

Alexander G. Grankov
Alexander A. Milshin

Microwave Radiation of the Ocean-Atmosphere

Boundary Heat and Dynamic Interaction

Second Edition



Springer

Microwave Radiation Of The Ocean Atmosphere Boundary Heat And Dynamic Interaction

**Vladimir F. Krapivin, Costas A.
Varotsos, Vladimir Yu. Soldatov**

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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 mesometeorogical 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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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 Advances in Passive Microwave Remote Sensing of Oceans Victor

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