



# Electromagnetic Coupling in the Polar Clefts and Caps

Edited by

P. E. Sandholt and A. Egeland

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# Electromagnetic Coupling In The Polar Clefts And Caps

**Liying Dong**



## **Electromagnetic Coupling In The Polar Clefts And Caps:**

**Electromagnetic Coupling in the Polar Clefts and Caps** Per Even Sandholt, A. Egeland, 2012-12-06 Proceedings of the NATO Advanced Research Workshop Lillehammer Norway September 20-24 1988 Dayside and Polar Cap Aurora Per Even Sandholt, H.C. Carlson, A. Egeland, 2002-06-30 The auroral emissions in the upper atmosphere of the polar regions of the Earth are evidence of the capture of energetic particles from the Sun streaming by the Earth as the solar wind. These auroral emissions then are a window to outer space and can provide us with valuable information about electrodynamic coupling processes between the solar wind and the Earth's ionosphere and upper atmosphere. Studying the physics of these phenomena extends our understanding of our plasma universe. Ground-based remote sensing techniques able to monitor continuously the variations in the signatures of aurorae in combination with in situ satellite and rocket measurements promise to advance dramatically our understanding of the physical processes taking place at the interface of the atmospheres of the Earth and the Sun. Decoding their complexity brings us closer to reliable prediction of communication environments especially at high latitudes. This understanding in turn will help us resolve problems of communication and navigation across polar regions. Polar Cap Boundary Phenomena Jørn Moen, A. Egeland, Michael Lockwood, 2012-12-06 These proceedings are based on the invited talks and selected research reports presented at the NATO Advanced Study Institute ASI on POLAR CAP BOUNDARY PHENOMENA held at Longyearbyen Svalbard June 4-13 1997. The role of the polar cap and its boundary is very substantial in solar terrestrial physics. At this NATO ASI a major change in thinking on the cusp precipitation region in the high latitude dayside upper atmosphere was reflected at least for intervals when the interplanetary magnetic field IMF is directed southward. It is likely that this has implications for northward IMF as well. The change comes from the now almost complete acceptance of the concept of magnetosheath particle entry along open magnetic field lines and the evolution of the precipitation into the upper atmosphere with time elapsed since magnetic reconnection which opened the field line. A key prediction of this view is that the low latitude boundary layer LLBL is on open field lines. **Physical Signatures of Magnetospheric Boundary Layer Processes** J.A. Holtet, A. Egeland, 2012-12-06 Summary of the NATO Advanced Research Workshop on Physical Signatures of Magnetospheric Boundary Layer Processes T. A. POTEMRA, M. I. PUDOVKIN, R. W. SMITH, V. M. VASYLIUNAS and A. EGELAND 451 PREFACE These proceedings are based on the invited talks and selected research reports presented at the NATO Advanced Workshop on PHYSICAL SIGNATURES OF MAGNETOSPHERIC BOUNDARY LAYER PROCESSES held at Sundvolden Hotel Norway 9-14 May 1993. The international political and scientific communities have gradually realized that the Earth's environment is more fragile than previously believed. This has led to the establishment of international research programmes directed toward the understanding of Global Change. The Earth's magnetosphere, the Earth space, is a part of our environment and physical processes in the magnetosphere and coupling between the solar energy stream, the solar wind and the Earth space are important in the complete understanding of our

environment Variations in the electromagnetic and particle energy output of the Sun have a significant effect on global changes The energy transfer mechanisms at the dayside magnetospheric boundary layers and their ionospheric signatures are perhaps even more important to solar terrestrial research than the night side processes in this connection The dayside boundary layers and the polar cusps are the Earth's windows to outer space The present NATO ARW was the latest in a series of conferences focused on dayside magnetospheric phenomena It is five years since the preceding Workshop on Electromagnetic Coupling in the Polar Clefts and Caps was held at Lillehammer in September 1988 Antarctic Journal of the United States ,1995 **AFOSR Chemical & Atmospheric Sciences Program Review** United States. Air Force. Directorate of Chemical and Atmospheric Sciences, *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 **Physics Briefs** ,1993 *Handbook of Atmospheric Electrodynamics (1995)* Hans Volland, 2017-11-22 The participation of such diverse scientific and technical disciplines as meteorology astronomy atmospheric electricity ionospheric and magnetospheric physics electromagnetic wave propagation and radio techniques in the research of atmospheric phenomena means that results are published in scientific papers widely spread throughout the literature This Handbook collects the latest knowledge on atmospheric phenomena and presents it in two volumes Each chapter is written by an expert in his or her field Topics include the physics of thunderclouds thunder global atmospheric electric currents biological aspects of spherics and various space techniques for detecting lightning within our own atmosphere as well as in the atmospheres of other planets Up to date applications and methodology are detailed Volumes I and II offer a comprehensive discussion that together will serve as an important resource for practitioners professionals and students alike *Alfvén Waves and Static Fields in Magnetosphere/ionosphere Coupling* David J. Knudsen, 1990 Perturbation electric and magnetic fields carry in excess of  $10^{10}$  to  $10^{12}$  W of electrical power between the magnetosphere and high latitude ionosphere Most of this power is generated by the solar wind The ionosphere at large spatial and temporal scales acts as a dissipative slab which can be characterized by its height integrated Pedersen conductivity  $\Sigma_p$  so that the power flux into the ionosphere due to a quasi static electric field  $E$  is given by  $\Sigma_p E^2$  The

energy transferred to the ionosphere by time varying electromagnetic fields in the form of Alfvén waves is more difficult to calculate because density and conductivity gradients can reflect energy. Thus field resonances and standing wave patterns affect the magnitude and altitude distribution of electrical energy dissipation. We use a numerical model to calculate the frequency dependent electric field reflection coefficient of the ionosphere and show that the ionosphere does not behave as a simple resistive slab for electric field time scales less than a few seconds. Time variation of spacecraft measured high latitude electric and perturbation magnetic fields is difficult to distinguish from spatial structuring that has been Doppler shifted to a non zero frequency in the spacecraft frame. However by calculating the frequency dependent amplitude and phase relations between fluctuating electric and magnetic fields we are able to show that low frequency fields Convection and Substorms

Charles F. Kennel, 1996-02-08 The magnetosphere is the region where cosmic rays and the solar wind interact with the Earth's magnetic field creating such phenomena as the northern lights and other aurorae. The configuration and dynamics of the magnetosphere are of interest to planetary physicists, geophysicists, plasma astrophysicists and to scientists planning space missions. The circulation of solar wind plasma in the magnetosphere and substorms have long been used as the principle paradigms for studying this vital region. Charles F. Kennel, a leading scientist in the field, here presents a synthesis of the convection and substorm literatures and an analysis of convection and substorm interactions. He also suggests that the currently accepted steady reconnection model may be advantageously replaced by a model of multiple tail reconnection events in which many mutually interdependent reconnections occur. Written in an accessible non mathematical style, this book introduces the reader to the exciting discoveries in this fast growing field. **Publications abstracts** Environmental Research Laboratories (U.S.), 1989 **Environmental Research Laboratories Publication Abstracts** Environmental Research Laboratories (U.S.), 1989 *Publication Abstracts* Environmental Research Laboratories (U.S.), 1988

*Environmental Research Papers*, 1994 *An Investigation of the Causes of Optical and Infrared Airglow Structures in the Mesosphere* Edmond M. Dewan, 1994 **Midlatitude Ionospheric Dynamics and Disturbances** Paul M. Kintner, Jr., Anthea J. Coster, Tim Fuller-Rowell, Antony J. Mannucci, Michael Mendillo, Roderick Heelis, 2013-05-03 Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 181. Filling the need for a 20 year lag in substantial consideration of the midlatitude ionosphere, this volume focuses on work that takes advantage of GPS and UV imaging from satellites over the past decade, two methods that have profoundly transformed our understanding of this stratum of the atmosphere. Its interdisciplinary content brings together researchers of the solar wind, magnetosphere, ionosphere, thermosphere, polar and equatorial ionospheres and space weather. Modeling and assimilative imaging of the ionosphere and thermosphere show for the first time the complex and global impact of midlatitude ionospheric storms. The editors invited the leading experts in the following areas to contribute the chapters herein: Characterization of Midlatitude Storms, Electric Field Coupling From the Heliosphere and Inner Magnetosphere, Thermospheric Control of the Midlatitude

Ionosphere Ionospheric Irregularities Experimental Methods and New Techniques These themes were chosen to create a path for understanding the midlatitude ionosphere They continue to be largely valid and represent a coherent division of the subject matter They will be critical for understanding space weather during the upcoming solar maximum This book was inspired by the Chapman Conference of the same name held January 2007 **U.S. National Report 1987-1990**, 1991

Technical Reports Awareness Circular : TRAC., 1989-10 **Direct and Inverse Methods in Radar Polarimetry** W.M Boerner, Leonard A. Cram, William A. Holm, David E. Stein, Werner Wiesbeck, Wolfgang Keydel, Dino Giuli, Dag T. Gjessing, Frédéric A. Molinet, Hans Brand, 2013-11-09 This foreword deals exclusively with the planning organization and execution of the Workshop s scientific as well as cultural programs It is opened with a synopsis on how the global political changes that occurred immediately after the Workshop caused the delay in producing the proceedings followed by a brief exposition on need timeliness and importance of this second ARW in the field of electromagnetic imaging radar remote sensing and target versus clutter discrimination and an outline of the objectives An informal discussion about some of the organizational details a retrospective summary of events and a preview of the third workshop planned for 1993 September 19 25 is intended to recapture the spirit of this second NATO Advanced Research Workshop 1988 September 18 24 and will reveal how successful it was in comparison to the first of 1983 September 18 24 how its accomplishments may be appreciated and why a third and last workshop was requested by its participants to take place during 1993 September 19 25

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