

GLOBAL MECHANISMS IN ATMOSPHERE MODELS AND A BALANCE OF THE EARTH ANGLE MOMENT: ATMOSPHERE RADIO-WAVEGUIDES AND TELECONNECTION

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The satellite data and data of observing the radio-waveguide parameters (especially in the low troposphere layers) by means of radio-technical devices (in the ultra short-wave diapason) is the informative basis of the modern atmosphere long-termed forecasts. As any water quantities in atmosphere are formed on the basis of the cycle- and front-genesis (or in the convective non-stability lines) one can introduce the corresponding model on the basis of thermodynamics and hydro-mechanics of the corresponding processes [1,2]. For example, physics of these processes can coincide with the soliton mechanics, which has the long-periodical basis of the energy support. The action mechanics of such a soliton defines the key thermo-hydro-dynamical parameters of the atmosphere ultra-short-wave radio-waveguide. We present new approach to modeling a role of the atmosphere circulations forms in definition of the long-periodical processes in atmosphere, parameters of the troposphere ultra-short-wave radio-waveguides and the Earth angle momentum balance. We carried out a series of the computer experiments to provide new predictors for the long-termed and super long-termed forecasts of the low frequency atmospheric processes. Besides, we have adapted the modified theory of the macro-turbulence for possible using the atmosphere radio-waveguides as a special effective predictors in the long-termed plan.

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