FAST DEVELOPING DEFORMATIONAL CYCLES IN THE LITHOSPHERE AND CATASTROPHIC EARTHQUAKES: Was it possible to prevent the «Fukushima» tragedy?

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Abstract. Based on application of regional hydrogeodeformatics principles, globally distributed processes of Earth's pulsation were discovered. Such a pulsation manifests itself in short term cycles of expansion and compaction of lithosphere plates. Each cycle lasts for a few months and such pulsations are the most evident within the global endodrenage system. This mega system connects the deep segments of the Planet with its geological crust. It was shown that the deformational signal always moves eastward from the region where this impulse is generated. Some examples illustrate interconnection between deformational cycles and series of catastrophic earthquakes and recent natural and natural-technogenic catastrophes. The need to monitor the global «geodynamic weather» is substantiated and principles of the deformational monitoring system are discussed.

Keywords: regional hydrogeodeformatics, the hydrogeodeformatic (HGD) field of the Earth, global endodrenage system (GEDS), deformational cycles, «geodynamic weather», earthquake prediction, «Fukushima-1».