



The temperature monitoring in Vorotilovo deep well and global climate warming

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Vorotilovo Deep well (VGS) situated in the centre East-European platform in the central part of the local anomalous object - Pre-Cambrian Vorotilovo salient Puchez-Katunki circular structure (impact crater). Vorotilovo Deep well was bored at a period with 08.1989 on 09.1992 and reach depths 5374 m (open hole 689-5374 m, temperature on bottom 98 C). Bore hole is bored with the core selection on which executed broad complex of studies. Earlier, It was bored a satellite bore hole, depth 1498 m, which situated in 100 m on the direction on the north from VGS. For a period 1993-2003 years in Vorotilovo deep well is executed big volume of measurements of the temperature and other geophysical parameters in the broad interval of depths under significant periods (0.5-1.0 year) of the finding of the bore hole at rest. It is interesting to compare these data with the trend of global climate warming. After the termination of boring, in the borehole executed 61 measurements temperatures along the borehole, on which is possible to estimate a trend in changing a temperature on different depths. On the background of the temperature fluctuations in accordance with seasonal phenomenon, tidal variations, solar and seismic activity, the observable trend of reduction of the temperature of the massive is noted on relatively long time lag (6-7 years) in all range of depths (0-5000 m).