

## Geology and Late Cenozoic tectonics of southeastern Kyushu

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Geological structure of southeastern Kyushu since Late Miocene time changes around Nobeoka. There are many normal faults of the NE-SW and ENE-WSW directions in the southward of Nobeoka, while there are some sinistral faults of the NW-SE direction in the northward of Nobeoka.

The southward of Nobeoka is thought to have been occupied by extension stress field of the NW-SE direction since Late Miocene time for reasons given below; the Miyazaki Group of Late Miocene to Early Pleistocene deposited in the NE-SW graben, and the horizontal strain for past 100 years shows NW-SE extension.

These phenomena is explained by the model including the subduction of Kyushu-Palau Ridge and the SE direction movement of the Ryukyu Arc caused by extension of Okinawa Trough.