

相模トラフから房総三重会合点周辺の3D海底地形 3D bathymetric image of the Sagami Trough and the Boso Triple Junction area

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A triple junction is a place where complex interactions of plates occur. The Pacific plate, the North American plate and the Philippine Sea plate collide at the junction of the Japan Trench and the Izu-Bonin Trench, and the Sagami Trough. At these trenches and their vicinity, a collision of plates builds up strain and causes intraplate and interplate earthquakes. Those imprints may have been preserved in the topography.

To understand the seafloor topography of the triple junction and its vicinity, especially spatial distribution of active submarine faults, we made detailed seafloor topographic images based on 150m DEM processed from the original data obtained by Japan Coast Guard and JAMSTEC.