## Large-scale electrical resistivity structure around the long-term Slow Slip Events beneath the Bungo Channel region, southwest Japan

\*吉村 令慧 $^1$ 、山崎 健 $-^1$ 、小川 康雄 $^2$ 、中川 潤 $^1$ 、川崎 慎吾 $^1$ 、小松 信太郎 $^1$ 、米田 格 $^1$ 、大内 悠平 $^3$ 、岡崎 智久 $^3$ 、鈴木 惇史 $^4$ 、齋藤 全史郎 $^4$ 、臼井 嘉哉 $^4$ 、寺石 眞弘 $^1$ 

\*Ryokei Yoshimura<sup>1</sup>, Ken'ichi Yamazaki<sup>1</sup>, Yasuo Ogawa<sup>2</sup>, Jun Nakagawa<sup>1</sup>, Shingo Kawasaki<sup>1</sup>, Shintaro Komatsu<sup>1</sup>, Itaru Yoneda<sup>1</sup>, Yuhei Ouchi<sup>3</sup>, Tomohisa Okazaki<sup>3</sup>, Atsushi Suzuki<sup>4</sup>, Zenshiro Saito<sup>4</sup>, Yoshiya Usui<sup>4</sup>, Masahiro Teraishi<sup>1</sup>

- 1. 京都大学防災研究所、2. 東京工業大学理学院火山流体研究センター、3. 京都大学大学院理学研究科、4. 東京工業大学理工学研究科
- 1. Disaster Prevention Research Institute, Kyoto University, 2. Volcanic Fluid Research Center, School of Science, Tokyo Institute of Technology, 3. Graduate school of Science, Kyoto University, 4. Graduate school of Science and Engineering, Tokyo Institute of Technology

Recent geodetic observations detect recurrent slow slip events (SSEs), which occurred beneath the Bungo Channel and southwest Shikoku Island, with interval of approximately 6 years (e.g. GSI, 2010). In order to reveal a large-scale three-dimensional resistivity structure around SSEs region, we carried out wideband magnetotelluric (MT) surveys around the western part of Shikoku Island. We also plan to establish a permanent long-term MT monitoring network that aims to detect temporal changes of resistivity structure during SSE cycle. As of June, 2016, MT surveys were performed at 31 sites by using Phoenix wideband MT instruments. In the most of sites, high quality MT responses were obtained using the BIRRP code (Chave and Thomson, 2004) for the period range 300 Hz to 10,000 sec. The spatial distributions of the phase tensor ellipses and the induction vectors suggest that resistivity contrasts are located surrounding SSEs. In this presentation, we show the results of the data analysis and preliminary inverted three-dimensional model around the transition zone between SSEs and stick-slip regions.

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