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The quasi-periodic fluctuations of ground temperature of northern hemisphere in last millennium

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The climate of last millennium is characterized by weak and practically linear large-scale decrease of global temperature (˜0,28 oC/1000 years), that is connected with change of eccentricity terrestrial orbit - reaction of terrestrial climatic system on "the orbital signal". The quasi-periodic fluctuations of ground temperature on background of the cooling are revealed the periods of near ˜100, 110-130 and 200 years. Also the quasi-periodic fluctuations of ground temperature are revealed the periods of 56-58 and 64-68 years, at the analysis of temperature numbers restored by non-direct way of by known scientific groups and the quasi-periodic fluctuations are revealed at the analysis of modern empirical number received as a result of instrumental observation with the period 55-61 of years, practically coincide. The analysis of possible factors of quasi-periodic fluctuations of temperature in last millennium and in the modern period is carried out also.