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Analysis of heat-flow data "detailed observations in many holes in a small area

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Abstract

Terrestrial heat-flow measurements have been made in 71 boreholes distributed over 5 km² near Noranda, Quebec. In nearly 50% of the boreholes there was some evidence of water flow along part of their total depth. Across the area the heat-flow values, uncorrected for climatic variation effects, vary systematically from 23 to 36 mWm⁻² (0.55 to 0.85 cal ern⁻²s⁻¹).

Direct water flow along sections of boreholes cannot account for the heat-flow variation; a system maintained for a few thousand years, in which small quantities of water migrate from the surface down through the volcanic flow contacts and faults under the area of reduced heat flow, can account for the variation.



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