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Marine terrace distribution and tectonic geomorphology around the source region of the Rumoi Nanbu earthquake in 2004

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To reveal the relation between active fault and earthquake source fault, we have investigated geomorphological and geological survey around the source region of the Rumoi Nanbu earthquake in 2004. In this presentation, we provide the results of high resolution topographic investigation by LiDAR DEM and air photo, and we conclude activity on active fault of this region by boring survey. As a result of topographic survey, we found consecutive tectonic topography which is reverse scarplets on the marine terraces along the coastal line in the 25 km long in N-S direction. The boring survey reveal that the active fault which is formed the reverse scarplets displaces the wetland deposit in the last glacial age.

Keywords: 2004 Rumoi-nanbu earthquake, marine terrace, tectonic geomorphology, DEM investigation, aerial photo investigation, active fault