

# Susceptibility survey of the Tamagawa Cauldron area, Yamaguchi, Japan

# Rie Morijiri[1]

[1] GSJ,AIST

Susceptibilities were measured at 133 points around Hagi City of Yamaguchi Prefecture with a portable susceptibility meter (SM30, ZH-instrument Co.) in 2002 and 2003. Geological study shows that there is a cauldron in Tamagawa Town of Yamaguchi Prefecture. The center of the Tamagawa Cauldron was around Tazoe of Tamagawa Town in Yamaguchi Prefecture. The shape of the Tamagawa Cauldron is oval, which length of long axis of Northeast-direction is 14 km and short axis is 7 km. An aeromagnetic survey was conducted from Hagi City to Masuda City area by Metal Mining Agency of Japan in 1969(Hirasawa, 1971). The Tamagawa Cauldron area is corresponding to high magnetic anomalies. Geology shows the Tamagawa Cauldron was filled with volcanic rocks, and then they caused by high magnetic anomalies. The distribution of high susceptibility points is suitable of geology and aeromagnetic maps.