

Kashima Submarine Scarp locating on the Median Tectonic Line as the northern margin of the Kanto Plate and its seismic activity

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Subduction of the Philippine Sea Plate induces collision of Tanzawa, east-west compression of central Japan, and bending of northeastern Japan since 7 Ma. Sedimentary basin formed off Joban to Sendai Bay. The plate boundary initiated along the Median Tectonic Line in the northern part of Kanto at 3 Ma. Kanto area moved as Kanto Plate and Kujukuri Trough formed. Kashima Submarine Scarp locates on the eastern extension of the plate boundary. The plate boundary and off Joban to Sendai Bay have a potential of M8 earthquake with 100 years interval.