

Exploration Geophysics Research Group leader Toshihiro Uchida receives Hohmann Award



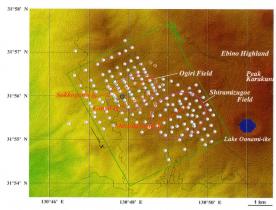
Yusaku Yano, Director

[Outline]

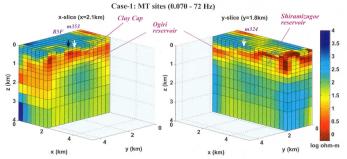
Exploration Geophysics Research Group leader Toshihiro Uchida was selected for the international Hohmann Award for Excellence in Applied Electrical Geophysics for 2006. The award ceremony was held in 2007. The Gerald W Hohmann Memorial Trust (USA) has awarded the Hohmann Award each year since 1997 to one or two researchers from throughout the world. The 2006 Award was presented to two researchers for outstanding application of electrical and electromagnetic methods to the study of geothermal resources.

[Details]

Group leader Toshihiro Uchida has long worked on the development of modeling and inversion software for electrical and electromagnetic exploration data and on its application to the exploration of geothermal resources. He was selected for this award for (1) achievements in the interpretation of resistivity structure in geothermal fields; (2) development and popularization of 2D and 3D modeling and inversion software of magnetotellurics (MT) and DC resistivity data that contribute to geothermal exploration; and (3) cooperation geothermal research and development in Japan and other countries (Indonesia, Philippines, South Korea, etc.). The award also pays recognition to Uchida's \frac{5}{8} regular presentation of research findings at international meetings on electromagnetic exploration studies and contributions to international joint researches since 1990. The figures on the right represent one of Uchida's research achievements, showing an example of resistivity model at the Ogiri geothermal field in Kagoshima Prefecture (Uchida, 4th International Symposium on 3D Electromagnetics, 2007).



Location of MT survey stations at Ogiri geothermal field.



3D resistivity model obtained from the MT data. Within the zone of geothermal reservoir, low-resistivity layer corresponds to cap layer in which clay alteration minerals are abundant, while the geothermal reservoir below the clay cap is relatively resistive.

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