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Annual Rotations of Horizontal Land-Deformations Detected from GPS data of Central Japan

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Based on 307-point GPS data of the Geographical Survey Institute covering the southern part of the Tohoku, the Kanto and the Chubu districts, we analyze annual changes in the horizontal land-deformation during the period 1998 to 2000. We detect as a result the areal distribution of the Lissajous orbital rotations, clockwise or counterclockwise, which may be partially caused by the Pacific and the Philippine-Sea plate-subducting motions and overlapped by widespread meteorological and oceanic effects.