

Main research topics

1. Study of early aftershocks

- Aftershocks that occur within 1 hour from the mainshock
- Use of Hi-net (NIED) waveform data & the JMA earthquake catalog
(e.g., Enescu et al., JGR, 2007; Enescu et al., BSSA, 2009; Lengline et al., GRL, 2012; Sawazaki & Enescu, JGR, 2014)

2. Static & dynamic triggering of earthquakes and non-volcanic tremor

- Relation between earthquakes and stress
- Forecasting of earthquake rates
(e.g., Aoi et al., Nature Geoscience, 2010; Toda & Enescu, EPS, 2011; Enescu et al., GRL, 2012; Enescu et al., EPS, 2016; Opris et al., GJI, 2018)

3. Space-time pattern of earthquakes & slow earthquakes

- (e.g., Enescu & Ito, Tectonophysics, 2001; Shimojo et al., GRL, 2014; Marsan & Enescu, JGR, 2012; Tormann et al., Nature Geoscience, 2015; Li et al., 2019)

4. Three-dimensional velocity structure & precise earthquake location

- (e.g., Enescu & Ito, Tectonophysics, 2005; Koulakov et al., G3, 2010; Ueno et al., JGR, 2010; Sekiguchi et al., 2013; Borleanu et al., 2020)