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SGD001-12

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## Approach of GPS station to GPS modernization

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GSI is advancing to update receivers of the GPS stations from 2005 fiscal year. All GPS stations are scheduled to correspond to L2C by the end of 2020 when a guarantee of P(Y) code is lost. As for L5, there are several advantages to adopt L5. For example, a linear coupling of the frequency increases, a decision rate of the ambiguity is improved in a long baseline, and applications in the measurement field are expected because of the advantages of the interoperability with Galileo and other positioning satellites. On the other hand, in order to have to exchange antennas, it is feared that the influence of the continuous monitoring diastrophism occurs. Therefore, it is necessary to investigate how to advance the renewal and the improvement of GEONET for the GPS modernization.