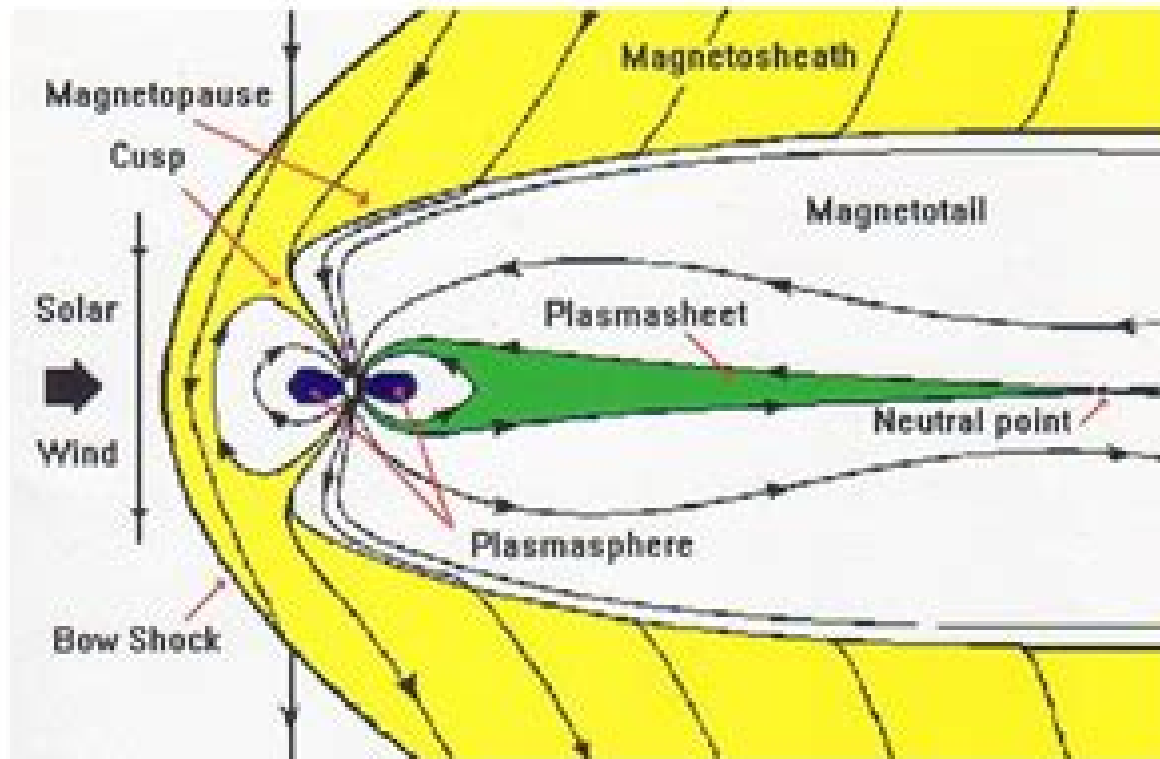




## Magnetospheric Substorms



# Polar Magnetospheric Substorms

**Syun-Ichi Akasofu**



## **Polar Magnetospheric Substorms:**

**Physics of Magnetospheric Substorms** Syun-Ichi Akasofu, 2012-12-06 Man through intensive observations of natural phenomena has learned about some of the basic principles which govern nature. The aurora is one of the most fascinating of these natural phenomena and by studying it man has just begun to comprehend auroral phenomena in terms of basic cosmic electrodynamic processes. The systematic and extensive observation of the aurora during and after the great international enterprise the International Geophysical Year IGY led to the concept of the auroral substorm. Like many other geophysical phenomena auroral displays have a dual time universal and local time dependence when seen by a ground based observer. Thus it was a difficult task for single observers rotating with the Earth once a day to grasp a transient feature of a large scale auroral display. Such a complexity is inevitable in studying many geophysical features in particular the polar upper atmospheric phenomena. However it was found that their complexity began to unfold when the concept of the auroral substorm was introduced. In a book entitled Polar and Magnetospheric Substorms the predecessor to this book I tried to describe the auroral phenomena as completely as possible in terms of the concept of the auroral substorm. At that time the first satellite observations of particles and magnetic fields during substorms were just becoming available and it was suggested that the auroral sub storm is a manifestation of a magnetospheric phenomenon called the magnetospheric substorm.

**Polar and Magnetospheric Substorms** Syun-Ichi Akasofu, 2012-12-06 It has become increasingly clear that the magnetosphere becomes intermittently unstable and explosively releases a large amount of energy into the polar upper atmosphere. This particular magnetospheric phenomenon is called the magnetospheric sub storm. It is manifested as an activity or disturbance of various polar upper atmospheric phenomena such as intense auroral displays and X ray bursts. Highly active conditions in the polar upper atmosphere result from a successive occurrence of such an elementary activity the polar substorm which lasts typically of order one to three hours. The concept of the magnetospheric substorm and its manifestation in the polar upper atmosphere the polar substorm has rapidly crystallized during the last few years. We can find a hint of such a concept in the term polar elementary storm introduced by Kristian Birkeland as early as 1908. However we are greatly indebted to Sydney Chapman who established the basic foundation of magnetospheric physics and has led researches in this field during the last half century. Indeed the terms polar magnetic substorm and auroral substorm were first suggested by Sydney Chapman. The concept of the substorm was then soon extended by Neil M Brice of Cornell University and Kinsey A Anderson and his colleagues at the University of California Berkeley who introduced the term magnetospheric substorm. We owe many of these recent developments in magnetospheric physics to the great international enterprise the International Geophysical Year IGY and subsequent international cooperative effort IGC IQSY.

**Physics of Magnetospheric Substorms** Syun-Ichi Akasofu, 1977-02-28      **Dynamics of the Magnetosphere** Syun-Ichi Akasofu, 2012-12-06 The Los Alamos Chapman Conference on Magnetospheric Substorms and Related Plasma Processes can

be considered the fourth in a series devoted to magnetospheric substorms after the Moscow 1971 Houston 1972 and Bryce Mountain 1974 meetings The main motivation for organizing the Los Alamos Conference was that magnetospheric substorm studies have advanced enough to the point of bringing experimenters analysts and theorists together to discuss major substorm problems with special emphasis on theoretical interpretations in terms of plasma processes In spite of an extremely heavy schedule from 8 30 A M to 10 00 P M every session was conducted in an enjoyable and spirited atmosphere In fact during one of the afternoons that we had put aside for relaxation John Winckler led a group of the attendees in a climb to the ceremonial cave of a prehistoric Indian ruin at Bandelier National Monument near Los Alamos under a crystal blue sky and a bright New Mexico sun There they danced as the former dwellers of the pueblo had perhaps as an impromptu evocation of a magnetospheric event

**Nuclear Science Abstracts** ,1974 *Introduction to Space Physics* Margaret G.

Kivelson,Christopher T. Russell,1995-04-28 All aspects of space plasmas in the Solar System are introduced and explored in this text for senior undergraduate and graduate students Introduction to Space Physics provides a broad yet selective treatment of the complex interactions of the ionized gases of the solar terrestrial environment The book includes extensive discussion of the Sun and solar wind the magnetized and unmagnetized planets and the fundamental processes of space plasmas including shocks plasma waves ULF waves wave particle interactions and auroral processes The text devotes particular attention to space plasma observations and integrates these with phenomenological and theoretical interpretations Highly coordinated chapters written by experts in their fields combine to provide a comprehensive introduction to space physics Based on an advanced undergraduate and graduate course presented in the Department of Earth and Space Sciences at the University of California Los Angeles the text will be valuable to both students and professionals in the field

**Geomagnetism** John A. Jacobs,2016-01-22 Geomagnetism Volume 4 focuses on the processes methodologies technologies and approaches involved in geomagnetism including electric fields solar wind plasma pulsations and gravity waves The selection first offers information on solar wind magnetosphere and the magnetopause of the Earth Discussions focus on magnetopause structure and transfer processes magnetosphere electric fields geomagnetically trapped radiation microstructure of the solar wind plasma and hydro magnetic fluctuations and discontinuities The text then examines geomagnetic tail neutral upper atmosphere and geomagnetic pulsations and plasma waves in the Earth s magnetosphere Topics include plasma waves and instabilities in the magnetosphere waves in a magneto plasma gravity waves atmospheric tides balance equations for mass momentum and energy and absorption of solar and particle radiation The publication takes a look at auroras and physical processes producing magnetosphere substorms and magnetic storms including aurora theory and morphology structure of the magnetosphere and models of magnetosphere substorms The selection is a valuable source of data for researchers wanting to explore geomagnetism Covers upper atmosphere physics the magnetosphere and solar wind Expert team of contributors from all over the world The fourth volume of the only comprehensive treatise covering all

aspects of geomagnetism      Geophysical Abstracts ,1971-07      *Magnetospheric Plasma Sources and Losses* Bengt Hultqvist, Marit Øieroset, Götz Paschmann, Rudolf Treumann, 2012-12-06 The present sixth volume of ISSI Space Sciences Series is the outcome of the most ambitious study project of ISSI hitherto that on Source and Loss Processes of Magnetospheric Plasma The goal has been to produce a fully integrated book on the subject which gives an authoritative overview of all aspects of the topic in a well organized form useful and readable both for active researchers in the field and for young scientists who are starting their research in space physics In order to represent the full diversity of experience and perspective that exists in the science community some 50 leading scientists from all over the world were invited to participate in the project and contribute to the text With the scientific competence well in hand the dominating problem in producing the book has been to achieve a degree of consistency in style nomenclature notations and format as well as good cross referencing To what degree we have succeeded in reaching our goal of delivering a volume that will be useful to the community in both its comprehensiveness and readability remains to be decided by the readers The book is the outcome of a three year long process In December 1995 the study project on Source and Loss Processes of Magnetospheric Plasma was selected by ISSI after consultations with several groups of senior representatives of the space physics community      Nuclear Power Reactor Instrumentation Systems Handbook Joseph M. Harrer, James G. Beckerley, 1973      Magnetosphere and Solar Winds, Humans and Communication Khalid S. Essa, Khaled H. Mahmoud, Yann-Henri Chemin, 2022-10-05 Magnetosphere and Solar Winds Humans and Communication consists of ten chapters organized into two sections The first section presents a full description of the magnetosphere and its effect on the solar wind climatic modes the Polar Cap index in relation to magnetosphere disturbances substorms and magnetic storms recent developments and challenges in developed ionosphere models and more The second section discusses solar flux solar proton activity over the solar cycle temporal variation of the sun's activity and macroscopic scales of spin      **Earth's Magnetospheric Processes** Billy McCormac, 2012-12-06 This book contains the lectures presented at the Summer Advanced Institute and Ninth ESRO Summer School which was held in Cortina Italy during the period August 30 through September 10 1971 One hundred seventy nine persons from eight different countries attended The authors and the publisher have made a special effort for rapid publication of an up to date status of the particles fields and processes in the earth's magnetosphere which is an ever changing area Special thanks are due to the lecturers for their diligent preparation and excellent presentations The individual lectures and the published papers were deliberately limited the author's cooperation in conforming to these specifications is greatly appreciated The contents of the book are organized by subject area rather than in the order in which papers were presented during the Institute School Many thanks are due to Drs J Ronald Burrows James W Dungey Harry Elliot Roger Gendrin Edward W Hones Jr Reimar Liist and J Ortner who served as session chairmen during the Institute and contributed greatly to its success by skillfully directing the discussion period in a stimulating manner after each lecture Many persons contributed to the success

of the Institute School The co chairman Dr Reimar Liist was most helpful during all phases of the preparation and planning Drs J Ronald Burrows Harry Elliot Carl Gunne Fiilthammar M Giorgi J Ortner J R U Page Alois Schardt James A Van Allen and Martin Walt were especially helpful in preparing the technical program Scientific and Technical Aerospace Reports ,1981

**Energy Research Abstracts** ,1981 *Dynamics of the Magnetosphere* Syun-Ichi Akasofu,1979-12-31 **Handbook of the Solar-Terrestrial Environment** Yohsuke Kamide,Abraham C.-L. Chian,2007-08-17 As a star in the universe the Sun is constantly releas cover a wide range of time and spatial scales making ing energy into space as much as erg s Tis observations in the solar terrestrial environment c energy emission basically consists of three modes Te plicated and the understanding of processes di cult rst mode of solar energy is the so called blackbody ra In the early days the phenomena in each plasma diation commonly known as sunlight and the second region were studied separately but with the progress mode of solar electromagnetic emission such as X rays of research we realized the importance of treating and UV radiation is mostly absorbed above the Earth s the whole chain of processes as an entity because of stratosphere Te third mode of solar energy emission is strong interactions between various regions within in the form of particles having a wide range of energies the solar terrestrial system On the basis of extensive from less than keV to more than GeV It is convenient satellite observations and computer simulations over to group these particles into lower energy particles and thepasttwo decades it hasbecomepossible to analyze higher energy particles which are referred to as the so speci cally the close coupling of di erent regions in the lar wind and solar cosmic rays respectively solar terrestrial environment *Magnetotails in the Solar System* Andreas Keiling,Caitríona Jackman,Peter Delamere,2015-02-02 All magnetized planets in our solar system Mercury Earth Jupiter Saturn Uranus and Neptune interact strongly with the solar wind and possess well developed magnetotails It is not only the strongly magnetized planets that have magnetotails Mars and Venus have no global intrinsic magnetic field yet they possess induced magnetotails Comets have magnetotails that are formed by the draping of the interplanetary magnetic field In the case of planetary satellites moons the magnetotail refers to the wake region behind the satellite in the flow of either the solar wind or the magnetosphere of its parent planet The largest magnetotail of all in our solar system is the heliotail the magnetotail of the heliosphere The variety of solar wind conditions planetary rotation rates ionospheric conductivity and physical dimensions provide an outstanding opportunity to extend our understanding of the influence of these factors on magnetotail processes and structures Volume highlights include Discussion on why a magnetotail is a fundamental problem of magnetospheric physics Unique collection of tutorials on a large range of magnetotails in our solar system In depth reviews comparing magnetotail processes at Earth with other magnetotail structures found throughout the heliosphere Collectively *Magnetotails in the Solar System* brings together for the first time in one book a collection of tutorials and current developments addressing different types of magnetotails As a result this book should appeal to a broad community of space scientists and it should also be of interest to astronomers who are looking at tail like structures beyond our solar

system     Modeling Magnetospheric Plasma T. E. Moore, J. H. Waite, Jr., 1988 Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 44 Existing models of the plasma distribution and dynamics in magnetosphere ionosphere systems form a patchwork quilt of different techniques and boundaries chosen to define tractable problems With increasing sophistication in both observational and modeling techniques has come the desire to overcome these limitations and strive for a more unified description of these systems On the observational side we have recently acquired routine access to diagnostic information on the lowest energy bulk plasma completing our view of the plasma and making possible comparisons with magnetohydrodynamic calculations of plasma moments On the theoretical side rising computational capabilities and shrewdly designed computational techniques have permitted the first attacks on the global structure of the magnetosphere Similar advances in the modeling of neutral atmospheric circulation suggest an emergent capability to globally treat the coupling between plasma and neutral gases Simultaneously computer simulation has proven to be a very useful tool for understanding magnetospheric behaviors on smaller space and time scales     **The Scientific Satellite Programme during the International Magnetospheric Study** K. Knott, B. Battick, 2012-12-06 The 10th ESLAB Symposium was held at Grossenzersdorf near Vienna on 10-13 June 1975 under the title The Scientific Satellite Programme During the International Magnetospheric Study The Symposium was attended by an invited audience of 60 scientists from the ESA Member States the United States Japan Canada and Austria Following a report by the joint COSPAR IUCSTP Special Working Group the International Magnetospheric Study IMS is proposed as an international co-operative enterprise of limited duration having as its principal objective the achievement of a comprehensive quantitative understanding of the dynamical processes operating in the Earth's plasma and field environment In order to accomplish this objective it is thought to be necessary to carry out simultaneous measurements with nearly identical instrumentation at various points in space These measurements will need to be made in combination with appropriate observations at or near the Earth's surface Besides near Earth observations by ground-based rocket and balloon-borne instrumentation satellite investigations are expected to make an important contribution to the IMS A number of satellites assigned to magnetospheric research have recently been launched or will be launched shortly to be operational during the IMS The European Space Agency has devoted two of its forthcoming scientific satellites GEOS and ISEE B to magnetospheric and interplanetary research

*Contemporary Science and Technology of Plasma, Plasma '96*, 1998

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