

Precise Gravity Measurements in Tokai, Kii Peninsula and Shikoku Regions, the Central Part of Japan

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Precise gravity measurements have repeatedly been carried out in the Kii peninsula since 1972 and in Tokai area since 1974 by using LaCoste & Romberg gravity meters. And in southeastern part of Shikoku region, precise gravity measurements have been newly carried out since 2002. We can see clear secular gravity increase in southern part of Tokai area referring to that in northern part. The ratio of gravity increase relative to subsidence is around 0.28 mgal / m. And existence of hinge line is expected around 20 km north from central part of Kakegawa city. On the other hand, we can not distinguish clear gravity changes in the Kii peninsula. And also in Shikoku region, we can not distinguish clear gravity changes.