

Three dimensional resistivity structure around the focal region of the 2016 Kumamoto earthquakes

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In December 2018, we have conducted broad-band magnetotelluric (MT) observation around Hinagu fault and Uto Peninsula, which are close to the focal regions of the 2016 M_{JMA} 7.3 Kumamoto earthquakes. Since the resistivity structure of these regions are not well imaged by the previous 3-D inversion by using the 80 MT sites (Aizawa et al., 2017, Sgeps fall meeting), we acquired the new data by using the Metronix ADU-07 system and the telluric loggers (NT System Design ELOG1K). We will present new 3-D resistivity structure and argue its relationship to the hypocenters that are relocated by using the double difference method and 3-D seismic velocity structure (Shito et al., 2017, GRL).

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