

Textbooks and Monographs Related to Space Weather and Space Weather Science

Compiled by

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Abstract: We compile a list of English-language textbooks, popular texts and topical monographs, related to the science of space weather and published since 1990. This list was originally prepared as input to the 15th Conference on Space Weather at the 2018 American Meteorological Society Meeting. This document describes textbook resources available to space weather practitioners, broadcasters, meteorologists, scientists and engineers. It has been updated to 2020.

Format: Textbooks with imbedded or end of chapter questions and/or problems are shown in tabular form. The degree of difficulty, as indicated, ranges from basic (popular) to intermediate (undergrad-professional development) to advanced (graduate student and researcher). General exposition-texts are shown as hanging-indent text entries. Links to doi's or Tables of Contents (TOC) are provided if available.

Books related to Space Weather and Space Environment of the Heliosphere

An Introduction to Space Weather	Basic	M. Moldwin	(2008) On line (2012)
Introductory text on space weather aimed at non-science majors	Cambridge University Press	ISBN: 978-0-521-71112-8	Table of Contents (TOC) at URL below

<https://doi.org/10.1017/CBO9780511801365>

Introduction to the Space Environment	Intermediate	T. Tascione	(2010) 2 nd Ed
Textbook on most facets of space weather and its impacts	Krieger Publishing, Malabar, FL, USA	ISBN 9780894640711	

Space Weather and the Physics Behind It	Intermediate	D. J. Knipp	(2011)
Textbook on most facets of space weather and its impacts.	McGraw Hill, New York	ISBN 9780073408903	

Space Physics: An Introduction	Intermediate	C. T. Russell, J. G. Luhmann, R. J. Strangeway	(2016) 2nd Ed
A textbook describing the physical basis of space weather	Cambridge University Press	ISBN 9781107098823	TOC available on publisher webpage

<https://www.cambridge.org/us/academic/subjects/earth-and-environmental-science/atmospheric-science-and-meteorology/space-physics-introduction?format=HB>

Space Physics: An Introduction to Plasmas and Particles in the Heliosphere	Intermediate-Advanced	M.-B. Kallenrode	2004
A textbook describing the physical basis of space weather	Springer-Verlag Berlin Heidelberg	ISBN 978-3-642-05829-5	TOC available on publisher webpage

<https://www.springer.com/gp/book/9783540206170>

Basic Space Plasma Physics	Intermediate	W. Baumjohann and R. Treumann	(2012) 2nd Ed
Textbook-like exposition on space plasma physics	Imperial College Press	ISBN 978-1-84816-895-4	

The Solar-Terrestrial Environment: An Introduction to Geospace - the Science of the Terrestrial Upper Atmosphere, Ionosphere, and Magnetosphere	Intermediate	J. K. Hargreaves	1992 1995 Paperback
A textbook describing the physical basis of space weather	Cambridge University Press	ISBN 978-0-521427371	TOC available on publisher webpage

<https://www.cambridge.org/core/books/solarterrestrial-environment/76A9C5BD5FE19629EA5E9BD5DA840D5B>

Science of Space Environment Wave Summit Course	Intermediate	edited by T. Ondoh and K. Marubashi	(2000)
Publication covering most aspects of space weather resulting from a specialized course	Ohmsha Press, Tokyo, Japan,	ISBN 978-1-58603-097-1	

The Space Environment: Implications for Spacecraft Design	Intermediate	A. C. Tribble	(2004) 2 nd Ed
A textbook about space weather and space environment effects on spacecraft	Princeton University Press, Princeton, NJ.	ISBN 978-0-691102993	

Physics of Space Storms: From the Solar Surface to the Earth	Intermediate to Advanced	H. E. J. Koskinen	(2011)
A textbook about the physical basis of space weather disturbances	Springer, Heidelberg	ISBN 978-3-642-00319-6	TOC at URL below

<https://www.springer.com/gp/book/9783642003103>

Physics of Solar System Plasma	Intermediate to Advanced	T. E. Cravens	(1997) Hardback (2004) Soft Cover
A textbook about the physical basis of space weather disturbances	Cambridge University Press	ISBN 978-0521611947 ISBN 0521611946	TOC at URL below

<https://doi.org/10.1017/CBO9780511529467>

Physics of the Earth's Space Environment	Intermediate to Advanced	G. Prolls	(2003) Hardback E-book
A textbook about the physical basis of space environment and geospace storms	Springer	ISBN 3-540-21426-7	TOC at URL below

<https://link.springer.com/book/10.1007/978-3-642-97123-5>

Physics of the space environment	Advanced	T. I. Gombosi	(1998) Softcover (2009) E-book
Comprehensive exposition of the physics of the space environment	Cambridge University Press	ISBN 9780511529474	TOC at URL below

<https://doi.org/10.1017/CBO9780511529474>

The Space Environment and Its Effects on Space Systems	Intermediate to Advanced	V. L. Pisacane	(2018) 2 nd Ed
A textbook about the physical basis of space weather and space environment effects on systems	AIAA Education Series	ISBN-10: 1624103537	TOC at URL below

<https://doi.org/10.2514/4.103537>

Heliophysics Series	Advanced Textbook series	Edited by K. Schrijver, G. Sisco, F. Bagenal, and J. Sojka	2012-2017
A textbook series about the physical basis of space weather in the heliosphere	Cambridge University Press	See ISBNs below	TOC by searching on title and ISBN at publisher website

- a. Heliophysics I: plasma physics of the local cosmos, ISBN 9780521110617
- b. Heliophysics II: space storms and radiation: causes and effects ISBN 9780521760515
- c. Heliophysics III: evolving solar activity and the climates of space and earth ISBN 9780521130202
- d. Heliophysics IV: active stars, their astrospheres, and impacts on planetary environments ISBN 9781107090477
- e. Heliophysics V: space weather and society (online only, currently FREE ACCESS),
<https://cpaess.ucar.edu/sites/default/files/heliophysics/documents/HSS5.pdf>

Space Weather Explanation, Exposition and History

Storms in Space, J. W. Freeman, (2001) Provides details of Earth's space environment, space weather effects of solar activity and forecasting challenges, Cambridge University Press, New York, ISBN 0-521-66038-6, Popular book (Basic)

Solar Storms: 2000 Years of Human Calamity, S. Odenwald (2015) Reveals the history of space weather via stories and anecdotes, CreateSpace Independent Publishing Platform, Washington, Soft cover, ISBN 9781505941463, Popular book (Basic)

Storms from the Sun: The Emerging Science of Space Weather, M. J. Carlowicz and R. E. Lopez (2002) Overview of space weather storms and the underlying science, including stories and anecdotes, J. Henry Press, Washington, DC, ISBN 0-309-07642-0 Popular book (Basic)

Sentinels of the Sun, Forecasting Space Weather, Barbara Poppe, (2006), Johnson Books, Big Earth Publishing, Boulder CO USA. ISBN 1-55566-379-6, Popular book (Basic)

The Sun, The Earth and Near-Space Environment, A Guide to the Sun Earth System, John Eddy, (2009) A basic overview of the space weather system, including sources, intermediaries and effects. (NASA), ISBN 978-0-16-08308-8; **FREE ACCESS** e-book at https://lwstrt.gsfc.nasa.gov/images/pdf/john_eddy/SES_Book_Interactive.pdf

The Sun Kings, Stuart Clark, (2009), Details the rise of space weather after the first great solar storm that affected modern technology, Princeton University Press, ISBN 9780691141268, Popular book (Basic)

The Sun and Space Weather, A. Hanslmeier, (2007), Springer, 2nd Edition, An exposition about space weather and space environment impacts, E-book, Softcover, Hardcover <https://doi.org/10.1007/978-1-4020-5604-8>

Space Weather, M. Hapgood, (2017) IOP Publishing, An introduction to space weather and associated critical research topics, ISBN 978-0-7503-1372-8 (ebook), **FREE ACCESS** DOI 10.1088/978-0-7503-1372-8, <https://iopscience.iop.org/book/978-0-7503-1372-8>

Space Weather: Physics and Effects, Edited by V. Bothmer and I. A. Daglis (2007), Springer Praxis Books, Heidelberg, ISBN 978-3-540-23907-9, TOC at <https://link.springer.com/book/10.1007/978-3-540-34578-7>

Aurora: In Search of the Northern Lights, M. Windridge (2016). Harper Collins; ISBN-13: 978-0008156091

50 Years of Research at the Belgian Institute for Space Aeronomy, Edited by Belgisch instituut voor ruimte-aeronomie -institut d'aéronomie spatiale de Belgique, (2014), ISBN: 9789090289311, **FREE ACCESS**, <http://50.aeronomie.be/index.php/2-uncategorised/140-50-years-book>

Books Related to Specific Regions where Space Weather Develops and/or Impacts Technological Systems

Physics of the Sun A First Course	Advanced	D. Mullan	(2009)
	Taylor & Francis Group	ISBN 9780429140983	TOC at URL below

<https://www.taylorfrancis.com/books/9780429140983>

Physics of the Solar Corona - - An Introduction	Advanced	M. Aschwanden	(2005)
	Springer	ISBN 978-3-540-30766-2	TOC at URL below

<https://www.springer.com/gp/book/9783540307655>

Principles of Heliophysics: a description of the universal processes behind planetary habitability	Advanced	K. Schrijver et al	(2018)
		arXiv:1910.14022	Pre-print Free Access

Magnetohydrodynamics of the Sun	Advanced	E. Priest	(2014)
	Cambridge University Press	eBook ISBN: 9781107776760 HB ISBN: 978-0521854719	TOC at URL below

<https://doi.org/10.1017/CBO9781139020732>

Basics of the Solar Wind	Advanced	N. Meyer-Vernet	(2007)
	Cambridge University Press	ISBN 9780511535765	TOC at URL below

<https://doi.org/10.1017/CBO9780511535765>

Introduction to Geomagnetically Trapped Radiation	Advanced	M. Walt	(2005)
A textbook about the radiation belts	Cambridge University Press	ISBN: 9780521616119	TOC at URL below

<https://doi.org/10.1017/CBO9780511524981>

Ionospheres: physics, plasma physics, and chemistry	Advanced	R. Schunk and A. Nagy	2 nd Ed (2018)
Describes the physical basis of space weather in Earth's ionosphere	Cambridge University Press	ISBN 978 1108462105	TOC at URL below

<https://www.cambridge.org/us/academic/subjects/earth-and-environmental-science/planetary-science-and-astronomy/ionospheres-physics-plasma-physics-and-chemistry-2nd-edition?format=PB&isbn=9781108462105>

Physics of the Upper Polar Atmosphere	Intermediate -Advanced	A. Brekke	(2013)
Describes the physical basis of space weather in Earth's upper atmosphere	Springer	ISBN 978-3-642-27401-5	TOC at URL below

<https://www.springer.com/gp/book/9783642274008>

The Ionosphere: Communications, Surveillance, and Direction Finding	Intermediate-Advanced	L. F. McNamara	(1991) Hardcover
A textbook about uses of the ionosphere and space weather that occurs there	Krieger Publishing, Malabar, FL, USA	ISBN 0-89464-040-2	

Physics and Chemistry of the Upper Atmosphere	Advanced	M. H. Rees	(1989) Online 2011
	Cambridge University Press	ISBN 9780511573118	TOC at URL below

<https://doi.org/10.1017/CBO9780511573118>

An Introduction to Atmospheric Gravity Waves	Advanced	C. Nappo	(2012) 2 nd Ed
	Elsevier	ISBN: 9780123852243	TOC at URL below

<https://www.elsevier.com/books/an-introduction-to-atmospheric-gravity-waves/nappo/978-0-12-385223-6>

The Sun from Space, K. Lang, (2009), Springer, ISBN 978-3-540-76953-8

<https://www.springer.com/gp/book/9783540769521>

Sunspots and Starspots, J. Thomas, and N. Weiss, (2008) Cambridge: Cambridge University Press, ISBN: 9780521860031,

TOC: <https://www.cambridge.org/gb/academic/subjects/physics/astrophysics/sunspots-and-starspots?format=HB&isbn=9780521860031>

Solar and Stellar Magnetic Activity, C. Schrijver, C., and C. Zwaan, (2000), Cambridge University Press,

<https://doi.org/10.1017/CBO9780511546037>

Energetic Particles in the Heliosphere, Simnett, George M., Springer, (2017), ISBN 978-3-319-43495-7

<https://www.springer.com/gp/book/9783319434933>

The Sun, the Solar Wind, and the Heliosphere, Edited by M P Miralles, and J. Sánchez Almeida (2011), Springer, ISBN 978-90-481-9786-6, TOC <https://www.springer.com/gp/book/9789048197866#>

The Dynamic Magnetosphere, Edited by W. Liu, and M. Fujimoto, (2011), Springer, ISBN 978-94-007-0500-5,

TOC <https://www.springer.com/gp/book/9789400705005>

The Dynamic Loss of Earth's Radiation Belts, Edited by A. Jaynes and M Usanova (2019), Elsevier, ISBN: 9780128133996

TOC: <https://www.elsevier.com/books/the-dynamic-loss-of-earths-radiation-belts/jaynes/978-0-12-813371-2>

- The Earth's Plasmasphere**, J. F. Lemaire and K. I. Gringauz, (2005), Cambridge University Press, ISBN: 9780521675550, <https://www.cambridge.org/core/books/earths-plasmasphere/6D7B1A034B455ED14DA2457432B3A44B>
- The Earth's Plasmasphere: A CLUSTER and IMAGE Perspective**, Edited by F. Darrouzet, J. de Keyser, and V. Pierrard, (2009) Springer, ISBN 978-1-4419-1322-7, <https://www.springer.com/gp/book/9781441913227>
- Compendium of Aeronomy**, T. Tohmatsu, Translator: T. Ogawa, (1990), Springer, ISBN 978-0-7923-0748-8
- The Earth's Ionosphere: Plasma Physics and Electrodynamics**, M. Kelley, (2009), Academic Press ISBN: 9780120884254, <https://doi.org/10.1016/B978-0-12-404013-7.X5001-1>
- The Dynamical Ionosphere**, M. Materassi, B. Forte, A. Coster, S. Skone, (2019) Elsevier, ISBN: 9780128147825 <https://www.elsevier.com/books/the-dynamical-ionosphere/materassi/978-0-12-814782-5>
- The High-Latitude Ionosphere and its Effects on Radio Propagation**, R. Hunsucker and J. Hargreaves, (2002) Cambridge: Cambridge University Press, doi:10.1017/CBO9780511535758
- Ionospheric Prediction and Forecasting**, B. Zolesi and L. R. Cander, (2014), Springer-Verlag Berlin Heidelberg, DOI: 10.1007/978-3-642-38430-1_3, <https://link.springer.com/book/10.1007/978-3-642-38430-1>
- Solar Activity and Earth's Climate**, R. Benestaed, (2002), Springer-Praxis, ISBN 3-54043-302-3, <https://www.springer.com/gp/book/9783540306207>
- Ionospheric Space Weather**, L. R. Cander, (2019) Springer Nature Switzerland AG, ebook ISBN 978-3-319-99331-7, DOI 10.1007/978-3-319-99331-7
- Atmospheric and Space Sciences: Ionospheres and Plasma Environments, Volume 2**, E. Yiğit, (2018), Springer, ISBN 978-3-319-62005-3
- Aeronomy of the Middle Atmosphere, Chemistry and Physics of the Stratosphere and Mesosphere**, G. Brasseur and S. Solomon (2005) Springer, ISBN 978-1-4020-3284-4 TOC <https://www.springer.com/gp/book/9781402032844#aboutBook>
- Radio Wave Propagation in Ionosphere**, K. Merriman, (2016) Willford Press, ISBN 9781682850572
- Spacecraft-Environment Interactions**, D. Hastings and H. Garrett, (1996), Cambridge: Cambridge University Press, doi:10.1017/CBO9780511525032
- Principles of Radiation Interaction In Matter And Detection** (2016) C. Leroy and P.-G. Rancoita (4th Ed), World Scientific, ISBN: 978-981-4603-18-8, ebook ISBN: 978-981-4603-20-1, <https://doi.org/10.1142/9167>
- Space Weather and Telecommunications**, J. M. Goodman (2005), Springer-Verlag US, softcover 978-1-4419-3651-6, (eBook) 978-0-387-23671-1, <https://link.springer.com/book/10.1007/b102193>
- Space Weather, Environment and Societies**, J. Liliensten and J. Bornarel (2006). Springer, Heidelberg, Hardcover, Ebook, ISBN 978-1-4020-4332-1 <https://www.springer.com/gp/book/9781402043314>
- Introduction to Geomagnetic Fields**, W. Campbell, (2003) Cambridge University Press, doi:10.1017/CBO9781139165136
- Space Weather Monitoring by Ground-Based Means: PC Index**, O. Troshichev, and A. Janzhura, (2012), Springer, ISBN 978-3-642-16802-4, <https://www.springer.com/gp/book/9783642168024>
- The Earth's Electric Field**, M. Kelley (2013), Elsevier Science, ISBN: 9780123978837 <https://www.elsevier.com/books/the-earths-electric-field/kelley/978-0-12-397886-8>
- Atmospheric Effects in Space Geodesy**, Edited by J. Böhm, and H. Schuh, (2013), Springer ISBN 978-3-642-36931-5, TOC: <https://link.springer.com/book/10.1007%2F978-3-642-36932-2#toc>

GNSS Remote Sensing: Theory, Methods and Applications, S. Jin, E. Cardellach and F. Xie (2014), ISBN 978-94-007-7482-7, TOC: <https://link.springer.com/book/10.1007/978-94-007-7482-7#toc>

Books Related to Plasma Physics & Magnetohydrodynamics

(sampling only)

Physics of Space Plasmas An Introduction	Intermediate-Advanced	G. Parks	(1991) (2019) E book
	CRC Press	ISBN 9780429301674	TOC at URL below

<https://www.routledge.com/Physics-Of-Space-Plasmas-An-Introduction/Parks/p/book/9780367282929>

The Physics of Plasmas	Advanced	T. Boyd, T., & J. Sanderson	(2003)
	Cambridge University Press	ISBN 9780511755750	TOC at URL below

<https://doi.org/10.1017/CBO9780511755750>

Introduction to Modern Magnetohydrodynamics	Advanced	S. Galtier	(2016)
	Cambridge University Press	ISBN 9781316665961	TOC at URL below

<https://doi.org/10.1017/CBO9781316665961>

Introduction to Plasma Physics With Space and Laboratory Applications, D. A. Gurnett and A. Bhattacharjee, (2005), Cambridge University Press, ISBN 9780511809125, <https://doi.org/10.1017/CBO9780511809125>

Magnetic Reconnection: MHD Theory and Applications, E. Priest, and T. Forbes, Cambridge University Press, 2000, ISBN: 9780511525087, TOC at <https://doi.org/10.1017/CBO9780511525087>

Reconnection of Magnetic Fields: Magnetohydrodynamics and Collisionless Theory and Observations
Edited by J. Birn and E. Priest, Cambridge University Press, 2007, doi:10.1017/CBO9780511536151

Fundamentals of Plasma Physics, P. Bellan, (2006), Cambridge University Press, ISBN 978-0521528009

Monographs, Edited Volumes and Meeting/Conference Proceedings

Space Storms and Space Weather Hazards. Edited by I. Daglis, (2001) *NATO Science Series, Series II: Mathematics, Physics and Chemistry 38*. Proc. inst., Hersonissos, Crete, June 2000. Kluwer Academic, Norwell, Mass., ISBN 1-4020-0030-8)

The Behavior of Systems in the Space Environment, Edited by R. N. DeWitt, D. Duston and A. K. Hyder (1993), Proceedings of the NATO Advanced Study Institute, Pitlochry, Scotland July 7-19, 1991, Springer, ISBN 978-94-010-4907-8, TOC at <https://link.springer.com/book/10.1007/978-94-011-2048-7>

From the Sun: Auroras, Magnetic Storms, Solar Flares, Cosmic Rays, edited by S. T. Suess and B. T. Tsurutani (1998), American Geophysical Union, Online ISBN:9781118665305, <https://agupubs.onlinelibrary.wiley.com/doi/book/10.1029/SP050>

Advances in Space Environment Research, Volume I, Editor-in-chief: Chian, A.C.-L. (2003), Springer, Proceedings of two workshops, the World Space Environment Forum and the High Performance Computing in Space Environment Research organized by the World Institute for Space Environment Research (WISER) from 22 July to 2 August 2002 in Adelaide, Australia. ISBN 978-94-007-1069-6, <https://www.springer.com/gp/book/9781402012785>

Space Weather: The Physics Behind a Slogan, Edited by K. Scherer, H. Fichtner, B. Heber, and U. Mall, (2005) Proceedings from a space weather conference with emphasis on physical processes. (Springer, Heidelberg). ISBN 978-3-540-22907-0

Handbook of the Solar-Terrestrial Environment, Editors: Y. Kamide and A. Chian, (2007), Springer Verlag, ISBN 9783540463146 Intermediate to Advanced, <https://link.springer.com/book/10.1007/978-3-540-46315-3>

- Auroral Physics**, Ed. C. I. Meng, M. J. Rycroft, L. A. Frank, (2012), Cambridge University Press, (1991), ISBN: 9780521157414, re-issue softcover (2012)
- Aeronomy of the Earth's Atmosphere and Ionosphere**, Edited by M. A. Abdu, D. Pancheva, and A. Bhattacharyya (2011) Springer, ISBN 978-94-007-0325-4
- Solar Origins of Space Weather and Space Climate**, Edited by I. González Hernández, R. Komm, A. Pevtsov, and J. Leibacher, (2014), Based on the presentations given at the 26th National Solar Observatory (NSO) Summer Workshop 2012, Springer, ISBN 978-1-4939-1182-0
- Space Weather Fundamentals**, Edited by George V. Khazanov, (2016), A monograph about the physical basis of space weather, CRC Press, ISBN 9780367875558, <https://www.routledge.com/Space-Weather-Fundamentals/Khazanov/p/book/9780367875558>
- Space Weather of the Heliosphere: Processes and Forecasts**, Edited by C. Foullon and O. E. Malandraki, (2018), International Astronomical Union Symposium 335, Cambridge University Press, ISBN 9781107192409
- Ring Current Investigations: The Quest for Space Weather Prediction**, Edited by V. Jordanova, R. Ilie, and M. Chen (2020), Elsevier, ISBN: 9780128155714, eBook ISBN: 9780128155721, <https://www.sciencedirect.com/book/9780128155714/ring-current-investigations?via=ihub=>
- Geomagnetism, Aeronomy and Space Weather**, Edited by M. Manda, M. Korte, A. Yau and E. Petrovsky, (2020) A monograph about the interacting systems of space weather and special publication to mark the centenary of IUGG, Cambridge University Press, ISBN 978-1-108-41848-5 and DOI: 10.1017/978110829013
- Machine Learning Techniques for Space Weather**, Edited by E. Camporeale, S. Wing and J. Johnson (2018), Elsevier, ISBN: 9780128117880, eBook ISBN: 9780128117897, <https://www.elsevier.com/books/machine-learning-techniques-for-space-weather/camporeale/978-0-12-811788-0>
- Extreme Events in Geospace, Origins, Predictability, and Consequences**, Edited by N. Buzulukova, (2018), Elsevier eBook ISBN: 9780128127018, <https://www.elsevier.com/books/extreme-events-in-geospace/buzulukova/978-0-12-812700-1>
- Extreme Solar Particle Storms: The Hostile Sun**, Edited by F. Miyake, I. Usoskin and S. Poluianov, (2002) IOP Publishing Ltd, Online ISBN: 978-0-7503-2232-4, <https://iopscience.iop.org/book/978-0-7503-2232-4>
- The Human Factor in a Mission to Mars: An Interdisciplinary Approach**, Edited by Konrad Szocik (2019), Individual chapters devoted to space weather/environment, Springer, ISBN 978-3-030-02058-3, eBook: ISBN 978-3-030-02059-0
- Ionospheric Multi-Spacecraft Analysis Tools Approaches for Deriving Ionospheric Parameters**, Edited by M. W. Dunlop, and H. Lühr, (2020) Springer, ISBN 978-3-030-26731-5

Series Related to Space Environment, Plasma and Heliospheric Physics

This list covers regions and processes that may relate to space weather. It is not comprehensive

AGU Geophysical Monograph (Since 1990, Space Weather Title ISBNs provided)

<https://agupubs.onlinelibrary.wiley.com/series/5064>

[Vol. 248, Dayside Magnetospheric Interactions](#)

[Vol. 244, Geomagnetically Induced Currents from the Sun to the Power Grid](#)

[Vol. 235, Electric Currents in Geospace and Beyond](#)

[Vol. 230, Dawn-Dusk Asymmetries in Planetary Plasma Environments](#)

[Vol. 222, Magnetosphere-Ionosphere Coupling in the Solar System](#)

[Vol. 220, Ionospheric Space Weather: Longitude and Hemispheric Dependences and Lower Atmosphere Forcing](#) Edited by T. Fuller-Rowell, E. Yizengaw, P. H. Doherty, S. Basu, (2016), Print ISBN: 9781118929209

[Vol. 216, Low-Frequency Waves in Space Plasmas](#)

Vol. 215, Auroral Dynamics and Space Weather Edited by Y. Zhang and L. J. Paxton (2015), AGU Geophysical Monograph Series, Print ISBN:9781118978702 | DOI:10.1002/9781118978719

Vol. 207, Magnetotails in the Solar System

Vol. 201, Modeling the Ionosphere-Thermosphere System, edited by J. Huba, R. Schunk, and G. Khazanov, (2014), ISBN:978-0-87590-490-0,

Vol. 199, Dynamics of the Earth's Radiation Belts and Inner Magnetosphere

Vol. 197, Auroral Phenomenology and Magnetospheric Processes: Earth and Other Planets Perspective

Vol. 181, Midlatitude Ionospheric Dynamics and Disturbances

Vol. 169, Magnetospheric ULF Waves: Synthesis and New Directions

Vol. 167, Recurrent Magnetic Storms: Corotating Solar Wind Streams

Vol. 165, Solar Eruptions and Energetic Particles

Vol. 156, Particle Acceleration in Astrophysical Plasmas: Geospace and Beyond

Vol. 155, The Inner Magnetosphere: Physics and Modeling

Vol. 142, Disturbances in Geospace: The Storm-Substorm Relationship

Vol. 141, Solar Variability and Its Effects on Climate

Vol. 133, Earth's Low-Latitude Boundary Layer

Vol. 125, Space Weather, Edited by P. Song, H. J. Singer and G L. Siscoe, (2001), ISBN:9780875909844

Vol. 118, Magnetospheric Current Systems

Vol. 111, Magnetic Helicity in Space and Laboratory Plasmas

Vol. 109, Sun-Earth Plasma Connections

Vol. 105, New Perspectives on the Earth's Magnetotail

Vol. 104, Geospace Mass and Energy Flow: Results From the International Solar-Terrestrial Physics Program

Vol. 103, Measurement Techniques in Space Plasmas: Fields

Vol. 102, Measurement Techniques in Space Plasmas: Particles

Vol. 99, Coronal Mass Ejections

Vol. 98, Magnetic Storms

Vol. 97, Radiation Belts: Models and Standards

Vol. 93, Cross-Scale Coupling in Space Plasmas

Vol. 90, Physics of the Magnetopause

Vol. 87, The Upper Mesosphere and Lower Thermosphere: A Review of Experiment and Theory

Vol. 86, Space Plasmas: Coupling Between Small and Medium Scale Processes

Vol. 84, Solar System Plasmas in Space and Time

Vol. 81, Solar Wind Sources of Magnetospheric Ultra-Low-Frequency Waves

Vol. 80, Auroral Plasma Dynamics

Vol. 73, Environmental Effects on Spacecraft Positioning and Trajectories

Vol. 64, Magnetospheric Substorms

Vol. 58, Physics of Magnetic Flux Ropes

Space Sciences Series of ISSI, (Since 1990, Space Weather Title ISBNs provided) Many of these titles have published as topical reviews in Space Science Reviews, <https://www.springer.com/series/6592>

[Vol 67, The Scientific Foundation of Space Weather](#), Edited by D. Baker, A. Balogh, T. I. Gombosi, H. E. J. Koskinen, A. Veronig and R. von Steiger, (2019), Hardcover ISBN 978-94-024-1587-2, Softcover ISBN 978-94-024-1659-6

[Vol 60, Earth's Magnetic Field](#)

[Vol 57, Solar Magnetic Fields](#)

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