

## ON THE ALLOCATION AND TRACKING FAULTS AND KIMBERLITE PIPE BY CHARACTERISTIC CHANGES IN CONDUCTIVITY IN SEDIMENTARY DEPOSITS

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**Abstract.** Field work performed in the Arkhangelsk diamond province shows the importance of information about the elements of tectonic fracture. Using time-domain electromagnetic exploration technique allows us to study tectonic faults, which are distinguished by linear conductive zones.

The possibility of electromagnetic method in the search of kimberlite pipes is shown for a case when they are overlapped by thick sedimentary layers. The paper shows an effective use of tectonic fracture, as the primary search criteria for kimberlite pipe exploration.

**Keywords:** tectonic fracture, kimberlitic pipe, pulse geoelectrics, transient resistivity method, apparent resistivity, geoelectric cross-section.