

## Deep resistivity structure of the Takamatsu crater, Japan

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<http://www.mater.aichi-edu.ac.jp/envsci/goto/>

The magnetotelluric(MT) sounding was carried out around the Takamatsu crater, located in Takamatsu city, Southwest Japan. Two station for the wide-band MT survey and fifteen sites for the AMT survey were set around the crater. We tried to remove noise from time series data by using a new GUI program. The noise rejection is quite effective so that subsurface structure deeper than 10 km was obtained in this study. The obtained resistivity structure at the center of the crater shows a modelately resistive surface and a conductive layer at depth range of 100 - 200 m. Below them a resistive layer (>1000 Ohm-m) underlies. In this study, we cannot obtain a crater-like resistivity structure around the Takamatsu crater.