

Using borehole gamma-ray spectroscopy to detect Tephra Layers in Lacustrine Deposits: An Example from Lake Chalco, Central Mexico

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Gamma-ray is a paleoclimate proxy.
Tephra layers present a challenge.
We propose an analytical model to predict tephra layers.

Strength of the gamma-ray signal and the composition of its constituent energy channels can be used to detect embedded tephra layers.

Our model predicted 92% of tephra layers documented in the lake deposits from core descriptions

