

August 23, 2006

CURRICULUM VITAE

Raymond J. Walker

PERSONAL INFORMATION

Address: 11053 Tennessee Ave.
Los Angeles, California 90064

Birthdate: October 26, 1942

EDUCATION

San Diego State University	B.A., Physics San Diego, California	1964
University of California	M.S., Space Physics Los Angeles, California	1969
University of California	Ph.D., Space Physics Los Angeles, California	1973

PROFESSIONAL EMPLOYMENT

7/99 to present	Professor in Residence, Dept. of Earth and Space Sciences Institute of Geophysics and Planetary Physics University of California Los Angeles, California
7/84 to present	Research Geophysicist Institute of Geophysics and Planetary Physics University of California Los Angeles, California
7/80 to 7/84	Associate Research Geophysicist Institute of Geophysics and Planetary Physics University of California Los Angeles, California
9/77 to 7/80	Assistant Research Geophysicist

	Institute of Geophysics and Planetary Physics University of California Los Angeles, California
10/73 to 9/77	Post Graduate Research Associate School of Physics and Astronomy University of Minnesota Minneapolis, Minnesota
9/67 to 10/73	Graduate Research Geophysicist Institute of Geophysics and Planetary Physics University of California Los Angeles, California
9/64 to 9/67	Graduate Research Physicist Department of Physics University of California San Diego, California

VISITING POSITIONS

1995	Visiting Professor - Max Planck Institute Berlin
------	--

AWARDS

Edward A Flinn III Award, American Geophysical Union, 1996

CONSULTING

Jet Propulsion Laboratory, Pasadena, California (1980-1981) (1982-1984)
Universities Space Research Association (1985)(1999-2001)
Caelum Corporation/Lockheed Martin (1997)
Liberated Staffing/Lockheed Martin (2002)

SERVICE TO THE SCIENTIFIC COMMUNITY

Referee for:	Journal of Geophysical Research Planetary and Space Science Geophysical Research Letters Physics of Fluids Geophysical Monograph Series Advances in Space Research Annales Geophysicae Science Earth, Planets and Space (Former Journal of Geomagnetism and Geoelectricity)
--------------	--

Member, Editorial Board of Quantitative Modeling of Magnetospheric Processes, Geophysics Monograph Series, (21), 1979.

Proposal reviewer for the National Science Foundation, California Space Institute, National Aeronautics and Space Administration, and National Sciences and Engineering Research Council of Canada.

Associate Chair, Working Group III-3, Quantitative Magnetospheric Models, International Association of Geomagnetism and Aeronomy, 1988-1989.

Associate Editor, Journal of Geophysical Research (Space Physics), 1989-1992.

Convenor, MHD Modeling and Kinetic Simulations as Tools of Heliospheric Physics, XX IUGG Assembly, Vienna, Austria, 1991.

Co-Convenor, Information in Geomagnetism and Solar-Terrestrial Physics, XX IUGG Assembly, Vienna, Austria, 1991.

Project Scientist, The NASA Planetary Data System, 1992 - 1996.

Meeting Chair, Community Workshop on Space Physics Data System, Houston, 1993.

Convenor, Magnetospheric Models, Their Uses and Quantitative Tests, 7th Scientific Assembly of IAGA, Buenos Aires, Argentina, 1993.

Program Committee, The 3D Magnetosphere, COSPAR, Hamburg, Germany, 1994.

Co-Convenor, Large-Scale Electrodynamics in the Coupled Magnetosphere-Ionosphere-Thermosphere System, XXI General Assembly of IUGG, Boulder, CO., 1995.

Program Committee, Chapman Conference on Magnetospheric Current Systems, 1998.

Co-Editor, Outer Planets Volume of Advances in Space Research, 1998-1999.

Co-Convenor, Outer Planets Magnetospheres, IAGA, Toulouse, France, 2005.

SERVICE TO UNIVERSITY OF CALIFORNIA

Doctoral Committees:

Jonathon A. Linker
 Miguel A. Moreno
 Harlan E. Spence
 Xiao Ming Zhu
 Vassilis Angelopoulos
 Ming Cao
 C.M. Hammond
 S.-H. Chen
 D. Xu
 Y. Yi (University of Colorado)
 T.-S. Hsu
 Irina Ruvinsky (Tel Aviv University)
 Tamitha Mulligan

Zhenjiang Yu

Master's Degree Committee:

Steven P. Joy

Chancellor's Advisory Committee of Non-Senate Academic Appointees (1987-1988).

Space Science Seminar, Department of Earth and Space Sciences, Winter 1987 (in charge).

Institute of Geophysics and Planetary Physics Merit Increase Committee, 1987-1988.

Lecturer, The Rubey Colloquium, 1990.

Chair, IGPP Seminar Committee (1992-1993).

IGPP Committee on Non-Senate Academics (1992-1993).

Chair, IGPP Committee on Non-Senate Academics (1993-1996).

Secretary, IGPP Space Science Center (1994-Present).

Representative at Large, IGPP Steering Committee (1993).

IGPP Education and Fellowship Committee (1999-2000)

Chair, IGPP Information Technology Committee (2000-2004)

Chair, ESS Rubey Fellowship Committee, (2000)

ESS Awards Committee (2000-2004)

ESS Researchers Committee (2000-2001)

COMMITTEES

Member, Organizing Committee for Workshop on Space Plasma Physics, Los Alamos National Laboratory, Los Alamos, New Mexico, 1980.

Member, Committee on Data Management and Computation, Space Science Board, National Research Council, 1981-1986.

Chair, Nonimaging Computer Hardware Splinter Group, NASA Planetary Science Analysis and Support System Workshop, Goddard Space Flight Center, Greenbelt, MD, 1983-1984.

Member, Steering Committee for NSSDC Online Catalog System, 1984-1987.

Member, Committee on Geophysical Data, Commission on Physical Sciences, Mathematics and Resources, National Research Council, 1984-1987.

- Member, Space Station Radiation Committee, NASA Headquarters, 1986.
- Member, Committee on NASA Information Systems, Board of Telecommunications and Computer Applications, Commission on Engineering and Technical Systems, National Research Council, 1986.
- Member, Committee on Directories, Catalogs and Browse Files of the Earth Science Data Workshop, NASA Earth Sciences and Applications Division, 1986-1987.
- Member, Program Committee, Workshop on Analog Magnetospheric Plasma Simulation in Low Earth Orbit, Using Space Plasma Laboratory Diagnostics, Huntsville, AL, 1987.
- Chair, NASA Advisory Committee on Catalog Interoperability, 1987-1994.
- Member, NASA Planetary Data System Study Team, 1987.
- Member, NASA Data System Lexicon Working Group, 1987-1989
- Member, Jet Propulsion Laboratory Review Board For Planetary Data System, 1988, 1989.
- Member, Advisory Committee for the NASA/Infrared Processing and Analysis Center Extragalactic Database Project, 1989-1994.
- Member, NASA Information Systems Strategic Plan Committee on Supercomputing, 1989.
- Chair, Committee on Information Technology, American Geophysical Union, 1989-1992.
- Member, NASA Information Systems Strategic Plan Workshop, Annapolis, Maryland, May 1989.
- Member, Program Committee, Workshop on Magnetosphere/Ionosphere Plasma Models, Huntsville, Alabama, 1989.
- Member, NASA Space Physics Strategy Implementation Study, 1990.
- Member, Committee on Solar and Space Physics, Space Studies Board, National Research Council, 1990-1993.
- Member, Space Physics Data System Planning Committee, NASA 1991 - 1992.
- Member, Program Committee for Earth and Space Sciences Information Systems, International Space Year, 1992.
- Chair, Data Access Subcommittee, National Geomagnetic Initiative Workshop, National Research Council, 1992.
- Chair, Space Physics Data System, Steering Committee, NASA, 1992 - 1993.

Member, Science Definition Team for Space Physics Objectives for the Pluto Fast Flyby Mission, NASA, 1993.

Member, Space Physics Data System Steering Committee, 1994-1998.

Member, Visiting Committee, Laboratory for Atmospheric and Space Physics, University of Colorado, 1998., 2003.

Member, NASA Discovery Program Downselect Committee, 1999.

Member, Advisory Committee for the Consolidated Space Operations Contract, Universities Space Research Association, 1999-2001.

Chair, Solar System Exploration Subcommittee, NASA 70M Antenna Workshop, 2001.

Member, NASA Sun-Earth Connection Advisory Subcommittee, 2000-present.

Member, NASA Sun-Earth Connections Senior Review Committee, 2001.

Member, Mars Odyssey Red Team, 2001.

Member, Sun-Earth Connection Advisory Group to the Nation Space Science Data Center, 2001.

Chair, Management Working Group on Sun-Earth Connections Data Systems, NASA , 2002-present.

GSFC IS&T Visiting Committee, 2003-2007.

NASA Living with a Star Steering Committee, 2005-2006

Chair, NASA Community Coordinated Modeling Center, Steering Committee, 2005-

Member, Heliophysics Subcommittee of the NASA Advisory Committee, 2006-2008.

MEMBERSHIP IN SCHOLARLY SOCIETIES

American Geophysical Union
 American Association for the Advancement of Science
 Division of Planetary Science of the American Astronomical Society

RESEARCH GRANTS AND CONTRACTS

Co-Investigator, "Solar Wind and Other Sources of the Atmosphere of Mercury."
 Principal Investigator: B.E. Goldstein (sponsor NASA, 1980-1981).

Co-Investigator, "Structure and Dynamics of Earth's Magnetosphere and Associated Phenomena," Principal Investigator: M. Ashour-Abdalla (Sponsor: NASA, 1981-1994).

Co-Investigator, "Development of Theoretical Technology for the OPEN Mission."
 Principal Investigator: M. Ashour-Abdalla (sponsor NASA, 1981-2000).

- Principal Investigator, "Studies of the Jovian Magnetopause and Boundary Layer." (sponsor NASA, 1981-1986).
- Co-Investigator, "Acceleration Processes in the Earth's Magnetosphere." Principal Investigator: M. Ashour-Abdalla (sponsor Air Force Geophysics Laboratory, 1981-1985).
- Co-Investigator, "Quantitative Studies of the Magnetospheres of Jupiter and Saturn, and the Distant Solar Wind," Principal Investigator: P.J. Coleman, Jr. (sponsor NASA, 1982-1987).
- Principal Investigator, "A Cataloguing Scheme for the Magneto-spheric Physics Node of the Planetary Pilot Data System." (sponsor Johns Hopkins University, Applied Physics Laboratory, 1984-1986).
- Co-Investigator, "An Investigation of the Magnetic Fields of Jupiter using the Jupiter Orbiter." Principal Investigator: M.G. Kivelson (sponsor NASA, 1984-present).
- Co-Principal Investigator, "An MHD Simulation of Io's Interaction with the Plasma Torus." Co-Principal Investigators: M. Kivelson, D. Winske, and J. Borovsky (sponsor IGPP, Los Alamos National Laboratory, 1985-1986).
- Co-Investigator, "Proposal for a Computational and Communications System for UCLA Space Plasma Physics." Principal Investigator: M. Ashour-Abdalla (sponsor NSF, 1986).
- Principal Investigator, "Development of a Particles and Fields Node for the Planetary Data System (PDS)." (sponsor NASA, 1986-1989).
- Co-Principal Investigator, "A Plume Driven Atmosphere of Io," Co-Principal Investigators: M.G. Kivelson, and J. Baumgardner (sponsor IGPP, Los Alamos National Laboratory, 1987-1988)
- Principal Investigator, "A Magnetotail Model of Uranus and an Investigation of Spacecraft Charging," (sponsor NASA, 1987-1990)
- Co-Investigator, "Studies of Particles and Fields in Space." Principal Investigator: P.J. Coleman, Jr. (sponsor NASA, 1987-1988).
- Co-Investigator, Studies of Geomagnetic Substorms," Principal Investigator: P.J. Coleman, Jr. (Sponsor: NASA, 1988-1989).
- Principal Investigator, The Development and Operation of a Planetary Plasma Interactions Node for the Planetary Data System, (sponsor NASA - 1990-present)
- Principal Investigator, Studies of Flows in the Magnetotail, (sponsor NASA 1991-1995).
- Co-Investigator, Studies of Plasma Flow Past Jupiter's Satellite Io, Principal Investigator: J.A. Linker, (sponsor NASA 1991-present)

Principal Investigator, Space Physics Data System Workshop, (sponsor Southwest Research Institute, 1993)

Co-Investigator, the Effect of IMF B_y , on the Earth's Magnetotail Configuration, Convection and Reconnection, (sponsor NASA, 1993-1996)

Principal Investigator, The source of the Low Latitude Boundary Layer, (sponsor Air Force Office of Scientific Research 1994-1998)

Principal Investigator, Simulating Jupiter's Magnetosphere, (sponsor NASA, 1999-2001)

Co-Principal Investigator, Lectures Using Common Internet Devices (LUCID), (sponsor National Science Foundation, 2000-2001) with R.L. McPherron.

Principal Investigator, Magnetohydrodynamic Modeling of the Jovian Magnetosphere, (sponsor NASA, 2001-2003)

Principal Investigator, Dynamics of the Near-Earth Magnetotail, (sponsor NASA, 2003-2005)

Co-Investigator, Space Physics Archive Search and Extract (SPASE), (sponsor NASA GSFC 2004-2006)

Principal Investigator, Modeling Ganymede's Magnetosphere, (sponsor NASA, 2005-2007)

Principal Investigator, VMO for S3C Data: A Virtual Magnetospheric Observatory, (sponsor NASA, 2006-2009)

INVITED PAPERS PRESENTED AT SCIENTIFIC MEETINGS (*Presented by R.J. Walker)

1. *Walker, R.J., An evaluation of recent magnetospheric models, Eos Trans. AGU, 56, 615, 1975. Presented at Chapman Conference on Magnetospheric Modeling, La Jolla, CA, 1975.
2. *Walker, R.J., An evaluation of recent quantitative magnetospheric models, Eos Trans. AGU, 57, 307, 1976. Presented at Spring AGU Meeting, 1976.
3. *Walker, R.J., K.N. Erickson, R.L. Swanson, and J.R. Winckler, Energetic particle flux changes at synchronous orbit and the temporal morphology of substorms, Eos Trans. AGU, 58, 1212, 1977. Presented at Fall AGU Meeting, 1977.
4. *Walker, R.J., Quantitative modeling of planetary magnetospheric magnetic fields. Presented at Chapman Conference on the Quantitative Modeling of Magnetospheric Processes, La Jolla, California, 1978.
5. *Walker, R.J., and M.G. Kivelson, Plasma properties in the Jovian equatorial current sheet inferred from Pioneer 10 and 11 observations, Eos Trans. AGU, 60, 353, 1979. Presented at Spring AGU Meeting, 1979.
6. *Walker, R.J., The interaction of Jovian plasma with Io. Presented at NASA Planetary Atmospheres Principal Investigators Conference, Boulder, Colorado, 1979.
7. *Walker, R.J., Quantitative modeling of planetary magnetospheric magnetic fields, IAGA Bull., 43, 255, 1979. Presented at XVII IUGG General Assembly, Canberra, Australia, 1979.
8. *Walker, R.J., Global MHD models of the interaction between the solar wind and the magnetosphere, IAGA Bull., 45, 450, 1981. Presented at the Fourth IAGA Scientific Assembly, Edinburgh, Scotland, 1981.
9. *Walker, R.J. ULF fluctuations in the Jovian and Saturnian magnetospheres, IAGA Bull., 45, 435, 1981. Presented at the Fourth IAGA Scientific Assembly, Edinburgh, Scotland, 1981.
10. Ashour-Abdalla, M., P.J. Coleman, Jr., J.M. Dawson, C.F. Kennel, J.N. Leboeuf, and R.J. Walker, Space plasma theory and simulation at UCLA, Eos Trans. AGU, 62, 1016, 1981. Presented by M. Ashour-Abdalla at the Fall AGU Meeting, San Francisco, 1981.
11. *Walker, R.J., Modeling planetary magnetospheres: The magnetotail and reconnection, Abstract Volume. Presented at the First International School for Space Simulations, Kyoto, Japan, 1982.
12. *Walker, R.J., Modeling the magnetotail and reconnection, IAGA Bull., 48, A11, 1983. Presented at the XVIII IUGG General Assembly, Hamburg, Germany, 1983.
13. *Walker, R.J., Discipline data management, Programme and Abstracts, 1, 249, 1983. Presented at the XVIII IUGG General Assembly, Hamburg, Germany, 1983.
14. *Walker, R.J., Externally driven magnetic reconnection, Program and Abstracts, Section F. Presented at the AGU Chapman Conference on Magnetic Reconnection, Los Alamos, New Mexico, 1983.
15. Kivelson, M.G., J.A. Linker, M.A. Moreno, and R.J. Walker, Io's hot plasma torus: Consequences for sputtering sources. Presented by M.G. Kivelson at COSPAR, Graz, Austria, 1984.
16. *Walker, R.J., and T. Ogino, A magnetohydrodynamic simulation of the magnetosphere when the interplanetary magnetic field is northward, IAGA Bull., 265, 1985. Presented at the 5th IAGA Scientific Assembly, Prague, Czechoslovakia, 1985.
17. *Walker, R.J., and T. Ogino, Field aligned currents and magnetospheric convection: A comparison between MHD simulations and observations, Abstract

- Volume, 5, Presented at the First Huntsville Workshop on Magnetosphere Ionosphere Plasma Models, Huntsville, Alabama, 1986.
18. *Walker, R.J., T. Ogino, and M. Ashour-Abdalla, Modeling the solar wind, magnetosphere and ionosphere system, Abstract Volume, IW-1, Presented at the 1987 Cambridge Workshops in Theoretical Geoplasma Physics, MIT, Cambridge, MA, 1987
 19. *Walker, R.J., T. Ogino, and J.A. Linker, Simulating the magnetosphere, IUGG Abstracts, 2, 691, 1987. Presented at XIX General Assembly of IUGG, Vancouver, Canada, 1987.
 20. *Walker, R.J., T. Ogino, and M. Ashour-Abdalla, A global magnetohydrodynamic model of a magnetospheric substorm, Program and Abstracts. Presented at Workshop on Magnetosphere-Ionosphere Coupling and Substorms, Fairbanks, AK, 1987.
 21. *Walker, R.J., T. Ogino, and M. Ashour-Abdalla, Simulating the magnetosphere, Abstract Volume, Presented at Yosemite 88, Outstanding Problems in Solar System Plasma Physics Theory and Instrumentation, Yosemite, CA, 1988.
 22. Ashour-Abdalla, M., H. Karimabadi, N. Omide, P.L. Pritchett, D. Schriver, R. Sydora, R.J. Walker, T. Ogino, and H. Okuda, The structure and dynamics of the earth's magnetosphere and associated phenomena, EOS Trans. AGU, 69, 16, 423, 1988. Presented at Spring AGU meeting, Baltimore, MD, 1988.
 23. *Walker, R.J., Simulating the magnetosphere: The generation of magnetic flux tubes on the dayside magnetopause, Presented at NATO Workshop on the electromagnetic coupling between the solar wind and the polar cusps and cap, Lillehammer, Norway, 1988.
 24. Ogino, T., R.J. Walker, and M. Ashour-Abdalla, Magnetic flux ropes in 3-Dimensional MHD simulations, Extended Abstract Volume, 161, AGU Chapman Conference on: Physics of Magnetic Flux Ropes, Hamilton, Bermuda, 1989.
 25. *King, T.A., R.J. Walker, N.E. Cline, and R.L. McPherron, Time series data analysis using a data flow model, IAGA Bull., 53, 451, 1989. Presented at the 6th Scientific Assembly of the International Association of Geomagnetism and Aeronomy, Exeter, UK, 1989.
 26. *Walker, R.J., J.A. Linker, and T. Ogino, Global magnetohydrodynamic simulations of planetary magnetospheres, IAGA Bull., 53, 378, 1989. Presented at the 6th Scientific Assembly of the International Association of Geomagnetism and Aeronomy, Exeter, UK, 1989.
 27. Ogino, T., R.J. Walker and M. Ashour-Abdalla, Three-dimensional global MHD simulations of the earth's magnetosphere, IAGA Bull., 53, 413, 1989. Presented at the International Association of Geomagnetism and Aeronomy, Exeter, UK, 1989.
 28. *Walker, R.J., T. Ogino, and M. Ashour-Abdalla, Simulating the configuration and dynamics of the earth's magnetosphere, Presented at Modeling in Solar Terrestrial Physics, The 1990 Gordon Research Conference, Plymouth State College, Plymouth, New Hampshire, 1990.
 29. Ogino, T., R.J. Walker, and M. Ashour-Abdalla, Global magnetohydrodynamic simulation of the solar wind and magnetosphere interaction, EOS Trans. AGU, 71, 28, 913, 1990. Presented at the Western Pacific Geophysics Meeting, Kanazawa, Japan, 1990.
 30. *Walker, R.J., Mapping the boundary to the dayside ionosphere, EOS Trans. AGU, 71(43), 1542, 1990. Presented at the Fall AGU meeting, San Francisco, 1990.
 31. *Walker, R.J., Space physics data requirements. Presented at the Space and Earth Science Data Compression Workshop of the IEEE Data Compression Conference, Snowbird, Utah, 1991.

32. *Walker, R.J., An overview of quantitative magnetospheric models, (Abstract) Program and Abstracts XX General Assembly IUGG, 370, Presented at IUGG, Vienna, Austria, 1991.
33. Ogino, T., R.J. Walker, and M. Ashour-Abdalla, Globe MHD simulation of the solar wind-magnetosphere interaction during northward IMF, (Abstract) Program and Abstracts XX General Assembly IUGG, 454, Presented at IUGG, Vienna, Austria, 1991.
34. Linker, J.A., M.G. Kivelson and R.J. Walker, Io's interaction with the plasma torus: A simulation approach, (Abstract) Program and Abstracts XX General Assembly IUGG, 527, Presented at IUGG, Vienna, Austria, 1991.
35. *Walker, R.J., Operating a distributed data system: The planetary data system experience, (Abstract) Program and Abstracts XX General Assembly IUGG, 501, Presented at IUGG, Vienna, Austria, 1991.
36. *Walker, R.J., Modeling the magnetosphere, presented at the National Geomagnetic Initiative Workshop, Washington, D.C., March, 1992.
37. *Walker, R.J., Global magnetohydrodynamic simulations of the magnetotail, presented at the GEM Workshop, Snowmass, CO., July, 1992.
38. Kivelson, M.G., R.J. Walker, and J.A. Linker, Io as a source of magnetospheric plasma, (Abstract), Book of abstracts, The World Space Congress, 466, 1992, presented at COSPAR, Washington D.C., Sept., 1992.
39. *Walker, R.J., T. Ogino, and M. Ashour-Abdalla, Simulating magnetospheric convection (Abstract) OT2 3rd Huntsville Workshop on Magnetosphere/Ionosphere Plasma Models, Huntsville, Alabama, October, 1992.
40. Kivelson, M.G., L.F. Bargatze, K.K. Khurana, D.J. Southwood, R.J. Walker, P.J. Coleman and R.P. Lepping, Recent results from Galileo magnetometer investigations, EOS Trans. AGU, 74(16), 199, 1993. Presented at the Spring AGU meeting, Baltimore, May, 1993.
41. Richard, R.L., R.J. Walker, and M. Ashour-Abdalla, The formation of the low latitude boundary layer by dayside ion entry, 1993 GEM Workshop, Snowmass, CO, June, 1993.
42. Kivelson, M.G., J.A. Linker, and R.J. Walker, Thermal effects of ion pickup near Io, IAGA Bulletin, 55, 340, 1993. Presented at the Scientific Assembly of IAGA, Buenos Aires, Argentina, August, 1993.
43. Kivelson, M.G., K.K. Khurana, C.T. Russell, D.J. Southwood, R.J. Walker, and Z. Wang, Ida Flyby: First results from the Galileo magnetometer, EOS Trans. AGU, 74, 43, 384, 1993. Presented at the Fall AGU meeting, San Francisco, December, 1993.
44. King, T.A., S.P. Joy, and R.J. Walker, Distributed Data Inventories, EOS Trans. AGU, 74, 43, 85, 1993. Presented at the Fall AGU meeting, San Francisco, December, 1993.
45. *Walker, R.J., R.L. Richard, and M. Ashour-Abdalla, The entry of solar wind ions in the magnetosphere, AGU Chapman Conference on the Physics of the Magnetopause, (Abstract), 33, 1994. Presented at the Chapman Conference, San Diego, March, 1994.
46. *Walker, R.J., R.L. Richard, T. Ogino, and M. Ashour-Abdalla, Ion entry into the magnetosphere (Abstract), 1995 Cambridge Symposium/Workshop, Multiscale Phenomena in Space Plasmas, Bermuda, 1995.
47. Ashour-Abdalla, M., J. Berchem, F.V. Coroniti, M. El-Alaoui, J. Raeder, R. Richard, D. Schriver, R.J. Walker, L.A. Frank, W.R. Paterson, K.L. Ackerson, D.J. Williams, A.T.Y. Lui, S. Kokubun, T. Yamamoto and R.P. Lepping, Theoretical Technology for the ISTP Mission: Examples of Theory-Data Closure, EOS Trans. AGU, 76, 46, 461, 1995. Presented at the Fall AGU meeting, San Francisco, December, 1995.

48. Kivelson, M.G., K.K. Khurana, R.J. Walker, J.A. Linker, C.T. Russell, D.J. Southwood, D. Barbosa, and C. Polanskey, A Magnetic Signature At Io: Preliminary Results, EOS Trans. AGU, 77, 17, S172, 1996. Presented at the Spring AGU meeting, Baltimore, May, 1996.
49. *Ashour-Abdalla, M., V. Perroomian, J. Berchem, M. El-Alaoui, J. Raeder, R.J. Walker, W.R. Paterson, L.A. Frank, S. Kokubun, T. Yamamoto and K. Ogilvie, Non Isotropic Protons in the Near Earth Magnetotail, EOS Trans. AGU, 77, 17, S231, 1996. Presented at the Spring AGU meeting, Baltimore, May, 1996.
50. Ogino, T., and R.J. Walker, Global MHD Simulation of the Interaction Between the Solar Winds and Mercury's Magnetosphere, 31st Scientific Assembly of COSPAR, 47, 1996. Presented at COSPAR, Birmingham U.K., 1996.
51. Kivelson, M.G., K.K. Khurana, C.T. Russell, R.J. Walker, P.J. Coleman, F.V. Coroniti, J. Green, S. Joy, R.L. McPherron, C. Polanskey, D.J. Southwood, L. Bennett, and D. Huddleston, Galileo at Jupiter: Magnetometer Results, 31st Scientific Assembly of COSPAR, 54, 1996. Presented at COSPAR, Birmingham U.K., 1996.
52. Ashour-Abdalla, M., L.M. Zelenyi, J. Berchem, M. El-Alouï, V. Perroomian, J. Reader, R.L. Richard, D. Schriver, R.J. Walker, L.A. Frank, W.R. Paterson, K. Ackerson, S. Kokubun, T. Yamamoto, R.P. Lepping, and K. Ogilvie, Determination of Particle Sources for Observed Distribution Function, Encounter Between Global Observations and Models in the ISTP Era, 18, 1996. Presented at Huntsville 96, Guntersville Alabama, 1996.
53. *Walker, R.J., T. Ogino, and M. Ashour-Abdalla, Magnetosphere Ionosphere Coupling in Global Magnetohydrodynamic Simulations, Encounter Between Global Observations and Models in the ISTP Era, 25, 1996. Presented at Huntsville 96, Guntersville Alabama, 1996.
54. Kivelson, M.G., E.L. Kepko, and R. J. Walker, Flux Ropes and Other Mesoscale Structures in the Magnetotail of Earth, The Earth's Magnetotail: New Perspective, 73, 1996. Presented at the Chapman Conference, Kanazawa, Japan, 1996.
55. Kivelson, M.G., K.K. Khurana, C.T. Russell, R.J. Walker, J. Warnecke, S. Joy, J.A. Linker, D.J. Southwood, and C. Polanskey, Recent Results from the Galileo Magnetometer, EOS, Trans. AGU, 77, 46, 430, 1996. Presented at the Fall AGU meeting, San Francisco, December, 1996.
56. Russell, C.T., K. K. Khurana, M.G. Kivelson, R.J. Walker, and D.E. Huddleston, A Global Reconfiguration of the Jovian Magnetosphere: The Jovian Counterpart of a Terrestrial Substorm, EOS, Trans. AGU, 77, 46, 431, 1996. Presented at the Fall AGU meeting, San Francisco, December, 1996.
57. Spence, H.E., R.B. Sheldon, T.A. Fritz, J. Chen, J.B. Blake, J.F. Fennell, D.N. Baker, M.G. Henderson, M. Grande, M.G. Kivelson, and R.J. Walker, Polar Energetic Particles (PEPs): A New Signature of the High-Latitude Magnetospheres, EOS, Trans. AGU, 77, 46, 618, 1996. Presented at the Fall AGU meeting, San Francisco, December, 1996.
58. Khurana, K.K., M.G. Kivelson, C.T. Russell, R.J. Walker, J. Warnecke, S. Joy, J.A. Linker, and D.J. Southwood, Recent Results from the Galileo Magnetometer, Bull. Am. Astro. Soc., 28, 3, 1055, 1996. Presented at the Division of Planetary Science Meeting, Tucson, 1996.
59. *Walker, R.J., R.L. Richard, M. Ashour-Abdalla, and T. Ogino, Mixing Multi-Scale Phenomena in Magnetospheric Models, Multi-Scale Phenomena II in Space Plasma, 30, 1998, Presented at the 1998 Cambridge Symposium Workshop, Lisbon, Portugal, June, 1998.
60. *Kivelson, M.G., and R.J. Walker, Magnetospheres on Many Scales: Jupiter, Earth and Ganymede, Multi-Scale Phenomena II in Space Plasma, 28, 1998, Presented at the 1998 Cambridge Symposium Workshop, Lisbon, Portugal, June, 1998.

61. Kivelson, M.G., K.K. Khurana, C.T. Russell, and R.J. Walker, Ion Pickup, Alfvén Wings, Induced Magnetic Fields, and Intrinsic Magnetic Fields at the Galilean Moons of Jupiter, 32nd Scientific Assembly of COSPAR, Abstracts, 89, 1998. Nagoya, Japan, July, 1998.
62. Kivelson M.G., S. Joy, K.K. Khurana, C.T. Russell, and R.J. Walker, Galileo at Gaspra, Ida, and the Galilean Moons of Jupiter: Lessons for the Study of Asteroids and Comets, 32nd Scientific Assembly of COSPAR, Abstracts, 97, 1998., Nagoya, Japan, July, 1998.
63. Ogino, T., and R.J. Walker, An MHD Simulation of the Jovian Magnetosphere, EOS Trans. AGU, 79, 24, W54, 1998, Presented at the Western Pacific Geophysics Meeting, Taipei, Taiwan, July, 1998.
64. Linker, J.A., K.K. Khurana, M.G. Kivelson and R.J. Walker, Modeling Jovian Plasma-Satellite Interactions: The Ganymede Magnetosphere, EOS Trans. AGU, 79, 24, W54, 1998, Presented at the Western Pacific Geophysics Meeting, Taipei, Taiwan, July, 1998.
65. Krupp, N., A. Lace, J. Woch, B. Wilken, S. Livi, D.J. Williams, B.H. Mauk, R. Walker, K.K. Khurana, M.G. Kivelson, and C.T. Russell, Energetic Particle Flow in the Jovian Magnetosphere, EOS Trans. AGU, 79, 24, W54, 1998, Presented at the Western Pacific Geophysics Meeting, Taipei, Taiwan, July, 1998.
66. *Walker, R.J., T. Ogino, R.L. Richard, and M. Ashour-Abdalla, How Much Should We Expect From Global MHD Models? EOS Trans. AGU, 79, 24, W88, 1998, Presented at the Western Pacific Geophysics Meeting, Taipei, Taiwan, July, 1998.
67. Krupp, N., J. Woch, A. Lagg, S. Livi, B. Wilken, D.J. Williams, K.K. Khurana, R. Walker, and M.G. Kivelson, Energetic Particle Dynamics of the Jovian Magnetosphere Galileo EPD Results, 32nd Scientific Assembly of COSPAR, Abstracts, 91, 1998., Nagoya, Japan, July, 1998.
68. *Walker, R.J., and T. Ogino, The Effects of Solar Wind and IMF Changes on the Middle and Outer Jovian Magnetosphere, Geophysical Research Abstracts, 1, 3, 743, 1999. Presented at the EGS Meeting, The Hague, April, 1999.
69. *Walker, R.J., and M. Ashour-Abdalla, Magnetosphere-Ionosphere Coupling in Global MHD Models, Auroral Plasma Dynamics Workshop: Akebono, Ten Years Later, pp. 11, 1999. Banff, Alberta Canada, 1999.
70. *Walker, R.J., Magnetic Reconnection in the Jovian Magnetosphere, IUGG Abstracts, A.377, 1999. Presented at IUGG XXII General Assembly, Birmingham, UK, 1999.
71. *Walker, R.J., Magnetohydrodynamic Simulation of the Magnetospheres of the Outer Planets, Magnetospheres of the Outer Planets, p.5, 1999. Presented at Magnetospheres of the Outer Planets, Paris, France, 1999.
72. *Walker, R.J., How Well Do Global MHD Models Reproduce Magnetotail Observation, ICS-5 Book of abstracts, 9, 2000. Presented at International Conference on Substorms, St. Petersburg, Russia, 2000.
73. *Walker, R.J., and M. Ashour-Abdalla, Modeling Internal Plasma Sources, EOS Trans., AGU, 81, 19, 2000. Presented at the Spring AGU meeting. Washington, D.C. 2000.
74. *Walker, R.J., M. Ashour-Abdalla, V. Perroomian, and R.L. Richard, Modeling Sources and sinks of Magnetospheric Plasma, Presented at AGU Chapman Conference on Low-Latitude Boundary Layer, Louisiana, New Orleans, 2001.
75. Kivelson, M.G., S. Joy, K.K. Khurana, R.J. Walker, C.T. Russell, D.J. Southwood, and M. Dougherty, Magnetometer Results From the Joint Galileo-Cassini Observing Interval, Eos, Trans. AGU, 82(20), Spring Meet. Suppl., Abstract P52A-02, 2001.

76. Kivelson, M.G., D.J. Southwood, K.K. Khurana, C.T. Russell, and R.J. Walker, Jupiter's dynamic magnetosphere, *Jupiter Planet, Satellites & Magnetosphere*, pp. 61, Boulder, Colorado, 2001.
77. *Walker, R.J., J.A. Linker, and T. Ogino, A global magnetohydrodynamic simulation of the Jovian magnetosphere including the Io plasma torus, Presented at IAGA Symposia, pp. 219, Hanoi, Vietnam 2001.
78. *Walker, R.J., T. Ogino, J.A. Linker, and R. Lionello, Currents in the Jovian magnetosphere, *Eos. Trans. AGU*, 83(22), West. Pac. Geophys. Meet. Suppl., Abstract SP51D-04, 2002.
79. *Walker, R.J., Magnetosphere-ionosphere coupling in rapidly rotating magnetospheres, Abstract COSPAR02-A-01569, COSPAR, Houston, TX, 2002.
80. *Walker, R.J., S. Joy, and T. King, The state of the solar terrestrial data environment, *Eos, Trans. AGU*, 83(47), Fall Meet. Suppl., Abstract SH52C-02, 2002.
81. *Walker, R.J., S.P. Joy, and T.A. King, Managing distributed and diverse space physics data, IUGG 2003 Sapporo Japan, Abstract GAV.03/04A/A07-009, 2003.
82. Walker, R.J., S.P. Joy, and T.A. King, Data management in planetary exploration and Space Physics, *Eos, Trans. AGU*, 84(46), Fall Meet. Suppl., Abstract U21B-06, 2003.
83. *Walker, R.J., M. Ashour-Abdalla, F.V. Coroniti, M. El-Alaoui, L.M. Zelenyi, G.N. Zastenker, MHD Simulations of the MHD Simulations of the Magnetospheres by using Multiple Solar Wind Monitors, Presented at Asia Oceanic Geophysics Meeting, Singapore, July 2004.
84. *Walker, R.J., The 25-year March Toward a Space Physics Data System keynote address, Presented at Virtual Observatories in Space and Solar Physics, Greenbelt, MD, October 2004.
85. *Walker, R.J., A Space Physicist's View of CCMC, CCMC Workshop, Clearwater Beach, Florida, October, 2005.
86. *Walker, R.J., T.A. King, and S.P. Joy, (2005), Future Directions in Space Physics Data Management, *Eos Trans. AGU*, 86(18), Jt. Assem. Suppl., Abstract SH42A-01.
87. *Walker, R.J., T.A. King, and S.P. Joy (2005), The Principles for Successful Scientific Data Management Revisited, *Eos Trans. AGU*, 86(52), Fall Meet. Suppl., Abstract N23C-01.
88. *Walker, R., M. Ashour-Abdalla, and M. El-Alaoui, Quasi-periodic magnetotail flow reveals during prolonged intervals with southward IMF, (abstract) COSPAR 2006-A-02135, COSPAR, Beijing, China, July, 2006.
89. Ashour-Abdalla, M., J.M. Bosqued, M. El-Alaoui, V. Perroomian, D. Schriver, J.P. Berchem, R.L. Richard, T. Umeda, and R.J. Walker, Multiscale Mission-Oriented Theory for Cluster and Double Star, Abstract, SM11A-05, Western Pacific Geophysics Meeting, Beijing, China, July 2006.
90. *Walker, R.J., M. Ashour-Abdalla, M. El-Alaoui, V. Perroomian, Achieving Data Theory Closure in Magnetospheric Physics, (Abstract) SM24E-01, Western Pacific Geophysics Meeting, Beijing, China, July, 2006.

PUBLICATIONS IN REFEREED JOURNALS

1. Walker, R.J., and T.A. Farley, The spatial distribution of energetic plasma sheet electrons, *J. Geophys. Res.*, 77(25), 4650, 1972.
2. Walker, R.J., and M.G. Kivelson, Energization of electrons at synchronous orbit by substorm-associated cross-magnetosphere electric fields, *J. Geophys. Res.*, 80(16), 2074, 1975.

3. Walker, R.J., K.N. Erickson, R.L. Swanson, and J.R. Winckler, Studies of the trapped radiation at synchronous orbit with the University of Minnesota ATS-6 electron-proton spectrometer, IEEE AES Trans. on Aerospace and Electronics Systems, AES-11(6), 1131, 1975.
4. Walker, R.J., An evaluation of recent quantitative magnetospheric magnetic field models, Rev. Geophys., 14(3), 411, 1976.
5. Walker, R.J., K.N. Erickson, R.L. Swanson, and J.R. Winckler, Substorm-associated particle boundary motion at synchronous orbit, J. Geophys. Res., 91(31), 5541, 1976.
6. Walker, R.J., K.N. Erickson, and J.R. Winckler, Pitch angle dispersion of drifting energetic protons at synchronous orbit, J. Geophys. Res., 83(A4), 1595, 1978.
7. Walker, R.J., M.G. Kivelson, and A.W. Schardt, High b plasma in the dynamic Jovian current sheet, Geophys. Res. Lett., 5, 799, 1978.
8. Erickson, K.N., R.L. Swanson, R.J. Walker, and J.R. Winckler, A study of magnetospheric dynamics during auroral electrojet events by observations of energetic electron intensity changes at synchronous orbit, J. Geophys. Res., 84(A3), 93, 1979.
9. Walker, R.J., Quantitative modeling of planetary magnetospheric magnetic fields, p. 9 in Quantitative Modeling of Magnetospheric Processes, Geophys. Monogr. Ser. 21, (W.P. Olson, Ed.), AGU, Washington, D.C., 1979.
10. Southwood, D.J., M.G. Kivelson, R.J. Walker, and J.A. Slavin, Io and its plasma environment, J. Geophys. Res., 85(A11), 5959, 1980. (UCLA IGPP Pub. No. 1990.)
11. Jones, D.E., B.T. Tsurutani, E.J. Smith, R.J. Walker, and C.P. Sonett, Observations of Titan's magnetic wake: Pioneer 11, J. Geophys. Res., 85(A11), 5835, 1980. (UCLA IGPP Pub. No. 2111.)
12. Luhmann, J.G., and R.J. Walker, Some possible effects of Jupiter's rings on the Jovian inner plasmasphere, ICARUS, 44, 361, 1980. (UCLA IGPP Pub. No. 2061).
13. Singer, H.J., D.J. Southwood, R.J. Walker, and M.G. Kivelson, Alfvén wave resonances in a realistic magnetospheric magnetic field geometry, J. Geophys. Res., 86(A6), 4589, 1981. (UCLA IGPP Pub. No. 1995).
14. Wu, C.C., R.J. Walker, and J.M. Dawson, A three-dimensional MHD model of the Earth's magnetosphere, Geophys. Res. Lett., 8, 523, 1981. (PPG Pub. No. 528).
15. Zhuang, H.C., C.T. Russell, and R.J. Walker, The influence of the interplanetary magnetic field and thermal pressure on the position and shape of the magnetopause, J. Geophys. Res., 86(A12), 10009, 1981. (UCLA IGPP Pub. No. 2120).
16. Luhmann, J.G., and R.J. Walker, Model exospheres of the ringed planets, Geophys. Res. Lett., 8(1), 107, 1981. (UCLA IGPP Pub. No. 2974).
17. Goldstein, B.E., S.T. Suess, and R.J. Walker, Mercury: Magnetospheric processes and the atmospheric supply and loss rates, J. Geophys. Res., 86(A7), 5485, 1981.
18. Russell, C.T., H.C. Zhuang, R.J. Walker, and N.U. Crooker, A note on the location of the stagnation point in the magnetosheath flow, Geophys. Res. Lett., 9, 984, 1981. (UCLA IGPP Pub. No. 2146).
19. Walker, R.J., and M.G. Kivelson, Multiply reflected standing Alfvén waves in the Io torus: Pioneer 10 observations, Geophys. Res. Lett., 8, 12, 1981. (UCLA IGPP Pub. No. 2184).
20. Walker, R.J., and D.J. Southwood, Momentum balance and flux conservation in model magnetospheric magnetic fields, J. Geophys. Res., 87(A4), 7460, 1982.
21. Sato, T., and R.J. Walker, Magnetotail dynamics excited by the streaming tearing mode, J. Geophys. Res., 87(A9), 7453, 1982. (PPG Pub. No. 616).

22. Walker, R.J., Modeling planetary magnetospheres, IUGG Quadrennial Report, Rev. Geophys. Space Phys., 21(2), 495, 1983. (UCLA IGPP Pub. No. 2352).
23. Sato, T., T. Hayashi, R.J. Walker, and M. Ashour-Abdalla, Neutral sheet current interruption and field-aligned current generation by three-dimensional driven reconnection, Geophys. Res. Lett., 10(3), 221, 1983. (UCLA IGPP Pub. No. 2423).
24. Luhmann, J.G., R.J. Walker, C.T. Russell, N.U. Crooker, J.R. Spreiter, and S.S. Stahara, Patterns of magnetic field merging sites on the magnetopause, J. Geophys. Res., 89(A3), 1739, 1984. (UCLA IGPP Pub. No. 2443).
25. Walker, R.J., and T.Sato, Externally driven magnetic reconnection, Geophys. Monogr. Ser., 30, 272, 1984. (UCLA IGPP Pub. No. 2520).
26. Kelly, T.J., C.T. Russell, and R.J. Walker, ISEE-1 and -2 observations of an oscillating inward moving current sheet near midnight, J. Geophys. Res., 89(A5), 2745, 1984. (UCLA IGPP Pub. No. 2407).
27. Luhmann, J.G., R.J. Walker, C.T. Russell, J.R. Spreiter, S.S. Stahara, and D.J. Williams, Mapping the magnetosheath field between the magnetopause and the bow shock: Implications for magnetospheric particle leakage, J. Geophys. Res., 89(A8), 6829, 1984.
28. Sato, T., R.J. Walker, and M. Ashour-Abdalla, Driven magnetic reconnection in three dimensions: Energy conversion and field-aligned current generation, J. Geophys. Res., 89(A11), 9761, 1984. (UCLA IGPP Pub. No. 2521).
29. Ogino, T., and R.J. Walker, An MHD simulation of the bifurcation of the tail lobes during intervals with northward interplanetary magnetic field, Geophys. Res. Lett. 11(10), 1018, 1984. (PPG Pub. No 728).
30. Winterhalter, D., M.G. Kivelson, R.J. Walker, and C.T. Russell, The magnetic field change across the earth's bow shock: Comparison between observations and theory, J. Geophys. Res., 90(A5), 3925, 1985. (UCLA IGPP Pub. No. 2579). Also in Adv. Space Res., 4(2-3), 287, 1984.
31. Linker, J.A., M.G. Kivelson, M.A. Moreno, and R.J. Walker, Explanation of the inward displacement of Io's hot plasma torus and consequences for sputtering sources, Nature, 315, 373, 1985. (UCLA IGPP Pub. No. 2578).
32. Walker, R.J., and C.T. Russell, Flux transfer events at the Jovian magnetopause, J. Geophys. Res., 90(A8), 7397, 1985. (UCLA IGPP Pub. No. 2583).
33. Ogino, T., R.J. Walker, M. Ashour-Abdalla, and J.M. Dawson, An MHD simulation of By-dependent magnetospheric convection and field-aligned currents during northward IMF, J. Geophys. Res., 90(A11), 10835, 1985 (PPG Pub. No. 805).
34. Russell, C.T., and R.J. Walker, Flux transfer events at Mercury, J. Geophys. Res., 90(A11), 11067, 1985 (UCLA IGPP Pub. No. 2617).
35. Kelly, T.J., C.T. Russell, R.J. Walker, G.K. Parks, and J.T. Gosling, ISEE-1 and -2 observations of Birkeland currents in the earth's inner magnetosphere, J. Geophys. Res., 91(A6), 6945, 1986 (UCLA IGPP Pub. No. 2704).
36. Ogino, T., R.J. Walker, M. Ashour-Abdalla, and J.M. Dawson, An MHD simulation of the effects of the interplanetary magnetic field By component on the interaction of the solar wind with the earth's magnetosphere during southward IMF, J. Geophys. Res., 91(A9), 10029, 1986 (UCLA PPG Pub. No. 855).
37. Walker, R.J., T. Ogino, and M. Ashour-Abdalla, A magneto-hydrodynamic simulation of reconnection in the magnetotail during intervals with southward interplanetary magnetic field, p. 183 in Magnetotail Physics, (A.T.Y. Lui, Ed.), The Johns Hopkins University Press, 1987.
38. Ogino, T., R.J. Walker, and M. Ashour-Abdalla, An MHD simulation of the interaction of the solar wind with the outflowing plasma from a comet, Geophys. Res. Lett., 13(9), 929, 1986.

39. Spence, H.E., M.G. Kivelson, and R.J. Walker, Static magnetic field models consistent with nearly isotropic plasma pressure, Geophys. Res. Lett., 14(8), 872, 1987. (UCLA IGPP Pub. no. 2955)
40. Khurana, K.K., M.G. Kivelson, T.P. Armstrong, and R.J. Walker, Voids in the jovian magnetosphere revisited: Evidence of spacecraft charging, J. Geophys. Res., 92, A12, 13399, 1987. (UCLA IGPP Pub. No. 2909).
41. Walker, R.J., and T. Ogino, Field aligned currents and magnetospheric convection: A comparison between MHD simulations and observations, in Modeling Magnetospheric Plasma (T. Moore and J.H. Waite , Eds.) Geophysical Monograph, 44, 39, 1988.
42. Elphic, R.C., T.J. Kelly, H.E. Spence, R.J. Walker, C.T. Russell, and M. Suguira, Auroral zone field-aligned currents observed in the magnetotail and at intermediate altitudes: An ISEE perspective, p. 183 in Magnetotail Physics, (A.T.Y. Lui, Ed.), The Johns Hopkins University Press, Laurel, MD, 1987.
43. Walker, R.J., T. Ogino, and M. Ashour-Abdalla, A global magnetohydrodynamic model of magnetospheric substorms, in Physics of Space Plasmas, (T. Chang, G.B. Crew, and J.R. Jasperse, Eds.), Scientific Publishers, Cambridge, MA, SPR Conference Proceedings and Reprint Series, 7, 235, 1988.
44. Walker, R.J., T. Ogino, and M. Ashour-Abdalla, Simulating the Magnetosphere: The structure of the magnetotail, Geophys. Monograph, 54, 61, 1989. (UCLA IGPP Pub. No. 3235).
45. Ogino, T., R.J. Walker, and M. Ashour-Abdalla, A three dimensional MHD simulation of the interaction of the solar wind with Comet Halley, J. Geophys. Res., 93, A9,9568, 1988. Also Laboratory and Space Plasmas, Springer-Verlag, New York, 1987.
46. Richard, R.L., R.J. Walker, R.D. Sydora, and M. Ashour-Abdalla, The coalescence of magnetic flux ropes and reconnection in the magnetotail, J. Geophys. Res., 94,A3, 2471, 1989.
47. Linker, J.A., M.G. Kivelson, and R.J. Walker, An MHD simulation of plasma flow past Io: Alfvén and slow mode perturbations, Geophys. Res. Lett., 5, 11, 1311, 1988. (UCLA IGPP Pub. No. 3120).
48. Spence, H.E., M.G. Kivelson, R.J. Walker, and D.J. McComas, Magnetotail plasma pressures: Observations from 2.5 to 35R_E, J. Geophys. Res., 94, A5, 5264, 1989. (UCLA IGPP Pub. No. 3088)
49. Walker, R.J., and T. Ogino, Global magnetohydrodynamic simulations of the magnetosphere, IEEE Transactions on Plasma Science, 17, 2, 135, 1989. (UCLA IGPP Pub. No. 3182).
50. Ogino, T., R.J. Walker, and M. Ashour-Abdalla, A magnetohydrodynamic simulation of the formation of magnetic flux tubes at the Earth's dayside magnetopause, Geophys. Res. Lett., 16, 2, 155, 1989.
51. Spence, H.S., M.G. Kivelson, and R.J. Walker, Comparison of field-aligned currents at ionospheric and magnetospheric altitudes, Adv. Space Res., 8,9, 343,1988
52. Linker, J.A., M.G. Kivelson, and R.J. Walker, The effect of mass loading on the temperature of flowing plasma, Geophys. Res. Lett., 16, 7, 763, 1989.
53. Zhu, X.M., M.G. Kivelson, R.J. Walker, C.T. Russell, M.F. Thomsen, and D.J. McComas, ISEE-1,2 Spacecraft, Study of an unusual flux transfer event, Advances in Space Res., 8, 9, 259, 1988. (UCLA IGPP Pub. No. 3126).
54. Ogino, T., R.J. Walker, and M. Ashour-Abdalla, Magnetic flux ropes in 3-dimensional MHD simulations, The physics of magnetic flux ropes (edited C.T. Russell, E.R. Priest, and L.C. Lee), Geophys. Monograph, 58, 669, 1990. (UCLA IGPP Pub. No. 3242).
55. Walker, R.J., and T. Ogino, The formation of isolated magnetic flux tubes on the dayside magnetopause, Electromagnetic coupling in the polar clefts and caps,

- P.E. Sandholt and A. Egeland, Eds., Kluwer Academic Publishers, Dordrecht, The Netherlands, 11, 1989.
56. Lin, N., R.J. Walker, R.L. McPherron, and M.G. Kivelson, Magnetic islands in the near geomagnetic tail and its implications for the mechanism of the 1054 UT CDAW 6 substorm, The physics of magnetic flux ropes (edited C.T. Russell, E.R. Priest, and L.C. Lee), Geophys. Monograph, 58, 647, 1990. (UCLA IGPP Pub. No 3255).
 57. Hammond, C.M., R.J. Walker, and M.G. Kivelson, A pincer shaped plasma sheet at Uranus, J. Geophys. Res., 95, A9, 14987, 1990 (UCLA IGPP Pub. No. 3238).
 58. Hammond, C.M., M.G. Kivelson, and R.J. Walker, Plasma in the uranian magnetosphere, Advance in Space Res., 12, 8, 67, 1992,(UCLA IGPP Pub. No. 3399).
 59. Kivelson, M.G., C.F. Kennel, R.L. McPherron, C.T. Russell, D.J. Southwood, R.J. Walker, C.M. Hammond, K.K. Khurana, R.J. Strangeway, and P.J. Coleman, Magnetic field studies of the solar wind interaction with Venus from the Galileo flyby: First results, Science, 253, 5029, 1518, 1991. (UCLA IGPP Pub. No. 3462).
 60. Linker, J.A., M.G. Kivelson, and R.J. Walker, A three-dimensional MHD simulation of plasma flow past Io, J. Geophys. Res., 96, A12, 21037, 1991.
 61. Angelopoulos, V., W. Baumjohann, C.F. Kennel, F.V. Coroniti, M.G. Kivelson, R. Pellat, R.J. Walker, H. Luhr, and G. Paschmann, Bursty bulk flows in the inner central plasma sheet, J. Geophys. Res., 97, 4, 4027, 1992.
 62. Lin, N., R.L. McPherron, M.G. Kivelson, and R.J. Walker, Multi-point reconnection in the near-Earth magnetotail: CDAW 6 observations of energetic particles and magnetic field, J. Geophys. Res., 96, A11, 19427, 1991 (UCLA IGPP Pub. No. 3193).
 63. Ogino, T., R.J. Walker, and M. Ashour-Abdalla, A global magnetohydrodynamic simulation of the magnetosheath and magnetosphere when the interplanetary magnetic field is northward, IEEE Trans. Plasma Sci., 20, 6, 487, 1992. (UCLA IGPP Pub. No. 3665.)
 64. Walker, R.J., T. Ogino, M. Ashour-Abdalla, and J. Raeder, A global magnetohydrodynamic simulation of magnetospheric dynamics when the IMF is southward: Mapping to the auroral zone, Proceedings of the International Conference Substorms, Kiruna, Sweden, ESA Conference Proceedings, SP-335, 571, 1992. (UCLA IGPP Pub. No. 3671.)
 65. Chen, S.-H., M.G. Kivelson, J.T. Gosling, R.J. Walker, and A.J. Lazarus, Anomalous aspects of magnetosheath flow and of the shape and oscillations of the magnetopause during an interval of strongly northward interplanetary magnetic field, J. Geophys. Res., 98, A4, 5727, 1993. (UCLA IGPP Pub. No. 3696).
 66. Angelopoulos, V., C.F. Kennel, F.V. Coroniti, R. Pellat, M.G. Kivelson, R.J. Walker, W. Baumjohann, G. Paschmann, and H. Luhr, Bursty bulk flows in the inner central plasma sheet: An effective means of earthward transport in the magnetotail, Proceedings of the International Conference on Substorms (ICS-1), Kiruna, Sweden, ESA SP-335, 303, 1992.
 67. Angelopoulos, V., C.F. Kennel, F.V. Coroniti, W.C. Feldman, J.T. Gosling, M.G. Kivelson, R.J. Walker, and C.T. Russell, Observations of a quasi-static plasma sheet boundary, Geophys. Res. Lett., 20, 24, 2813, 1993.
 68. Wang, Z., M. Ashour-Abdalla, and R.J. Walker, An electric field model for an open magnetosphere, J. Geophys. Res., 98, A12, 21277, 1993. (UCLA IGPP Pub. No. 1399.)
 69. Walker, R.J., T. Ogino, J. Raeder, and M. Ashour-Abdalla, A global magnetohydrodynamic simulation of the magnetosphere when the interplanetary magnetic field is southward: The onset of magnetotail reconnection, J. Geophys. Res., 98, A10, 17,235, 1993. (UCLA IGPP Pub. No. 3666).

70. Kivelson, M.G., L.F. Bargatze, K.K. Khurana, D.J. Southwood, R.J. Walker, and P.J. Coleman, Jr., Magnetic signatures near Galileo's closest approach to Gaspra, Science, 261, 331, 1993. (UCLA IGPP Pub. No. 3821).
71. Kivelson, M.G., C.F. Kennel, R.L. McPherron, C.T. Russell, D.J. Southwood, R.J. Walker, K.K. Khurana, P.J. Coleman, C.M. Hammond, V. Angelopoulos, A.J. Lazarus, and R.P. Lepping, The Galileo earth encounter: Magnetometer and allied measurements, J. Geophys. Res., 98, A2, 11299, 1993. (UCLA IGPP Pub. No. 3744).
72. Angelopoulos, V. C.F. Kennel, F.V. Coroniti, R. Pellat, H.E. Spence, M.G. Kivelson, R.J. Walker, W. Baumjohann, W. C. Feldman, J.T. Gosling, and C.T. Russell, Characteristics of ion flow in the quiet state of the inner plasma sheet, Geophys. Res. Lett., 20, 16, 1711, 1993.
73. Ogino, T., R.J. Walker, and M. Ashour-Abdalla, A global magnetohydrodynamic simulation of the response of the magnetosphere to a northward turning of the interplanetary magnetic field, J. Geophys. Res., 99, A6, 11,027, 1994. (UCLA IGPP Pub. No. 3950). [93JA03313](#)
74. Hammond C.M., M.G. Kivelson, and R.J. Walker, Imaging the effect of dipole tilt on magnetotail boundaries, J. Geophys. Res., 99, A4, 6079, 1994. (UCLA IGPP Pub. No. 3667). [93JA01924](#)
75. Berchem, J., J. Raeder, R.J. Walker, and M. Ashour-Abdalla, Interactive visualization of numerical simulation results: A tool for mission planning and data analysis, Visualization Techniques in Space and Atmospheric Sciences, Edited by E.P. Szuszczewicz and J. Bredekamp, NASA SP-519, Washington D.C. 131, 1995. [VTSAS13195](#)
76. Walker, R.J., T. Ogino, and M. Ashour-Abdalla, Using global magnetohydrodynamic simulation to model auroral dynamics, Solar Terrestrial Energy Program: The Initial Results from STEP Facilities and Theory Campaigns, Edited by D. Baker, V. Papitasvili, Cospar Colloquia Series, 5, 775pp, 1993. (UCLA IGPP Pub No. 3915). [COSPAR77593](#)
77. King, T.A., R.J. Walker, and S.P. Joy, A set of design specifications for distributed data inventories, Visualization Techniques in Space and Atmospheric Sciences, Edited by E.P. Szuszczewicz and J. Bredekamp, NASA SP-519, Washington D.C. 253, 1995. [VTSAS25395](#)
78. Richard, R.L., R.J. Walker, and M. Ashour-Abdalla, The population of the magnetosphere by solar wind ions when the interplanetary magnetic field is northward, Geophys. Res. Lett., 21, 2455, 1994. (UCLA IGPP Pub. No. 3994) [94GL01427](#)
79. Angelopoulos, V., C.F. Kennel, F.V. Coroniti, R. Pellat, M.G. Kivelson, R.J. Walker, C.T. Russell, W. Baumjohann, W.C. Feldman, and J.T. Gosling, Statistical characteristics of bursty bulk flow events, J. Geophys. Res., 99, A11, 21,257, 1994. [94JA01263](#)
80. King, T., S. Joy, R.J. Walker, The Design, Development and Operation of a Distributed Data Inventory System, Proceedings of the 7th IEEE Conference for Scientific and Statistical Database Management, Edited by J.C. French and Hans Hinterberger, IEEE Computer Society Press, 287, 1994. (UCLA IGPP Pub. No. 4095).
81. Walker, R.J., R.L. Richard, and M. Ashour-Abdalla, The Entry of Solar Wind Ions into the Magnetosphere, Physics of the Magnetopause, Edited by P. Song, B. Sonnerup, and M. Thomsen, Geophys. Monogr., 90, 311, 1995. (UCLA IGPP Pub. No. 4169). [Mono90311](#)
82. Raeder, J., R.J. Walker, and M. Ashour-Abdalla, The Structure of the Distant Geomagnetic Tail During Long Periods of Northward IMF, Geophys. Res. Lett., 22, 4, 349, 1995. [94GL03380](#)

83. Xu, D., M.G. Kivelson, R.J. Walker, P.T. Newell, and C. -I. Meng, Interplanetary Magnetic Field Control of Mantle Precipitation and Associated Field-Aligned Currents, J. Geophys. Res., 100, A2, 1837, 1995. (UCLA IGPP Pub. No. 4143). [94JA02037](#)
84. Ogino, T., R.J. Walker, and M. Ashour-Abdalla, An MHD Simulation of Energy Flow in the Solar Wind Magnetosphere and Ionosphere System: Steady Convection Events, Adv. Space Res., 18, 8, 247, 1996. [ASR18247](#)
85. Walker, R.J., and M. Ashour-Abdalla, The magnetosphere in the machine, large scale theoretical model of the magnetosphere, IUGG Quadrennial Report, Rev. Geophys., Supplement, 639, 1995. (UCLA IGPP Pub. No. 4179). [IUGG63995](#)
86. Ogino, T., R.J. Walker, M. Ashour-Abdalla, A global magnetohydrodynamic simulation of steady magnetospheric convection, Substorms 2, Proceedings of the International Conference on Substorms, edited by J. Kan, J. Cravens, S.I Akasofu, University of Alaska, 545, 1994. (UCLA, IGPP Pub. No. 4183). [Substorm54594](#)
87. Ashour-Abdalla, M., J. Berchem, F.V. Coroniti, J. Raeder, D. Schriver, and R.J. Walker, Mission-oriented theory for ISTP, Space Sci. Rev., 71, 647, 1995. (UCLA IGPP Pub. No. 3908). [SSR7164795](#)
88. Pulkkinen, T.I., D.N. Baker, R.J. Walker, J. Reader, and M. Ashour-Abdalla, Comparisons of empirical magnetic field models and global MHD simulations: The near-tail currents, Geophys. Res. Lett., 22, 6, 675, 1995. [95GL00540](#)
89. Wang, Z., M.G. Kivelson, S. Joy, K.K. Khurana, C. Polanskey, D.J. Southwood, and R.J. Walker, Solar wind interaction with small bodies: 1. Whistler wing signatures near Galileo's closest approach to Gaspra and Ida, (IGPP Pub. No. 4193), Adv. in Space Res., 16, 47, 1995. [ASR16471995](#)
90. Kivelson, M.G., Z. Wang, S. Joy, K.K. Khurana, C. Polanskey, D.J. Southwood, and R.J. Walker, Solar wind interaction with small bodies: 2. What can Galileo's detection of magnetic rotations tell us about Gaspra and Ida. (IGPP Pub. No. 4194) Adv. in Space Res., 16, 59, 1995. [ASR16591995](#)
91. Walker, R.J., S.P. Joy, T. King, C.T. Russell, R.L. McPherron, and W.S. Kurth, The Planetary Plasma Interactions Node of the Planetary Data System, Planet. Space Sci., 44, 1, 55, 1996. (UCLA IGPP Pub. No. 4215). [PSS44155](#)
92. Walker, R.J., R.L. Richard, T. Ogino, and M. Ashour-Abdalla, Solar Wind entry into the Magnetosphere when the Interplanetary Magnetic Field is Southward, Physics of Space Plasmas (1995), MIT Center for the Theoretical Geocosmo Plasma Physics, 14, 561, edited by T. Chang and J.R. Jasperse, 1996. [PSP14561](#)
93. Walker, R.J., and T. Ogino, A Global Magnetohydrodynamic Simulation of the Origin and Evolution of Magnetic Flux Ropes in the Magnetotail, Journal of Geoelectricity and Geomagnetism, 48, 516, 768, 1996. (UCLA IGPP Pub. No. 4306). [JGeoGeo408765](#)
94. Khurana, K.K., R.J. Walker, and T. Ogino, Magnetospheric Convection in the Presence of IMF By: A Conceptual Model and Simulations, J. Geophys. Res., 101, A3, 4607, 1996. (UCLA IGPP Pub. No. 3764) [95JA03673](#)
95. Angelopoulos, V., F.V. Coroniti, C.F. Kennel, M.G. Kivelson, R.J. Walker, C.T. Russell, R.L. McPherron, E. Sanchez, C.-I. Meng, W. Baumjohann, G.D. Reeves, R.D. Belian, N. Sato, E. Friis-Christensen, P.R. Sutcliffe, K. Yumoto, and T. Harris, Multipoint Analysis of a Bursty Bulk Flow Event on April 11, 1985, J. Geophys. Res., 101, A3, 4967, 1996. [95JA02722](#)
96. Kivelson, M.G., K.K. Khurana, R.J. Walker, J.A. Linker, C.T. Russell, D.J. Southwood, and C. Polanskey, A Magnetic Signature of Io: First Report from Galileo Magnetometer, Science, 273, 5273, 337, 1996. (UCLA IGPP Pub. No. 4627) [Sci273337](#)

97. Yi, Y., R.J. Walker, T. Ogino, and J.C. Brandt, Global Magnetohydrodynamic Simulation of a Comet Crossing the Heliospheric Current Sheet, J. Geophys. Res., 101, A12, 27, 585, 1996. [96JA02235](#)
98. Kivelson, M.G., K.K. Khurana, R.J. Walker, Kepko, L., and D. Xu, Flux Ropes, Interhemispheric Conjugacy and Magnetospheric Current Closure, J. Geophys. Res., 101, A12, 27, 341, 1996. (UCLA IGPP Pub. No. 4572) [96JA02220](#)
99. Kivelson, M.G., K.K. Khurana, R.J. Walker, J. Warnecke, C.T. Russell, J.A. Linker, D.J. Southwood, and C. Polanskey, Io's Interaction with the Plasma Torus: Galileo Magnetometer Report, Science, 274, 5286, 396, 1996. [Sci274396](#)
100. Kivelson, M.G., K.K. Khurana, C.T. Russell, R.J. Walker, J. Warnecke, F.V. Coroniti, C. Polanskey, D.J. Southwood, and G. Schubert, Discovery of Ganymede's Magnetic Field by the Galileo Spacecraft, Nature, 1384, 537, 1996. (UCLA IGPP Pub. No. 4652) [N384537](#)
101. Ashour-Abdalla, M., M. El-Alaoui, V. Perroomian, J. Raeder, R.J. Walker, R.L. Richard, L.M. Zelenyi, L.A. Frank, W.R. Paterson, J.M. Bosqued, R.P. Lepping, and K. Olgilvie, Ion Sources and Acceleration Mechanisms Inferred from Local Distribution Functions, Geophys. Res. Lett., 24, 8,955, 1997. [97GL00060](#)
102. Richard, R.L., R.J. Walker, T. Ogino, and M. Ashour-Abdalla, Flux Ropes in the Magnetotail: Consequences for Ion Populations, Adv. Space Res., 20, 1017, 1997. [ASR201017](#)
103. Khurana, K.K., M.G. Kivelson, C.T. Russell, R.J. Walker, and D.J. Southwood, Absence of an Internal Magnetic Field at Callisto, Nature, 387, 262, 1997. (UCLA IGPP Pub. No. 4844) [N387262a0](#)
104. Kivelson, M.G., K.K. Khurana, S. Joy, C.T. Russell, D.J. Southwood, R.J. Walker, and C. Polanskey, Europa's Magnetic Signature: Report from Galileo's First Pass on December 19, 1996, Science, 276, 1239, 1997. (UCLA IGPP Pub. No. 4864) [Sci2761239](#)
105. Kivelson, M.G., M. Cao, R.L. McPherron, and R.J. Walker, A Possible Signature of Magnetic Cavity Mode Oscillations in ISEE Spacecraft Observations, J. Geomag. Geoelec., 49, 1079, 1997. (UCLA IGPP Pub. No. 3831) [JGeoGeo491079](#)
106. Ogino, T., R.J. Walker, and M.G. Kivelson, A Global Magnetohydrodynamic Simulation of the Jovian Magnetosphere, J. Geophys. Res., 103, A1, 225, 1998. (UCLA IGPP Pub. No. 4649) [97JA02247](#)
107. Kivelson, M.G., K.K. Khurana, C.T. Russell, and R.J. Walker, Intermittent Short-Duration Plasma-Field Anomalies in the Io Plasma Torus: Evidence for Interchange in the Io Plasma Torus? Geophys. Res. Lett., 24, 17, 2127, 1997. (UCLA IGPP Pub. No. 4851) [97GL02202](#)
108. Kivelson, M.G., K.K. Khurana, F.V. Coroniti, S. Joy, C.T. Russell, R.J. Walker, J. Warnecke, L. Bennett, and C. Polanskey, The Magnetic Field and Magnetosphere of Ganymede, Geophys. Res. Lett., 24, 17, 2155, 1997. (UCLA IGPP Pub. No. 4865) [97GL02201](#)
109. Kivelson, M.G., K.K. Khurana, C.T. Russell, R.J. Walker, P.J. Coleman, F.V. Coroniti, J. Green, S. Joy, R.L. McPherron, C. Polanskey, D.J. Southwood, L. Bennett, J. Warnecke, and D.E. Huddleston, Galileo Jupiter: Changing State of the Magnetosphere and First Looks at Io and Ganymede, Adv. Space Res., 20, 2, 193, 1997. [ASR20193](#)

110. Ashour-Abdalla, M. El-Alaoui, V. Perroomian, J. Raeder, R.L. Richard, R.J. Walker, L.M. Zelenyi, L.A. Frank, W.R. Paterson, J.M. Bosqued, R.P. Lepping, K. Olgilvie, S. Kokubun, and T. Yamamoto, Determination of Particle Sources for a Geotail Distribution Function Observed on May 23, 1995, Geophys. Monograph, 104, 297, 1998. [Mono104297](#)
111. Linker, J.A., K.K. Khurana, M.G. Kivelson, and R.J. Walker, MHD Simulations of Io's Interaction with the Plasma Torus, J. Geophys. Res. 103, E9, 19,867, 1998. [98JE00632](#)
112. Walker, R.J., R.L. Richard, T. Ogino, and M. Ashour-Abdalla, The Response of the Magnetotail to Changes in the IMF Orientation: The Magnetotail's Long Memory, Physics and Chemistry of the Earth C, 24, 1-3, 221, 1999. (UCLA IGPP Pub No. 4932). [PhysChemEarth24221](#)
113. Kivelson, M.G. J. Warnecke, L. Bennett, S. Joy, K.K. Khurana, J.A. Linker, C.T. Russell, R.J. Walker, and C. Polanskey, Ganymede's Magnetosphere: Magnetometer Overview. J. Geophys. Res., 103, E9, 19,963, 1998. (UCLA IGPP Pub. No 4931) [98JE00227](#)
114. Khurana, K.K., M.G. Kivelson, D.J. Stevenson, G. Schubert, C.T. Russell, R.J. Walker, S. Joy, and C. Polanskey, Induced magnetic fields as evidence for subsurface oceans in Europa and Callisto, Nature, 395, 777, 1998. (UCLA IGPP Pub. No. 4931) [N395777](#)
115. Walker, R.J., T. Ogino, and M. Ashour-Abdalla, The response of the magnetosphere to a solar wind density pulse, Substorms-4, Edited by S. Kokubun and Y. Kamide, Kluwer Academic Publishers, Dordrecht, 527, 1998. [Substorm52798](#)
116. Ashour-Abdalla, M., M. El-Alaoui, V. Perroomian, J. Reader, R.J. Walker, L.A. Frank, and W.R. Paterson, Sources and transport of plasma sheet ions during magnetospheric substorms, Substorms-4, Edited by S. Kokubun and Y. Kamide, Kluwer Academic Publishers, Dordrecht, 479, 1998. [Substorm47998](#)
117. Ogino, T., and R.J. Walker, Response of the magnetosphere to a southward turning of the IMF: Energy flow and near-Earth tail dynamics, Substorms-4, Edited by S. Kokubun and Y. Kamide, Kluwer Academic Publishers, Dordrecht, 635, 1998. [Substorm63598](#)
118. Yu, Y., R.J. Walker, T. Ogino, and J.C. Brandt, Reply, J. Geophys. Res., 103, 6637, 1998. [97JA03269](#)
119. Ashour-Abdalla, M., El-Alaoui, V. Perroomian, R.J. Walker, J. Raeder, L.A. Frank, and W.R. Paterson, Source distributions of substorm ions observed in the near-Earth magnetotail, Geophys. Res. Lett., 26, 7, 955, 1999. [1999GL900112](#)
120. Kivelson, M.G., K.K. Khurana, D.J. Stevenson, L. Bennett, S. Joy, C.T. Russell, R.J. Walker, and C. Polanskey, Europa and Callisto: Induced or intrinsic fields in a periodically varying plasma environment, J. Geophys. Res., 104, A3, 4609, 1999. (UCLA IGPP Pub. No 5086) [1998JA900095](#)
121. Bargatze, L.F., T. Ogino, R.L. McPherron, and R.J. Walker, Solar wind magnetic field control of magnetospheric response delay and expansion phase onset timing, J. Geophys. Res., 104, A7, 14,583 1999. (UCLA IGPP Pub. No. 5256) [1999JA900013](#)
122. Ashour-Abdalla, M., M. El-Alaoui, V. Perroomian, J. Raeder, R.J. Walker, L.A. Frank, and W.R. Paterson, Origins and Transport of Ions During Magnetospheric Substorms, Geophys. Monograph, 109, 183, 1999. [Mono109183](#)
123. Ashour-Abdalla, M., M. El-Alaoui, V. Perroomian, R.J. Walker, J. Raeder, L.A. Frank, and W.R. Paterson, The Origin of the Near-Earth Plasma Population During a Substorm on November 24, 1996, J. Geophys. Res., 105, A2, 2589, 1999. [1999JA900389](#)

124. Walker, R.J., T. Terasawa, S.P. Christon, V. Angelopoulos, M. Hoshino, W. Lennartsson, K. Maezawa, D.G. Sibeck, R.A. Treumann, D.J. Williams, and L. Zelenyi, Source and Loss Processes in the Magnetotail, (edited by B. Hultqvist, M. Øieroset, G. Paschmann, and R. Treumann), in Space Science Reviews, 88, 1-2, 285, 1999. [SSR88285](#)
125. Walker, R.J., D.J. Williams, S.P. Christon, B. Hultqvist, G. Paschmann, and R.A. Treumann, Magnetospheric Plasma Sources and Losses: Future Directions, (edited by B. Hultqvist, M. Øieroset, G. Paschmann, and R. Treumann), in Space Science Reviews, 88, 1-2, 373, 1999. [SSR88373](#)
126. Walker, R.J., L. Zelenyi, Appendix A, Simulation Models, (edited by B. Hultqvist, M. Øieroset, G. Paschmann, and R. Treumann), in Space Science Reviews, 88, 1-2, 383, 1999. [SSR88383](#)
127. Waite, J.H., Jr., D. Grodent, B.M. Mauk, T. Majeed, G.R., Gladstone, S.J. Bolton, J.T. Clarke, J.-C. Gerard, W.S. Lewis, L.M. Trafton, R.J. Walker, A.P. Ingersoll, and J.E.P. Connerney, Multispectral observations of Jupiter's aurora, Adv. Space Res., 26, 10, 1453, 2000. [ASR261453](#)
128. Ashour-Abdalla, M., M. El Alaoui, V. Perroomian, and R.J. Walker, Localized reconnection and substorm onset on December 22, 1996, Geophys. Res. Lett., 26, 23, 3545, 1999. [1999GL003630](#)
129. Walker, R.J., T. Ogino, and M.G. Kivelson, Magnetohydrodynamic simulations of the effects of the solar wind on the Jovian magnetosphere, Planet. Space Sci., 49, 237, 2001. [PSS49237](#)
130. Kivelson, M.G., K.K. Khurana, C.T. Russell, M. Volwerk, R.J. Walker, and C. Zimmer, Galileo magnetometer measurements: A stronger case for a subsurface ocean at Europa, Science, 289, 1340, 2000. [Sci2891340](#)
131. Waite, J.H., Jr., G.R. Gladstone, W.S. Lewis, R. Goldstein, D.J. McComas, P. Riley, R.J. Walker, P. Robertson, S. Desai, J.T. Clarke, and D.T. Young, An Auroral flare at Jupiter, Nature, 410, 787, 2001. [N410787](#)
132. Walker, R.J., M. Ashour-Abdalla, T. Ogino, V. Perroomian, and R.L. Richard, Modeling magnetospheric sources, Geophys. Monograph., 133, 33, 2003. [Mono13333](#)
133. Kivelson, M.G., K.K. Khurana, and R.J. Walker, Sheared magnetic field structure in Jupiter's dusk magnetosphere: Implication for return currents, J. Geophys. Res. 107(A7), 10.1029/2001JA000251, 2002. [2001JA000251](#)
134. Joy, S.P., M.G. Kivelson, R.J. Walker, K.K. Khurana, C.T. Russell, and T. Ogino, Probabilistic models of the Jovian magnetopause and bow shock locations, J. Geophys. Res., 107(0), 10.1029/2001JA009146, 2002. [2001JA009146](#)
135. Kurth, W.S., D.A. Gurnett, G.B. Hospodarsky, W.M. Farrell, A. Roux, M.K. Dougherty, S.P. Joy, M.G. Kivelson, R.J. Walker, F.J. Crary, C.J. Alexander, The dusk flank of Jupiter's magnetosphere, Nature, 415, 991, 2001. [N415991](#)
136. Richard, R.L., M. El-Alaoui, M. Ashour-Abdalla, and R.J. Walker, Interplanetary Magnetic Field Control of the Entry of Solar Energetic Particles into the magnetosphere, J. Geophys. Res., 107, A8, 10.1029/2001JA000099.2002. [2001JA000099](#)
137. Kivelson, M.G., K.K. Khurana, C.T. Russell, S.P. Joy, M. Volwerk, R.J. Walker, C. Zimmer, and J.A. Linker, Magnetized or Unmagnetized: Ambiguity Persists Following Galileo's Encounter with Io in 1999 and 2000, J. Geophys. Res., 106, 26,121, 2001. [2000JA002510](#)
138. Walker, R.J., and T. Ogino, A simulation study of currents in the Jovian magnetosphere, Planet Space Sci., 51,295, 2003. (UCLA IGPP Pub. No. 5757) [PSS51295](#)

139. Ashour-Abdalla, M., M. El-Alaoui, E.V. Coroniti, R.J. Walker, and V. Perroomian, A new convection state at substorm onset: Results from MHD study, Geophys. Res. Lett., 29, 20, 26, 2002. [2002GL015787](#)
140. Fukazawa, K., T. Ogino, and R.J. Walker, Dynamics of the Jovian Magnetosphere for Northward Interplanetary Magnetic Field (IMF), Geophys. Res. Lett., 32, L03202, doi:10.1029/2004GL021392, 2005. [2004GL021392](#)
141. Ashour-Abdalla, M., J.M. Bosqued, M. El-Alaoui, V. Perroomian, L.M. Zelenyi, R.J. Walker, and J. Wright, A stochastic sea: The source of plasma sheet boundary layer ion structures observed by Cluster, J. Geophys. Res., 110, A12221, doi:10.1029/2005JA011183, 2005. [2005JA011183](#)
142. Walker, R.J., S.P. Joy, K.K. Khurana, T. Ogino, and K. Fukazawa, The Locations and Shapes of Jupiter's Bow Shock and Magnetopause, The Physics of Collisionless Shocks: 4th Annual IGPP International Astrophysics Conference, 781, pp. 95, 2005. [AIPCP781952005](#)
143. Park, K.S., T. Ogino, and R.J. Walker, On the Importance of Antiparallel Reconnection When the Dipole Tilt and IMF B_y are Non-Zero, J. Geophys. Res., 111, A05202, doi: 10.1029/2004JA010972, 2006. [2004JA010972](#)

Papers in Press

1. Walker, R.J., M. Ashour-Abdalla, and M. El-Alaoui, Magnetospheric Convection during Prolonged Intervals with Southward IMF, (in press) J. Geophys. Res., 2006. (UCLA IGPP Pub. No. 6263)
2. Fukazawa, K., T. Ogino,, and R.J. Walker, The Configuration and Dynamics of the Jovian Magnetosphere, (in press) J. Geophys. Res., 2006.

Papers Submitted to Journals

1. Joy, S.P., M.G. Kivelson, R.J. Walker, K.K. Khurana, C.T. Russell, and W.R. Paterson, Mirror Mode Structures in the Jovian Magnetosheath, submitted to J. Geophys. Res., 2006.