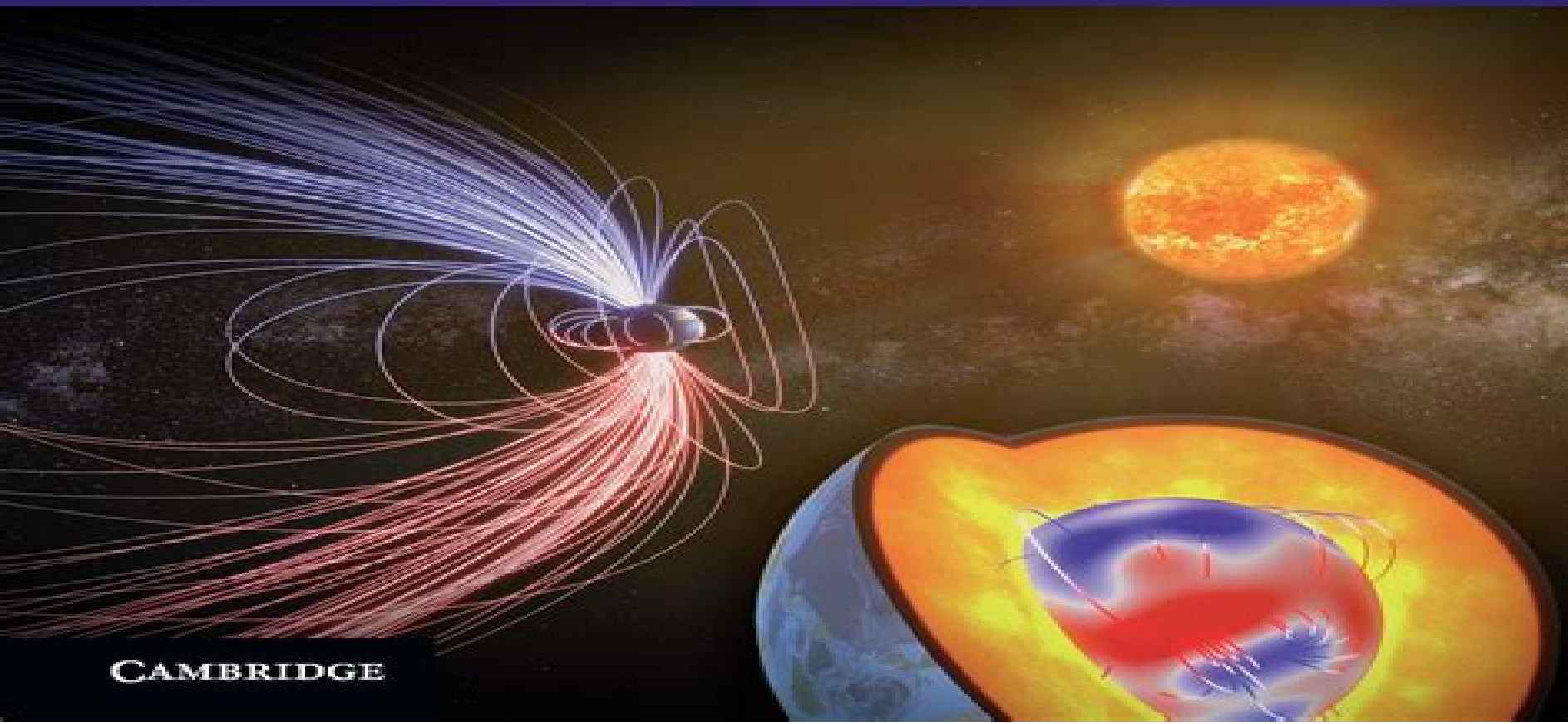


Geomagnetism, Aeronomy and Space Weather

A Journey from the Earth's Core to the Sun

Edited by Mioara Manda, Monika Korte,
Andrew Yau and Eduard Petrovský



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Geomagnetism Aeronomy

**Mioara Manda, Monika Korte, Andrew
Yau, Eduard Petrovsky**

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An interdisciplinary review of research in geomagnetism aeronomy and space weather written by eminent researchers from these fields *A Review of Geomagnetic Research in NOAA, 1971-1972* David Goodwin Knapp, 1972 *Nuclear Science Abstracts*, 1965 **Scientific and Technical Aerospace Reports**, 1974 **Electrical Properties of the Earth's Mantle** CAMPBELL, 2013-03-08 Table 1 Earth conductivity profiles Figure File Name Apx Depth Remarks References 1 Global Models 1939 69 LAPR39 0 1250 global Sq Dst LAHIRI and PRICE 1939 PRICE 1973 RIKI50 0 1400 misc data sources RIKITAKE 1950 1966 MCD057 0 2900 LAPR39 secular change McDoNALD 1957 CANT60 100 600 see ECKHARDT et a 1963 CANTWELL 1960 YUKU65 380 1900 ring current YUKUTAKE 1965 BANK69 0 1700 ring current BANKS 1969 1972 2 Global Models 1970 74 BFRS70 100 700 Sq Dst 27 d variations BERDICHEVSKY et a 1970 1973 PRKR70 0 3200 rework BANKS 1969 data PARKER 1970 SCJA72 0 1000 pulsations bays Sq Dst SCHMUCKER and JANKOWSKI 1972 BANK72 230 1250 model summary BANKS 1972 JADY74 0 2951 Sq 27 d annual variations JADY 1974 FAR074 300 1500 with BFRS70 FAINBERG and ROTANOVA 1974 SCHM74 0 1000 see HAAK 1980 SCHMUCKER 1974 DMRB77 0 1450 all available data DMITRIEV et al 1977 Global Models 1974 1983 3 PRKN74 60 430 Sq PARKINSON 1974 DUCM80 0 2900 annual means DUCRUIX et a 1980 ISIK80 320 2020 Sq Dst annual solar cycle ISIKARA 1980 ACMC81 0 2875 secular impulse ACACHE et a 1980 ROKI82 350 1200 various methods ROKITYANSKY 1982 JAPA83 0 1200 Dst JADY and PATERSON 1983 4 Pacific Models LAUN74 0 500 near Calif see DRURY 1978 LAUNAY 1975 LARSEN 1975 LAHA75 0 800 Hawaii 7 1350 FILL80 NE Pacific FILLoux 1980 LAW and GREENHOUSE LWGR81 0 200 Juan de Fuca 1981 0 250 Juan de Fuca OLDENBURG et a 1984 OLJA84 OLCA84 0 250 near Calif OLDENBURG et al 1984 OLNC84 0 250 N cent Pacific OLDENBURG et ai **Middle Atmosphere Program: Extended abstracts from International Symposium on Middle Atmosphere Dynamics and Transport, July 28-August 1, 1980, Urbana, Illinois**, 1981 **Problems of Geocosmos—2022** Andrei Kostorov, Evgeniya Lyskova, Irina Mironova, Sergey Apatenkov, Sergey Baranov, 2023-10-31 Problems of Geocosmos conference proceedings series provide a snapshot of current research in a broad area of Earth Sciences carried out in Russia and elsewhere Themes covered include solar physics physics of magnetosphere ionosphere and atmosphere solar terrestrial coupling links seismology and geodynamics paleomagnetism and rock magnetism as well as cross disciplinary studies The proceedings are carefully edited providing a panoramic outlook of a broad area of Earth Sciences The readership includes colleague researchers students and early career scientists The proceedings will help the readers to look at their research fields from various points of view Problems of Geocosmos conferences are held by Earth Physics Department St Petersburg University bi annually since 1994 It is one of the largest forums of this kind in Russia former Soviet Union attracting up to 200 researchers in Earth and magnetospheric physics Report UAG., 1973 **Generation-to-Generation**

Communications in Space Physics Joseph E. Borovsky, Elena E. Grigorenko, Jorge Luis Chau, Yoshizumi Miyoshi, Maria Usanova, Georgia Adair De Nolfo, Antonella Greco, Noora Partamies, 2023-06-08 *NOAA Technical Report ERL*. United States. National Oceanic and Atmospheric Administration, 1972 **Twilight** Grzegorz V. Rozenberg, 2013-12-11 Cosmic Rays in the Earth's Atmosphere and Underground Lev Dorman, 2013-03-19 The present monograph as well as the next one Dorman M2005 is a result of more than 50 years working in cosmic ray CR research After graduation in December 1950 Moscow Lomonosov State University Nuclear and Elementary Particle Physics Division the Team of Theoretical Physics my supervisor Professor D I Blokhintsev planned for me as a winner of a Red Diploma to continue my education as an aspirant a graduate student to prepare for Ph D in his very secret Object in the framework of what was in those time called the Atomic Problem To my regret the KGB withheld permission and I together with other Jewish students who had graduated Nuclear Divisions of Moscow and Leningrad Universities and Institutes were faced with a real prospect of being without any work It was our good fortune that at that time there was being brought into being the new Cosmic Ray Project what at that time was also very secret but not as secret as the Atomic Problem and after some time we were directed to work on this Project It was organized and headed by Prof S N Vernov President of All Union Section of Cosmic Rays and Prof N V Pushkov Director of IZMIRAN Prof E L Feinberg headed the theoretical part of the Project **ESSA Technical Report ERL-ESL**, 1972 *NOAA Technical Report ERL*, 1972 **ESL**, 1972 **New Insights into High-Energy Processes on the Sun and Their Geospace Consequences** Xiangliang Kong, Jing Liu, Gang Li, 2025-02-21 The Sun releases an enormous amount of energy during explosive solar activities such as solar flares and coronal mass ejections The solar corona can be heated up to tens of millions of degrees and a large number of charged particles can be accelerated to nearly the speed of light Heated plasmas and high energy particles increase solar radiations across the whole electromagnetic spectrum from radio to gamma ray wavelengths which can have a profound effect on the Earth's upper atmosphere immediately after about eight minutes These create additional ionization and heating in the Earth's upper atmosphere leading to radio blackout GNSS signal interferences and tracking loss increased drag on spacecraft etc Recent studies have demonstrated that the effects can extend to the Earth's magnetosphere via electrodynamic coupling When the high energy particles propagate through the interplanetary medium and arrive at the vicinity of the Earth known as solar energetic particle SEP events they can pose hazardous radiation threats to astronauts and spacecraft electronics in space *Aerospace Medicine and Biology*, 1974 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA Microseismic and Infrasonic Waves V. N. Tabulevich, 1992 **Cosmic Research**, 1993 Bulletin of the Russian Academy of Sciences, 1995

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