

# The upheaval of southwestern Shikoku before the 1946 Nankai Earthquake suggested by the literature and the hearing investigation

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There is a report that the water level of wells where distributed within the area of Pacific coast from Kii peninsula to Shikoku were decreased before the Showa Nankai earthquake (1946,M8.0).

Umeda(2003)proposed a model to make the mechanism of the well water decrease before the earthquake. The model needs the verification. The Umeda model presupposes the upheaval by a preseismic slip occurred in the deep portion of the asperity. Hashimoto(2003) suggested that the upheaval and distribution of wells of reported anomalous changes could be explained if the preseismic slip occurred on the deeper extension beneath the Kii peninsula. By this result, the model got a theoretical reality. But the definite evidence by the observation is not found out. Therefore we tried the investigation by the literature and the hearing investigation. We found the report where the extraordinary ocean tide level changed of some possibility before the earthquake was mentioned. We introduce in detail about the report.