



# Solar Flare

**B.V. Somov**



## **Solar Flare:**

*Nuclear Science Abstracts* ,1975      **Solar Flares** Whitley Strieber,2012-12-11 There is a force out there that could destroy our world in minutes Solar flares brief bursts of radiation from our sun have always existed and have never been particularly dangerous Nature hasn't changed But we have By making our world so dependent on electricity delivered by huge unprotected power grids we have inadvertently placed humanity at terrible risk As bestselling author Whitley Strieber explores in this urgent new work a powerful solar flare could demolish our electrical delivery system wiping away centuries of civilization in minutes and drastically changing our world Such a scenario is altogether plausible and it is the single most dangerous single thing that could happen to our civilization more dangerous than the most massive earthquake or volcano more dangerous than climate change more dangerous even than nuclear war What is worse solar flares of a now dangerous intensity are not all that uncommon and not only that our electrical and electronic infrastructure is becoming so extensive and thus so fragile that smaller and smaller solar flares can pose more and more serious hazards Due to the astonishing unwillingness of power companies to cooperate good programs that would make us safer and that are supported by both political parties have been routinely prevented from being enacted In *Solar Flares What You Need to Know* Strieber reveals the dangers behind solar flares tracks the disastrous damage they could cause surveys what they would do to our world in the here and now and explains what nations and individuals must do to prepare for them      **Solar Flares** Zdenek Svestka,2012-12-06 This book is the first part of the originally planned publication by Z Svestka and L D de Feiter *Solar High Energy Photon and Particle Emission* The second part with the original title was to be published by de Feiter in about one year from now However to the deep sorrow of all of us Dr de Feiter died suddenly and unexpectedly when the present book was in print Thus unfortunately de Feiter's second part may not appear Due to the fact that the originally planned publication was divided into two parts the present book is mainly descriptive and concerned with the flare morphology It was expected that theoretical interpretations would be extensively developed in the second part prepared by de Feiter In particular this refers to the theoretical backgrounds of radio emissions particle acceleration and particle propagation in space Only in Chapter II concerning the low temperature flare do we go deeper into the theoretical interpretations anticipating that de Feiter would have been concerned mainly with the high energy physics Still the book includes discussions on all important aspects of flares and thus can present the reader with a complete picture of the complex flare phenomenon It is clear that many observed data on flares can be interpreted in different ways      **Energy Research Abstracts** ,1977 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject

report number indexes      *Constructing Solar Flare Events by Computer* Hans J. E. Fischer, 1969 A computer program has been developed which processes and groups individual observations of solar flares which describe the same feature From each group of observations a consolidated description of the flare event is produced The report details the methods by which these groups are formed and the subsequent consolidated descriptions achieved Author      *Collected and Corrected Solar Flare Reports, 1955-1964* Hans J. E. Fischer, 1966 The flare data were compiled primarily from the flare lists of the IAU Quarterly Bulletin and a magnetic tape obtained from the Institute for Telecommunication Sciences and Aeronomy ITSA This tape was assembled from the CRPL F Part B series 1955 through 1964 and included sub flare reports Altogether 84 600 reports were compiled In preparing the revised tape tests were made for errors that were introduced at various stages in the handling of the data Some errors were detected by comparing the entries for flare time position and importance of the flare reports found in both the CRPL and IAU flare lists Only slightly more than one third of all reports were so compared but these included practically all flares of importance or 1 during the period 1955 through 1962 Errors in reported flare areas were detected by matching reports between the two flare lists and by testing the areas as a function of central distance This check uncovered flare reports in which the measured and corrected areas were reversed Other errors were detected by checking for consistency of the information within each flare report These various tests disclosed a 12.5 percent error in the flare reports of the CRPL F Part B series and an 11.2 percent error in the Quarterly Bulletin flare list After correction of all identified errors the revised magnetic tape listing may still contain a 5 percent error Most of these discrepancies are in the sub flare reports      **Solar Flare Occurrence as a Function of Sunspot Size** Isadore Enger, 1966 An objective technique has been developed for assessing the probability of occurrence of solar flares in a particular sunspot group given only the sizes of the sunspot group on two consecutive days The sunspot data cover the 10 year period 1955 to 1964 and have been published in the Greenwich Photoheliographic Results The flare data were measured at Sacramento Peak New Mexico The flare and spot data were combined by a simple objective technique which depends only on the size of the spot group and the relative positions of the spot group and flare These results show the very marked dependence of flare occurrence on the size of the spot group and a significant but very much smaller dependence on the change in group size from one day to the next Author      **Ionospheric Effects of Solar Flares** A. P. Mitra, 1974      *Physical Processes in Solar Flares* B.V. Somov, 1991-12-31 Solar flares are very complex electromagnetic phenomena of a cataclysmic nature Particles are accelerated to very high velocities and a variety of physical processes happen inside and outside flares These processes can be studied by a large number of techniques from Earth and from space The aim is to discover the physics behind solar flares This goal is complicated because information about the flare mechanism can be obtained only in an indirect way by studying the secondary effects This book provides three stages in the solution of the solar flare problem Chapter one describes the connection between observational data and theoretical concepts where it is stressed that next to investigating flares the

related non stationary large scale phenomena must be studied as well The second chapter deals with secondary physical processes in particular the study of high temperature plasma dynamics during impulsive heating The last chapter presents a model built on the knowledge of the two previous chapters and it constructs a theory of non neutral turbulent current sheets The author believes that this model will help to solve the problem of solar flares For solar physicists plasma physicists high energy particle physicists

*INIS Atomindex*, 1985

**A Statistical Summary of Solar Flare Reports and Observatory Practices for the Period 1955-1964** Delos C. Jensen, Hans J. E. Fischer, 1967 This is a summary of the ten years 1955-1964 of observations of solar flares reported by 61 observatories The flare reports have been published predominantly in the IAU Bulletin and CRPL F Series Part B This report summarizes the types of information contained in the flare reports and the frequency of some parts of these reports as functions of many parameters The results reflect the need for closer cooperation and coordination of participating observatories in recording and reporting solar flare data

*Solar Flare Survival* Marc Remillard, 2011-10-09 *Solar Flare Survival* We live only 8 light minutes from a massive tumultuous unpredictable star The Sun provides us with the energy to sustain life on our planet but that gift comes with a price There has been more intense solar activity in the last 50 years than there has been in the past 11 000 years As we approach the apexes of both the 11 year solar cycle and the longer Grand Solar Cycle our Sun is continuing to produce increasingly destructive storms A proton storm blasted from the Sun can travel as fast as 4 million miles per hour and have the energy of 100 billion atomic bombs In the last 20 years we have witnessed solar storms powerful enough to destroy most of the electronics on our planet and impact human health So far none of them have been pointed in our direction We now know that the question is not if a major event will occur But when *Solar Flare Survival* first discusses what our scientists have learned so far about the Sun and how it affects our planet Further chapters illustrate how the Sun can and has in the past wreaked havoc on worldwide national power grids spacecraft and electronics Key questions are discussed objectively drawing from some of the latest technology and current scientific studies How do solar flares affect the human body Can solar flares trigger earthquakes Is a Faraday cage that has been designed to withstand a geomagnetic storm adequate for an EMP attack as well Faraday cage theory design and construction for the common man Where to get current alerts and information about extreme space weather and how to understand them

*U.S. Government Research & Development Reports*, 1965

**Bibliography of Scientific and Industrial Reports**, 1965-07

**Physical Review**, 1929 Vols for 1903 include Proceedings of the American Physical Society

**An Objective Method for Forecasting Solar Flares** Donald F. Neidig, 1981

[Technical Information Pilot](#), 1951

**Solar Flare Magnetic Fields and Plasmas** Yuhong Fan, George Fisher, 2012-03-28 This volume is devoted to the dynamics and diagnostics of solar magnetic fields and plasmas in the Sun's atmosphere Five broad areas of current research in Solar Physics are presented 1 New techniques for incorporating radiation transfer effects into three dimensional magnetohydrodynamic models of the solar interior and atmosphere 2 The connection between observed radiation processes

occurring during flares and the underlying flare energy release and transport mechanisms 3 The global balance of forces and momenta that occur during flares 4 The data analysis and theoretical tools needed to understand and assimilate vector magnetogram observations and 5 Connecting flare and CME phenomena to the topological properties of the magnetic field in the Solar Atmosphere The role of the Sun's magnetic field is a major emphasis of this book which was inspired by a workshop honoring Richard C Dick Canfield Dick has been making profound contributions to these areas of research over a long and productive scientific career Many of the articles in this topical issue were first presented as talks during this workshop and represent substantial original work The workshop was held 9-11 August 2010 at the Center Green campus of the National Center for Atmospheric Research NCAR in Boulder Colorado This volume is aimed at researchers and graduate students active in solar physics solar terrestrial physics and magneto hydrodynamics Previously published in Solar Physics journal Vol 277 1 2012

**Rapport de la Commission Pour L'étude Des Relations Entre Les Phénomènes Solaires Et Terrestres** International Council of Scientific Unions. Commission for the Study of Solar and Terrestrial Relationships, 1929  
Reprint ,1915

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