

Mesoscale crustal structure based on magnetic and gravity anomalies in the eastern Hokkaido, Japan. #8211;part 1

Rie Morijiri[1]; Mitsuru Nakagawa[2]

[1] GSJ,AIST; [2] Hokkaido Branch, GSJ, AIST

The Pacific coast of the eastern Hokkaido (from Kushiro to Nemuro Peninsula) is characterized by high gravity anomalies. Aeromagnetic Database of Japan was published by GSJ, AIST (2005). It shows that high magnetic anomalies may be extended to this area, although the eastern part of Hokkaido has been a blank region. The results of geomagnetic survey on ground showed high magnetic anomalies on the pacific coast (Sugisaki et al., 2001). We sampled basalts in this area and measured densities, natural remanent magnetization, susceptibilities and other magnetic properties. They encourage to high gravity and magnetic anomalies.