

# STUDY ON THE UNDERGROUND RIVER OF MISHIMA LAVA FLOW, Mt. FUJI

by

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## Abstract.

In the vicinity of C. Mishima, Pref. Shizuoka, Japan, a long lava flow (Mishima lava flow) issued from the south-east side of Mt. Fuji, gushes forth clear water amounting to 330,000 gallons per minute.

Since 1948, the writer has examination of underground river by electric prospecting and rotary boring, that would be supposed to lie at the back side of these springs, with a view to investigate the water source for irrigation of rice fields.

This underground river, « Ko-Mishimagawa » (Old river of Mishima) denominated by the writer, is maintained on the tuffaceous formation of Mt. Hakone occupied at the east and fills up two distinguished cavernous zones among the lava flow.

At 300 localities, the thickness of lava flow and topography of the river-bed were detected by electric prospecting, Wenner method, in that the resistivity curves of lava get up and tuff get down.

Boring holes were efficient and appropriate to certify the riverbed and to understand the containing mechanism of underground water in the lava flow.