

# Solar And Heliospheric Observatory

Richard Hantula,Isaac Asimov

*The First Results from SOHO* Bernhard Fleck, Zdenek Svestka, 2012-12-06 The Solar and Heliospheric Observatory (SOHO) is a joint ESA/NASA mission to study the Sun, from its deep core to the outer corona, and the solar wind. SOHO was launched on 2 December 1995 and was inserted into a halo orbit around the L1 Lagrangian point on 14 February 1996. From this vantage point it is continuously monitoring the Sun, the heliosphere, and the solar wind particles that stream toward the Earth. Nominal operations of the SOHO mission started in April 1996 after commissioning of the spacecraft and the scientific payload. Detailed descriptions of the twelve instruments, which represent the most comprehensive set of solar and heliospheric instruments ever developed and placed on the same platform, can be found in *The SOHO Mission* (Solar Physics, Vol. 162, Nos. 1-2, 1995). This volume contains papers reporting the first scientific results from the SOHO mission as well as descriptions of the in-flight performance of some of the instruments, published in two parts of a Solar Physics special (Part I in Solar Physics, Vol. 170, No. 1; Part II in Solar Physics, Vol. 175, No. 2). Unique data from the three helioseismology instruments (GOLF, VIRGO, MDI/SOI) provide new insights into the structure and dynamics of the solar interior, from the deep core to the outermost layers of the convection zone. The remote sensing instruments (SUMER, CDS, EIT, LASCO, UVCS, SWAN) present exciting new data on a wide range of topics such as transition region dynamics, coronal plumes, coronal holes, streamers, and coronal mass ejections, giving us our first comprehensive view of the outer solar atmosphere and corona. These data are complemented by energetic particle measurements produced by the ERNE instrument on board SOHO.

*The SOHO Mission* Bernhard Fleck, Vicente Domingo, Arthur I. Poland, 2012-12-06 SOHO, the Solar and Heliospheric Observatory, is a project of international cooperation between ESA and NASA to study the Sun, from its deep core to the outer corona, and the solar wind. To achieve its scientific goals it carries a complement of twelve sophisticated, state-of-the-art instruments. Three helioseismology instruments are expected to provide unique data for the study of the structure and dynamics of the solar interior, from the very deep core to the outermost layers of the convection zone. A set of five complementary remote sensing instruments, consisting of EUV and UV imagers, spectrographs and coronagraphs, will give us our first comprehensive view of the outer solar atmosphere and corona, leading to a better understanding of the enigmatic coronal heating and solar wind acceleration processes. Finally, three experiments will complement the remote sensing observations by making in-situ measurements of the composition and energy of the solar wind and charged energetic particles. This volume contains detailed descriptions of all the twelve instruments on board SOHO. Also included are an overview paper and a description of the SOHO ground system, science operations and data products. The aim of these papers is to make the broader scientific community, and in particular potential guest investigators, aware of the scientific objectives and capabilities of the SOHO payload and to provide a reference document for the various instruments.

SOHO European Space Agency, 2015

SOHO European Space Agency, Jouko Lehmuskallio, Paal Brekke, B. Fleck, 2000\*

**Coronal Holes and Solar Wind Acceleration** John L. Kohl, Steven R. Cranmer, 2013-11-09 The SOHO-7 Workshop was held from 28 September through 1 October 1998 at the Asticou Inn in Northeast Harbor, Maine. The primary topic of this Workshop was the impact of SOHO observations on our understanding of the nature and evolution of coronal holes and the acceleration and composition of the solar wind. The presentations and discussions occasionally went beyond this topic to include the impact of the reported research on other solar structures and the heliosphere. SOHO (the Solar and Heliospheric Observatory), a project of international cooperation between ESA and NASA, was launched in December 1995 and began its science operations during the first few months of 1996. To many solar and space physicists, it was a great advantage that SOHO began its comprehensive look at the Sun during the 1996 solar minimum. The qualitatively simple two-phase corona, with polar coronal holes expanding into the high-speed solar wind, and a steady equatorial streamer belt related somehow to the stochastic slow-speed solar wind, allowed various SOHO diagnostics to be initiated with a reasonably well understood circumsolar geometry. The analysis of subsequent SOHO measurements made during the rising phase of solar cycle 23 will continue to benefit from what has been learned from the first two years of data.

**Solar-terrestrial Magnetic Activity and Space Environment** H. Wang, Ronglan L. Xu, 2002-11-20 The COSPAR Colloquium on Solar-Terrestrial Magnetic Activity and Space Environment (STMASE) was held in the National Astronomy Observatories of Chinese Academy of Sciences (NAOC) in Beijing, China in September 10-12, 2001. The meeting was focused on five areas of the solar-terrestrial magnetic activity and space environment studies, including study on solar surface magnetism; solar magnetic activity, dynamical response of the heliosphere; space weather prediction; and space environment exploration and monitoring. A hot topic of space research, CMEs, which are widely believed to be the most important phenomenon of the space environment, is discussed in many papers. Other papers show results of observational and theoretical studies toward better understanding of the complicated image of the magnetic coupling between the Sun and the Earth, although little is still known little its physical background. Space weather prediction, which is very important for a modern society expanding into out-space, is another hot topic of space research. However, a long way is still to go to predict exactly when and where a disaster will happen in the space. In that sense, there is much to do for space environment exploration and monitoring. The manuscripts submitted to this Monograph are divided into the following parts: (1) solar surface magnetism, (2) solar magnetic activity, (3) dynamical response of the heliosphere, (4) space environment exploration and monitoring; and (5) space weather prediction. Papers presented in this meeting but not submitted to this Monograph are listed by title as unpublished papers at the end of this book.

*Data Reduction and Analysis from the Soho Spacecraft* National Aeronautics and Space Administration (NASA), 2018-05-30 This paper presents a final report on Data Reduction and Analysis from The SOHO Spacecraft from November 1, 1996-October 31, 1999. The topics include: 1) Instrumentation; 2) Health of Instrument; 3) Solar Wind Web Page; 3) Data Analysis; and 4) Science. This paper also includes appendices describing routine SOHO (Solar and Heliospheric Observatory) tasks, SOHO Science Procedures in the UMTOF (University Mass Determining Time-of-Flight) System, SOHO Programs on UMTOF and a list of publications. Ipavich, F. M. Goddard Space Flight Center DATA REDUCTION; SOHO MISSION; TIME OF FLIGHT SPECTROMETERS; SPACECRAFT INSTRUMENTS; ISOTOPE RATIOS; SOLAR WIND; HELIOSPHERE; FLIGHT OPERATIONS

*The Cluster and Phoenix Missions* C.P. Escoubet, R. Schmidt, C.T. Russell, 2012-12-06 Cluster was one of the two missions - the other being the Solar and Heliospheric Observatory (SOHO) - constituting the Solar Terrestrial Science Programme (STSP), the first 'cornerstone' of ESA's Horizon 2000 Programme. After the catastrophic Ariane-5 accident on 4 June 1996 which destroyed the four Cluster spacecraft, the European Space Agency Science Programme Committee gave approval to refurbish the spare Cluster spacecraft and make it ready for flight. This new spacecraft, considered to be the first of a new fleet, is called Phoenix. In the meantime various options to repeat the Cluster four-point measurements are being studied. Since Phoenix, as the fifth Cluster spacecraft, will be equipped with the spare Cluster experiments, the instrumentation articles in this book are still appropriate to the new mission. Furthermore, the objectives of the recovery mission, the ground systems, the ground observation program and the theory and modelling efforts all remain unchanged. Thus this series of articles will continue to be essential to the Cluster community and to the general scientific community as the recovery mission is implemented.

**Soho Mission Interruption Joint Nasa/ESA Investigation Board** National Aeronautics and Space Administration (NASA), 2018-07-11 Contact with the Solar Heliospheric Observatory (SOHO) spacecraft was lost in the early morning hours of June 25, 1998, Eastern Daylight Time (EDT), during a planned period of calibrations, maneuvers, and spacecraft reconfigurations. Prior to this the SOHO operations team had concluded two years of extremely successful science operations. A joint European Space Agency (ESA)/National Aeronautics and Space Administration (NASA) engineering team has been planning and executing recovery efforts since loss of contact with some success to date. ESA and NASA management established the SOHO Mission Interruption Joint Investigation Board to determine the actual or probable cause(s) of the SOHO spacecraft mishap. The Board has concluded that there were no anomalies on-board the SOHO spacecraft but that a number of ground errors led to the major loss of attitude experienced by the spacecraft. The Board finds that the loss of the SOHO spacecraft was a direct result of operational errors, a failure to adequately monitor spacecraft status, and an erroneous decision which disabled part of the on-board autonomous failure detection. Further, following the occurrence of the emergency situation, the Board finds that insufficient time was taken by the operations team to fully assess the spacecraft status prior to initiating recovery operations. The Board discovered that a number of factors contributed to the circumstances that allowed the direct causes

to occur. The Board strongly recommends that the two Agencies proceed immediately with a comprehensive review of SOHO operations addressing issues in the ground procedures, procedure implementation, management structure and process, and ground systems. This review process should be completed and process improvements initiated prior to the resumption of SOHO normal operations. Unspecified Center ...

**The Sun** Richard Hantula,Isaac Asimov,2002-08-02 A description of the sun, the star of our solar system, which includes information on its origin, physical composition, and characteristics, as well as on studies made of the sun by instruments and satellites.

Destination the Sun Giles Sparrow,2009-08-15 Describes the composition of the Sun, how it was formed, the solar cycle, and sunspots.

**Sun, Earth and Sky** Kenneth R. Lang,2007-12-31 Written in a light and friendly style, this lavishly illustrated book introduces the Sun and its physics, and describes all aspects of the Sun’s interaction with us on Earth. The second edition of this book updates the popular text by providing comprehensive accounts of the most recent discoveries made by five modern solar spacecraft during the past decade. It contains a number of images never before seen in print. Breakthrough observations with the underground Sudbury Neutrino Observatory are also included. The new edition further provides modern interpretations of ozone depletion and global warming.

**Solar and Galactic Composition** Robert F. Wimmer-Schweingruber,2001-12-07 Measurements of the composition of various bodies and particles in the solar system and the galaxy give us a remarkably accurate understanding of how the galaxy or the solar system formed. This workshop joined the various communities concerned with the composition of the Sun and its surroundings. It united workers from two very active space missions, the Solar and Heliospheric Observatory (SOHO) and the Advanced Composition Explorer (ACE). It was not limited to scientists analyzing and interpreting data gathered with instruments on these two spacecraft, but was open to the wider community. Topics include: solar and solar system abundances; coronal and solar wind composition; energetic particle composition; galactic composition; fractionation, acceleration, and transport processes; as well as applications and constraints on cosmochemistry.

Solar Electromagnetic Radiation Study for Solar Cycle 22 Judit M. Pap,Claus Fröhlich,Roger K. Ulrich,2012-12-06 Measurements of solar irradiance, both bolometric and at various wavelengths, over the last two decades have established conclusively that the solar energy flux varies on a wide range of time scales, from minutes to the 11-year solar cycle. The major question is how the solar variability influences the terrestrial climate. The Solar Electromagnetic Radiation Study for Solar Cycle 22 (SOLERS22) is an international research program operating under the auspices of the Solar-Terrestrial Energy Program (STEP) Working Group 1: ‘The Sun as a Source of Energy and Disturbances’. STEP is sponsored by the Scientific Committee of Solar-Terrestrial Physics (SCOSTEP) of the International Council of Scientific Unions (ICSU). The main goal of the SOLERS22 1996 Workshop was to bring the international research community together to review the most recent results obtained from observations, theoretical interpretation, empirical and physical models of the variations in the solar energy flux and their possible impact on climate studies. These questions are essential for researchers and graduate students in solar-terrestrial physics.

**The Sun as a Guide to Stellar Physics** Oddbjørn Engvold,Jean-Claude Vial,Andrew Skumanich,2018-11-15 The Sun as a Guide to Stellar Physics illustrates the significance of the Sun in understanding stars through an examination of the discoveries and insights gained from solar physics research. Ranging from theories to modeling and from numerical simulations to instrumentation and data processing, the book provides an overview of what we currently understand and how the Sun can be a model for gaining further knowledge about stellar physics. Providing both updates on recent developments in solar physics and applications to stellar physics, this book strengthens the solar–stellar connection and summarizes what we know about the Sun for the stellar, space, and geophysics communities. Applies observations, theoretical understanding, modeling capabilities and physical processes first revealed by the sun to the study of stellar physics Illustrates how studies of Proxima Solaris have led to progress in space science, stellar physics and related fields Uses characteristics of solar phenomena as a guide for understanding the physics of stars

*The Sun-* Michael D. Cole,2001 Describes the physical properties of the Sun, its relation to the other bodies in space, and its direct influence on life on Earth.

**The SOHO Mission** V. Domingo,1989

The Sun and Its Role in the Heliosphere COSPAR. Scientific Commission E. E2.2 Symposium,1997 Paperback. The Heliosphere is a large volume of space dominated by the expanding solar atmosphere. Spacecraft at 60 Astronomical Units from the Sun (1 Astronomical Unit = 150 Million Kilometers) have not yet encountered the boundary where the Heliosphere ends and interstellar space begins. This publication contains 22 papers, most observational, some theoretical, on heliospheric topics. Most of the observations reported are either from the recently commissioned SOHO (Solar and Heliospheric Observatory) spacecraft or from the Ulysses spacecraft which had completed the first ever polar orbit of the Sun. The SOHO based papers include the first observations of the extended solar corona in the ultraviolet domain, which allow a description of the plasma velocities distribution in the region where solar wind is accelerated, and 'in situ' energetic particles result. The Ulysses based papers include descriptions of how the solar wind parameters (velocity, momentum

The Complete Idiot's Guide to the Sun Jay M. Pasachoff,2003 No Marketing Blurb

**SOHO Mission Interruption Joint NASA/ESA Investigation Board** ,1998 Contact with the SOLar Heliospheric Observatory (SOHO) spacecraft was lost in the early morning hours of June 25, 1998, Eastern Daylight Time (EDT), during a planned period of calibrations, maneuvers, and spacecraft reconfigurations. Prior to this the SOHO operations team had concluded two years of extremely successful science operations. A joint European Space Agency (ESA)/National Aeronautics and Space Administration (NASA) engineering team has been planning and executing recovery efforts since loss of contact with some success to date. ESA and NASA management established the SOHO Mission Interruption Joint Investigation Board to determine the actual or probable cause(s) of the SOHO spacecraft mishap. The Board has concluded that there were no anomalies on-board the SOHO spacecraft but that a number of ground errors led to the major loss of attitude experienced by the spacecraft. The Board finds that the loss of the SOHO spacecraft was a direct result of operational errors, a failure to adequately monitor spacecraft status, and an erroneous decision which disabled part of the on-board autonomous failure detection. Further, following the occurrence of the emergency situation, the Board finds that insufficient time was taken by the operations team to fully assess the spacecraft status prior to initiating recovery operations. The Board discovered that a number of factors contributed to the circumstances that allowed the direct causes to occur. The Board strongly recommends that the two Agencies proceed immediately with a comprehensive review of SOHO operations addressing issues in the ground procedures, procedure implementation, management structure and process, and ground systems. This review process should be completed and process improvements initiated prior to the resumption of SOHO normal operations.

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