

THERE IS AN ALTERNATIVE OF PLATE TECTONICS

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As an alternative of plate tectonics (and hypothesis of the rapidly and asymmetrically expanding Earth as well) can serve our adunation geodynamical model had been presented in last International Symposium on New Concepts in Global Tectonics (Tsukuba, Japan, 1998). According to this model, the present Earth had formed in Mesozoic as a result of adunation of two planets with equal sizes and masses, namely Pangea and Panthalassa, which had earlier formed a close two-planet system with common center of rotation. The adunation model provides a possibility: 1. To preserve all positive surface constructions of plate tectonics and the expanding Earth hypothesis; 2. To avoid well-known paradoxes in interpretation paleomagnetic data; 3. To explain the present global structural heterogeneity of the whole Earth and processes of lithosphere reorganization in the last 200 Ma more logically and constructively then before; 4. To give a new interpretation of the pre-Mesozoic (pre-oceanic) history of the Earth (Pangea); 5. To get a great deal of absolutely new astronomical, geological, geophysical (especially paleomagnetic and paleogravitation), biological (paleontological and paleobotanical), paleoclimatic and geomorphological consequences, both qualitative and quantitative; 6. To resolve the most controversial problems of plate tectonics, especially the problem of subduction which is replaced in our model by aduncation of primary (Paleozoic) crusts of Pangea and Panthalassa in joining zone between two hemispheres; 7. To form a physical and mathematical base for all geosciences.