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Nimbus-7 Total Ozone Mapping Spectrometer (TOMS) Data Products User's Guide **ADEOS Total Ozone Mapping Spectrometer (TOMS) Data Products User's Guide** *Earth Probe Total Ozone Mapping Spectrometer (TOMS) Data Product User's Guide User's Guide for the Total-Ozone Mapping Spectrometer (TOMS) Instrument First-year Ozone-T Data Set User's Guide for the Total-Ozone Mapping Spectrometer (TOMS) Instrument First Year Ozone T Data Set User's Guide for SBUV/TOMS Ozone Derivative Products Nimbus 7 Solar Backscatter Ultraviolet (SBUV) Ozone Products User's Guide* The 1987 Airborne Antarctic Ozone Experiment *NASA Reference Publication Nimbus-7 Total Ozone Mapping Spectrometer (TOMS) Data Products User's Guide Nimbus-7 Data Product Summary* **User's Guide for SBUV/TOMS Ozone Derivative Products** User's Guide to Saw Palmetto and Men's Health *Total Ozone Mapping Spectrometer (Toms) Level-3 Data Products User's Guide* User's Guide for the SBUV/TOMS Ozone Derivative Products **Nimbus-7 Total Ozone Mapping Spectrometer (Toms) Data Products User's Guide NASA Scientific and Technical Publications** Earth Probe Total Ozone Mapping Spectrometer (Toms) Data Product User's Guide User's Guide for the Solar Backscattered Ultraviolet (SBUV) and the Total Ozone Mapping Spectrometer (TOMS) RUT-S and RUT-T Data Sets **Ozone Evolution in the Past and Future User's Guide for the Solar Backscattered Ultraviolet (SBUV) Instrument First Year Ozone-S Data Set** *User's guide for the Solar Backscattered Ultraviolet (SBUV) instrument first-year ozone-S data set Adeos Total Ozone Mapping Spectrometer (Toms) Data Products User's Guide* **UV Radiation in Global Climate Change Monthly Catalog of United States Government Publications Monthly Catalogue, United States Public Documents Remote Sensing and Atmospheric Ozone Meteor Three Total Ozone Mapping Spectrometer (TOMS) Data Products User's Guide** *User's Guide for the Solar Backscattered Ultraviolet (SBUV) and the Total Ozone Mapping Spectrometer (TOMS) RUT-S and RUT-T Data Sets* **Total Ozone Mapping Spectrometer (TOMS)** Observing Systems for Atmospheric Composition **The Role of the Stratosphere in Global Change** Earth Probe Total Ozone Mapping Spectrometer (TOMS) Data Product User's Guide **Sparse Matrix Software Catalog AEDEOS Total Ozone Mapping Spectrometer (TOMS) Data Products User's Guide Nimbus-7 Total Ozone Mapping Spectrometer (TOMS) data products Scientific and Technical Aerospace Reports** Total Ozone Mapping Spectrometer (TOMS) Level-3 Data Prducts User's Guide Polar Remote Sensing *Nimbus-7 Total Ozone Mapping Spectrometer (TOMS)*

Two data products from the Total Ozone Mapping Spectrometer (TOMS) onboard Nimbus-7 have been archived at the Distributed Active Archive Center, in the form of Hierarchical Data Format files. The instrument measures backscattered Earth radiance and incoming solar irradiance; their ratio is used in ozone retrievals. Changes in the instrument sensitivity are monitored by a spectral discrimination technique using measurements of the intrinsically stable wavelength dependence of derived surface reflectivity. The algorithm to retrieve total column ozone compares measured Earth radiances at sets of three wavelengths with radiances calculated for different total ozone values, solar zenith angles, and optical paths. The initial error in the absolute scale for TOMS total ozone is 3 percent, the one standard deviation random error is 2 percent, and drift is less than 1.0 percent per decade. The Level-2 product contains the measured radiances, the derived total ozone amount, and reflectivity information for each scan position. The Level-3 product contains daily total ozone amount and reflectivity in a I - degree latitude by 1.25 degrees longitude grid. The Level-3 product also is available on CD-ROM. Detailed descriptions of both HDF data files and the CD-ROM product are provided. McPeters, Richard D. and Bhartia, P. K. and Krueger, Arlin J. and Herman, Jay R. and Schlesinger, Barry M. and Wellemeyer, Charles G. and Seftor, Colin J. and Jaross, Glen and Taylor, Steven L. and Swissler, Tom and Torres, Omar and Labow, Gordon and Byerly, William and Cebula, Richard P. Unspecified Center... The polar regions, perhaps more than any other places on Earth, give the geophysical scientist a sense of exploration. This sensibility is genuine, for not only is high-latitude ?eldwork arduous with many locations seldom or never visited, but there remains much fundamental knowledge yet to be discovered about how the polar regions interact with the global climate system. The range of opportunities for new discovery becomes strikingly clear when we realize that the high latitudes are not one region but are really two vastly di?erent worlds. The high Arctic is a frozen ocean surrounded by land, and is home to fragile ecosystems and unique modes of human habitation. The Antarctic is a frozen continent without regular human habitation, covered by ice sheets taller than many mountain ranges and surrounded by the Earth's most forbidding ocean. When we consider global change as applied to the Arctic, we discuss impacts to a region whose surface and lower atmospheric temperatures are near the triple point of water throughout much of the year. The most consistent signatures of climate warming have occurred at northern high latitudes (IPCC, 2001), and the potential impacts of a few degrees increase in surface temperature include a reduction in sea ice extent, a positive feedback to climate warming due to lowering of surface albedo, and changes to surface runo? that might a?ect the Arctic Ocean's salinity and circulation. The destruction of the ozone layer, together with global warming, is one of the hot environmental topics of today. This book examines the effect of human activities on atmospheric ozone, namely the increase of tropospheric ozone and the general diminution of stratospheric ozone and the production of the Antarctic ozone hole. Also discussed is the role of remote sensing techniques in the understanding of the effects of human activities on atmospheric ozone as well as in the development of social and political awareness of the damage to the ozone layer by man-made chemicals, principally CFCs. This led to the formulation and ratification in 1989 of the Montreal Protocol on controlling/banning the manufacture and use of chemicals that damage the ozone layer. Since then, remote sensing has played a key role in monitoring atmospheric ozone concentration and determining the success of the Montreal Protocol in protecting the ozone layer from further damage. In this book, the renowned authors discuss the sophisticated instruments that have been launched into space to study not only ozone but also other trace gases in the atmosphere, some of which play a key role in the generation and destruction of ozone in the atmosphere. Professors Cracknell and Varotsos also examine the satellite-flown instruments which are involved in monitoring the absorption of solar ultraviolet light in the atmosphere in relation both to the generation and destruction of ozone and consequently to human health. This scholarly book, written by the foremost experts in the field, looks at remote sensing and its employment in the various aspects of ozone science. It is widely acknowledged that global warming, due to anthropogenic greenhouse gases emissions, represents a threat to the sustainability of human life on Earth. However, many other threats are potentially just as serious, including atmospheric pollution, ozone depletion, water pollution, the degradation of agricultural land, deforestation, the depletion of the world's mineral resources and population growth. The stratospheric ozone is important for the protection of the biosphere from the dangerous ultraviolet radiation of the sun, forms the temperature and dynamical structure of the stratosphere, and, therefore, has a direct influence on the general circulation and the surface climate. The tropospheric ozone can damage the biosphere, impact human health, and plays a role as a powerful greenhouse gas. That is why the understanding of the past and future evolution of the ozone in different atmospheric layers, as well as its influence on surface UV radiation doses, and human health is important. The problems of preventing further destruction of the ozone layer, the restoration of the ozone shield in the future, and air quality remain important for society. The interest in these problems was recently enhanced by the unexpected discovery of a negative ozone trend in the lower stratosphere and the appearance of a large ozone hole over the Arctic in spring 2020. This book includes papers describing several aspects of the ozone layer's state and evolution based on the recent experimental, statistical, and modeling works. The book will be useful for readers, scientists, and students interested in environmental science. Scientists concerned with the processes occurring in the stratosphere are becoming more and more aware of the role that the stratosphere may play in the global climate and in global change in general. This book focuses on the basic processes taking place in the stratosphere and on the stratospheric changes which may occur from either natural or anthropogenic forcing. Of major concern here is the consequence of the increasing Antarctic Ozone Hole and the possibility of similar processes occurring at northern latitudes. One of the expected consequences of the change in the stratospheric composition, mainly ozone depletion, is the change in the penetration of UV-B in the troposphere, at the surface, and in the top layers of the ocean. Monitoring and modeling of those changes are still in infancy, even though the implications may be of utmost importance for the entire biosphere. Several aspects of these consequences with regard to aquatic ecosystems, terrestrial vegetation and human health are presented by experts in these fields. This software catalog was prepared in conjunction with the Sparse Matrix Symposium in Fairfield Glade, Tennessee, October 25-27, 1982. It is intended to provide information on computer software for sparse matrix problems which should be useful to software developers and consumers alike. The information provided includes the problem domain to which the software is applicable, the method of solution, language and portability details, references to documentation, and a contact for further information or acquiring the software. This information is reported by means of a form which was filled out by each contributor for each item of software. Numerous studies report that ultraviolet (UV) radiation is harmful to living organisms and detrimental to human health. Growing concerns regarding the increased levels of UV-B radiation that reach the earth's surface have led to the development of ground- and space-based measurement programs. Further study is needed on the measurement, modeling, and effects of UV radiation. The chapters of this book describe the research conducted across the globe over the past three decades in the areas of: (1) current and predicted levels of UV radiation and its associated impact on ecosystems and human health, as well as economic and social implications; (2) new developments in UV instrumentation, advances in calibration (ground- and satellite-based), measurement methods, modeling efforts, and their applications; and (3) the effects of global climate change on UV radiation. Dr. Wei Gao is a Senior Research Scientist and the Director of the USDA UV-B Monitoring and Research Program, Natural Resource Ecology Laboratory, Colorado State University. Dr. Gao is a SPIE fellow and serves as the Editor-in-Chief for the Journal of Applied Remote Sensing. Dr. Daniel L. Schmoldt is the National Program Leader for instrumentation and sensors at the National Institute of Food and Agriculture (NIFA) of the U.S. Department of Agriculture. Dr. Schmoldt served as joint Editor-in-Chief of the journal, Computers & Electronics in Agriculture, from 1997 to 2004. Dr. James R. Slusser retired in 2007 from the USDA UV-B Monitoring and Research Program at Colorado State University. He was active in the Society of Photo-Optical Instrumentation Engineers, the American Geophysical Union, and the American Meteorological Society. Dr. Slusser is currently pursuing his interests in solar energy and atmospheric transmission. Two data products from the Earth Probe Total Ozone Mapping Spectrometer (EP/TOMS) have been archived at the Distributed Active Archive Center, in the form of Hierarchical Data Format files. The EP/ TOMS began taking measurements on July 15, 1996. The instrument measures backscattered Earth radiance and incoming solar irradiance; their ratio is used in ozone retrievals. Changes in the reflectivity of the solar diffuser used for the irradiance measurement are monitored using a carousel of three diffusers, each exposed to the degrading effects of solar irradiation at different rates. The algorithm to retrieve total column ozone compares measured Earth radiances at sets of three wavelengths with radiances calculated for different total ozone values. The initial error in the absolute scale for TOMS total ozone is 3 percent, the one standard deviation random error is 2 percent, and the drift is less than 0.5 percent over the first year of data. The Level-2 product contains the measured radiances, the derived total ozone amount, and reflectivity information for each scan position. The Level-3 product contains daily total ozone and reflectivity in a 1-degree latitude by 1.25 degrees longitude grid. Level-3 files containing estimates of LTVB at the Earth surface and tropospheric aerosol information are also available, Detailed descriptions of both HDF data-files and the CD-ROM product are provided. McPeters, R. and Bhartia, P. K. and Krueger, A. and Herman, J. and Wellemeyer, C. and Seftor, C. and Jaross, G. and Torres, O. and Moy, L. and Labow, G. and Byerly, W. and Taylor, S. and Swissler, T. and Cebula, R. Goddard Space Flight Center... Two data products from the Total Ozone Mapping Spectrometer (ADEOS/TOMS) have been archived at the Distributed Active Archive Center, in the form of Hierarchical Data Format files. The ADEOS/ TOMS began taking measurements on September 11, 1996, and ended on June 29, 1997. The instrument measured backscattered Earth radiance and incoming solar irradiance; their ratio was used in ozone retrievals. Changes in the reflectivity of the solar diffuser used for the irradiance measurement were monitored using a carousel of three diffusers, each exposed to the degrading effects of solar irradiation at different rates. The algorithm to retrieve total column ozone compares measured Earth radiances at sets of three wavelengths with radiances calculated for different total ozone values, solar zenith angles, and optical paths. The initial error in the absolute scale for TOMS total ozone is 3 percent, the one standard deviation random error is 2 percent, and the drift is less than 0.5 percent over the 9-month data record. The Level 2 product contains the measured radiances, the derived total ozone amount, and reflectivity information for each scan position. The Level 3 product contains daily total ozone and reflectivity in a 1-degree latitude by 1.25 degrees longitude grid. The Level 3 files containing estimates of UVB at the Earth surface and tropospheric aerosol information will also be available. Detailed descriptions of both HDF data files and the CDROM product are provided. Krueger, A. and Bhartia, P. K. and McPeters, R. and Herman, J. and Wellemeyer, C. and Jaross, G. and Seftor, C. and Torres, O. and Labow, G. and Byerly, W. and Moy, L. and Taylor, S. and Swissler, T. and Cebula, R. Goddard Space Flight Center... "The Basic health publications user's guide series of pocket-size health guides tell you everything you need to know about foods, supplements, and the simple steps to follow for feeling better. [This book] even provides tips for talking with your doctor."--p. [4] of cover. Two data products from the Total Ozone Mapping Spectrometer (ADEOS/TOMS) have been archived at the Distributed Active Archive Center, in the form of Hierarchical Data Format files. Data from the TOMS series of instruments span the time period from November 1978, through the present with about a one and a-half year gap from January 1994 through July 1996. A set of four parameters derived from the TOMS measurements have been archived in the form of daily global maps or Level-3 data products. These products are total column ozone, effective surface reflectivity, aerosol index, and erythermal ultraviolet estimated at the Earth surface. A common fixed grid of I degree latitude by 1.25 degree longitude cells over the entire globe is provided daily for each parameter. These data are archived at the Goddard Space Flight Center Distributed Active Archive Center (DAAQ in Hierarchical Data Format (HDF). They are also available in a character format through the TOMS web site at http://toms.gsfc.nasa.gov. The derivations of the parameters, the mapping algorithm, and the data formats are described. The trend uncertainty for individual TOMS instruments is about 1% decade, but additional uncertainty exists in the combined data record due to uncertainty in the relative calibrations of the various TOMS.McPeters, Richard D. and Bhartia, P. K. and Krueger, Arlin J. and Herman, Jay R. and Wellemeyer, Charles G. and Seftor, Colin J. and Byerly, William and Celarier, Edward A.Goddard Space Flight CenterTOTAL OZONE MAPPING SPECTROMETER; AEROSOLS; REFLECTANCE; CALIBRATING; OZONE; ESTIMATING; ALGORITHMS; EARTH SURFACE One challenge in atmospheric chemistry is understanding the intercontinental transport and transformation of gases and aerosols. This book describes observational and modeling techniques used to understand atmospheric composition from satellites, aircraft and ground based platforms. Common ideas presented throughout are the role of each component in an observing system for atmospheric composition, and advances necessary to improve understanding of atmospheric composition.

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