

SSS014-02

Room: 304

Time: May 27 14:00-14:15

Crustal deformation and interseismic slip deficit in the Tokai district before and after the Tokai slow slip

Hisashi Suito^{1*}, Tetsuro Imakiire¹

¹GSI of Japan

In this study, we estimate the interseismic slip deficit in the Tokai district during the period before and after the occurrence of the Tokai slow slip event (the Tokai SSE). The periods before and after the Tokai SSE are from January 1997 to January 2000 (Period 1) and January 2006 to January 2009 (Period 3). We also estimate the Tokai SSE's slip distribution during the period from January 2001 to January 2004 (Period 2).

The results show that interseismic slip deficit in period 3 is smaller than that of in period 1 around the border of the Aichi and Shizuoka prefecture, corresponding depth around 20 to 30 km. The maximum slip of the Tokai SSE is estimated in this part. After the Tokai SSE, interplate coupling in this region does not immediately recover. The interplate coupling is gradually recovering with time.

Keywords: Interseismic slip deficit, slow slip, the Tokai district, GPS