

CURRICULUM VITAE

STAMATIOS M. KRIMIGIS

**Member, Academy of Athens,
Chair of Science of Space, Athens, Greece**

**Head Emeritus, Space Department
Applied physics Laboratory
The Johns Hopkins University
Laurel, MD, USA**

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STAMATIOS M. KRIMIGIS

Born: September 10, 1938, Chios, Greece

Education: Bachelor of Physics University of Minnesota 1961
M. S. (Physics) University of Iowa 1963
Ph.D. (Physics) University of Iowa 1965

Positions Held: 2005-Present Member, Academy of Athens,
Chair of Science of Space, Athens, Greece

2004-Present Head Emeritus, Space Department
Applied physics Laboratory
The Johns Hopkins University

1991 - 2004 Head, Space Department
Applied Physics Laboratory
The Johns Hopkins University

1980 - 1990 Chief Scientist, Space Department
Applied Physics Laboratory
The Johns Hopkins University

1974 - 1981 Group Supervisor, Space Physics and
Instrumentation Group
Applied Physics Laboratory
The Johns Hopkins University

1968 - 1974 Supervisor, Space Physics Section
Member, Principal Staff (1972)
Applied Physics Laboratory
The Johns Hopkins University

1966 - 1968 Assistant Professor of Physics
Department of Physics and Astronomy
University of Iowa

1965 - 1966	Research Associate Department of Physics and Astronomy University of Iowa
1961 - 1965	Teaching Assistant Research Assistant and NASA Trainee Department of Physics and Astronomy University of Iowa

Relevant Research Experience

*As **Principal Investigator or Co-Investigator**, designed, built, flown and analyzed data from 21 instruments on NASA/ESA space missions, 1963 to the present, as follows:*

- Principal Investigator, **NASA-ESA Cassini-Huygens** mission to Saturn and Titan, 1990-present
- Principal Investigator, Low Energy Charged Particle (LECP) experiment on the **NASA Voyager 1 and 2** Spacecraft (to Jupiter, Saturn, Uranus and Neptune), 1971-present.
- Principal Investigator, Charged Particle Measurements Experiment (CPME) on **NASA Explorer 47** and **Explorer 50** (IMP-7 and 8) Spacecraft, 1968-1996.
- Principal Investigator, Feasibility Study for a Charge Composition Explorer - Light Ion Release Experiment, **NASA**, 1973.
- Principal Investigator, **NASA** Active Magnetospheric Particle Tracer Explorers (**AMPTE**), 1977-1989.
- Principal Investigator, Imaging Neutral Particle Detector, **NASA** Innovative Research Program, 1985-1989.
- Principal Investigator, Studies of Multiple-Charged Energetic Trapped Nuclei in the radiation Belt, **National Science Foundation**, 1971-1974.
- Principal Investigator, Studies of Solar and Magnetospheric Particles, **National Science Foundation**, 1977-1983.
- Principal Investigator, Studies in Space Physics, **NASA** grants, 1974-1984.
- Co-Principal Investigator, Energetic Particle Detector (EPD) on **NASA Galileo** mission to Jupiter, 1977-2003.
- Co-Investigator, Energetic Particle Experiment (LAN) on the **ESA-NASA Ulysses** solar polar orbiter 1978-present.
- Co-Investigator, Energetic Particle and Ion Composition (EPIC) on **Geotail**, 1985-present.
- Co-Investigator, Ultra Low Energy Isotope Spectrometer (ULEIS) on **ACE**, 1988-present.
- Co-Investigator, Electron, Proton, and Alpha Monitor (EPAM) on **ACE**, 1988-present.
- Co-Investigator, **MESSENGER** mission to orbit the planet Mercury, 1999-present.
- Collaborating Scientist on **New Horizons** mission to flyby the Pluto-Charon system, 2002-present.
- Co-Investigator with J. A. Van Allen on the University of Iowa Particle Experiments on **NASA Mariner 3, 4 (to Mars) and Mariner 5 (to Venus)**.

Co-Investigator, with J. A. Van Allen, Energetic Particle Experiment, **NASA Explorer 33 and Explorer 35** (Anchored IMP), 1965-1970.

Lead Investigator, Solid State Detector experiment on the **NASA University of Iowa Satellite Injun 4**, 1963-1966.

Lead Investigator, Solid State Detector experiment on the **NASA University of Iowa Satellite Injun 5**, 1966-1971.

Co-Investigator with J. A. Van Allen on the University of Iowa Experiment on **NASA OGO-4** satellite, 1966-1970.

Associate Editor, Journal of Geophysical Research (Space Physics), 1975-1977.

Associate Editor, Space Science Reviews, 1996-2002(?)

As **Chief Scientist and Head** of the Johns Hopkins Applied Physics Laboratory Space Department 1980-2004, I participated (without formal scientific involvement) in the concept development/oversight/management of the following missions: **POLAR, Geosat, Polar Bear, MSX, NEAR, FUSE, TIMED, Contour, and STEREO.**

Teaching and post-graduate supervision

Taught formal courses at the undergraduate and graduate level while on the faculty of the University of Iowa. These included (among several), Introduction to Modern Physics, and Solar-Terrestrial Physics (graduate level) for which there was no textbook at the time. In two years, three Masters degrees and a doctoral dissertation were supervised (W. Innanen, M. S., PhD; Lee Burns, M. S.; and Ching-Ming Tsai, M. S.).

Since moving to Johns Hopkins/APL I have worked with post-doctoral students and only supervised Seminars in Space Plasma Physics and Planetary Physics. Some of the names of post-doctoral students over the period 1970-2004 are: Janet Mather, W. Innanen, P. Verzariu, R. Zwickl, E. Sarris, R. Gold, E. Keath, D. Mitchell, G. Chen, P. Briggs, J. Carbary, R. Decker, E. Kirsch, T. Lui, B. Mauk, R. Lopez, D. Sibeck, N. Paschalidis, J. Giacalone, G. Anagnostopoulos, M. Kane, V. Angelopoulos, D. Haggerty, M. Hill, N. Sergis.

Committee Service

Energetic Particles Team Member on the NASA Mariner-Venus-Mercury Flyby Science Advisory Group, 1969-1970.
Deputy Team Leader, Energetic Particles Team, NASA Outer Planets Mission Definition Phase, 1971-1972.
Member, NASA Atmospheric and Space Physics Working Group for the Space Shuttle, 1973.
Member, Out-of-Ecliptic (OOE) Science Working Group, Jet Propulsion Laboratory, 1976-1977.
Member, Committee on Solar and Space Physics, Space Science Board, National Academy of Sciences, 1977-1980.
Member, NASA Interplanetary Physics Working Group, 1976-1977. Member, NASA Science Working Group on the "OPEN" program, 1978-1979.
Member, Panel for the International Magnetospheric Study (IMS) 1979-1983.
Member, NASA experiment selection committees for various satellites and the Space Shuttle.
Member, Committee on Solar-Terrestrial Physics, Geophysics Research Board, National Academy of Sciences, 1979-1982.
Member, American Geophysical Union, Committee on Public Affairs, 1982-84.
Member, American Geophysical Union, Committee on Congressional Affairs, 1982-84.
Member, NASA Ad-Hoc Committee on STARPROBE, 1980-1982. Member of program committees and occasionally Chairman, for several National and International scientific conferences.
Consultant (category of "Expert"), Office of Space Science, NASA Headquarters.
Consultant, Universities Space Research Association (USRA).
Member, Space Science Board, National Academy of Sciences, 1983-1986
Chairman, Committee on Solar and Space Physics, Space Science Board, National Academy of Sciences, 1983-1986
Member, Citizens Advisory Committee, Congressional Caucus on Science and Technology, 1984-
Member, Steering Committee, Space Science in the Twenty First Century, National Academy of Sciences, 1984-1987.
Member, The Johns Hopkins University Applied Physics Laboratory, Advisory Board, 1985-1986.
Member, Electronics Research Panel, Naval Studies Board, National Academy of Sciences, 1987.
Member, Visiting Committee for Evaluation of High Altitude Observatory, Scientific Program, 1987.
Member, NASA Heliospheric Science Working Group, 1987-1989.
Member, NASA Space and Earth Science Advisory Committee, 1987-1988.
Member, NASA Inter-Agency Consultative Group for Space Science (IACG), 1987-1993.
Member, NSF Global Environment Modeling (GEM), Steering Committee, 1987-1989.
Member, NASA Space Science and Applications Advisory Committee, (SSAAC), 1988-1990.
Member, NASA Solar Probe Science Working Group, 1988-1990.
Member, NASA Space Physics Subcommittee (SPS), 1989-1992.

Visiting Committee Chairman, Space Physics Research Laboratory, University of Michigan, 1989, and also 2005.

Member, AGU Planet Earth Committee, 1988-1992.

Member, NASA Discovery Program Science Working Group, 1989-1992.

Member, Solar System Exploration Planning Workshops, 1989.

Co-chair, Mission Integration and Divisional Science panel, Space Physics Strategy Implementation Study, 1989-1991.

Member, NAS/NRC Committee on Cooperation with the USSR on Solar Activity, Solar Wind, Terrestrial Effects, and Solar Acceleration, October 6, 1990-October 5, 1991.

Member, AGU Committee on Congressional Affairs, 1990-1992.

Chair, SPR 1992-93 Federal Budget Review Panel.

Co-Chairman, Committee on Small Satellites, IAA, 1993-2000.

Chairman, Subcommittee on Planetary Missions, IAA, 1993-2001.

Member, Max Planck Society's Fachbeirat for the Max Planck Institute for Extraterrestrial Physics, 1994-2001

Member, Science Committee, International Space Science Institute (ISSI), Bern, Switzerland, 1994-1999.

Member, NASA Solar System Exploration Subcommittee, 1998-2001.

Member, International Academy of Astronautics (IAA) Board of Trustees, 2000-present.

Chairman, Physical Sciences Commission, IAA, 2000-2003.

Member, NASA Headquarters Executive Management Board for the Deep Space Network, 2003-2005.

Co-Chair of IAA Low Cost Planetary Missions Conference, 1994, 1996, 1998, 2000, 2003.

Honorary Chair, IAA Low Cost Planetary Missions Conference, 2005

Chair, External Visiting Committee, Dept. of Electrical and Computer Engineering, Johns Hopkins, 2002; member 2001-2005.

Member, Applied Physics Laboratory Executive Council, 2000-2004.

Chairman, Board of Trustees, Section 1 (Physical Sciences), IAA, 2005-present

President, Section A on Physical Sciences, Academy of Athens, 2007

Chair/Member, External Visiting Committees for several Universities and University Laboratories, 1980-2005

Professional Societies and Awards

Fellow, American Institute of Aeronautics and Astronautics, 2007

Lifetime Achievement Award, Johns Hopkins Applied Physics Laboratory, 2004

Elected Member of the Academy of Athens, **Chair of Science of Space**. 2004

Fellow, American Association for the Advancement of Science, 2004

COSPAR **Space Science Award**, World Space Congress, 2002

Smithsonian Institution **Trophy for Achievement** to the NEAR team (collective award) in 2002.

Aviation Week and Space Technology “**Laurels in Space Award**” in 2001 for resurrecting the mission to Pluto (New Horizons) launched in 2006.

NASA Medal for **Exceptional Scientific Achievement** (1986)

NASA Medal for **Exceptional Scientific Achievement** (1981)

NASA and ESA **Group Achievement Awards** for Voyager, AMPTE, Galileo, Ulysses, ACE, NEAR, Cassini, 1979-2003 (over 30)

Fellow, American Geophysical Union (1980)

Fellow, American Physical Society (1984)

Associate Fellow, American Institute of Aeronautics and Astronautics, (1994)

Space Sciences Award, International Academy of Astronautics (1994)

Member, International Academy of Astronautics (1996)

Corresponding Member, Athens Academy (1995)

Aviation Week and Space Technology “**Laurels in Space Award**” in 1996 and again in 2001 for the Near Earth Asteroid Rendezvous (NEAR) mission.

International Astronomical Union named asteroid 1979UH as **asteroid “8323 Krimigis”**, 1999. Sigma Xi

Referee for various Journals such as *Journal of Geophysical Research* (Space Physics), *Solar Physics*, *Planetary and Space Sciences*, *Geophysical Research Letters*, *Physical Review Letters*, *Reviews of Geophysics and Space Physics*, *Astrophysical Journal Letters*, *Annales Geophysicae*, etc.

Member/Chair of Program Committees for various National and International Meetings and Symposia

Approximately 1100 contributed and invited papers have been presented at various National and International Meetings

Listed in:

Personalities of America, 3rd Edition, American Biographical Institute, Inc., Totowa, NJ, 1985.
Who's Who in America, 44th Edition, Marquis Who's Who, Inc., Chicago, IL, 1985.
Who's Who in Frontiers of Science and Technology, Marquis Who's Who, Inc., Chicago, IL, 1985.
American Men and Women of Science, The Jaques Cattell Press, New York, NY, 1985.
The International Who's Who of Contemporary Achievement, Biographical Publications, Cambridgeshire, England, 1985.
Men of Achievement, 11th Edition, International Biographical Center, Cambridge, England, 1985.
Who's Who in Technology Today, J. Dick Publishing, Lake Bluff, IL, 1985.
Dictionary of International Biography, International Biographical Centre, Cambridge, England, 1985.

Miscellaneous Contributions

“Energetic Particle Measurements at the Environment of Mercury and Venus”, Final Report of the Energetic Particles Experiment Team, for the Venus/Mercury flyby in 1973, Jet Propulsion Laboratory Report 615-5, April 1970.
“Energetic Particle Measurements on the Outer-Solar-System Missions”, A Report of the Energetic Particles Team of the Mission Definition Phase on the OPGT/MJS Mission, Jet Propulsion Laboratory, April 1972.
“Final Report of the Space Shuttle Payload Planning Working Groups: Atmospheric and Space Physics”, Vol. 2, NASA/GSFC, May 1973. “Voyager-77 Project Report”, Magnetospheres/Interactions Working Group, JHU/APL March 1974, (Chairman).
“The NASA/ESA Dual Spacecraft Out-of-Ecliptic Mission, A Scientific Summary”, Jet Propulsion Laboratory Publication 660-53, April 1977.
“Origin of Plasmas in the Earth's Neighborhood”, Final Report of the Science Definition Working Group, NASA/GSFC, April 1979.
“Solar System Space Physics in the 1980's: A Research Strategy”, Report of the Space Science Board Committee on Solar and Space Physics, National Academy of Sciences, April 1980.
“Solar-Terrestrial Research for the 1980's”, Report of the Committee on Solar-Terrestrial Research, Geophysics Research Board, National Academy of Sciences, December 1981.
“An International Discussion on Research in Solar and Space Physics”, National Academy Press, 1983.
“An Implementation Plan for Priorities in Solar-System Space Physics”, Report of Committee on Solar and Space Physics, National Academy Press, 1985 (Chairman).
“Space Science in the Twenty First Century,” Report on the Major Directions in Space Study, National Academy Press, 1988.
“Research Opportunities in Electronics,” Report of Panel on Research Opportunities in Electronics, Naval Studies Board, Commission on Physical Sciences, National Research Council, National Academy Press, 1987.
“Solar Probe, Scientific Rationale and Mission Concept”, Jet Propulsion Laboratory, California Institute of Technology, JPL, D-6797, 1989.

“Space Physics Strategy-Implementation Study, Volume 1: Goals, Objectives, Strategy; Volume 2: Program Plan”, NASA Report, April, 1991.

Congressional Testimony/Presentations

Subcommittee on Space Science & Applications, Committee on Science & Technology, U.S.

House of Representatives, 98th Congress, February 23, 1983;

Subcommittee on Space Science and Applications, Committee on Science and Technology, U.S.

House of Representatives, 99th Congress, October 8, 1985;

Conference on the Future of Space Science, Congressional Space Caucus, United States House of Representatives, 99th Congress, October 9, 1985;

National Commission on Space, Solar System Space Physics, October 22, 1985.

Augustine Commission Panel, Smithsonian Institutions, Washington, DC, September 27, 1990.

Committee on Science, Subcommittee on Space and Aeronautics, U.S. House of Representatives, 105th Congress, March 19, 1997.

Citations of S. M. Krimigis’ Papers in Scientific Journals

The R. E. Gibson Library (a division of Johns Hopkins Eisenhower Library) performed a citation study in 2004 of 368 publications and identified a total of **5784 citations**. The data are available by year and article number, and can be supplied on a CD. The database, however, only covers **journal articles** but not books or conference proceedings, so it represents **a lower limit**. Because software is not readily available to identify self-citations, a random sample was used to estimate the likely number of such citations. The average rate of self-citations for the sampled articles was approximately 10%. Thus, of the 5784 total, **up to 578 may be self-citations**, leaving a net number of citations at about 5200. The estimated number of citations at this time (2007) is well over 6000.

Publications

(in refereed Journals, book chapters and peer-reviewed Conference proceedings)

1963

1. Krimigis, S. M., Solar protons and their geophysical effects, *Proc. Iowa Academy of Science*, 70, 393-402, 1963.

1965

2. Krimigis, S. M., Interplanetary diffusion model for the time behavior of intensity in a solar cosmic ray event, *J. Geophys. Res.*, 70, 2943-2960, 1965.
3. Van Allen, J. A., L. A. Frank, S. M. Krimigis, and H. K. Hills, Absence of Martian radiation belts and implications thereof, *Science*, 149, 1228-1233, 1965.
4. Van Allen, J. A. and S. M. Krimigis, Impulsive emission of ~40 keV electrons from the sun, *J. Geophys. Res.*, 70, 5737-5751, 1965.

1966

5. Krimigis, S. M., Interplanetary diffusion and cosmic ray modulation, in *Recent Advances in Cosmic Ray Research*, Gauger and Masley, eds., Western Periodicals Co., North Hollywood, California, 147-170, 1966.
6. Krimigis, S. M. and T. P. Armstrong, Observations of protons in the magnetosphere with Mariner 4, *J. Geophys. Res.*, 71, 4641-4650, 1966.
7. Krimigis, S. M. and J. A. Van Allen, Observations of ~500 keV protons in interplanetary space with Mariner IV, *Phys. Rev. Lett.*, 16, 419-423, 1966.

1967

8. Krimigis, S. M. and J. A. Van Allen, Geomagnetically trapped alpha particles, *J. Geophys. Res.*, 72, 5779-5797, 1967.
9. Krimigis, S. M. and J. A. Van Allen, Observations of the February 5-12, 1965, solar particle event with Mariner 4 and Injun 4, *J. Geophys. Res.*, 72, 4471-4486, 1967.
10. Krimigis, S. M., J. A. Van Allen, and T. P. Armstrong, Simultaneous observations of solar protons inside and outside the magnetosphere, *Phys. Rev. Lett.*, 18, 1204-1207, 1967.
11. Van Allen, J. A., S. M. Krimigis, L. A. Frank, and T. P. Armstrong, An upper limit on the intrinsic magnetic dipole moment of Venus based on the absence of a Venusian radiation belt, *Science*, 158, 1673-1675, 1967.

1968

12. Armstrong, T. P. and S. M. Krimigis, Observations of protons in the magnetosphere and magnetotail with Explorer 33, *J. Geophys. Res.*, 73, 143-152, 1968.
13. Krimigis, S. M., Cosmic-ray observations in 1964-65 with Mariner IV, Proc. 10th International Cosmic Ray Conference, *Canadian J. Phys.*, 46, S976-S980, 1968.
14. Krimigis, S. M., Observations of low energy (~0.5 MeV) trapped protons with Injun IV, *Earth's Particles and Fields*, Reinhold Book Corp., New York, B. McCormac, ed., 89-101, 1968.
15. Krimigis, S. M. and J. A. Van Allen, Distribution and energy spectrum of alpha particles in the radiation zones, *Earth's Particles and Fields*, Reinhold Book Corp., New York, B. McCormac, ed., 127-140, 1968.
16. Van Allen, J. A., S. M. Krimigis, L. A. Frank, and T. P. Armstrong, Observed absence of energetic electrons and protons near Venus, *J. Geophys. Res.*, 73, 421-425, 1968.

1969

17. Armstrong, T. P., S. M. Krimigis, and J. A. Van Allen, Observations of the solar particle event of 7 July 1966 with University of Iowa detectors, *Annals of the IQSY*, 3, 313-328, 1969.
18. Fritz, T. A. and S. M. Krimigis, Initial observations of geomagnetically trapped protons and alpha particles with OGO-4, *J. Geophys. Res.*, 74, 5132-5138, 1969.
19. Krimigis, S. M., Observations of low energy solar protons with Mariners 4 and 5, Trudi Mezhdunarodnovo Seminara, *Proc. of the Ioffe Physico-Technical Institute*, Academy of Sciences of the USSR, G. E. Kocharov, ed., Leningrad, 43-86, 1969.
20. Krimigis, S. M., Summary on energetic particles observed during the July 1966 proton flare event, *Annals of the IQSY*, 3, 457-461, 1969.
21. Krimigis, S. M. and D. Venkatesan, The radial gradient of interplanetary radiation measured by Mariners 4 and 5, *J. Geophys. Res.*, 74, 4129-4145, 1969.
22. Krimigis, S. M., J. A. Van Allen, and T. P. Armstrong, Solar particle observations inside the magnetosphere during the 7 July 1966 proton flare event, *Annals of the IQSY*, 3, 395-407, 1969.

1970

23. Armstrong, T. P., S. M. Krimigis, and K. W. Behannon, Proton fluxes at 300 keV associated with propagating interplanetary shock waves, *J. Geophys. Res.*, 75, 5980-5988, 1970.
24. Krimigis, S. M., Alpha particles trapped in the Earth's magnetic field, *Earth's Particles and Fields*, D. Reidel Publishing Co., Dordrecht- Holland, B. McCormac, ed., 364-379, 1970.
25. Krimigis, S. M., The radial gradient of 0.3 MeV protons in inter- planetary space, measured with Mariner 5, Proc. 11th International Cosmic Ray Conference, *Acta Physica Academiae Scientiarum Hungaricae*, 29, Suppl. 2, 125-132, 1970.
26. Krimigis, S. M. and C. D. Wende, X-ray emissions from the Sun, *Proc. of the NATO Advanced Study Institute on Solar Eclipses and the Ionosphere*, Plenum Press, New York, M. Anasassiadis, ed., 115-148, 1970.
27. Krimigis, S. M., P. Verzariu, J. A. Van Allen, T. P. Armstrong, T. A. Fritz, and B. A. Randall, Trapped energetic nuclei $Z \geq 3$ in the Earth's outer radiation zone, *J. Geophys. Res.*, 75, 4210-4215, 1970.
28. Van Allen, J. A., B. A. Randall, and S. M. Krimigis, Energetic carbon, nitrogen, and oxygen nuclei in the Earth's outer radiation zone, *J. Geophys. Res.*, 75, 6085-6091, 1970.

1971

29. Armstrong, T. P. and S. M. Krimigis, Statistical study of solar protons, alpha particles and $Z \geq 3$ nuclei in 1967-1968, *J. Geophys. Res.*, 76, 4230-4244, 1971.
30. Gleeson, L. J., S. M. Krimigis and W. I. Axford, Low-energy cosmic rays near Earth, *J. Geophys. Res.*, 76, 2228-2235, 1971.
31. Krimigis, S. M., Energetic particles, in *The Outer Solar System, Advances in the Astronautical Sciences*, Vol. 29 I, J. Vagners, ed., 529-542, 1971.
32. Krimigis, S. M. and P. Verzariu, Implications on particle storage at the sun from observations of solar-flare proton spectrums, *J. Geophys. Res.*, 76, 792-807, 1971.
33. Krimigis, S. M., E. C. Roelof, T. P. Armstrong, and J. A. Van Allen, Low energy (≥ 0.3 MeV) solar-particle observations at widely separated points (>0.1 AU) during 1967, *J. Geophys. Res.*, 76, 5921-5946, 1971.
34. Krimigis, S. M., P. Verzariu, D. Venkatesan, and B. A. Randall, Redistribution of trapped protons following the 8 March 1970 magnetic storm, Report UAG-12, Part I, *World Data Center A*, 156-159, 1971.
35. Venkatesan, D. and S. M. Krimigis, Observations of low-energy (0.3 to 1.8 MeV) differential spectrums of trapped protons, *J. Geophys. Res.*, 76, 7618-7631, 1971.

1972

36. Armstrong, T. P., S. M. Krimigis, D. V. Reames, and C. E. Fichtel, A comparison of measurements of the charge spectrum of solar cosmic rays from nuclear emulsions and the Explorer 35 solid state detector, *J. Geophys. Res.*, 77, 3607-3612, 1972.

37. Bums, A. L. and S. M. Krimigis, Changes in the distribution of low energy trapped protons associated with the April 17, 1965 magnetic storm, *J. Geophys. Res.*, 77, 112-130, 1972.
38. Verzariu, P. and S. M. Krimigis, Several observations of low-energy solar-proton spectra and possible interpretations, *J. Geophys. Res.*, 77, 3985-3998, 1972.

1973

39. Armstrong, T. P. and S. M. Krimigis, Time variations and angular distributions of alpha particles and medium nuclei for the October 27, 1972 solar particle event, *Proc. 13th International Cosmic Ray Conference*, 2, 1504-1509, 1973.
40. Krimigis, S. M., Absence of coronal particle storage in solar flare events, *Proc. Solar Terrestrial Relations Conference*, 277-281, Calgary, Canada, 1973.
41. Krimigis, S. M., A lower limit to the altitude of coronal particle storage regions deduced from solar proton energy spectra, *Proc. of Symposium on High Energy Phenomena on the Sun*, Ramaty and Stone, eds., 478-485, NASA SP-342, 1973.
42. Krimigis, S. M., The charge composition aspect of energetic trapped particles, *Proc. Solar Terrestrial Relations Conference*, 207-229, Calgary, Canada, 1973.
43. Krimigis, S. M. and T. P. Armstrong, Measurements of the relative abundances of Fe-group, He and M nuclei during the October 29, 1972 solar particle event, *Proc. 13th International Cosmic Ray Conference*, 2, 1510-1515, 1973.
44. Krimigis, S. M. and P. Verzariu, Measurements of geomagnetically trapped alpha particles, 1968-1970: 1. Quiet time distributions, *J. Geophys. Res.*, 78, 7275-7285, 1973.
45. Krimigis, S. M., T. P. Armstrong, and J. W. Kohl, Measurements of the quiet-time low energy proton, alpha, and M-nuclei component in cosmic rays, *Proc. 13th International Cosmic Ray Conference*, 2, 1656-1661, 1973.
46. Roelof, E. C. and S. M. Krimigis, Analysis and synthesis of coronal and interplanetary energetic particle, plasma and magnetic field observations over three solar rotations, *J. Geophys. Res.*, 78, 5375-5410, 1973.
47. Verzariu, P. and S. M. Krimigis, Directional diffusion coefficients of solar protons inside and outside the bow shock, *Planet. Space Sci.*, 21, 971-982, 1973.

1975

48. Armstrong, T. P. and S. M. Krimigis, Variations in the charge composition of the July 2-12, 1974 solar particle event, *Proc. 14th International Cosmic Ray Conference*, 5, 1592-1596, 1975.
49. Armstrong, T. P., S. M. Krimigis, and L. J. Lanzerotti, A reinterpretation of the reported energetic particle fluxes in the vicinity of Mercury, *J. Geophys. Res.*, 80, 4015-4017, 1975.
50. Gold, R. E., S. M. Krimigis, E. C. Roelof, A. S. Krieger, and J. T. Nolte, Relation of large-scale coronal x-ray structure and cosmic rays: 3. Low-intensity solar particle events with enhanced ~ 3 MeV helium and medium fluxes associated with solar wind streams, *Proc. 14th International Cosmic Ray Conference*, 5, 1710-1715, 1975.
51. Krimigis, S. M., J. W. Kohl, and T. P. Armstrong, The magnetospheric contribution to the quiet-time low energy nucleon spectrum in the vicinity of Earth, *Geophys. Res. Lett.*, 2, 457-460, 1975.
52. Krimigis, S. M., J. W. Kohl, and T. P. Armstrong, The quiet-time low energy nucleon spectrum in the vicinity of Earth, *Proc. 14th International Cosmic Ray Conference*, 5, 780-785, 1975.
53. Krimigis, S. M., E. T. Sarris, and T. P. Armstrong, Observations of Jovian electron events in the vicinity of Earth, *Geophys. Res. Lett.*, 2, 561-564, 1975.
54. Krimigis, S. M., E. T. Sarris, and T. P. Armstrong, Observations of quiet-time interplanetary electron enhancements of Jovian origin, *Proc. 14th International Cosmic Ray Conference*, 2, 752-757, 1975.
55. Roelof, E. C. and S. M. Krimigis, Low-energy solar cosmic rays, 1971-1974: A bibliography, *Rev. Geophys. Space Phys.*, 13, 1092-1104, 1975.
56. Roelof, E. C., S. M. Krimigis, W. M. Cronyn, S. D. Shawhan, and P. S. McIntosh, Observation using interplanetary scintillations at 34.3 MHz of the effect of a solar wind disturbance on a solar energetic particle event, *Proc. 14th International Cosmic Ray Conference*, 5, 1692-1697, 1975.

57. Roelof, E. C., R. E. Gold, S. M. Krimigis, A. S. Krieger, J. T. Nolte, P. S. McIntosh, A. J. Lazarus, and J. D. Sullivan, Relation of large scale coronal x-ray structure and cosmic rays: 2. Coronal control of interplanetary injection of 300 keV protons, *Proc. 14th International Cosmic Ray Conference*, 5, 1704-1709, 1975.
58. Sarris, E. T., S. M. Krimigis, and T. P. Armstrong, Observations of energetic particles near interplanetary MHD discontinuities, *Proc. 14th International Cosmic Ray Conference*, 5, 1835-1840, 1975.
59. Wende, C. D., S. M. Krimigis, and J. W. Kohl, Continuous observations of long-term variations in cosmic x-ray sources, *Proc. of International Conference X-Rays in Space*, University of Calgary, Calgary, Alberta, Canada, Vol. II. 935-949, 1975.

1976

60. Armstrong, T. P. and S. M. Krimigis, Interplanetary acceleration of relativistic electrons observed with IMP-7, *J. Geophys. Res.*, 81, 677-682, 1976.
61. Armstrong, T. P., S. M. Krimigis, D. Hovestadt, B. Klecker, and G. Gloeckler, Observation of temporal and spatial variations in the Fe/O charge composition of the solar particle event of 4 July 1974, *Solar Phys.* 49, 395-407, 1976.
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