

# New Concepts in Global Tectonics

## NEWSLETTER

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(The geoid tectonics model predicts that past geosynclines would have formed where paleoequators in the oceanic crust were aligned along the interface(s) with continental/shield boundaries. This implies that the present-day equator should exhibit geosynclinal characteristics under such conditions and confirmation comes from the Indonesian Archipelago. The Amazon basin and central Africa, both in shield regions, also provide evidence of recent/ongoing subsidence in the shield itself) Rock assemblages from the Pacific Ocean bedrock in the Clarion-Clipperton fault region, <i>S.M. TABUNOV, YU.I. TOMANOVSKAYA AND G.N. STARITSINA</i> .....	
(Petrographical study of 48 fragments and 204 pebbles of rocks dredged from volcanotectonic structures, horsts and normal fault scarps shows that the basement rocks of the study region consist of multiple-age/formational complexes. They are: 1) Precambrian (?) granite-metamorphic, 2) Cretaceous geosynclinal volcanogenic-siliceous-sedimentary, 3) pre-Eocene oceanic basaltic, and 4) Eocene-Miocene oceanic basalt-andesite-rhyolitic) Origin of the World's Deepest Bays, <i>Masaaki HANADA and Michihei HOSHINO</i> .....	19
(The three deepest bays in the world, Suruga Bay in Japan, the Gulf of California off Mexico, and the Gulf of Aden, are commonly situated on the extension of submarine ridges: Suruga Bay – Izu-Bonin Arc, Gulf of California – Mid-Pacific Ridge, and Gulf of Aden – Carlsberg Ridge. These ridges are underlain by plutonic and metamorphic rocks ( $V_p=6.0$ km/sec) of Late Proterozoic (Grenvillian) age at the 10 to 11 km depth. This fact implies that the three deep bays formed as rift valleys developed on the basement ridges which were solidified through multiple disturbances during the Proterozoic Era, as is the case for the Mid-Atlantic Ridge and its axial valleys) "Geotrans" – a planetary geodynamic system of transcontinental ore-concentrating activation megazones, <i>Leonid GALETSKIY</i> .....	30
(One of the energy sources for periodic tectonic and magmatic activation is the stress produced by changes in the Earth's rotation. The study of transregional fracture megazones opens up new prospects for the evaluation of mineral potential, the evolution of large deposits and their localization at the dynamic junctions of the fracture megazones. Data comparison with other regions of the world shows the presence of such structures in all large continents. This fact provides the basis for defining the planetary system "Geotrans", or transregional ore-concentrating activation megazones)	40
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