

**INTERPRETATION AND ANALYSIS
OF COMPLETE BOUGUER ANOMALY ON TOPOGRAPHY
RESEARCH OF MERBABU AND MERAPI MOUNT**

**By
Lasmi Puji Rahayu**

ABSTRACT

Merbabu Mount is implied in a non active mount, because it's an older than volcano in Jawa island. And Merapi Mount, is which one an active volcano in world. To find out of status Merbabu and Merapi Mount, so we need understand how a stratigraphy and kantong magma of Merbabu and Merapi Mount. This research have been prepared by data processing of Complete Bouguer Anomaly and 3D modeling of Complete Bouguer Anomaly on topography.

Data processing of Complete Bouguer Anomali results a negative anomaly around of Merbabu and Merapi Mount showed that the kantong magma. In 3D modeling Bouguer anomaly on topgraphy founded the kantong magma under the Merbabu and Merapi Mount comprise with two kantong magma, upper und under kantong magma.

Upper kantong magma Merbabu Mount contained in 1.800 m below Mean Sea Level (MSL) and under kantong magma is countained in 6.100 m below MSL. And upper kantong magma Merapi Mount contained in 1.900 m below MSL, under kantong magma of Merapi contained in 6.500 below MSL. Each kantong magma of Merbabu and Merapi Mount grew in 7.600 below MSL.

The low density zone in South Merapi haved an identify character with Merbabu and Merapi Mount