

STAMATIOS M KRIMIGIS

(Brief curriculum Vitae and publications)

Current position: **Principal Staff**, Johns Hopkins University Applied Physics Laboratory (1972-present); **Space Department Head Emeritus** (2004-present)
Member, Academy of Athens, Chair of Space Science (2005-present)490

Education: BS (Physics), University of Minnesota, 1961;
MS (Physics), University of Iowa, 1963;
PhD (Physics), University of Iowa, 1965.

Professional background: Research Associate, 1965-1966; Assistant Professor of Physics, 1966-1968; Department of Physics and Astronomy, **University of Iowa. Johns Hopkins University Applied Physics Laboratory (1968-present). Supervisor** (Space Physics Section) and Principal Staff member (since 1972), 1968-1974. *Group Supervisor* (Space Physics and Instrumentation Group), 1974-1981. *Chief Scientist* (Space Department), 1980-1990. *Head* (Space Department), 1991-2004. *Emeritus Head*, 2004-present. *Supervisor*, Office of Space Research and Technology, Academy of Athens, Athens, Greece (2006-present).

Relevant experience: *As Principal Investigator (PI) or Co-Investigator (Co-I), designed, built, flown and analyzed data from 21 instruments on NASA/ESA space missions, 1963 to present, as follows: PI--Cassini-Huygens MIMI instrument,1990-present;Voyager 1 and 2 LECP instrument 1971-present. Explorer 47 and Explorer 50 (IMP-7 and 8) CPME, 1968-1996. AMPTE, 1973-1989. Lead Co-I or Co-I- Galileo EPD, 1977-2003; Ulysses HI-SCALE 1978-2009; Geotail EPIC, 1985-present; ACE ULEIS and EPAM, 1988-present; MESSENGER EPS, 1998-present; Mariner 3, 4, 5 TRD (Mars and Venus) 1963-68; Explorer 33 and Explorer 35 EPD, 1965-1970. Injun 4 SSD, 1963-1966; Injun 5 SSD, 1966-1971; OGO-4 SSD, 1966-1970; Collaborating Scientist, New Horizons, 2002-present. Also, numerous NSF grants, 1970-1990.*

Member, *Space Science Board*, National Academy of Sciences, and *Chair*, Committee on Solar and Space Physics 1983-1986; Member, *NASA Space Science and Applications Advisory Committee (SSAAC)*, 1987-1990; *NASA Inter-Agency Consultative Group for Space Science (IACG)*, 1987-1993; *NASA Discovery Program Science Working Group*, 1989-1992. Member or Chair of over 40 committees, Commissions, Working Groups at US and International level.

Awards and honors: **Fellow**, *APS, AGU, AAAS, AIAA*, 1980- 2007; **Lifetime Achievement Award**, Johns Hopkins Applied Physics Laboratory, 2004; **Member of the Academy of Athens**, Chair of Science of Space. 2004; **COSPAR Space Science Award**, 2002; **Smithsonian Institution Trophy for Achievement** to the NEAR team, 2002. *Aviation Week and Space Technology “Laurels in Space Award”* in 1996 for NEAR and 2001 for New Horizons. **NASA Medal for Exceptional Scientific Achievement** (1981, 1986). **Basic Sciences Award**, International Academy of Astronautics (1994). He was awarded **Honorary Doctorates** from the University of the Aegean (12/2009, Financial and Management Engineering) and the University of Athens (05/2010 Department of Physics). Most recently, the *Council of European Aerospace Societies* awarded Dr. Krimigis its 2011 **CEAS Gold Medal**. Over 40 NASA and ESA **Group**

Achievement Awards for Voyager, AMPTE, Galileo, Ulysses, ACE, NEAR, Cassini, MESSENGER, New Horizons, among others.

Publications: Over **500 papers** in journals and books, including 25 in *Science* and 8 in *Nature*, with over **8000 citations** (ISI Web of Science, 2010). He is co-editor of the book *Saturn from Cassini-Huygens* (Springer, 2009).

Specific Contributions to Space Science and Engineering

Solar and Interplanetary Physics: 1) First comprehensive interplanetary diffusion model for the propagation of solar protons (*JGR, 1965*); 2) Discovery of electrons emitted in solar flare events (*JGR, 1965*). 3) First observation of ion acceleration associated with propagating interplanetary shock waves (*JGR, 1970*). 4) Discovery of the variability in elemental composition in solar particle events (*JGR, 1971*). 5) First multi-spacecraft studies of co-rotating solar particle events (*JGR, 1971*); and identification of very long mean-free-paths [> 1 AU] (*JGR, 1973*). 6) Discovery of electron acceleration at interplanetary shocks (*JGR, 1976*). 7) Detection of Voyager's approach to heliosphere's Termination Shock (*Nature, 426, pp. 45-48, 2003*). 8) Crossing of Termination Shock by Voyager-1 in December 2004 (*Science, 2005*) and Voyager-2 in August 2007 (*Nature, 2008*). 9) First image of heliosphere using an energetic neutral atoms (ENA) camera on Cassini (*Science, 2009*)

Earth's Magnetosphere: 1) Discovery of trapped Helium nuclei in earth's radiation belts (*JGR, 1966*). 2) Discovery of trapped medium nuclei in earth's radiation belts (*JGR, 1970*). 3) Discovery of magnetospheric bursts of high-energy protons and electrons upstream of earth's bow shock and distant magnetotail (*JGR, 1976*). 4) First injection of an artificial plasma cloud in solar wind to study access of plasma into earth's magnetosphere (AMPTE, *JGR, 1986*).

Planetary Magnetospheres: 1) Discovery of hot [$kT \approx 20-50keV$] plasma as principal characteristic in the magnetospheres of Jupiter, Saturn, Uranus, and Neptune (*Science, 1979-1989*). 2) Discovery of energetic neutral atom (ENA) emissions from Jupiter (*GRL, 1981*) and Saturn (*Nature, 1981*) that established the field of ENA imaging sensors. 3) Characterization of composition and spectra of trapped particles in magnetospheres of Jupiter, Saturn, Uranus, and Neptune (*JGR, 1981 -1991*). 4) Establishment of upper limits to the magnetic moments of Mars (*Science, 1965*) and Venus (*Science, 1967*). 5) First image of Jupiter's magnetosphere through ENA during Cassini's flyby (*Nature, 415, pp. 994-996, 2002*), and discovery of a gaseous torus around the orbit of Europa (*Nature, 421, 920-922, 2003*). 6) Identification and detailed mapping of Saturn's ring current using both in situ and remote (ENA) sensors (*Nature, 450, 1050-1053, 2007*).

Space Science Instrumentation: 1) Pioneered use of very thin [$\approx 25\mu m$] solid-state detectors on Injun-4 and -5 that resulted in the discovery of Helium and medium nuclei in earth's radiation belts (*JGR, 1966-1970*); and even thinner [$2-5\mu m$] detectors on Voyagers 1 and 2 that measured the lowest energy Anomalous Cosmic Rays (ACR)

in the outer solar system (*XXV ICRC, Durban, 1997, Nature, 2003; Science, 2005*). 2) Designed low-noise, low-threshold detector systems that resulted in the discovery of hot plasmas in the outer planets magnetospheres [Low Energy Charged Particle Experiment on Voyagers 1 and 2] (*Space Science Reviews, 1977*). 3) Conceived the first Energetic Neutral Atom (ENA) imaging system, obtained funding through NASA's Innovative Instrument Development grants in 1985 and oversaw (with other colleagues) the design (*Space Science Rev, 2004*) that has obtained images of Saturn's magnetosphere on the Cassini spacecraft.

Spacecraft Missions Initiated and Managed: 1) Conceived and implemented the Active Magnetospheric Particle Tracer Explorers (**AMPTE**) program as Principal Investigator (1979-1989). 2) Spearheaded (with others) the design of the Advanced Composition Explorer (**ACE**), the world's only real-time space weather satellite (1997-present). 3) Advanced the **Discovery** mission line with NASA and won the implementation of the first mission, the Near Earth Asteroid Rendezvous (**NEAR**) to orbit (and then land) on the asteroid Eros (1996-2001). 4) Initiated and organized the team to propose the **MESSENGER** mission to orbit the planet Mercury for the first time (2000-2011). 5) Spearheaded the team that proposed and won the competition for the first mission designed to encounter the planet Pluto (**New Horizons**, launched January 2006) and investigate Kuiper Belt objects. 6) Proposed (with others) initiation of the **Solar Terrestrial Probes**, oversaw the implementation of the first one (**TIMED**) at APL and the initiation of **STEREO**. 7) Led the JHU/APL effort for initiation and implementation of NASA's **Living With a Star** (LWS) program, and the implementation studies of Radiation Belt Storm Probes (**RBSP**) and **Solar Probe** missions.

Publications of Stamatios M Krimigis

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

(Updated September 2010)

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., 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. Allen, Observations of ~500 keV protons in interplanetary space with Mariner IV, *Phys. Rev. Lett.*, 16, 419-423, 1966.

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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.

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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.

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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.

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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.

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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.

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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. 29I*, 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.
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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.

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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.
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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.
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43. Krimigis, S. M. and T. P. Armstrong, Measurements of the relative abundances of Fe-group, He and M nuclei during 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.
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61. Armstrong, T. P., S. M. Krimigis, D. Hovestadt, B. Klecker and G. Gloeckler, Observations 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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