

The Relation between the Seismic Gap of the East part of Shimane Pref. and Seismic zones along the Coast of the Japan Sea

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Recent microearthquake activity in the San'in district showed a belt-like distribution along the Japan Sea coast, more than 200km from Tottori to Shimane. This distribution agrees well with the geological structure and tectonic zones. In this zone, a number of considerably large earthquakes have occurred, comprising the 1874 Hamada earthquake(M7.0) and the 1943 Tottori earthquake(M7.2). There are seismic gaps in the active zone. The largest one is in the east part of Shimane prefecture. Since the 880 Izumo earthquake occurred in the gap's area, large earthquakes have not occurred in this area.

Around seismic areas, 3 parts (west, south and east side area) have high activities, but the north side area is aseismic.