

## Geological study and community vitalization in Tajimamihonoura area, San'in Kaigan UNESCO Global Geopark

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< In case of geological study in San'in Kaigan UNESCO Global Geopark >

San'in Kaigan Geopark is one of the UNESCO Global Geoparks with the vast area located in the northern part of Kinki region. In this Geopark, visitors and residents can find lots of valuable geological assets related to the formation of the Sea of Japan.

A theme of San'in Kaigan UNESCO Global Geopark is "Geological features, the natural environment, peoples' lives, and the formation of the Sea of Japan".

The theme was brought by the existence of the stratum which is considered as a Miocene key bed, called a "green tuff".

Green tuff formed during the opening of the Sea of Japan is widely distributed along the coastal area of the Sea of Japan. It recorded the process of the evolution of the Japan island arc system. The study area is Tajimamihonoura Geosite. Not enough sedimentological study is done in this area, and the detailed sedimentary environments are still not clear. The purpose of this study is to clarify the previous stratigraphy of the study area, and reconstruct the paleo volcanoes and sedimentary environment. Based on the facies analysis, I learned that sedimentary environment can divide into three stages. In the first stage, effusive lava was formed by volcanic activities on the land and sedimentary environment went under fresh water in the second stage. Subaqueous volcanoes erupted in this stage. After that, freshwater changed to the sea in the third stage.

< Community vitalization in Tajimamihonoura Geosite >

This study got great cooperation from many local residents in an investigation area. I believe that my visits for study raised the interest of residents in Geopark. The result was shared with local residents and used for enhancing guide skill scientifically.

A study of the resident type in the area leads to the interest of the local residents and improvement of academic knowledge.

Keywords: San' in Kaigan Geopark, Green tuff