Status of QZSS/GNSS Radio Monitoring Using Smartphones at Glass Window Sides in the Wooden Building

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Seven years after the launch of QZS-1 in 2010, QZSS space segment was increased from 1 to 4 satellites. In the seven years, smartphones that can receive and utilize GNSS were explosively popularized in the scale of several billion units all over the world. Very small built-in GNSS receivers for GPS, Glonass, BDSS, and Galileo have advanced to get A-GNSS high sensitivity. Applications for Android smartphones that can display GNSS reception sky plots and level plots in real time and can also record logs have also been developed and widespread. Anyone can now monitor the reception status of GNSS by Android smartphones. Some of the smartphones can also receive QZSS satellites increased to four in 2017. The author started to receive GNSS radio waves at the window side of the wooden building from May 2015. Then he started the fixed point observation and continuous monitoring of QZSS/GNSS for 24 hours. He will report on the recent status of QZSS / GNSS satellite monitoring by smartphones before and after the QZSS service of April 2018.

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