

# **Synchronous manifestations of 160-min pulsations of the ground pressure**

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The oscillations of ground pressure with a period of  $\sim 160$  min in December 2003 and March, 2004 relatively to the zero meridian are studied using 5-min data of 4 stations Moscow, Yakutsk, Apatity and Tixie separated in longitude. The choice of time is caused by the fact that in December the territory of Russia is the nearest to the direction to the Galaxy center under such a choice of the reper point (through the Earth). The most removal of the zero meridian from this direction is realized in March. If we suppose that 160-min pulsations arrive from the Galaxy center then they synchronously manifest themselves most of all on the territory of Russia only in December.

As the analysis has shown, really in December the mentioned oscillations are synchronously manifested in Moscow, Yakutsk, Apatity and Tixie, mainly in the form of “packets” (quanta) in 2-5 impulses. The mean amplitude of synchronous ground pressure variations on the territory of Russia is  $\approx 0.0115$  mb. During other seasons the synchronism is observed considerably worse. The manifestation of oscillations in the form of packets is also observed worse.

The authors suppose that 160-min pulsations of the ground pressure are not related to pulsations of the Sun’s brightness. The the most favorable time for their observations coincides with the moments of appearance of the stations near the direction to the Galaxy center.