

SGD002-P10

Room: Convention Hall

Time: May 27 17:15-18:45

## Bouguer Anomalies in the Northern Noto Peninsula

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The geology of the Noto peninsula is characterized by tilted block structures with NE-SW trends formed in Neocene and Quaternary. These block structures are also confirmed off the west coast sea area of Noto peninsula. 2007 Noto Hanto earthquake is, therefore, considered to occur on the fault constrained by such block structures.

After the 2007 Noto Hanto earthquake, we measured and compiled gravity anomalies in the northern Noto peninsula. In this report, we show a detailed Bouguer anomaly map using new compiled data.

The distribution of Bouguer anomaly shows relatively high anomalies around Uchiura, the east coast of Sosogi and southern Monzen, and shows relatively low anomalies around Iida, between Monzen and Anamizu and western part of Sosogi. Comparison between the distribution of gravity anomaly and the geological block structures shows that tertiary volcanic rocks exist in the area of high gravity anomaly, and tertiary sedimentary rocks are mainly in the area of low gravity anomaly. There is a good correlation between the gravity anomaly and the geological structures.

Keywords: Bouguer anomaly, Noto peninsula