

4D visualization of crustal motion of Japan and the block motions

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We utilized GSI GEONET F3 solutions for 4D visualization of Japanese crustal motions. We made VRML data sets for longitude, latitude and height for about 1300 GPS stations, and colors are assigned by year. For visualization, we exaggerate the three components by 20k, 50k and 100k times. From the new VRML file make us understand the 4D motions of Japan very intuitively. We found some block like motions in Japan, such as north east Hokkaido, Oshima peninsula, west part of Tohoku and Chugoku region. But those block like motions are not in harmony with recent block models of Japan such as Brendan et al., 2017.

Keywords: 4D visualization, crustal motion, block motion