

**The enhancement of coseismic slip and ground motion due to the accretionary wedge and sedimentary layer in the 2011 Tohoku-Oki earthquake**

Xian Li<sup>1,2</sup>, Yihe Huang<sup>3</sup>

<sup>1</sup>Key Laboratory of Earth and Planetary Physics, Institute of Geology and Geophysics, Chinese Academy of Sciences, Beijing 100029, China.

<sup>2</sup>College of Earth and Planetary Sciences, University of Chinese Academy of Sciences, Beijing 100049, China.

<sup>3</sup>Department of Earth and Environmental Sciences, University of Michigan, Ann Arbor, MI 48109, USA.

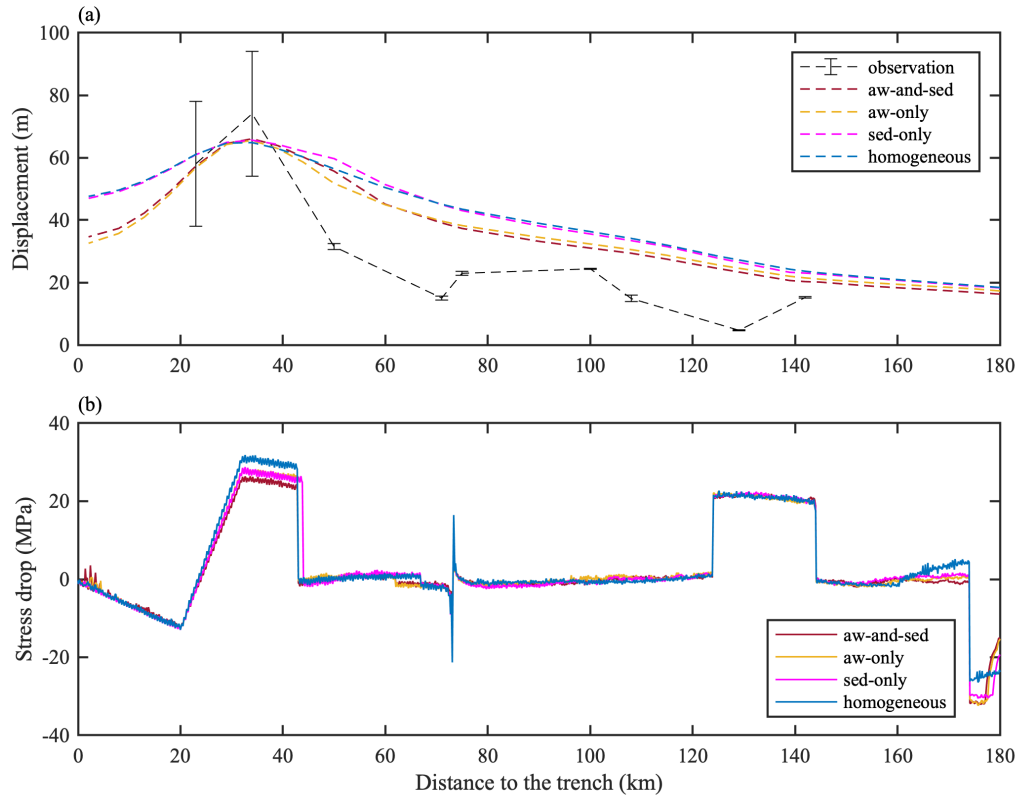
Corresponding author: Xian Li (lixian@mail.iggcas.ac.cn)

**Contents of this file**

Figure S1

**Introduction**

The Supporting Information includes a figure which shows best-fitting horizontal seafloor deformation reproduced by the aw-and-sed, aw-only, sed-only, and homogeneous models and the stress drop distribution.



**Figure S1.** (a) Best-fitting horizontal seafloor deformation reproduced by the aw-and-sed, aw-only, sed-only, and homogeneous models in comparison with the observed deformation. (b) Static stress drop of the four models.