

Global cryptocircular systems of the Earth and their homologues on terrestrial planets

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Under the investigation of morphostructural features of gravity field, topography and geomagnetic anomalies of the Earth the systems of the relic planetary multicircular cryptostructures were detected. These systems are regular disposed in space and include families of concentric lithospheric structures, which have standard rhythmic radial organization. In alternate rings of systems zones of lithospheric compression and tension structures are observed, in some rings centers of the next planetary or secondary circular formations are traced. Planetary multicircular systems create space-time hierarchy of totality of observed secondary circles. Their development proceeds during the planetary body evolution. Regularities of systems allow to compare those with tracks of circle quasi-wave density structures, that are generated by periodical energy impulses of the coherent deep sources. The parameters of systems and the distribution of their centers allow to connect these impulses with the periodical activization of some planet core regions. Analyses of the global lithospheric topography and gravity field of the other terrestrial planets shows interrelated systems of the planetary multicircular cryptostructures, that are homologues to the Earth's ones. Regularities of features and interrelations of their structures, correlations of their diameters with radiuses of planets and control space-time hierarchy of secondary lithospheric circles are similar to those of the Earth, that indicates possibility of genetic analogy between those structures and the Earth's ones and may be connected with periodical energy radiation of planet's cores. Variabilities of the parameters of global multicircular systems of different planets and some features of their epicentric nets may be information for the comparative characteristics of their interior and energy sources.