



Confirmation of the extraterrestrial forces decisive effect on earthquake triggering and lithospheric plates movement.

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In contrast to unsuccessful searching for biweekly tides earthquakes triggering the Earth's rotation variations give the unambiguous answer that the extreme positions of the Earth's acceleration and deceleration trigger earthquakes. In addition to it, an important repetition of earthquakes with 19 years period of the Meton's cycle and nutation has been found. Further, it has been found that the continental heating by the Sun and formation of the thermoelastic wave is an important factor of affecting of the Earth's surface and the plate movement. For this the special static vertical pendulum serves with the optimum length of several tens of meters, which after its refinement will be an important instrument for confirmation of stated claims. This problem is so far important that the scientific community advocates an opinion that earthquakes are caused by fluently acting forces in the Earth's interior, i.e. by forces causing absolutely unpredictable disturbances of the Earth' crust. This work is in outstanding interest of the European Union because the volcanic eruptions in Iceland, till now unpredictable, disturb the air-traffic in Europe in spite that just earthquakes in the Mid-Atlantic Ridge show unequivocal earthquake triggering in rhythm of the Earth's rotation variations.