE's 1994 International Symposium on Optics, Imaging, and Instrumentation, San Diego, California, July 24-29, 1994. A.B.C. Walker, Jr., R. B. Hoover, L. Lesyna, and M. P. Ulmer. (ES82)
37. Imaging Gas Counters for X- and Gamma-Ray Astronomy. Workshop on Imaging in High Energy Astronomy, Frascati, Italy, September 26-30, 1994 (to appear in proceedings). B. D. Ramsey. (ES84)
38. The Imaging Properties of a Silicon Wafer X-Ray Telescope. SPIE's International Symposium on Optics, Imaging, and Instrumentation, San Diego, California, July 24-29, 1994 (to appear in proceedings). M. Joy, M. C. Weisskopf, S. Fair, J. Kolodziejczak, and B. D. Ramsey. (ES84)
39. The Importance of "Electron Tracking" in Proportional Counters. SPIE's 1994 International Symposium on Optics, Imaging, and Instrumentation, San Diego, California, July 24-29, 1994 (to appear in proceedings). J. Youngen, R. Austin, K. Dietz, S. L. O'Dell, B. D. Ramsey, A. Tennant, and M. C. Weisskopf. (ES84)
40. Influence of Substituents on Hyperpolarizability of Substituted Benzylidine-Anils. 71st Annual Meeting of the Alabama Academy of Science, Troy, Alabama, March 23-26, 1994. K. Bhat, K. J. Chang, M. D. Aggarwal, W. S. Wang, M. Sanghadasa, T. A. Barr, Jr., N. B. Laxmeshwar, B. G. Penn, and D. O. Frazier. (ES76)
41. INTEGRAL X-Ray Monitor: A Proposal for the Hard X-Ray Imager On-board INTEGRAL. Workshop on Imaging in High Energy Astronomy, Frascati, Italy, September 26-30, 1994 (to appear in proceedings). P. Ubertini, B. Ramsey, M. Weisskopf, et al. (ES84)
42. The Intensity and Spectral Behavior of GRO J1719-24 = GRS 1716-249 (X-Ray Nova Ophiuchi 1993). IAU Symposium No. 165, Compact Stars in Binaries, The Hague, The Netherlands, August 15-19, 1994 (to appear in proceedings). B. A. Harmon, C. A. Wilson, W. S. Paciesas, G. N. Pendleton, B. C. Rubin, and S. N. Zhang. (ES84)

Presentations (continued)

43. Intercomparisons of Global Lightning and Rainfall Observations from Space. AMS Symposium on the Global Electric Circuit, Global Change, and the Meteorological Applications of Lightning Information, Nashville, Tennessee, January 23-28, 1994. S. J. Goodman, H. J. Christian, and G. Scharfen. (ES42)
44. Intransitivities in Numerical Climate Prediction. AMS Sixth Conference on Climate Variations, Nashville, Tennessee, January 23-28, 1994. H.-I. Lu, and T. L. Miller. (ES42)
45. Large Scale Structure of Water Vapor and Condensate Over the TOGA-COARE Region. AMS Sixth Conference on Climate Variations, Nashville, Tennessee, January 23-28, 1994. Franklin R. Robertson and E. W. McCaul. (ES42)
46. Large-Scale Water Vapor and Condensate Balance Over the TOGA-COARE Region. AGU Chapman Conference on Water Vapor in the Climate System, Jekyll Island, Georgia, October 25-28, 1994 (to appear in proceedings). F. R. Robertson, E. W. McCaul, and C. Cohen. (ES42)
47. Large Third-Order Nonlinearities of Metal-Free Phthalocyanines Films. OSA Annual Meeting and ILS-X, Dallas, Texas, October 2-7, 1994. H. Abdeldayem, C. E. Banks, R. Hicks, B. G. Penn, and D. O. Frazier. (ES75)
48. The Long-Term Hard X-Ray Behavior of Cygnus X-1. IAU Symposium No. 165, Compact Stars in Binaries, The Hague, The Netherlands, August 15-19, 1994 (to appear in proceedings). W. S. Paciesas, G. N. Pendleton, B. A. Harmon, C. A. Wilson, B. C. Rubin, J. C. Ling, R. T. Skelton, and W. A. Wheaton. (ES84)
49. Mass Flux and Crystal Growth of ZnSe by PVT. Eighth International Conference on Vapor Growth and Epitaxy, Germany, July 24-29, 1994. Y.-G. Sha, C.-H. Su, W. Palosz, M. P. Volz, D. C. Gillies, F. R. Szofran, S. L. Lehoczky, H.-C. Liu, and R. F. Brebrick. (ES75)
50. A Mesoscale Moisture Analysis of a Florida Sea Breeze from CAPE. Sixth Conference on Mesoscale Processes, Portland, Oregon, July 17-22, 1994. A. R. Guillory and G. J. Jedlovec. (ES43)
51. Modulation in the Heliosheath. Second Pioneer-Voyager Symposium, Durham, New Hampshire, May 31-June 3, 1994. S. T. Suess. (ES82)

Presentations (continued)

52. Molecular Contamination Study of Iridium-Coated X-Ray Mirrors. SPIE's 1994 International Symposium on Optics, Imaging, and Instrumentation, San Diego, California, July 24-29, 1994 (to appear in proceedings). D. E. Graessle, R. F. Elsner, S. L. O'Dell, et al. (ES84)
53. The Moving Gradient Heat Pipe Furnace and Its Potential for Use in Space Flight Operations. 1994 AIAA Space Programs and Technologies Conference, Huntsville, Alabama, September 27-29, 1994. D. C. Gillies, S. L. Lehoczky, N. J. Gernert, G. J. Baldassarre, and C. W. Bahr. (ES75)
54. The Multi-Spectral Solar Telescope Array VIII: Results of the Second Flight. SPIE's 1994 International Symposium on Optics, Imaging, and Instrumentation, San Diego, California, July 24-29, 1994. A.B.C. Walker, Jr., R. B. Hoover, T. W. Barbee, Jr., C. DeForest, J. Plummer, D. Martinez-Galarce, and M. Allen. (ES82)
55. The NASA Electrophoresis Program. International Aerospace Congress, Moscow, August 15-19, 1994. R. S. Snyder and P. H. Rhodes. (ES71)
56. NASA Shuttle Lightning Research: Observations of Nocturnal Thunderstorms and Lightning Displays as Seen During Recent Space Shuttle Missions. SPIE's 1994 International Symposium on Optics, Imaging, and Instrumentation, San Diego, California, July 24-29, 1994 (to appear in proceedings). O. H. Vaughan. (ES43)
57. Nearly Steady Flows in GONG Prototype Data. GONG Meeting, Los Angeles, California, May 15-21, 1994 (to appear in proceedings). D. H. Hathaway. (ES82)
58. A New, Advanced Fourier Telescope Performance for Hard X-Ray Imaging of the Sun. SPIE's 1994 International Symposium on Optics, Imaging, and Instrumentation, San Diego, California, July 24-29, 1994. Jonathan Campbell. (ES84)
59. Observable Signals from Coronal Heating Processes. IAU Symposium No. 165, Compact Stars in Binaries, The Hague, The Netherlands, August 15-19, 1994 (to appear in proceedings). P. Venkatakrishnan. (ES82)
60. Observation of Black Hole Candidates with BATSE. Snowmass 94-Particle and Nuclear Astrophysics and Cosmology in the Next Millennium, Snowmass, Colorado, July 6-9, 1994. B. A. Harmon. (ES84)

Presentations (continued)

61. Observations of Nocturnal Thunderstorms and Lightning Displays as Seen During Recent Space Shuttle Missions. 32nd AIAA Aerospace Sciences Meeting, Reno, Nevada, January 10-13, 1994. O. H. Vaughan. (ES43)
62. Observations of Nocturnal Thunderstorms and Lightning Displays as Seen During Recent Space Shuttle Missions. AMS Annual Meeting, Nashville, Tennessee, January 23-28, 1994. O. H. Vaughan. (ES43)
63. Observations of Soft Gamma Ray Repeaters. IAU No. 165, Compact Stars in Binaries, The Hague, The Netherlands, August 15-19, 1994 (to appear in proceedings). C. Kouveliotou. (ES84)
64. An Optimized Solution Arising from Experiments in X-Ray Crystallography of Proteins: Preliminary Findings on Computation. American Crystallographic Association Meeting, Atlanta, Georgia, June 18, 1994. David A. Noever and Subiiah Baskaran. (ES76)
65. Oscillations in Daily Tropical Average Rainfall, Temperature, and OLR. AMS Annual Meeting, Nashville, Tennessee, January 23-28, 1994. Roy W. Spencer and Vanessa L. Griffin. (ES43)
66. Plasmasphere Modeling with Ring Current Heating. 1994 Huntsville Workshop, Guntersville, Alabama, October 16-19, 1994 (to appear in proceedings). S. M. Guiter, T. E. Moore, and M.-C. Fok. (ES83)
67. Plausibility and Evidence of Ionospheric Transverse Ion Acceleration by Lower Hybrid Waves. 1994 Huntsville Workshop, Guntersville, Alabama, October 16-19, 1994. C. J. Pollock. (ES83)
68. Polarization Characteristics of the MSFC Experimental Vector Magnetograph. SPIE's 1994 International Symposium on Optics, Imaging, and Instrumentation, San Diego, California, July 24-29, 1994 (to appear in proceedings). E. West and M. H. Smith. (ES82)
69. Polarization Errors Associated with Birefringent Waveplates. SPIE's 1994 International Symposium on Optics, Imaging, and Instrumentation, San Diego, California, July 24-29, 1994 (to appear in proceedings). E. West and M. H. Smith. (ES82)
70. A Portable Ground-Based Atmospheric Monitoring System (PGAMS) for the Calibration and Validation of Atmospheric Correction Algorithms Applied to Satellite Images. 1994 SPIE Symposium on Optical Engineering in Aerospace Sensing, Orlando, Florida, April 4-8, 1994 (to appear in proceedings). S. Schiller and J. Luvall. (ES42)

Presentations (continued)

71. Preliminary Science Results for the United States Microgravity Payload Mission 2. Sixth Annual Spacebound Conference, Montreal, Quebec, Canada, May 18-20, 1994. P. A. Curreri. (ES75)
72. Preparation of N-(e-Nitrophenyl)-N-Methylaminoacetonitrile (NPAN) Derivatives for Nonlinear Optics. SACNAS (Society for Advancement of Chicanos and Native Americans in Science), Chicago, Illinois, March 24-28, 1994. E. Romero, R. D. Clark, and B. Penn. (ES76)
73. Problems with Thermal Conductivity in Simulating Ion Temperatures in Low Density Flux Tubes. 1994 Huntsville Workshop, Guntersville, Alabama, October 16-19, 1994 (to appear in proceedings). R. H. Comfort, P. G. Richards, P. D. Craven, and M. O. Chandler. (ES84)
74. Properties of Gamma-Ray Burst Precursor Activity as Observed by BATSE. 1994 Meeting of the AAS High Energy Astrophysics Division, Napa Valley, California, November 2-5, 1994. T. M. Koshut, C. Kouveliotou, W. S. Paciesas, G. N. Pendleton, G. J. Fishman, and C. A. Meegan. (ES84)
75. The Quick, Cheap, and Beautiful X-Ray Polarimeter. SPIE's International Symposium on Optics, Imaging, and Instrumentation, San Diego, California, July 24-29, 1994 (to appear in proceedings). M. C. Weisskopf, R. F. Elsner, M. Joy, S. L. O'Dell, and B. D. Ramsey. (ES01)
76. Quantitative Numerical Modeling of a Coronal Mass Ejection. Third SOHO Workshop, Estes Park, Colorado, September 26-29, 1994. Ai-Hua Wang, S. T. Wu, S. T. Suess, and G. Poletto. (ES82)
77. Quantitative Studies of Solar Active Region Loops Observed in Soft X-Ray from Yohkoh. 30th Plenary Meeting of COSPAR, Hamburg, Germany, July 10-22, 1994. C. C. Cheng, S. T. Wu, M. J. Hagyard, and E. Hiei. (ES82)
78. Rainfall Estimation Using Satellite Data. Seventh Conference on Satellite Meteorology, Monterey, California, June 6-10, 1994. D. E. Buechler, H. J. Christian, and S. J. Goodman. (ES41)
79. Refractive Index Measurement of Some Organic Materials and Water. 1st Annual Meeting of the Alabama Academy of Science, Troy, Alabama, March 23-26, 1994. A. Wilson, K. J. Chang, B. G. Penn, and D. O. Frazier. (ES76)

Presentations (continued)

80. Remote Sensing Instrumentation for Earth System Science at NASA Marshall Space Flight Center. First International Airborne Remote Sensing Conference and Exhibition, Strasbourg, France, September 11-15, 1994. A. R. Guillory, R. J. Blakeslee, R. E. Hood, G. J. Jedlovec, D. M. Mach, J. Rothermel, and R. W. Spencer. (ES43)
81. Remote Sensing of Substorm Dynamics via Radio Sounding. AGU Second International Conference on Substorms, Fairbanks, Alaska, May 18, 1994 (to appear in proceedings). P. H. Reiff, J. L. Green, R. F. Benson, D. L. Carpenter, W. Calvert, S. F. Fung, D. L. Gallagher, Y. Omura, B. W. Reinisch, M. F. Smith, and W.W.L. Taylor. (ES83)
82. Research Opportunities with the Pathfinder MSU Daily Temperature Datasets, Seventh Conference on Satellite Meteorology and Oceanography, Monterey, California, June 6-10, 1994. R. W. Spencer and V. L. Griffin. (ES43)
83. The Retrieval of Integrated Water Content from GOES I. Seventh Conference on Satellite Meteorology and Oceanography, Monterey, California, June 6-10, 1994. Gary J. Jedlovec, Anthony R. Guillory, and Grant S. Carlson. (ES43)
84. Retrieval of Rainrate Over Rough Sea Surfaces as Measured by the Advanced Microwave Precipitation Radiometer (AMPR). 1994 International Geoscience and Remote Sensing Symposium, Pasadena, California, August 8-12, 1994 (to appear in proceedings). Steve S.-T. Wu. (ES43)
85. Ring Current-Plasmasphere Coupling Through Coulomb Collisions. 1994 Huntsville Workshop, Guntersville, Alabama, October 16-19, 1994 (to appear in proceedings). M. C. Fok, P. D. Craven, T. E. Moore, and P. G. Richards. (ES84)
86. A Search for Shocked Grains in the KT Boundary at Braggs, Alabama. New Developments Regarding the KT Event and Other Catastrophes in Earth History, Houston, Texas, February 9-12, 1994. S. Y. Wdowiak, T. J. Wdowiak, D. C. Gillies, and M. Dudley. (ES75)
87. A Sensitivity Analysis of the Split Window Variance Ratio Technique for Estimating Precipitable Water. Seventh AMS Satellite Conference, Monterey, California, June 6-10, 1994. R. D. Knabb, H. E. Fuelberg, and G. J. Jedlovec. (ES43)

Presentations (continued)

88. Simulation of Future Passive Microwave Satellite Instruments Using High Resolution AMPR Aircraft Data. Seventh AMS Conference on Satellite Meteorology, Monterey, California, June 6-10, 1994. R. E. Hood, R. W. Spencer, F. J. LaFontaine, and E. A. Smith. (ES43)
89. Simulated Interannual Variability in the Hydrologic Cycle Over North America. AMS Sixth Conference on Climate Variations, Nashville, Tennessee, January 23-28, 1994. D. Fitzjarrald, F. Robertson, E. Barron, S. Thompson, and D. Pollard. (ES42)
90. The Solar X-Ray Imager for the Geostationary Operational Environmental Satellite (GOES). AIAA Space Programs and Technologies, Huntsville, Alabama, September 27-29, 1994. J. Davis, D. Bagdigian, S. Buschmann, D. Graig, K. Russell, and K. Wallace. (ES82)
91. Spatial/Temporal Variability of Wind Fields for Design of Remote Sensors. 32nd AIAA Aerospace Sciences Meeting, Reno, Nevada, January 10-13, 1994. Michael Susko and Leroy Herman. (ES43)
92. Specimen Image Optimization for the X-Ray Transmission Microscope. Eighth Annual Alabama Materials Research Conference, Tuscaloosa, Alabama, September 26-27, 1994. W. F. Kaukler, F. Rosenberger, and P. A. Curreri. (ES75)
93. A Spectroscopic and Thermodynamic Investigation of Mercuric Iodide Physically Confined in Porous Glass Hosts. Materials Research Society Fall Meeting, Boston, Massachusetts, November 28-December 2, 1994. D. O. Henderson, R. Mu, A. Burger, T. K. Chen, and D. O. Frazier. (ES01)
94. A Statistical Algorithm for Determining Convective Instability from GOES-I Imagery. Seventh AMS Satellite Conference, Monterey, California, June 6-10, 1994. P. Anil Rao, H. E. Fuelberg, and G. J. Jedlovec. (ES43)
95. Stray Light Analysis of a Reflecting UV Coronagraph/Polarimeter with Multilayer Optics. SPIE's 1994 International Symposium on Optics, Imaging, and Instrumentation, San Diego, California, July 24-29, 1994 (to appear in proceedings). S. Fineschi, M. Romoli, R. B. Hoover, P. C. Baker, M. Zukic, J. Kim, and A.B.C. Walker, Jr. (ES82)
96. A Study of the Effects of Background Subtraction on Occultation Imaging. Workshop on Imaging in High-Energy Astronomy, Frascati, Italy, September 26-30, 1994 (to appear in proceedings). W. S. Paciesas, S. N. Zhang, B. C. Rubin, B. A. Harmon, and G. J. Fishman. (ES84)

Presentations (continued)

97. Temporal Analysis Results of Gamma-Ray Bursts. IAU Colloquium No. 151, Flares and Flashes, Sonnenberg, Germany, December 5-9, 1994 (to appear in proceedings). C. Kouveliotou, T. Belloni, M. van der Klis, J. van Paradijs, J. P. Norris, G. J. Fishman, C. A. Meegan, and W. S. Paciesas. (ES84)
98. Temporal Analysis Results of Gamma-Ray Bursts. 17th Texas Symposium on Relativistic Astrophysics, Munich, Germany, December 12-17, 1994 (to appear in proceedings). C. Kouveliotou, T. Belloni, M. van der Klis, J. van Paradijs, J. P. Norris, G. J. Fishman, C. A. Meegan, and W. S. Paciesas. (ES84)
99. Terrestrial Environment (Climatic) Criteria Guidelines Document - Updated in 1993 for Use in Aerospace Vehicle Development. 32nd AIAA Aerospace Sciences Meeting, Reno, Nevada, January 10-13, 1994. D. L. Johnson, C. K. Hill, and L. W. Tyree. (ES44)
100. Thermal Design of High Altitude Balloon Gondolas for the Antarctic. 32nd AIAA Aerospace Sciences Meeting, Reno, Nevada, January 10-13, 1994. S. Spencer, D. Clark, and T. A. Parnell. (ES84)
101. Thermal Remote Sensing for Characterization of Landscape Influences on the Urban Climate. 90th Annual Meeting of the American Association of Geographers, San Francisco, California, March 29-April 2, 1994. Dale A. Quattrochi. (ES42)
102. Thermal Remote Sensing in Landscape Ecology: A Powerful Tool in the Characterization of Landscapes on a Functional Basis. Sixth International Congress of Ecology, Manchester, England, August 20-26, 1994. Jeffrey C. Luvall, James Kay, and Eric Schneider. (ES42)
103. An Undercooling Effect in Porous Glass: From Bulk to the Confined. Materials Research Society Fall Meeting, Boston, Massachusetts, November 28-December 2, 1994. Y. Xue, R. Mu, D. O. Henderson, and D. O. Frazier. (ES01)
104. The Use of Thermal Remote Sensing in the Development of Measures of Ecosystem Development and Integrity. Sixth International Congress of Ecology, Manchester, England, August 20-26, 1994. J. C. Luvall, J. Kay, and E. Schneider. (ES44)

Presentations (concluded)

105. Using Organic Materials to Simulate Solidification Phenomena in Metals - Microstructural Development in Undercooled Alloys. Eighth Annual Alabama Materials Research Conference, Tuscaloosa, Alabama, September 26-27, 1994. R. N. Gruegel and F. Hua. (ES75)
106. Variability of Integrated Water Content (IWC) Over the Continental U.S. Water Vapor in the Climate System Conference, Jekyll Island, Georgia, October 25-28, 1994. A. R. Guillory and G. J. Jedlovec. (ES43)
107. X-Ray Performance of the Engineering Prototype Stellar X-Ray Polarimeter. SPIE's 1994 International Symposium on Optics, Imaging, and Instrumentation, San Diego, California, July 24-29, 1994 (to appear in proceedings). E. Silver, R. Elsner, M. Weisskopf, et al. (ES84)

APPENDIX

SSL PREPRINTS

1. Constraints on the Luminosity Function of Gamma-Ray Bursts Detected by BATSE. No. 94-101, February 1994. (PUBLISHED; SEE SECTION ON OPEN LITERATURE.) J. M. Horack, A. G. Emslie, and C. A. Meegan. (ES84)
2. Observation of GS 339-4 Hard State Outbursts in 1991 and 1992. No. 94-102, March 1994. (PUBLISHED; SEE SECTION ON OPEN LITERATURE.) B. A. Harmon, C. A. Wilson, W. S. Paciesas, G. N. Pendleton, M. S. Briggs, B. C. Rubin, M. H. Finger, G. J. Fishman, M. N. Brock, R. B. Wilson, and C. A. Meegan. (ES84)
3. A Maskless Gamma-Ray All-Sky Imager: BATSE/CGRO. No. 94-103, March 1994. (PUBLISHED; SEE SECTION ON OPEN LITERATURE.) S. N. Zhang, G. J. Fishman, B. A. Harmon, W. S. Paciesas, C. A. Meegan, R. B. Wilson, M. H. Finger, and B. C. Rubin. (ES84)
4. Statistical Survey of Pitch Angle Distributions in Core (0-50 eV) Ions from Dynamics Explorer 1: Outflow in the Auroral Zone, Polar Cap, and Cusp. No. 94-104, March 1994. (PUBLISHED; SEE SECTION ON OPEN LITERATURE.) B. L. Giles, C. R. Chappell, T. E. Moore, R. H. Comfort, and J. H. Waite, Jr. (ES83)
5. Papers to appear in proceedings of the Kofu Symposium, "New Look at the Sun," held Kofu, Japan, September 6-10, 1993. No. 94-105, April 1994. (PUBLISHED; SEE SECTION ON OPEN LITERATURE.) J. Porter, R. Moore, et al. (ES82)
6. The Turbulent Reconnection Wall in a Large Solar Flare. No. 94-106, April 1994, submitted to The Astrophysical Journal. R. L. Moore, T. N. LaRosa, and L. E. Orwig. (ES82)
7. Limits to Extensions of Burgers Equation. No. 94-107, June 1994, to appear in Quarterly of Applied Mathematics. S. Nerney, E. J. Schmahl, and Z. E. Musielak. (ES82)
8. BATSE Observations of Galactic Black Hole Candidates. No. 94-108, June 1994, to appear in Proceedings, NATO Advanced Study Institute: The Gamma-Ray Sky with Compton GRO and Sigma, Les Houches, France, January 25-February 4, 1994. W. S. Paciesas, B. A. Harmon, B. C. Rubin, C. A. Wilson, and S. N. Zhang. (ES84)
9. 10 μ m Detection of the Hard X-Ray Transient GRO J0422+32: Free-Free Emission from an X-Ray Driven Accretion Disk Wind? No. 94-109, June 1994. (PUBLISHED; SEE SECTION ON OPEN LITERATURE.) J. van Paradijs, C. M. Telesco, C. Kouveliotou, and G. J. Fishman. (ES84)

SSL Preprints (concluded)

10. The Continuum Spectral Characteristics of Gamma-Ray Bursts Observed by BATSE. No. 94-110, June 1994. (PUBLISHED; SEE SECTION ON OPEN LITERATURE.) G. N. Pendleton, W. S. Paciesas, M. S. Briggs, R. S. Mallozzi, T. M. Koshut, G. J. Fishman, C. A. Meegan, R. B. Wilson, A. B. Harmon, and C. Kouveliotou. (ES81)
11. BATSE Observations of Soft Gamma Repeaters. No. 94-111, June 1994, to appear in New Horizon of X-Ray Astronomy-First Results from ASCA, held Tokyo, March 8-11, 1994. C. Kouveliotou. (ES84)
12. Statistical Uncertainties in Temperature Diagnostics for Hot Coronal Plasma Using the ASCA SIS. No. 94-112, September 1994. (PUBLISHED; SEE SECTION ON OPEN LITERATURE.) D. A. Swartz, S. L. O'Dell, M. E. Sulkanen, and A. F. Tennant, Jr. (ES84)
13. Papers to appear in proceedings of: SPIE's 1994 International Symposium on Optics, Imaging, and Instrumentation (held San Diego, California, July 24-29, 1994). No. 94-113, September 1994. (PUBLISHED; SEE SECTION ON OPEN LITERATURE.) R. Austin, K. Dietz, R. Elsner, S. Fair, M. Fulton, M. Joy, J. J. Kolodziejczak, T. Minamitani, J. Mir, S. O'Dell, M. Pimperl, B. Ramsey, A. Tennant, M. Weisskopf, J. Youngen, et al. (ES84)
14. Observations of Lightning in the Stratosphere. No. 94-114, November 1994, to appear in Journal of Geophysical Research. W. L. Boeck, O. H. Vaughan, Jr., R. J. Blakeslee, B. Vonnegut, M. Brook, and J. McKune. (ES44)
15. Problems in American Education: Teaching Science and Mathematics. 94-115, December 1994, to appear in Kappa Delta Pi Record. Steven Nerney. (ES82)
16. On the Origin of "Dividing Lines" for Late-Type Giants and Supergiants. No. 94-116, December 1994, to appear in The Astrophysical Journal Letters. R. Rosner, Z. E. Musielak, F. Cattaneo, R. L. Moore, and S. T. Suess. (ES82)
17. Line-of-Sight Magnetic Flux Imbalances Caused by Electric Currents. No. 94-117, December 1994, to appear in Solar Physics. G. A. Gary and D. Rabin. (ES82)
18. Reduction, Analysis, and Properties of Electric Current Systems in Solar Active Regions. No. 94-118, December 1994, to appear in The Astrophysical Journal. G. A. Gary and P. Démoulin. (ES82)

AUTHOR INDEX

NASA REPORTS

Special Publication

Austin, R. (USRA)	1
Decher, R.	1
Ramsey, B.	1

Conference Publication

Baugher, C.	1
Frazier, D.	1
Lehoczky, S.	1
Ramachandran, N. (USRA)	1

Technical Memorandum

Arnold, J. E.	5
Atkinson, R. (MMC)	1
Butler, K. (Nichols Research)	3
Giles, B.	11, 12
Guillory, A.	1
Jedlovec, G.	1, 4, 5
Laymon, C. (USRA)	3
Meyer, P.	2
Moorehead, T.	8
Rickman, D.	3
Smith, J.	6, 13
Watring, D.	7, 10

OPEN LITERATURE

Refereed Journal Articles

Abdeldayem, H. (NRC)	30,78
Austin, R. (USRA)	57
Bailey, J. (Hughes STX)	1
Bhat, N. (NRC)	34,95
Blakeslee, R.	33,106
Boardsen, S. (NRC)	18
Briggs, M. (UAH)	72,84
Brock, M.	43,72
Christian, H.	1,34

Refereed Journal Articles (continued)

Christl, M.	65
Comfort, R. (UAH)	97
Cronise, R.	8,20,49,73,80,111
Davis, J.	92
Derrickson, J.	65
Downey, J.	14,15,96,101
Eagles, D. (NRC)	21
Elsner, R.	87
Facemire, B.	14,15
Fekel, F. (NRC)	12,13
Finger, H. (USRA)	62,66,72
Fishman, G.	4,5,7,19,22,25,32,34,43,51,52,54, 62,68,71,72,75,83,84,90,95,104
Forsythe, E. (USRA)	37
Fountain, W.	65
Frazier, D.	53,78
Gallagher, D.	82
Giles, B.	97
Gillies, D.	79,100
Goodman, H.	44,45,112
Goodman, S.	34
Hakkila, J. (NRC)	22
Harmon, B.	25,62,72
Hathaway, D.	81,91
Hood, R.	55
Horack, J.	5,22,23,34,43,56,58,71,84,89
Horwitz, J. (UAH)	10,31
Jung, Y.-D. (NRC)	74,88,105
Koshak, W.	1,33,59,106
Koshut, T. (UAH)	25,34,43,56
Kouveliotou, C. (USRA)	5,6,19,25,32,34,50,51,52,54,68, 71,75,83,84,90,95,104
LaRosa, T. (NRC)	70
LaFontaine, F. (USRA)	44,55
Lehoczky, S.	26,36,38,39,100
Leslie, F.	35,46
Loranc, M. (NRC)	107
Mach, D. (Hughes STX)	1
Mallozzi, R. (UAH)	25,34,43,56
Matsos, H.	20,73,76,80
Meegan, C.	4,5,7,19,22,23,25,30,34,43,51,52, 62,68,71,72,83,84,90,95
Melendez-Alvira, D. (NRC)	64
Miller, T.	3

Refereed Journal Articles (continued)

Moore, R.	70,85
Moore, T.	9,10,24,27,31,42,60,97
Nerney, S. (NRC)	85
Noever, D.	8,20,29,47,49,69,73,76,80,93,99, 109,111
O'Dell, S.	86,98
Paciesas, W. (UAH)	4,5,7,22,25,32,34,51,52,62,71,72, 84,95
Paley, M. (USRA)	28,78
Palosz, W. (NRC)	36
Parnell, T.	65
Pendleton, G. (UAH)	4,5,7,22,25,34,72,84,95
Penn, B.	30
Peters, P.	41,77
Pollock, C.	27
Preece, R. (NRC)	4,5,84
Pusey, M.	37
Quattrochi, D.	63
Ramachandran, N. (USRA)	40,101
Ramsey, B.	57
Reichmann, E.	91
Roberts, F.	65
Rogers, J.	14,15
Rubin, B. (USRA)	62,72
Sha, Y.-G. (USRA)	39
Shields, A.	30
Smith, M. (NTI)	44
Smith, S.	3
Spencer, R.	55
Stollberg, M. (UAH)	43,66
Stone, N.	102,103
Storey, S.	56
Su, C.-H.	38,79,100
Suess, S.	85,94
Sulkanen, M.	98
Swartz, D. (NRC)	11,98
Szofran, F.	36,38,79,100
Tandberg-Hanssen, E.	108
Telesco, C.	16,104
Tenant, A.	98,113
van Paradijs, J. (UAH)	84,104
Vlasse, M.	28,48,61
Volz, M.	39,79,100

Refereed Journal Articles (concluded)

Watring, D.	2
Watts, J.	65
Wilson-Hodge, C.	72
Wilson, R. B.	4,7,22,25,33,43,62,66,67,72,95
Wilson, R. M.	17,91
Witherow, W.	14,15,41
Wright, K. (UAH)	102
Zhang, S. (USRA)	62

Contributions to Books, Conference Proceedings, Etc.

Austin, R. (USRA)	38, 39, 63, 128
Botts, M. (UAH)	26
Brainerd, J. (UAH)	78
Briggs, M. (UAH)	14,21,22,28,30,35,36,41,42,52,68, 69,79,100,101,106,119,120,125
Brock, M.	13,31,36,42,46,68,69,106,119,125
Carter, D.	111
Dietz, K.	63
Elsner, R.	55, 73, 92, 108
Ewing, F. (USRA)	83, 112
Finger, M. (USRA)	1,2,3,4,5,6,7,14,15,17,19,20,21, 27,41,57,58,70,79,80,81,94
Fishman, G.	2,11,12,13,14,15,16,17,18,19,20, 22,23,28,30,32,34,36,37,41,42,45, 46,49,51,52,53,57,58,59,68,74,78, 81,89,90,93,94,95,101,102,104, 107,109,113,117,119,120,121, 125,126,130,132,133,134,135
Forsythe, E. (USRA)	83, 112
Frazier, D.	56
Fulton, M.	40
Gallagher, D.	64, 96
Gary, G.	44
Gillies, D.	29, 114
Goodman, S.	26
Hakkila, J. (NRC)	30, 42, 119
Harmon, B.	1,2,6,14,15,16,18,19,20,22,23,28, 33,41,48,57,58,59,94,98,99,100, 126,130,131,132,133,134,135,136
Ho, J.	111
Hoover, R.	8,9,50,60,75,84,85,110,129

Contributions to Books, Conference Proceedings, Etc. (continued)

- Horack, J. 13, 30, 42, 62, 65, 119
Joy, M. 55, 61, 92
Karr, L. 123
Kolodziejczak, J. (USRA) 40, 61
Koshut, T. (UAH) 13, 37, 46, 62, 119, 120
Kouveliotou, C. (USRA) 11, 12, 13, 24, 30, 31, 34, 36, 45, 49, 51, 68, 69, 88, 89, 90, 93, 95, 98, 102, 104, 106, 107, 109, 113, 117, 119, 120, 121, 29, 114
Lehoczky, S. 43
Leslie, F. 116, 122
Luvall, J. 13, 16, 36, 62, 100
Mallozzi, R. (UAH) 11, 12, 13, 15, 17, 20, 24, 28, 30, 34, 36, 37, 42, 46, 49, 51, 52, 57, 68, 69, 74, 76, 78, 89, 90, 91, 93, 101, 102, 103, 104, 105, 107, 113, 117, 119, 120, 121, 125
Meegan, C. 38, 39
Minamitani, T. (UAH) 40
Mir, J. (NRC) 72, 82
Moore, R. 25
Moore, T. 55, 63, 73, 92
O'Dell, S. 11, 13, 15, 16, 17, 18, 20, 22, 23, 28, 30, 35, 36, 37, 42, 46, 48, 49, 52, 57, 68, 69, 74, 78, 90, 94, 98, 100, 101, 102, 104, 106, 107, 113, 117, 119, 120, 125, 126, 130, 131, 132, 133, 134, 135
Paciesas, W. (UAH) 33
Parnell, T. 13, 14, 16, 21, 22, 28, 30, 35, 36, 37, 41, 42, 46, 68, 69, 79, 100, 101, 106, 107, 119, 120, 125
Pendleton, G. (UAH) 56
Penn, B. 72, 82
Porter, J. 35, 69, 101, 106, 125
Preece, R. (UAH) 67, 83, 112
Pusey, M. 66, 118, 124, 127
Quattrochi, D. 38, 39, 40, 55, 61, 63, 92, 108, 128
Ramsey, B. 115
Rhodes, P. 14, 15, 17, 20, 23, 41, 126, 132, 133
Rubin, B. (USRA) 4, 5, 132, 133
Scott, D. (USRA) 56
Shields, A. 67
Sibille, L. (USRA) 115
Snyder, R. 54
Spencer, R.

Contributions to Books, Conference Proceedings, Etc. (concluded)

Stollberg, M. (UAH)	6, 14, 41, 94
Storey, S.	62
Su, C.-H.	28, 114
Suess, S.	71
Swartz, D. (Nichols Research)	47
Szofran, F.	29, 114
Tennant, A.	63
Vaughan, O.	77
Volz, M.	29
Watts, J.	33
Weisskopf, M.	40, 41, 55, 61, 63, 92
West, E.	86, 87
Wilson, C.	3, 16, 19, 22, 23, 28, 48, 58, 59, 94, 100 1, 2, 3, 4, 5, 6, 13, 14, 15, 17, 19, 20, 21, 27, 28, 30, 36, 37, 41, 42, 46, 52, 58, 68, 69, 70, 74, 79, 80, 81, 94, 101, 104, 107
Wilson, R. B.	97
Wu, S.	63
Youngen, J. (NRC)	3, 6, 14, 15, 16, 20, 22, 23, 41, 48, 57,
Zhang, S. (USRA)	59, 100

Published Abstracts

Adams, M.	18, 19
Blakeslee, R.	29
Briggs, M. (UAH)	6, 8, 20, 24
Brock, M.	8, 20, 24
Chandler, M.	45
Christian, H.	1, 29, 30, 38, 40
Comfort, R. (UAH)	15, 26, 36
Craven, P.	15, 36
Crosson, W. (USRA)	60
Davis, J.	43, 54, 63
Finger, M. (USRA)	32, 68
Fishman, G.	2, 3, 4, 5, 6, 8, 10, 12, 20, 21, 22, 23, 24, 32, 48, 51, 55, 68
Fok, M. (NRC)	16, 31, 35, 52
Gallagher, D.	15, 17, 27, 47, 59, 72
Giles, B.	26, 42, 45
Gillies, D.	59
Goodman, S.	1, 7, 29, 30, 60
Guiter, S. (NRC)	44, 49
Hagyard, M.	33, 37

Published Abstracts (concluded)

Hakkila, J. (NRC)	8, 20, 24, 64, 65, 66, 67
Harmon, B.	4, 5, 6, 12, 32, 56, 57, 58
Hathaway, D.	34
Horack, J.	8, 9, 11, 20, 24
Koshak, W.	38
Kouveliotou, C. (USRA)	2, 3, 10, 23, 32, 39, 48, 51, 55
LaRosa, T. (NRC)	14, 73
Laymon, C. (USRA)	60
Lehoczky, S.	59
Mach, D. (UAH)	1, 30
Meegan, C.	2, 3, 8, 10, 20, 23, 24, 48, 51, 64, 65, 66, 67
Miller, T. L.	41
Moore, R.	14, 28, 53, 73
Moore, T.	25, 26, 31, 35, 42, 44, 49, 52
Nerney, S. (NRC)	46, 53
Paciesas, W. (UAH)	4, 5, 6, 8, 10, 12, 20, 23, 24, 56, 58, 68
Pendleton, G. (UAH)	6, 8, 20, 24
Pollock, C.	25, 27
Porter, J.	54, 62
Rubin, B. (USRA)	4, 5, 32
Scott, D. (USRA)	4, 70
Sha, Y. (USRA)	59
Smith, S.	41
Stollberg, M. (UAH)	68
Su, C.-H.	59
Suess, S.	13, 46, 53, 61
Sulkanen, M.	71
Swartz, D. (Nichols Research)	71
Telesco, C.	69
Tennant, A.	71
van Paradijs, J. (UAH)	32
Wilson, C.	4, 6
Wilson, R. B.	8, 20, 24, 68
Zhang, S. (USRA)	4, 6, 56, 57, 58

PRESENTATIONS

Abdeldayem, H. (NRC)	47
Austin, R. (USRA)	17, 39
Bahr, C. (Mevatec)	53
Bailey, J. (Hughes STX)	1
Banks, C.	47

Presentations (continued)

Baskaran, S. (USRA)	13,64
Baugher, C.	5
Blakeslee, R.	1,80
Botts, M. (UAH)	11
Briggs, M. (UAH)	34
Buechler, D. (UAH)	78
Carlson, G. (Hughes STX)	32,83
Chandler, M.	2,72
Christian, H.	1,43,78
Cohn, C. (USRA)	46
Comfort, R. (UAH).....	23,73
Craven, P.	23,73,85
Curreri, P.	71,92
Davis, J.	90
Dietz, K.	39
Doty, K. (USRA)	33
Elsner, R.	31,52,75,107
Finger, M. (USRA)	9
Fishman, G.	9,20,21,25,26,27,28,74,96,97,98
Fitzjarrald, D.	89
Fok, M. (NRC)	66,85
Frazier, D.	40,47,79,93,103
Fulton, M.	16
Gallagher, D.	23,81
Gillies, D.	30,49,53,86
Goodman, S.	3,11,29,43,78
Gruegel, R. (USRA)	105
Guillory, A.	50,80,83,106
Guiter, S. (NRC)	66
Hagyard, M.	77
Harmon, B.	6,7,9,20,21,42,48,60,96
Hathaway, D.	57
Hicks, R.	47
Hood, R.	80,88
Hoover, R.	4,15,18,36,54,95
Jedlovec, G.	32,50,80,83,87,94,106
Joy, M.	31,38,75
Kolodziejczak, J. (USRA)	16,38
Koshut, T. (UAH).....	74
Kouveliotou, C. (USRA).....	8,9,10,34,63,74,97,98
LaFontaine, F. (USRA).....	88
Lehoczky, S.	30,49,53
Lu, H.-I. (USRA)	12,44

Presentations (concluded)

Luvall, J.	70,102,104
Mach, D. (UAH)	80
McCaul, E. (USRA)	19,45,46
Meegan, C.	9,74,97,98
Miller, T. L.	12,44
Minamitani, T. (UAH)	17
Mir, J. (NRC)	16
Moore, T.	24,66,85
Noever, D.	13,14,64
O'Dell, S.	31,52,75
Paciesas, W. (UAH)....	6,7,9,20,21,34,42,48,74,96,97,98
Palosz, W. (NRC)	49
Parnell, T.	100
Pendleton, G. (UAH)	6,34,42,48,74
Penn, B.	40,47,72,79
Perkey, D. (UAH)	33
Peters, P.	22
Pollock, C.	67
Preece, R. (UAH)	34
Quattrochi, D.	101
Ramachandran, N. (USRA)	5
Ramsey, B.	16,17,31,37,38,41,75
Rhodes, P.	55
Robertson, F.	19,33,45,46,89
Rothermel, J.	80
Rubin, B. (USRA)	6,7,9,42,48,96
Sha, Y.-G. (USRA)	30,49
Snyder, R.	55
Spencer, R.	65,80,82,88
Stone, N.	2
Su, C.-H.	30,49
Suess, S.	35,51,76
Szofran, F.	30,49
Tenant, A.	39
van Paradijs, J. (UAH)	9,97,98
Vaughan, O.	56,61,62
Volz, M.	30,49
Weisskopf, M.	16,17,31,38,39,41,75,107
West, E.	68,69
Wilson-Hodge, C.	6,7,42,48
Wilson, R. B.	9
Wu, S.	84
Youngen, J. (NRC)	39
Zhang, S. (USRA)	7,20,21,42,96

SSL PREPRINTS

Austin, R. (USRA)	13
Blakeslee, R.	14
Briggs, M. (UAH)	2, 10
Brock, M.	2
Comfort, R. (UAH)	4
Dietz, K.	13
Elsner, R.	13
Finger, M. (USRA)	2, 3
Fishman, G.	2, 3, 10
Fulton, M.	13
Gary, G.	17, 18
Giles, B.	4
Harmon, B.	2, 3, 8, 10
Horack, J.	1
Joy, M.	13
Kolodziejczak, J. (USRA)	13
Koshut, T. (UAH)	10
Kouveliotou, C. (USRA)	10, 11
LaRosa, T. (NRC)	6
Mallozzi, R. (UAH)	10
Meegan, C. A.	1, 2, 3, 10
Minamitani, T. (UAH)	13
Mir, J. (NRC)	13
Moore, R.	5, 6, 16
Moore, T.	4
Musielak, Z. (UAH)	7
Nerney, S. (NRC)	7, 15
O'Dell, S.	12, 13
Paciesas, W. (UAH)	2, 3, 8, 10
Pendleton, G. (UAH)	2, 10
Porter, J.	5
Ramsey, B.	13
Rubin, B. (USRA)	2, 3, 8
Suess, S.	16
Sulkanen, M.	12
Swartz, D. (Nichols Research)	12
Telesco, C.	9
Tennant, A.	12, 13
van Paradijs, J. (UAH)	9
Vaughan, O.	14
Weisskopf, M.	13
Wilson, C. A.	2, 8

SSL Preprints (concluded)

Wilson, R. B.	2, 3, 10
Youngen, J. (NRC)	13
Zhang, S. (USRA)	3, 8

REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

1. AGENCY USE ONLY (Leave blank)	2. REPORT DATE	3. REPORT TYPE AND DATES COVERED Technical Memorandum	
4. TITLE AND SUBTITLE Space Sciences Laboratory Publications and Presentations January 1-December 31, 1994			5. FUNDING NUMBERS
6. AUTHOR(S) Compiled by T. W. Moorehead			
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) George C. Marshall Space Flight Center Marshall Space Flight Center, AL 35812			8. PERFORMING ORGANIZATION REPORT NUMBER
9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES) National Aeronautics and Space Administration Washington, D.C. 20546			10. SPONSORING / MONITORING AGENCY REPORT NUMBER NASA TM-108484
11. SUPPLEMENTARY NOTES Prepared by Space Sciences Laboratory, Science and Engineering Directorate.			
12a. DISTRIBUTION / AVAILABILITY STATEMENT Unclassified--Unlimited		12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) <p>This document lists the significant publications and presentations of the Space Sciences Laboratory during the period January 1-December 31, 1994. Entries in the main part of the document are categorized according to NASA Reports (arranged by report number), Open Literature, and Presentations (arranged alphabetically by title). Also included for completeness is an Appendix (arranged by report number) listing preprints issued by the Laboratory during this reporting period. Some of the preprints have not been published; those already published are so indicated. Most of the articles listed under Open Literature have appeared in refereed professional journals, books, monographs, or conference proceedings. Although many published abstracts are eventually expanded into full papers for publications in scientific and technical journals, they are often sufficiently comprehensive to include the significant results of the research reported. Therefore, published abstracts are listed separately in a subsection under Open Literature. Questions or requests for additional information about the entries in this report should be directed to Gregory S. Wilson (ES01; 544-7579) or to one of the authors. The organizational code of the cognizant SSL branch or office is given at the end of each entry.</p>			
14. SUBJECT TERMS Scientific and Technical Publications			15. NUMBER OF PAGES 75
			16. PRICE CODE NTIS
17. SECURITY CLASSIFICATION OF REPORT Unclassified	18. SECURITY CLASSIFICATION OF THIS PAGE Unclassified	19. SECURITY CLASSIFICATION OF ABSTRACT Unclassified	20. LIMITATION OF ABSTRACT Unlimited