

Supporting Information for “Dynamic rupture modeling of large earthquake scenarios at the Hellenic Arc toward physics-based seismic and tsunami hazard assessment”

Sara Aniko Wirp^{1,4}, Alice-Agnes Gabriel^{1,2}, Thomas Ulrich¹, Stefano Lorito³

¹Department of Earth and Environmental Sciences, Ludwig-Maximilians-Universität München, Munich, Germany

²Scripps Institution of Oceanography, UC San Diego, La Jolla, California, USA

³Istituto Nazionale di Geofisica e Vulcanologia, INGV

⁴GEOMAR Helmholtz Centre for Ocean Research, Kiel, Germany

Contents of this file

Videos S1 to S10

Additional Supporting Information (Files uploaded separately)

Supplementary videos S1 to S10 showing snapshots of slip rate evolution to illustrate dynamic rupture propagation across the Hellenic Arc megathrust for all scenarios.

Introduction

We provide videos of snapshots of the absolute slip rate [m/s] for all ten dynamic rupture scenarios. The videos visualize the dynamic rupture propagation along the Hellenic Arc megathrust. They were generated using the visualization tool ParaView. The Hellenic

Arc is displayed in gray color and the slip rate varies from yellow (low slip rate) to dark red (higher slip rate).

Movie S1: Snapshots of slip rate [m/s] for dynamic rupture scenario HE

Movie S2: Snapshots of slip rate [m/s] for dynamic rupture scenario HM

Movie S3: Snapshots of slip rate [m/s] for dynamic rupture scenario HW

Movie S4: Snapshots of slip rate [m/s] for dynamic rupture scenario HER

Movie S5: Snapshots of slip rate [m/s] for dynamic rupture scenario HEP

Movie S6: Snapshots of slip rate [m/s] for dynamic rupture scenario HEA

Movie S7: Snapshots of slip rate [m/s] for dynamic rupture scenario HMS

Movie S8: Snapshots of slip rate [m/s] for dynamic rupture scenario HES

Movie S9: Snapshots of slip rate [m/s] for dynamic rupture scenario DCA

Movie S10: Snapshots of slip rate [m/s] for dynamic rupture scenario DCAS