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Outer Magnetospheric Boundaries: Cluster Results

G. Paschmann, S.J. Schwartz,
C.P. Escoubet and S. Haaland (Eds.)



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**Qiugang Zong, Philippe Escoubet, David
Sibeck, Guan Le, Hui Zhang**



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Outer Magnetospheric Boundaries: Cluster Results Goetz Paschmann, C.P. Escoubet, S. J. Schwartz, S.

Haaland, 2005-12-07 When the stream of plasma emitted from the Sun the solar wind encounters Earth's magnetic field it slows down and flows around it leaving behind a cavity the magnetosphere. The magnetopause is the surface that separates the solar wind on the outside from the Earth's magnetic field on the inside. Because the solar wind moves at supersonic speed a bow shock must form ahead of the magnetopause that acts to slow the solar wind to subsonic speeds. Magnetopause bow shock and their environs are rich in exciting processes in collisionless plasmas such as shock formation, magnetic reconnection, particle acceleration and wave-particle interactions. They are interesting in their own right as part of Earth's environment but also because they are prototypes of similar structures and phenomena that are ubiquitous in the universe having the unique advantage that they are accessible to in situ measurements. The boundaries of the magnetosphere have been the target of direct in situ measurements since the beginning of the space age. But because they are constantly moving, changing their orientation and undergoing evolution, the interpretation of single spacecraft measurements has been plagued by the fundamental inability of a single observer to unambiguously distinguish spatial from temporal changes. The boundaries are thus a prime target for the study by a closely spaced fleet of spacecraft. Thus the Cluster mission with its four spacecraft in a three-dimensional configuration at variable separation distances represents a giant step forward. The present 20th volume of the ISSI Space Science Series represents the first synthesis of the exciting new results obtained in the first few years of the Cluster mission.

The Earth's Plasmasphere Fabien Darrouzet, Johan de Keyser, Viviane Pierrard, 2009-08-21
James L Burch, C. Philippe Escoubet. Originally published in the journal *Space Science Reviews* Volume 145 Nos 1-2 DOI 10.1007/s11214-009-9532-7 Springer Science Business Media B.V. 2009. The IMAGE and CLUSTER spacecraft have revolutionized our understanding of the inner magnetosphere and in particular the plasmasphere. Before launch the plasmasphere was not a prime objective of the CLUSTER mission. In fact CLUSTER might not have ever observed this region because a few years before the CLUSTER launch at the beginning of the 1990s it was proposed to raise the perigee of the orbit to 8 Earth radii to make multipoint measurements in the current disruption region in the tail. Because of ground segment constraints this proposal did not materialize. In view of the great depth and breadth of plasmaspheric research and numerous papers published on the plasmasphere since the CLUSTER launch, this choice certainly was a judicious one. The fact that the plasmasphere was one of the prime targets in the inner magnetosphere for IMAGE provided a unique opportunity to make great strides using the new and complementary measurements of the two missions. IMAGE with sensitive EUV cameras could for the first time make global images of the plasmasphere and show its great variability during storm time. CLUSTER with four spacecraft could analyze in situ spatial and temporal structures at the magnetopause that are particularly important in such a dynamic system.

Dayside Magnetosphere Interactions Qiugang Zong, Philippe Escoubet, David Sibeck, Guan Le, Hui

Zhang,2020-04-07 Exploring the processes and phenomena of Earth's dayside magnetosphere Energy and momentum transfer initially taking place at the dayside magnetopause is responsible for a variety of phenomenon that we can measure on the ground Data obtained from observations of Earth's dayside magnetosphere increases our knowledge of the processes by which solar wind mass momentum and energy enter the magnetosphere Dayside Magnetosphere Interactions outlines the physics and processes of dayside magnetospheric phenomena the role of solar wind in generating ultra low frequency waves and solar wind magnetosphere ionosphere coupling Volume highlights include Phenomena across different temporal and spatial scales Discussions on dayside aurora plume dynamics and related dayside reconnection Results from spacecraft observations ground based observations and simulations Discoveries from the Magnetospheric Multiscale Mission and Van Allen Probes era Exploration of foreshock bow shock magnetosheath magnetopause and cusps Examination of similar processes occurring around other planets The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals Find out more about this book from this Q A with the editors *Planetary Atmospheric Electricity*

François Leblanc,Karen Aplin,Yoav Yair,Giles Harrison,Jean Pierre Lebreton,M. Blanc,2008-12-04 This book is a comprehensive discussion of all issues related to atmospheric electricity in our solar system It details atmospheric electricity on Earth and other planets and discusses the development of instruments used for observation **Dawn-Dusk**

Asymmetries in Planetary Plasma Environments Stein Haaland,Andrei Runov,Colin Forsyth,2017-10-04 DawnDusk Asymmetries in Planetary Plasma Environments Dawn dusk asymmetries are ubiquitous features of the plasma environment of many of the planets in our solar system They occur when a particular process or feature is more pronounced at one side of a planet than the other For example recent observations indicate that Earth's magnetopause is thicker at dawn than at dusk Likewise auroral breakups at Earth are more likely to occur in the pre midnight than post midnight sectors Increasing availability of remotely sensed and in situ measurements of planetary ionospheres magnetospheres and their interfaces to the solar wind have revealed significant and persistent dawn dusk asymmetries As yet there is no consensus regarding the source of many of these asymmetries nor the physical mechanisms by which they are produced and maintained Volume highlights include A comprehensive and updated overview of current knowledge about dawn dusk asymmetries in the plasma environments of planets in our solar system and the mechanisms behind them Valuable contributions from internationally recognized experts covering both observations simulations and theories discussing all important aspects of dawn dusk asymmetries Space weather effects are caused by processes in space mainly the magnetotail and can be highly localized on ground Knowing where the source i.e. where dawn dusk location is will allow for a better prediction of where the effects on ground will be most pronounced Covering both observational and theoretical aspects of dawn dusk asymmetries Dawn Dusk Asymmetries in Planetary Plasma Environments will be a valuable resource for academic researchers in space physics

planetary science astrophysics physics geophysics and earth science *Annales Geophysicae* ,2008 **Solar Variability and Planetary Climates** Y. Calisesi,R.-M. Bonnet,L. Gray,J. Langen,M. Lockwood,2007-10-11 2 With a global average irradiance of 342 W m^{-2} the Sun is by far the largest source of energy for planet Earth In comparison the internal energy produced by Earth 2 itself is only about 0.087 W m^{-2} Pollack et al 1993 which in turn is 3.5 times 2 larger than the 0.025 W m^{-2} of heat produced by the burning of fossil fuels About 31% 31 units of the solar energy which arrives at the top of the mosphere is re ected back to space by scattering from clouds aerosols and the Earth s surface Almost 20 units of solar radiation are absorbed in the atmosphere The remaining 49 units are absorbed at the surface Evaporation of water at the Earth s surface consumes 23 units and 7 units are transferred to the atmosphere by heat conduction On balance 19 units are lost from the Earth s surface as infrared radiation however consisting of 114 going upward and 95 returning from the mosphere to the Earth s surface see also Rosenfeld 2006 There is thus a sixfold recycling of energy This is the greenhouse effect established by the presence of watervaporandofothergreenhousegases CO CH_4 N_2O and CFCs intheatmo 2.4.2 sphere Due to human activities the latter have been increasing in the atmosphere 2 causing climate warming through an energy imbalance of 2.53 W m^{-2} more than 100 times larger than the heat released into the atmosphere by the burning of fossil fuels

Multiscale Magnetospheric Processes Gurbax S. Lakhina,2008 **Nuclear Science Abstracts** ,1976 *Geology and Habitability of Terrestrial Planets* Kathryn E. Fishbaugh,Phillipe Lognonné,François Raulin,David J. Des Marais,Oleg Korablev,2007-09-07 Given the fundamental importance of and universal interest in whether extraterrestrial life has developed or could eventually develop in our solar system and beyond it is vital that an examination of planetary habitability go beyond simple assumptions such as Where there is water there is life This book has resulted from a workshop at the International Space Science Institute ISSI in Bern Switzerland which brought together planetary geologists geophysicists atmospheric scientists and biologists to discuss the multi faceted problem of how the habitability of a planet co evolves with the geology of the surface and interior the atmosphere and the magnetosphere Each of the six chapters have been written by authors with a range of expertise so that each chapter is itself multi disciplinary comprehensive and accessible to scientists in all disciplines These chapters delve into what life needs to exist and ultimately to thrive the early environments of the young terrestrial planets the role of volatiles in habitability currently habitable but possibly not inhabited geologic environments the connection between a planet s inner workings and the habitability of its surface and the effects on planetary atmospheres of solar evolution and the presence or absence of a magnetosphere This book serves as an ideal reference for those planning missions that will hunt for biomarkers especially on Mars for biologists and geoscientists seeking the other side of the story and for researchers and upper level students interested in an in depth review of the geologic evolution of terrestrial planets from their cores to their magnetospheres and how that evolution shapes the habitability of the planetary surface

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