

## A study of noise and signal structures of GEONET data by a statistical approach

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The nationwide continuous GPS observation (GEONET) has been operational by the Geographical Survey Institute of Japan (GSI) since 1994. Many researchers have already used these GPS data, and obtained many good results so far.

Although the GPS data include such important signals as crustal movements, they also include many noises due to water vapor path delays, instrumental noises logistic problems at the observation points, and so on.

Hence, the investigation of noise and signal characteristics are very important for various applications of the GPS data.

In this study, we have studied the characteristics in both time and space domains by statistical analyses.