

JAMES LAUER GREEN
NASA Headquarters
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Washington DC, 20546

EDUCATION:

University of Iowa, Iowa City, Iowa: 1969-1979

B.A. (Astronomy), May 1973

M.S. (Physics), Thesis: *The Angular Distribution of AKR*, May 1976

Ph.D. (Physics), Thesis: *On the Generation of Auroral Kilometric Radiation*, July 1979

PROFESSIONAL EMPLOYMENT EXPERIENCE:

August 2006 - Present

Director, Planetary Science Division
NASA Headquarters, Washington D.C.

January 2005 – August 2006

Chief, Science Proposal Support Office, Code 605
NASA Goddard Space Flight Center, Greenbelt, Maryland

May 1992 – January 2005

Chief, Space Science Data Operations Office, Code 630
NASA Goddard Space Flight Center, Greenbelt, Maryland

July 1992 - Present

Instructor and member (since August 1995) of the College of Teachers
International Space University, Summer Session (3-6 weeks/summer)

July 1985 - May 1992

Head, National Space Science Data Center and Associate Chief of the Space Data
and Computing Division, Code 930.2
NASA Goddard Space Flight Center, Greenbelt, Maryland

November 1986 - November 1990

Consulting Professor
Electrical Engineering Department
Stanford University, Stanford, California

February 1980 - July 1985

Aerospace Scientist
NASA/Marshall Space Flight Center, Huntsville, Alabama

August 1979 - January 1980

Post Doctorate Research Investigator and Teaching Assistant
University of Iowa, Iowa City, Iowa

June 1975 - July 1979

Research Assistant
University of Iowa, Iowa City, Iowa

American Geophysical Union (AGU) member since 1975

International Union of Radio Science (URSI) Member Commission H since 1982

USNC/URSI Commission H Executive Committee member (Appointed from January 1, 1982, to December 31, 1984.)

National Academy of Sciences (NAS) Panel for the International Magnetospheric Study (Appointed from June 1981 to June 1984.)

Space Platform End-to-End Data System (SPEEDS) Committee member. Co-authored "Space Platform Data System Speeds Working Group Report," July 1982. (Appointed from January 1982 to January 1983.)

Data Systems Users Working Group (DSUWG) chairman. (Appointed from September 1980 to July 1983.)

DSUWG executive secretary. (Appointed from July 1983 to July 1986.)

Spacelab End-to-End Data System (SEEDS) co-chairman. Co-authored "Spacelab End-to-End Data System Final Report," September 1984. (Appointed by Mike Sander, Code EM, NASA Headquarters, from January 1984 to September 1984.)

Project Manager for the Space Physics Analysis Network (SPAN) project (October 1980 to March 1984).

Project scientist for the Space Physics Analysis Network (SPAN) project (March 1984 to September 1990).

U.S.A delegate for Commission H USNC/URSI General Assembly, Florence, Italy. (Selected by peer review August 28 - September 5, 1984.)

Technical committee member under the Source Evaluation Board for the Program Support Communication Network (PSCN). (Appointed by S. Bates, Code T, NASA HQ, April to November, 1984.)

Pre-board member for the Marshall Space Flight Center (MSFC) Payload Operations Control Center (POCC) design review (November 1984 to January 1985).

Technical committee chairman and Source Evaluation Board (SEB) member, Support Services for the National Space Flight Center (NSSDC) (July 1985 to February 1986).

Performance Evaluation Board (PEB) chairman, NSSDC Support Services Contract (May 1986 to May 1990).

SEB chairman, Data Archiving and Distribution Service Contract for the Space Telescope (August 1986 to December 1987).

PEB member, Data Archiving and Distribution Service Contract for the Space Telescope (August 1988 to March 1993).

NSF panel member of the Geospace Environment Modeling (GEM) Steering Committee serving from August 1987 to May 1988 (Appointed by Stan Shawhan of NASA Headquarters as requested by Dennis Peacock of NSF.) Co-authored the report "Geospace Environment Modeling: A program of Solar-Terrestrial Research in Global Geoscience."

Appointed member of the NSF UNIDATA Policy Committee as recommended by Richard Greenfield of NSF (September 1986 to December 1988).

NAS panel member on problems with Managing Very Large Data Bases. Co-authored the report "Very Large Data Bases: Major Issues", June 1988. (Appointed member by Tony Villasenor, NASA Headquarters, November 1986 to November 1988.)

Appointed member of the Astrophysics Data System Steering Group for the NASA Headquarters Astrophysics Division by Noel Hinners, GSFC Director (May 1987 to May 1988). This resulted in the report "Astrophysics Data System Study", March 1988.

NASA delegate to the Inter-Agency Consultative Group for Space Science (IACG) and member of the Data Exchange Working Group. Appointed by Dr. Len Fisk NASA Headquarters (October 1987 to November 1988).

Appointed deputy chairman of the Working Group on Data Exchange of the IACG by Dr. Len Fisk (November 1988 to November 1990).

Appointed member of the Management Operations Working Group (MOWG) for the Science Operations Branch of the NASA Astrophysics Division by Guenter R. Riegler, acting chief (June 1988 to June 1990).

Member of the External Advisory Committee for the Space Science and Technology Division of Los Alamos National Laboratory (LANL). Chosen by LANL and approved by Milt Halem, February 1990 to February 1994.

Appointed member of the AGU Information Technology Committee requested by Ralph Cicerone approved by Dr. M. Halem (July 1, 1990 to June 30, 1992 and re-appointed member for a second term July 1, 1992 to June 30, 1994).

Technical Evaluation Panel chairman, NSSDC Support Services Contract Competition, (July 1, 1990 to November 1, 1990).

Appointed chairman of the IACG Working Group-2 on Data Exchange by Dr. Len Fisk NASA Headquarters (November 1991 to November 1996).

Appointed member of the advisory panel for the Scientific Computing Division of the National Center for Atmospheric Research (NCAR), requested by Bill Buzbee (October 1992 to April 1995). Appointment extended for a second three-year term (September 1995 to April 1998).

Appointed Deputy Project Scientist for Mission Operations and Data Analysis for the Global Geospace Science Missions (WIND and POLAR) by Dr. S. Holt, Director, Space Sciences (November 1992 to September 2000).

Appointed member of Vice President Gore's Environmental Task Force (ETF) Data Panel by NASA Headquarters, for a one-year term (September 1993 to September 1994), recommended by NASA Headquarters.

Member of the Panel of Experts and Advisors for the Upper Atmospheric Research Collaboratory Project at University of Michigan (December 1993 to December 1994).

Member of the College of Teachers for the International Space University (ISU) (November 1996 to present).

Member of NOAA/Space Environment Center (SEC) triennial review, requested by Dr. E. Hildner, Director SEC, April 23-24, 1996.

ISTP Re-engineering team member (September 1996 to January 1998).

Member of the NASA Science Information Study Team appointed by Dr. S. Holt, Director of Space Sciences (August 1997 to August 1998).

Appointed member of the IACG Working Group-2 on Solar-Terrestrial Correlative Science by Dr. Wes Huntress NASA Headquarters (December 1997 to 2000).

SEB chairman, SSDOO/NSSDC Support Services Contract Competition, (January 15, 1998 to December 1, 1998).

Space Physical Sciences Department Co-Chair, International Space University (ISU) 1998 Summer Session, Cleveland, Ohio, (June through July, 1998).

Appointed Deputy Project Scientist for the Imager for Magnetopause-to-Aurora Global Exploration (IMAGE) by A. Diaz, Director GSFC, (March 2000 to present).

Appointed member on the newly created Information and Communication Security (ICS) Panel of the North Atlantic Treaty Organization (NATO) from a nomination by the US national Science Committee representative (July 2004 through December 2007). "The success of cooperative activities under the NATO Security Through Science program depends in large measure on its Advisory Panels..."

Member of the Asia Oceania Geosciences Society, 2005-2007.

Elected Vice-Chair of the ICS NATO panel for calendar year 2006 by panel members and confirmed by NATO.

Advisor to the Director of Space Science Laboratory, MSFC, on Space Data Processing. (Appointed by Alex Dessler, June 1, 1984 to July 1985.)

NRC research associate advisor for Dr. Lee Reinleitner, University of Iowa, Iowa City (June 1984 to June 1985).

NRC associate advisor for Dr. Michael Van Steenberg, University of Colorado, Boulder (October 1987 to October 1989).

NASA graduate research advisor for Denis Donohue, Stanford (April 1987 to December 1990). Denis received his PhD. in March 1991.

NRC associate advisor for Dr. Constanze la Dous (October 1989 to October 1990).

Sponsor for the Senior NRC research associateship awarded to Dr. Owen Storey (November 1989 to February 1992).

Sponsor for the Senior NRC research associateship awarded to Dr. Yoshi Omura (July 1991 to July 1992).

NASA graduate research advisor for Leonard Garcia, University of Florida, Gainesville (April 1993 to April 1995).

NRC associate advisor for Dr. Sheng-Hisen Chen, UCLA (September 1994 to October 1996).

NASA graduate research advisor for Daniel Moorer, University of Colorado, Boulder (April 1997 to April 1999).

NRC associate advisor for Dr. Anton Koekemoer (June 1999 to December 1999).
Replacing Dr. Richard White.

Mentor to Kamran Bahrami, Master's of Space Studies student of the International Space University. The internship period was from February 22 to May 12, 2000.

Mentor to Lene Marthinsen, Master's of Space Studies student of the International Space University. The internship period was from February 26 to May 11, 2001.

NASA graduate research advisor for David Berube, UCLA (July 2001 to July 2003).

NASA graduate research advisor for Erin Selser, Stanford (July 2005 to July 2007).

NASA/MSFC Certificate of Appreciation for "Developing plasma wave research activities at MSFC." May 27, 1981.

NASA/MSFC Certificate of Appreciation for "Exemplary performance and significant contributions in the establishment and demonstration of the MSFC/SCAN network." April 5, 1983.

NASA Group Achievement Award for "... developing the ground data processing systems and scientific analysis leading to the success of the Dynamics Explorer program." October 16, 1984.

GSFC Certificate of Appreciation for "contributions leading to the success of the International Cometary Explorer spacecraft encounter with comet Giacobini-Zinner." September 1985.

GSFC Exceptional Achievement Award for "sustained achievements that have contributed significantly to Goddard's mission." March 1988.

The 1988 Arthur S. Flemming Award for outstanding individual performance in the Federal Government. Award received at a special ceremony on April 27, 1989.

NASA Group Achievement Award as part of the San Marco D/L Project team for which Dr. Green "... greatly contributed to enhance the international cooperative studies in the exploration of Earth Atmospheric Science." May 13, 1989.

NASA Group Achievement Award to the SPAN management team for "... dedicated service and "can-do" spirit in the development and management of an international scientific network for conducting NASA-sponsored scientific research." September 6, 1989.

NASA/GSFC Special Act Award, as a team member in the development of the GSFC proposal to OSSA for the full project management of the Space Infrared Telescope Facility. "This outstanding proposal was prepared by a group of inter-directorate employees working as a single unit for the greater good of the Center." September 1989.

NASA/GSFC Productivity Improvement and Quality Enhancement Award for the NSSDC Data Archive and Distribution Service (NDADS) Team "in recognition of your significant improvements to the scientific productivity of the NASA research community." May 3, 1994.

The 1996 Kotani Prize, sponsored by the International Council of Scientific Unions (ICSU) and given in memory of Masao Kotani a past president of the Committee on Data for Science and Technology (CODATA) for "outstanding contributions in science data management and access." Award received at the 15th International CODATA Conference held at Tsukuba, Japan, October 1, 1996.

NASA Group Achievement Award as part of the ISTP/GGS Coordinated Data Analysis Team for which Dr. Green "... provided new capabilities enabling the science

community to fully utilized ISTP data to achieve critical science program objectives" June 20, 1997.

NASA Acquisition Improvement Award "in recognition of outstanding achievement in source selection activities and furtherance of Acquisition Streamlining Initiatives." September 17, 1999.

Minority University Space Inter-disciplinary Network (MU-SPIN) Recognition of Excellence Award "in appreciation of your significant contribution to the MU-SPIN Project." Dr. Green was involved in the early development of the MU-SPIN program from 1989-1992. September 22, 1999.

The Communicator, Crystal Award, for the "Blackout!" Video in two categories (Special Effects/Education & Animation). J. Green, Executive Producer. January 2000.

The 21st Telly Finalist Award, for the "Blackout!" Video in the category of Education & Animation. J. Green, Executive Producer. February 2000.

NASA/GSFC Outstanding Teamwork Award as co-chair of the Information Technology Security Assessment Team (ITSAT) "in recognition of your dedication to ensure that GSFC develops and maintains a secure information technology environment. February 9, 2000.

NASA/GSFC National Resource Award as co-organizer of the Solar Eruptive Events CDAW "in recognition of your tireless dedication in the development and innovative implementation of the Solar Eruptive Events Coordinated Data Analysis Workshop," held at GSFC on April 27-30, 1999. February 28, 2000.

NASA/GSFC Outstanding Management Award, to "recognize supervisors who in addition to technical excellence ... create a work environment that motivates employees to accomplish the Center's mission." March 27, 2000.

NASA Group Achievement Award, for Imager for Magnetopause-to-Aurora Global Exploration (IMAGE) Mission Team, "in recognition of your definition, development, launch, and successful transition to science operations of the IMAGE spacecraft and instruments." August 8, 2001.

NASA/GSFC National Resource Award for NASA's Incident Response Center (NASIRC). "In recognition of the outstanding manner in which the NASIRC team responds to NASA's Information Technology (IT) security incidents and threats." March 8, 2002.

NASA, Best Mission Data System for 2002, awarded to the IMAGE data system team, by NASA Headquarters Code S, September 9, 2002.

NASA Group Achievement Award, Excellence in Outreach as part of the Radio JOVE Team. "In recognition of your outstanding contribution providing hundreds of students across the country with a hands-on activity experiment demonstrating the scientific method." May 16, 2003.

NASA Group Achievement Award given to the Performance and Measurement and Reporting Team. "For significantly improving NASA's performance measurement and reporting by increasing its relevance to how the Agency is managed, and creating and communicating better indicators for the American public of the value that NASA provides." May 2003.

NASA/GSFC Safety Award of Distinction. "In recognition of your outstanding contribution in the preparedness efforts to secure, protect, and mitigate safety risks to personnel, facilities, equipment, and operations during Hurricane Isabelle." April 28, 2004.

NASA/GSFC Special Act Award, as a team member on the New Opportunities Office Tiger Team for outstanding contribution in critically examining GSFC mission and instrument proposal process and making over fifty recommendations for improvement "that will enable Goddard to win more competitively selected flight missions and instruments." September 4, 2005.

NASA/GSFC Center Director's Team Recognition Award, as a member of the Goddard Proposer Support Environment (GPSE) development team, supporting GSFC in their effort to write successful proposals, September 13, 2007.

NASA Group Achievement Award, as a member of the IMAGE Radio Plasma Imager Team, for pioneering advanced space-based radio sounding and scientific advances achieved through its innovative application to geospace science, May 8, 2008.

Solar Physics Division of the American Astronomical Society, 2009 Popular Writing Award, for "Bracing for a Solar Superstorm," published in *Scientific American* (August 2008 issue), award received June 15, 2009.

JAXA Certificate of Appreciation, "In recognition of your significant contributions to the completion of Hayabusa's round trip space mission in 2010. The Hayabusa Project expresses its sincere thanks and appreciation," February 2011.

Solar Physics Division of the American Astronomical Society, 2012 Popular Writing Award, for "The Perfect Solar Superstorm," published in *Sky and Telescope* (February 2011 issue), award received June 12, 2012.

NASA Group Achievement Award, as a member of the NASA transit of Venus Outreach Team, for the outstanding education and outreach efforts to engage the world in the excitement and science of the Transit of Venus, April 9, 2013.

NASA Group Achievement Award, as a member of the MSL Launch and Landing – NASA Management & Support, for exceptional management and execution of the global events for the Mars Science Laboratory (MSL) launch and Curiosity rover landing, July 18, 2013.

- January 1981 to January 1984 Co-Investigator, NASA Contract NAS8-34424, on the "Ray Tracing of Jovian Low Frequency Radiation," with Menietti and Six.
- FY 1980 Co-Investigator (UPN 385-36-01) on the "Magnetospheric Plasma Studies, low-energy plasma data interpretation and presentation," with Chappell.
- FY 1980 Co-Investigator (UPN 188-78-36-02) on the "Space Plasma Experiments, data systems studies," with Chappell.
- FY 1981 Principal Investigator (UPN 385-36-01) renewed for one year.
- FY 1981 Principal Investigator (UPN 188-78-36-02) renewed for one year.
- FY 1982 Principal Investigator (UPN 386-36-01) renewed for one year.
- FY 1982 & 1983 Principal Investigator (UPN 656-42-01) on the "Mass storage Research and Development."
- FY 1982 & 1984 Principal Investigator (UPN 389-36-01) on the "Space-plasma Computer Analysis Network."
- March 1984 Principal Investigator (UPN 656-42-01) on the "Space Physics Analysis Network (SPAN) pilot project."
- June 1984 to June 1987 Co-Investigator, "Modeling and Investigative Studies Jovian Low-Frequency Emissions," with Menietti, Six, and Gulkis.
- October 1988 to Sept. 1989 Co-Investigator, "Striated Spectral Activity in Terrestrial and Other Planetary Magnetospheres," with Thieman, Fung, and Candey.
- October 1989 to July 1990 Principal Investigator on U.S. Science Team for the ACTIVE spacecraft. The U.S. team is recognized as Co-Investigators for ACTIVE by the Soviet Intercosmos Council.
- Nov. 1990 to Nov. 1992 Co-Investigator, "A Comparison of DE Observations of AKR Fine Structure to Radio Emissions from Outer Planetary Magnetospheres," with Thieman, Aist-Sagara, Fung, and Candey.

- January 1991 to January 1993 Principal Investigator on the "Remote sensing of the Magnetosphere by an Active Sounder," with S. Fung, L. Aist-Sagara, and R. Candey.
- January 1994 to October 1994 Co-Investigator on the "Simulation of Remote Sensing of the the Plasmasphere," with Wynne Calvert, Shing Fung, and Don Carpenter.
- January 1994 to October 1994 Co-Investigator on the "Conceptual Instrument Design for a Remote Magnetospheric Sounder," with Bodo Reinisch, Shing Fung, and Robert Benson.
- February 1994 to February 1997 Principal Investigator on the "Interactive Space Physics Ionospheric Research Experiment (INSPIRE) Special Education Opportunity for K-12 grades," with W. W. L. Taylor.
- February 1995 to February 1998 Co-Investigator on the "Radio Plasma Imaging/Sounding in the Magnetosphere, with W. W. L. Taylor (PI), S. F. Fung and R. Benson.
- May 1996 to Present Co-Investigator on the "Imager for Magnetopause-to-Aurora Global Exploration." Launched on March 25, 2000. Awarded a mission extension on April 2001 and again on April 2003 through FY2007.
- February 1997 to February 2001 Co-Investigator on the "Interactive Space Physics Ionospheric Research Experiment (INSPIRE) Special Education Opportunity for K-12 grades," with W. W. L. Taylor (PI).
- April 1997 to April 1998 Co-Investigator for the "Restoration of Hawkeye data into standard formats," with M. Kessel (PI), and S. Boardsen.
- October 1999 to Sept. 2002 Principal Investigator on the "Rapid Detection of Magnetospheric Boundaries using Neural Network Analysis Techniques Applied to the IMAGE Mission," with W. W. L. Taylor, S. Boardsen, and M. Reilee.
- April 2002 to April 2005 Co-Investigator on the " Magnetospheric Tomography with Steve Cummer, at Duke University (NRA-SEC 2001).
- January 2004 to January 2007 Co-Investigator on the "Multi-Spacecraft Study of Escaping Continuum with Scott Boardsen, NASA/GSFC (NRA-GI 2003).
- April 2004 to April 2005 Co-Investigator on the "Development of a High-Power, High-Data-Rate, High-Duty-Cycles Radio Sounder for Planetary Missions" with Bodo Reinisch, at University of Massachusetts Lowell (NRA-HCIPE2003).

April 2004
to
April 2007

Co-Investigator on the “The Solar System Radio Explorer Kiosk (SSREK)” Education Opportunity for disadvantaged students. with Bodo Reinisch, at University of Massachusetts Lowell.

1. Green, J. L., D. A. Gurnett, and S. D. Shawhan, The Angular Distribution of Auroral Kilometric Radiation, *J. Geophys. Res.*, 82, 1825-1838, 1977.
2. Gurnett, D. A., and J. L. Green, On the Polarization and Origin of Auroral Kilometric Radiation, *J. Geophys. Res.*, 83, 689-896, 1978.
3. Saflekos, N. A., T. A. Potemra, P. M. Kintner, Jr, and J. L. Green, Field-Aligned Currents, Convection Electric Fields, and ULF-ELF Waves in the Cusp, *J. Geophys. Res.*, 84, 1391-1401, 1979.
4. Green, J. L., D. A. Gurnett, and R. A. Hoffman, A Correlation Between Auroral Kilometric Radiation and Inverted-V Electron Precipitation, *J. Geophys. Res.*, 84, 5216-5222, 1979.
5. Green, J. L., and D. A. Gurnett, Ray Tracing of Jovian Kilometric Radiation, *Geophys. Res. Lett.*, 7, 65-68, 1980.
6. Green, J. L., "Observations Pertaining to the Generation of Auroral Kilometric Radiation," The Formation of Auroral Arcs, American Geophysical Union Monograph 25, 359-368, 1981.
7. Green, J. L., N. A. Saflekos, D. A. Gurnett, and T. A. Potemra, A Correlation Between Auroral Kilometric Radiation and Field-Aligned Currents, *J. Geophys. Res.*, 87, 10463-10467, 1982.
8. Chappell, C. R., J. L. Green, J. F. E. Johnson, and J. H. Waite, Jr., Pitch Angle Variations in Magnetospheric Thermal Plasma - Initial Observations from Dynamics Explorer-1, *Geophys. Res. Lett.*, 9, 933-936, 1982.
9. Chappell, C. R., C. Olsen, J. L. Green, and J. F. E. Johnson, and J. H. Waite, Jr., The Discovery of Nitrogen in the Earth's Magnetosphere, *Geophys. Res. Lett.*, 9, 937-940, 1982.
10. Horwitz, J. H., C. R. Chappell, D. L. Reasoner, P. C. Craven, J. L. Green, and C. R. Baugher, Observations of Low-Energy Plasma Composition from the ISEE-1 and SCATHA Satellites, Energetic Ion Composition in the Earth's Magnetosphere, edited by R. G. Johnson, Terra Scientific Publishing Company, Tokyo, 263-286, 1983.
11. Olsen, R. C., D. L. Gallagher, C. R. Chappell, J. L. Green, and S. D. Shawhan, A potential control method for thermal plasma measurements on the DE-1 spacecraft, Proceedings 17th ESLAB Symposium on Spacecraft/Plasma Interactions and their influence on Field and Particle Measurements, ESA SP-198, 177-183, December 1983.
12. Menietti, J. D., J. L. Green, N. F. Six, and S. Gulkis, Three Dimensional Ray tracing of the Jovian magnetosphere in the low frequency range, *J. Geophys. Res.*, 89, 1489-1767, 1984.

13. Green, J. L., The Io decametric emission cone, *Radio Science*, 19, 556-570, 1984.
14. Nagai, T., J. H. Waite, J. L. Green, C. R. Chappell, R. C. Olsen, and H. Comfort, First measurements of supersonic polar wind in the polar magnetosphere, *Geophys. Res. Lett.*, 11, 669-672, 1984.
15. Green, J. L., Magnetospheric plasma instabilities, Review of Radio Science 1981-1983 (sections 9.1 and 9.2), edited by S. A. Bowhill, International Union of Radio Science, pp. G:H-15,-16, 1984.
16. Menietti, J. D., J. L. Green, S. Gulkis, and N. F. Six, Jovian decametric arcs: An estimate of the required wave normal angles from three-dimensional ray tracing, *J. Geophys. Res.*, 89, 9089-9094, 1984.
17. Moore, R., J. Horwitz, and J.L. Green, Implications of solar flare dynamics for reconnection in the magnetospheric substorms, *Planetary and Space Science*, 32, 1439, 1984.
18. Green, J. L., M. O. Chandler, and C. R. Chappell, Comparative magnetospheric-ionospheric studies using Dynamics Explorer spacecraft and ground-based radars, Results of the ARCAD 3 Project and other recent programmes in magnetospheric physics, Centre National D'Etudes Spatiales, copyright 1985.
19. Green, J. L., and J. H. Waite, Jr., On the origin of polar ion streams, *Geophys. Res. Lett.*, 12, 149-152, 1985.
20. Green, J. L., and D. L. Gallagher, The detailed intensity distribution of the AKR emission cone, *J. Geophys. Res.*, 90, 9641-9649, 1985.
21. Olsen, R. C., C. R. Chappell, D. L. Gallagher, J. L. Green, and D. A. Gurnett, The hidden ion population - revisited, *J. Geophys. Res.*, 90, 12121-12132, 1985.
22. Green, J. L., and J. L. Horwitz, Destiny of earthward streaming ions in the plasmashet boundary layer, *Geophys. Res. Lett.*, 13, 76-79, 1986.
23. Green, J. L., J. H. Waite, C. R. Chappell, M. O. Chandler, J. R. Doupnik, P. Richards, R. Heelis, S. D. Shawhan, and L. H. Brace, Observations of ionospheric-magnetospheric coupling: DE and Chatanika coincidences, *J. Geophys. Res.*, 91, 5803, 1986.
24. Décréau, P. M. E., D. Carpenter, C. R. Chappell, R. H. Comfort, J. L. Green, R. C. Olsen, and J. H. Waite, Jr., Latitudinal plasma distribution in the dusk bulge: refilling phase and quasi-equilibrium state, *J. Geophys. Res.*, 91, 6929-6943, 1986.
25. Menietti, J. D., J. L. Green, N. F. Six, and S. Gulkis, Ray tracing of Jovian decametric radiation from the southern and northern hemisphere sources: Comparison with Voyager Observations, *J. Geophys. Res.*, 92, 27-38, 1987.

26. Olsen, R. C., S. D. Shawhan, D. L. Gallagher, J. L. Green, C. R. Chappell, and R. R. Anderson, Plasma observations at the earth's magnetic equator, *J. Geophys. Res.*, 92, 2385-2407, 1987.
27. Roberts, W. T., J. L. Horwitz, R. H. Comfort, C. R. Chappell, J. H. Waite Jr., and J. L. Green, Heavy ion density enhancements in the earth's outer plasmopause, *J. Geophys. Res.*, 92, 13499-13512, 1987.
28. Persoon, A. M., D. A. Gurnett, W. K. Peterson, J. H. Waite, Jr., J. L. Burch, and J. L. Green, Electron density depletions in the nightside auroral zone, *J. Geophys. Res.*, 93, 1871-1895, 1988.
29. Green, J. L., "Ray tracing of planetary radio emissions," Planetary Radio Emissions II, Proceedings of the 2nd International Workshop held at Graz, Austrian Academy of Science, Vienna Austria, 355-379, 1988.
30. Boardson, S. A., D. L. Gallagher, D. A. Gurnett, W. K. Peterson, and J. L. Green, Funnel-shaped, low frequency equatorial waves, *J. Geophys. Res.*, 97, 14967-14976, 1992.
31. Green, J. L., J. R. Thieman, C. Higgins, S. Fung, R. Candey, and L. Aist-Sagara, "Lane features in Jovian hectometric radio emissions," Planetary Radio Emissions III, Proceedings of the 3rd International Workshop, Graz, Austria, 91-103, 1992.
32. Omura, Y., and J. L. Green, Plasma wave signatures of the magnetotail reconnection region: MHD simulation and ray tracing, *J. Geophys. Res.*, 98, 9189-9199, 1993.
33. Alpert, Ya. L., and J. L. Green, The cone structure and focusing of the electric field of VLF and LF waves at high altitudes of the ionosphere, Proceedings of the Conference on ELF/VLF/LF Radio Propagation and Systems Aspects, AGARD, CP-529, p. 3-1 to 3-11, May 1993.
34. Zhang, X., R. H. Comfort, Z. E. Musielak, T. E. Moore, D. L. Gallagher, and J. L. Green, Propagation Characteristics of Pc3 compressional waves generated at the dayside magnetopause, *J. Geophys. Res.*, 98, 15403-15410, 1993.
35. Alpert, Ya. L., and J. L. Green, The cone structure and focusing of the electric field of VLF and LF waves at high altitudes of the ionosphere, *J. Geophys. Res.*, 99, 389-399, 1994.
36. Green, J. L., and S. F. Fung, Radio sounding of the magnetosphere from a lunar-based VLF array, *Adv. in Space Res.*, 14(6), 217-221, 1994.
37. Sonwalkar, V. S., U. S. Inan, T. F. Bell, R. A. Helliwell, O. A. Molchanov, and J. L. Green, DE-1 VLF Observations during Activny wave injection experiments, *J. Geophys. Res.*, 99, 6173-6186, 1994.
38. Reiff, P. H., 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, Remote

- sensing of substorm dynamics via radio sounding, Substorms 2, Proceedings of the Second International Conference on Substorms, Ed. J. R. Kan, J. D. Craven, and S.-I. Akasofu, University of Alaska Press, Fairbanks, Alaska, 281-287, 1994.
39. Mish, W. H., M. Peredo, J. L. Green, and M. G. Repp, ISTP Science Data Systems and Products, *Space Science Reviews*, 71, 815-878, 1995.
 40. Zhang, X., R. H. Comfort, D. L. Gallagher, J. L. Green, Z. E. Musielak, and T. E. Moore, Magnetospheric filter effect for Pc 3 Alfvén mode waves, *J. Geophys. Res.*, 100, 9585-9590, 1995.
 41. Higgins, C., J. L. Green, J. R. Thieman, S. F. Fung, and R. Candey, Structure within Jovian hectometric radiation, *J. Geophys. Res.*, 100, 19487-19496, 1995.
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2. NCAR computer users conference, Boulder, Colorado, Network Security, (invited) September 20, 1983.
3. MSFC/UAH conference on Fundamental Magnetospheric Processes in the Plasmapause Region, two oral presentations (one invited), wrap-up discussion chairman, October 25-27, 1983.
4. ARCAD 3 Conference, Toulouse, France, Results from Dynamics Explorer, (invited), May 24, 1984.
5. National Symposium on Optical Platforms, Huntsville, Alabama, Space Physics Analysis Network, (invited) June 14, 1984.
6. Chapman Conference on Magnetotail Physics, JHU/APL, Laurel, Maryland, (science poster paper and invited dinner speaker), October 30, 1985.
7. Third International School for Space Simulation, Beaulieu, France, Magnetospheric Ray-Tracing, (invited), June 23, 1987.
8. Second International Workshop on Radio Emissions from Planetary Magnetospheres, Graz, Austria, Magnetospheric Ray-Tracing a Tutorial, (invited), September 7, 1987.
9. Networking and Supercomputers, Fourth Annual Workshop, Boulder, Colorado, SPAN and Network Security, (invited), June 8, 1988.
10. Workshop on Geophysical Informatics (four invited papers), Moscow, U.S.S.R., 15 to 17 August 1988.
11. IAU meeting on Astrophysics Library Science, GSFC, Greenbelt, Maryland, (invited), August 1, 1988.
12. Science Seminar series, University of Alabama in Huntsville, Huntsville, Alabama, (invited) September 20, 1988.
13. Conference on Computer Penetrations and Viruses, Washington, D.C., (invited), December 14, 1988.
14. NASA Scientific and Technical Information Conference, Arlington, Virginia, (invited) May 24, 1989.
15. Space Conference of the Americas, San Jose, Costa Rica, The Space Physics Analysis Network, (invited) March 13, 1990.
16. Super-performance Computing in the Federal Government and Industry Conference, Washington D.C., (invited talk with Dr. M. Halem), May 8, 1990.

17. AIAA Space Programs and Technologies Conference '90, Huntsville, Alabama, (invited) September 25, 1990.
18. IAGA Symposium, session on Informatics in Geomagnetism and Solar-Terrestrial Physics Vienna, Austria, (invited), August 19, 1991.
19. Terabyte Database Conference, (invited), McLean, Virginia, 16 September 1992.
20. Workshop on Scientific Data Management, University of Maryland, College Park, (invited), September 25, 1992.
21. Huntsville Conference: Workshop on Sources, Distribution, Transport, Energization and Loss of Magnetospheric Plasmas, (invited), Guntersville, Alabama, October 8, 1992.
22. Spring AGU, Baltimore, Maryland, Special Session on Solar and Magnetospheric Imaging, Radio Sounding, (invited), May 25, 1994.
23. Fall AGU, San Francisco, Summary of Results from the 1ST IACG Campaign, (invited), December 1997.
24. Space Weather Workshop, Boulder CO, Using IMAGE Data for Space Weather, (invited), February 5-6, 1998.
25. Chapman Conference on Space Based Radio Observations at Long Wavelengths, Paris France, Radio Imaging in the Earth's Magnetosphere, (invited), October 19-23 1998.
26. Global-Scale Imaging: New Approaches in Magnetospheric Research, Presented at The Catholic University of America, Physics Department Colloquium, Washington, D.C., (invited), December 1, 1999.
27. International Conference on Solar Eruptive Events, Catholic University of America, Washington DC., Geomagnetic Storms from Solar Eruptive Events, (invited), March 6-9, 2000.
28. STEP Results, Applications and Modeling Phase (SRAMP) conference, Sapporo, Japan, The IMAGE Mission - Global Views of a Geomagnetic Storm, (invited), October 2-6, 2000.
29. Fall AGU, San Francisco, Special Session on the IMAGE mission, Overview of the Observations from the Radio Plasma Imager on IMAGE, (invited) December 17, 2000.
30. Yosemite Conference on Magnetospheric Imaging, Yosemite, California, "An Overview of Results from RPI," (invited), February 7, 2002.

31. Science Data Processing Workshop 2002, Greenbelt, Maryland, "Science Data Processing on the IMAGE Mission," (invited) February 27, 2002.
32. Spring, AGU, Washington DC, Special Session on the Physics of the Plasmasphere and Its Coupling to the Ionosphere and Ring Current, (invited) May 28, 2002.
33. URSI, General Assembly, Masstrich, Netherlands, "A Review of RPI results," (invited), August 21, 2002.
34. Maryland Workforce Conference, "Botball, INSPIRE, and Radio JOVE: NASA Programs for High School Students," (invited), November 22, 2002.
35. Fall, AGU, San Francisco, Special Session on the Future of Space Physics, (invited panelist), December 2002.
36. Chapman Conference on Physics and Modeling the Inner Magnetosphere, "Plasma Wave Maps of the Magnetosphere," (invited), Helsinki, Finland, August 25-29, 2003.
37. Yosemite Conference, Yosemite, California, "Distributions of Plasmaspheric Plasma Waves," (invited), February 6, 2004.
38. Asia-Pacific Radio Science Conference, Qindao, China, "An overview of recent results from RPI on IMAGE," (invited), August 25, 2004.
39. 55th International Astronautical Congress, Vancouver, Canada, "Radio Sounding at high powers," (invited), October 7, 2004.
40. Imaging Workshop, Huntsville, Alabama, "Opportunities and Challenges using Radio Wave Imaging Techniques," (invited), November 9, 2004.
41. 7th International School/Symposium for Space Simulation, "Magnetospheric Radio Sounding." (invited), March 26-31, 2005.
42. Asia Oceania Geosciences, Singapore, "Comparing Past and Current Super storms: How Large was the 1859 Event?," (invited), June 20-24, 2005.
43. NRO Technical Seminar Series, Chantilly, Va., "Why there are Two High-Energy Electron Radiation Belts Around the Earth," (invited) August 22, 2005.
44. Howard University, "Space Weather", (invited lecture as part of their Earth & Space Science course), November 28, 2005.
45. URSI National Radio Science Meeting, University of Colorado at Boulder, "Contribution of Lightning Whistlers to the Plasmaspheric Hiss Spectrum" (invited), January 4-7, 2006.
46. Radio Science Symposium for a Sustainable Humanosphere, Kyoto, Japan, "Lightning-induced Phenomena in the Humanosphere" with U. Inan, (invited)

- lecture), and “Source Region Characteristics of Non-thermal Continuum Radiation.” (invited poster) March 20-21, 2006.
47. 2nd Kanazawa Workshop on Waves in Plasmas and Electromagnetic Applications, “Contribution of Lightning Whistlers to the Plasmaspheric Hiss Spectrum” (invited), March 23-24, 2006.
 48. Chapman Conference: Solar Wind Interaction with Mars: “The 1859 Superstorm: How Large Was It?” (invited), January 22-25, 2008.
 49. Applied Physics Laboratory seminar series “The 1859 Superstorm: How Large Was It?” (invited), September 5, 2008.
 50. University of Maryland Baltimore County, “Planetary Radio Emissions”, (invited lecture as part of their physics course series), November 13, 2008.