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Microwave Radiation of the Ocean-Atmosphere

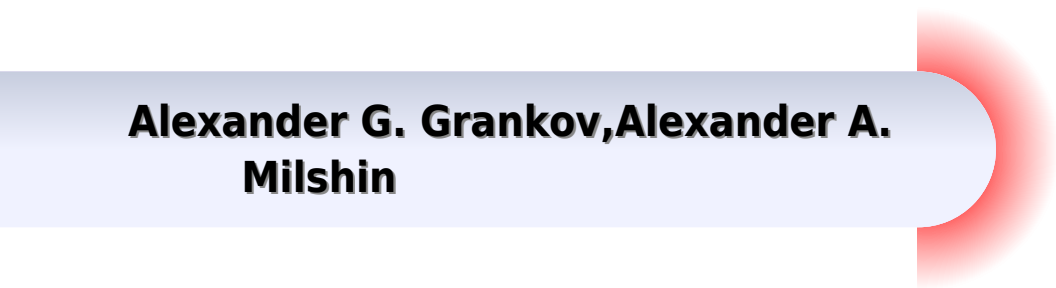
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Microwave Radiation Of The Ocean Atmosphere Boundary Heat And Dynamic Interaction

**Alexander G. Grankov, Alexander A.
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Microwave Radiation of the Ocean-Atmosphere Alexander G. Grankov, Alexander A. Milshin, 2015-12-18 The book describes different approaches to the analysis of heat and dynamic processes in the ocean atmospheric interface with satellite passive radiometric observations at microwaves It examines the feasibility of determining synoptic seasonal and year to year variations of sensible latent and momentum fluxes to a useful accuracy using the DMSP SSM I and EOS Aqua AMSR E data directly from the measured brightness temperatures An important object in the studies is the North Atlantic with emphasize on the areas with high midlatitude cyclon activity here the main results have been obtained by combining data from the vessel experiments NEWFOUEX 88 ATLANTEX 90 and the data of microwave radiometers from the DMSP and EOS Aqua satellites The role of vertical turbulent and horizontal advective heat transfer in forming interrelations between the brightness temperature of the system ocean atmosphere and surface heat fluxes in the range of synoptic time scales is analyzed Special sections of the book describe some results of analysis of reaction of the system ocean atmosphere on passing of the tropical cyclone Katrina August 2005 in the Florida Strait as well as a behavior of the system in the period of a time preceding to origination the cyclone Humberto September 2007 in the Mexico Gulf The long term goal of this research is the search for effects and regularities which can explain the reasons for the tropical cyclones appearance Some characteristics of the tropical cyclones brightness temperature and heat contrasts etc are compared with those for midlatitude cyclones At the same time as covering a key topic area with implications for global warming research this text is also usefull to students who want to gain insight into application of satellite microwave radiometric methods for studying the air sea interaction Key themes microwave radiometry air sea interaction midlatitude and tropical cyclones atmosphere boundary layer heat and momentum surface fluxes

Microwave Radiation of the Ocean-Atmosphere Alexander Grankov, Alexander Milshin, 2009-12-03 We will show in this monograph some possibilities of using the potential of satellite passive microwave radiometric methods for the analysis of variations of heat and dynamic processes in the ocean atmosphere interface in a wide range of time scales from mesometeorological hours daily to seasonal month and multiyear climatic ones The most essential mechanisms of intercommunication of natural microwave radiation of the system ocean atmosphere SOA with the vertical turbulence fluxes of sensible latent heat as well as the momentum at the boundary of the SOA are studied We will consider the turbulence heat fluxes as the factors generated by the c otic movements in the atmosphere when every small individual part of air is moved irregularly Here one can observe a transfer of the energy from large scale to sma scales the average distance between the air particles is increased with a time Also the potential of remote sensing the characteristics of heat and water adv tion and their accumulation in the atmosphere boundary layer are demonstrated In these studies we mean mainly the middle and high latitudes of the North Atlantic which are forming the weather conditions and climatic trends over Europe and European territories of the Russia

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Ocean-atmosphere Aleksandr Georgievich Grankov, Aleksandr Alekseevich Mil'shin, 2015 The book describes different approaches to the analysis of heat and dynamic processes in the ocean atmospheric interface with satellite passive radiometric observations at microwaves It examines the feasibility of determining synoptic seasonal and year to year variations of sensible latent and momentum fluxes to a useful accuracy using the DMSP SSM I and EOS Aqua AMSR E data directly from the measured brightness temperatures An important object in the studies is the North Atlantic with emphasize on the areas with high midlatitude cyclon activity here the main results have been obtained by combining data from the vessel experiments NEWFOUEX 88 ATLANTEX 90 and the data of microwave radiometers from the DMSP and EOS Aqua satellites The role of vertical turbulent and horizontal advective heat transfer in forming interrelations between the brightness temperature of the system ocean atmosphere and surface heat fluxes in the range of synoptic time scales is analyzed Special sections of the book describe some results of analysis of reaction of the system ocean atmosphere on passing of the tropical cyclone Katrina August 2005 in the Florida Strait as well as a behavior of the system in the period of a time preceding to origination the cyclone Humberto September 2007 in the Mexico Gulf The long term goal of this research is the search for effects and regularities which can explain the reasons for the tropical cyclones appearance Some characteristics of the tropical cyclones brightness temperature and heat contrasts etc are compared with those for midlatitude cyclones At the same time as covering a key topic area with implications for global warming research this text is also usefull to students who want to gain insight into application of satellite microwave radiometric methods for studying the air sea interaction Key themes microwave radiometry air sea interaction midlatitude and tropical cyclones atmosphere boundary layer heat and momentum surface fluxes Microwave Radiation of the Ocean-Atmosphere Alexander G. Grankov, Alexander Milshin, 2010-04-30 We will show in this monograph some possibilities of using the potential of satellite passive microwave radiometric methods for the analysis of variations of heat and dynamic processes in the ocean atmosphere interface in a wide range of time scales from mesometeorological hours daily to seasonal month and multiyear climatic ones The most essential mechanisms of intercommunication of natural microwave radiation of the system ocean atmosphere SOA with the vertical turbulence fluxes of sensible latent heat as well as the momentum at the boundary of the SOA are studied We will consider the turbulence heat fluxes as the factors generated by the c otic movements in the atmosphere when every small individual part of air is moved irregularly Here one can observe a transfer of the energy from large scale to sma scales the average distance between the air particles is increased with a time Also the potential of remote sensing the characteristics of heat and water adv tion and their accumulation in the atmosphere boundary layer are demonstrated In these studies we mean mainly the middle and high latitudes of the North Atlantic which are forming the weather conditions and climatic trends over Europe and European territories of the Russia **Satellite Radiothermovision of Atmospheric Processes** Dmitry M. Ermakov, 2020-09-29 This book summarizes the author s research resulted in developing the satellite

radiothermovision approach which allows retrieving dynamical and energy characteristics of atmospheric mesoscale and synoptic scale processes based on a close scheme of satellite passive radiometry data processing The book introduces new applications of the satellite passive microwave observations to detailed systematic study of tropical cyclones evolution climatology and characteristics of atmospheric river parameters of global atmospheric circulation and their variations on climatically significant scales The results presented in the book demonstrate a clear relation between the convergence divergence of latent heat from the lower atmosphere to the center of tropical cyclone with variations of its intensity and provide a better insight into the tropical cyclone dynamical energy balance based on remote data **Constructive**

Processing of Microwave and Optical Data for Hydrogeochemical Applications Costas A. Varotsos,Vladimir F.

Krapivin,Ferdenant A. Mkrtchyan,Yong Xue,2023-05-24 This book presents results of the combined use of microwave remote sensing optical tools and ecoinformatics methods under solution applied tasks at both regional and global scales

Ecoinformatics methods are used to assess links between global climate change and the level of ocean pollution with specific focus on the Arctic Ocean the Sea of Okhotsk and the South China Sea The theoretical and applied aspects of instrumental tools are considered in this book as a basis for the monitoring of water quality in various watersheds with particular attention to microwave remote sensing monitoring data to determine the ecotoxicological status of hydro ecosystems affected by climate change The book develops new information technologies that provide solutions for hydrochemical tasks using algorithms and models based on computer technologies for big data processing This will help to synthesize effective computer based systems for the solution of problems arising due to anthropogenic impacts on hydrological processes and objects at various spatial scales This book is intended for specialists in the fields of environmental monitoring climate change human nature interactions and geopolitics The book will be useful for undergraduate and postgraduate students studying these fields of science as well Advances in Passive Microwave Remote Sensing of Oceans Victor Raizer,2017-03-27 This

book demonstrates the capabilities of passive microwave technique for enhanced observations of ocean features including the detection of sub surface events and or disturbances while laying out the benefits and boundaries of these methods It represents not only an introduction and complete description of the main principles of ocean microwave radiometry and imagery but also provides guidance for further experimental studies Furthermore it expands the analysis of remote sensing methods models and techniques and focuses on a high resolution multiband imaging observation concept Such an advanced approach provides readers with a new level of geophysical information and data acquisition granting the opportunity to improve their expertise on advanced microwave technology now an indispensable tool for diagnostics of ocean phenomena and disturbances Microwave Remote Sensing Tools in Environmental Science Costas A. Varotsos,Vladimir F.

Krapivin,2020-06-09 This book gives new insight to the study of the global environmental changes using the ecoinformatics and microwave remote sensing tools together with the adaptive evolutionary technology of geoinformation monitoring The

main advantage of this book consists in the accumulation of the interdisciplinary scientific knowledge for the parameterization of the global biogeochemical cycles and other environmental processes in the context of globalization and sustainable development In this regard the crucial global problems of the dynamics of the climate nature society system have been considered and the key problems of ensuring its sustainable development have been addressed An analysis of the present trend in changing ecological systems has been discussed including different types of forest ecosystems and ocean aquatories The emphasis has been given to the accomplishment of the global geoinformation monitoring which could provide a reliable control of the environmental processes development with reliable prognostic estimates of the consequences of human activities A new approach to the numerical modelling of the climate nature society system has been presented and demonstrative results have been given about the modelling of the dynamics of this system s characteristics in cases of realization of some scenarios of the anthropogenic impacts to the biogeochemical cycles the land ecosystems and oceans Methods and algorithms for the big data manipulation and processing in the remote sensing environmental monitoring systems have been described *New Ecoinformatics Tools in Environmental Science* Vladimir F. Krapivin, Costas A. Varotsos, Vladimir Yu. Soldatov, 2015-01-24 This book provides new insights on the study of global environmental changes using the ecoinformatics tools and the adaptive evolutionary technology of geoinformation monitoring The main advantage of this book is that it gathers and presents extensive interdisciplinary expertise in the parameterization of global biogeochemical cycles and other environmental processes in the context of globalization and sustainable development In this regard the crucial global problems concerning the dynamics of the nature society system are considered and the key problems of ensuring the system s sustainable development are studied A new approach to the numerical modeling of the nature society system is proposed and results are provided on modeling the dynamics of the system s characteristics with regard to scenarios of anthropogenic impacts on biogeochemical cycles land ecosystems and oceans The main purpose of this book is to develop a universal guide to information modeling technologies for assessing the function of environmental subsystems under various climatic and anthropogenic conditions [Remote Sensing of Turbulence](#) Victor Raizer, 2021-10-03 This book offers a unique multidisciplinary integration of the physics of turbulence and remote sensing technology Remote Sensing of Turbulence provides a new vision on the research of turbulence and summarizes the current and future challenges of monitoring turbulence remotely The book emphasizes sophisticated geophysical applications detection and recognition of complex turbulent flows in oceans and the atmosphere Through several techniques based on microwave and optical IR observations the text explores the technological capabilities and tools for the detection of turbulence their signatures and variability FEATURES Covers the fundamental aspects of turbulence problems with a broad geophysical scope for a wide audience of readers Provides a complete description of remote sensing capabilities for observing turbulence in the earth s environment Establishes the state of the art remote sensing techniques and methods of data analysis for

turbulence detection Investigates and evaluates turbulence detection signatures their properties and variability Provides cutting edge remote sensing applications for space based monitoring and forecasts of turbulence in oceans and the atmosphere This book is a great resource for applied physicists the professional remote sensing community ecologists geophysicists and earth scientists **Marine Research** ,1969 Marine Research, 1973 United States. National Oceanic and Atmospheric Administration,1973 **Marine Research, Fiscal Year 1968** National Council on Marine Resources and Engineering Development (U.S.),1969 **Oceanic Abstracts with Indexes** ,1987 **Oceanic Abstracts** ,1997-10
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