

Bouguer Anomalies in Miyazaki and Hyuga-Nada Area, Southeast Kyushu, Japan

Kazunari Nawa[1]; Yasuaki Murata[1]; Masao Komazawa[2]; Rie Morijiri[3]; Toshio Hiroshima[3]; Masahiko Makino[3]; Fumitoshi Murakami[4]; Kiyoyuki Kisimoto[1]; Shigeo Okuma[1]; Ryuichi Shichi[5]

[1] GSJ, AIST; [2] GSJ/AIST; [3] GSJ,AIST; [4] AIST,MRE; [5] Coll. Eng., Chubu Univ.

<http://www.gsj.jp/>

The Geological Survey of Japan, AIST, has been publishing the 1:200,000 gravity map (Bouguer anomalies) series of Japan. A new gravity map of Miyazaki district (edited by Nawa et al., 2004) is now in press. We compiled gravity data from about 7,300 stations including 387 new gravity stations on land, and also compiled sea surface gravimeter data (GH831 cruise: about 5,900 points) within the map area. These new gravity measurements in and around Miyazaki area were carried out by the GSJ, AIST. This Bouguer anomaly map with an assumed density of 2.3 g/cm³ clearly reveals the subsurface structure pattern, which corresponds presumably to the Miyazaki-oki basin located near an arc-arc junction.