

## Disaster and industry produced by geological characteristics of Rokko Mountains in Hanshin Area, Southwest Japan.

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Rokko Mountains have been upheaved by movement of many active faults after about 1 Ma. Southern Hyogo Prefecture Earthquake by movement of the active faults caused Hanshin-Awaji Great Earthquake Disaster in 1995. Furthermore, steep slope of the mountains composed of weathered granites have often become factors of debris flows represented by the Hanshin Great Flood Disaster in 1938. On the other hand, cities located foot of the Rokko Mountains were received benefits from the mountains. For example, the granites quarried from Rokko Mountains became local industry in Hanshin Area and they were widely distributed to West Japan in 15 to 16 centuries. Some quarry ruins of the granites are distributed in ancient debris flow deposits. Furthermore, stone walls of houses in the old street lines are made by large round stones carried by debris flow. On the other hands, many water wheels were distributed along rapid current of river on fan delta the steep slope of the mountains in 18 to 19 centuries. Rapeseed oil made by the water wheels was local industry of this area, previously. These show that people has lived coexist with disasters around Rokko Mountains. It is important to understand that people lives coexisting the disasters when we promote the disaster education.

Keywords: disaster education, earth science education, Rokko Mountains, granite