

THE DYNAMICS OF CRYSTALLIZATION IN FITZROY RETORT – STORM GLASS – ENIGMATIC YEAR PERIOD

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Abstract. As the continuation of the analysis of the dynamics of crystal formation in the storm glass (Fitzroy retort) and the behavior of some physical-chemical systems, the year period have been investigated in some details. It was obtained that this period is observed at any phase of 11-year cycle of solar activity. No essential dependence on the temperature was revealed. The same year course is present also in the current's parameters in semiconductor's structure, in torsion pendulum's behavior and some other processes. As corresponding comparison shows, this variation is connected with the changes of solar wind's velocity and with the induction of interplanetary magnetic field and might be interpreted as changes of the flow of solar wind of magnetosphere. New data agree in general with previous modeling of processes in storm glass: low frequency electromagnetic emission of magnetosphere and atmospheric fronts influence upon the solution capability of water and accordingly the process of crystallization.

Keywords: storm glass – Fitzroy retort, cosmic weather, solar wind, low frequency electromagnetic emission.