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Crustal movement on the western coast of Suruga Bay estimated from GPS data and comparison with that from leveling measurements

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We investigated data of leveling measurements and GPS on the western coastal area of Suruga Bay by using Bayesian Seasonal Adjustment Program (BAYSEA). Followings are the summary of the analyses.

- 1. Subsiding rates at Hamaoka1 and Hamaoka2 relative to Kakegawa estimated from height differences are 4-8mm/year and 3.5mm/year, respectively, which are consistent with the result of leveling measurements.
 - 2. Amplitude of seasonal variation observed by GPS is a half of that by leveling measurements.
- 3. Trends in the change of baseline lengths between the station in Kakegawa and those in Hamaoka are both compression with a nearly constant rate.