Reflection of tectonic structures of platform cover of the North of Russian plate in atmospheric field, character of geomagnetic variations and deep's decontamination

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In 2001—2009 we measurements of atmospheric pressure above fault-crossing were carried out, and the fact of constant "deficiency" of atmospheric pressure was established. These minima have received the working name — "static" and have difficult structure with increase of values in the centre

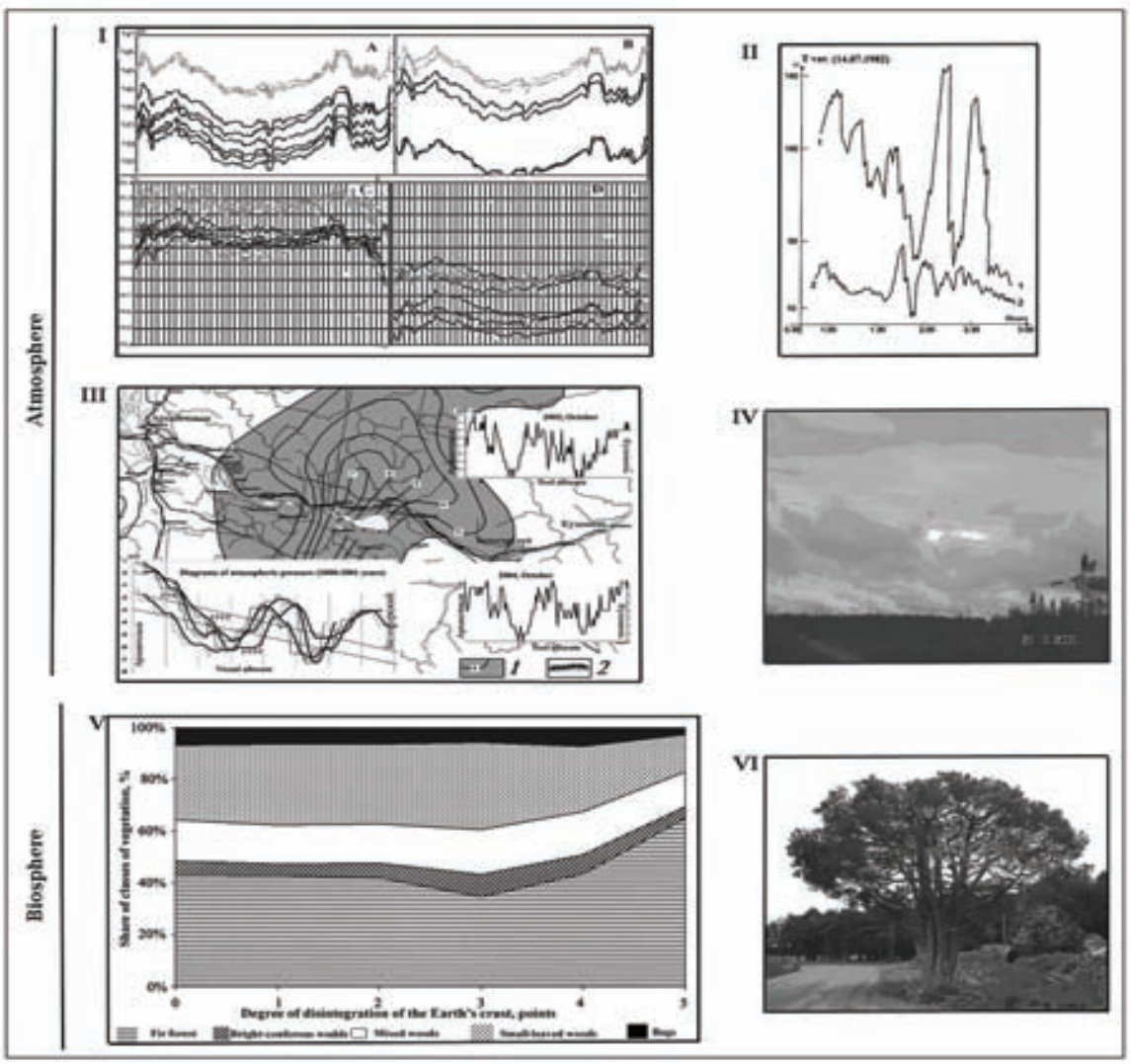

Fig. 1. Model of Geospheres interactions on the area of fault-crossing (atmosphere, biosphere): I — diagrams of atmospheric pressure (A, B) and contents of oxygen (C, D); II — diagrams of magnetic variations in fault-crossing and behind its limits; III — structure of atmospheric minimum (*1* — isolines of density of faults; *2* — anomalies of "deficiency" of atmospheric pressure); IV — structure of overcast; V — structure of vegetative cover; VI — dichotomy of trees.

and downturn on periphery (Fig. 1, III) the numerous measurements which have been carried out in different years and the seasonal periods, have shown that the allocated minima are static and do not undergo seasonal changes.

The revealed fact of change of dynamics shot wave geomagnetic variations at the moment of magnetic storms in fault-crossing [Kutinov, Chistova, 2004] (Fig. 1, II) and presence of zones of the increased conductivity (Fig. 2, II, III) allows to assume occurrence in tectonic structures induced magnetic-telluric currents and, as consequence, ionization of air above tectonic structure and units of faults. The original structure of overcast above fault-crossing speaks about change of electric conductivity of atmospheric air (Fig. 1, IV). And constantly observably pinkish shade can be interpreted as display of effect Cherincov' luminescence arising due to compression of rocks.

In space pictures of cyclones in northern hemisphere results of nuclear interaction of neutrons and

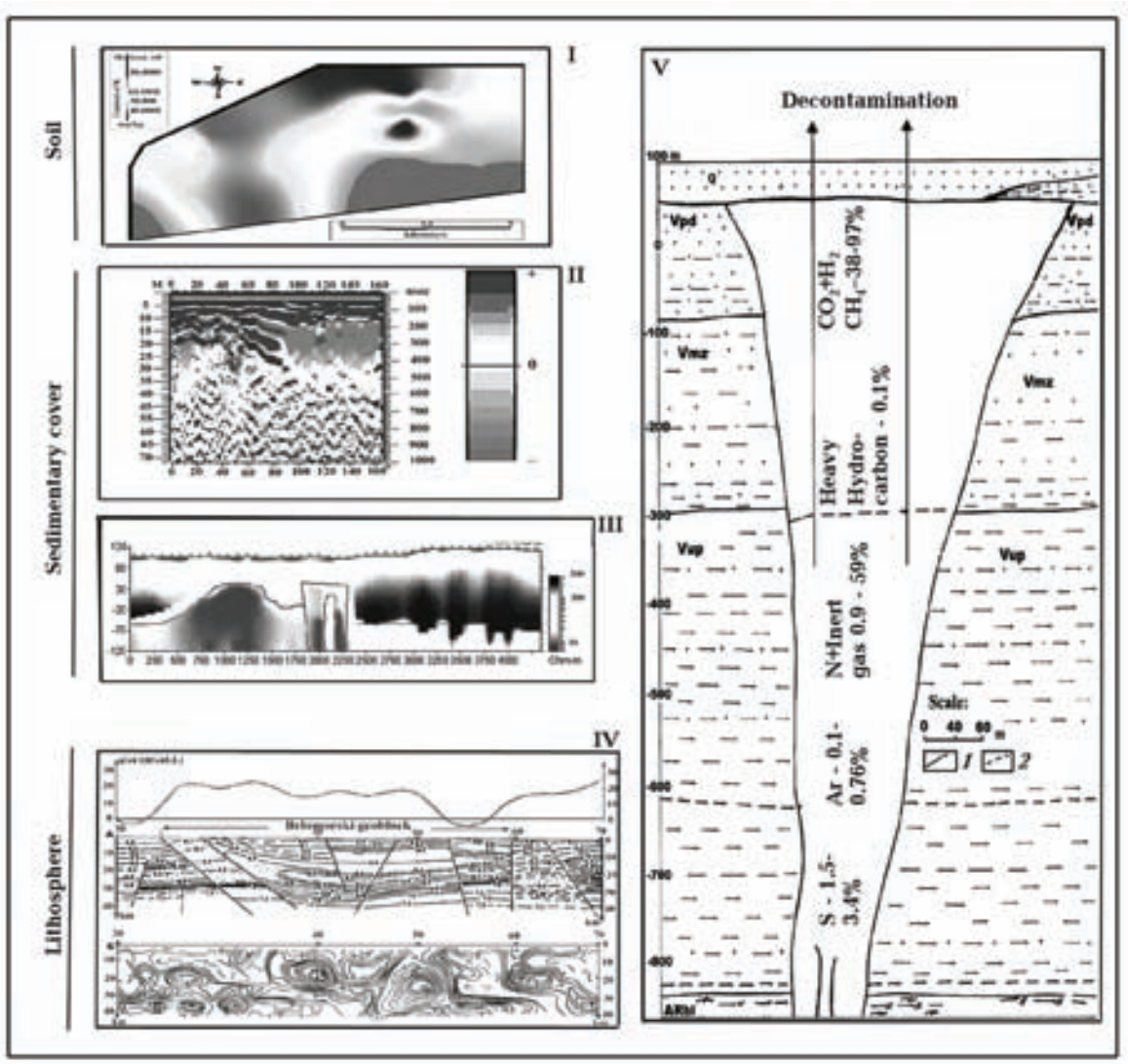

Fig. 2. Model of Geospheres interactions on the area of fault-crossing (geological medium): I — contents K in horizon A0; II — results of georadar-tracking researches; III — geoelectric section; IV — section on data DSZ; V — section of fault-crossing (geological boundary: *1* — established, *2* — assumed).

high-energy protons with an ozone cloud of a planet as the separate petals twirled counter-clockwise [Akhundov et al., 2007] are clearly visible. Getting in a nucleus of ozone, neutrons and high-energy protons translate it in the excited condition which is shown all over again as a silvery cloud, then in due course the cloud grows fat and, at last, becomes dark, having formed water. Water, in turn, drops out on a surface of the Earth as deposits — a rain, snow or hailstones. I. e., formation of a luminescence, difficult structure of overcast, other character of loss of deposits is possible. By us it is established, that in conditions of the European North frequency of loss of deposits and their quantity in the centre and on periphery of fault-crossing of tectonic dispositions which territorially coincide with stationary minima of atmospheric pressure for July—August essentially differ. Deposits in the centre of tectonic units dropped out much less often, and their quantity on 26-is less than 38 %.

In 2008 and 2009 by us were carried out on profile Arkhangelsk — Pinega for specification of dynamics of change of the contents of oxygen in near-ground layer of atmosphere on the area of fault-crossing. Received in 2008 and 2009 results speak, that, despite of practically full convergence of diagrams of atmospheric pressure, the picture of the contents of oxygen in 2009 differs from similar in 2008 (Fig. 1, I). The contents of oxygen depends from *PT*-conditions and inflow of deep" gases. Values of atmospheric pressure during gauging were practically identical a temperature mode is characterized about zero values and has no significant distinctions. Thus, there is only an increase inflow deep' gases, first of all CO_2.

Our data testify to presence of influence of tectonic infringements on Environment due to occurrence induced currents, deep decontamination and change of structure atmospheric fields. The counter system "influence — response" is observed, i. e. not only change of a geomagnetic field and atmospheric pressure influence on is intense — deformed a condition of the geological Environment, but also the Environment influences sun-meteorological parameters. I. e., in area of tectonic units vertical through channels difficult geospheres interactions, fascinating lithosphere, hydrosphere, biosphere and an atmosphere are formed. The model of lithosphere, hydrosphere, atmosphere and biosphere interactions in areas of fault-crossing is developed (Fig. 1, 2).

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