

# SEISMOLOGICAL RESEARCH LETTERS

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## Seismological Research Letters—Submissions

*Seismological Research Letters* (SRL) contains articles and items of broad appeal in seismology and earthquake engineering. Articles should be informational in nature and of current interest to a cross-section of SSA membership. Articles expressing some particular view about seismology or seismological research also will be accepted. Articles that contain original research results should be submitted to the *Bulletin of the Seismological Society of America* (BSSA). News and notes, special reports on particular earthquakes, seismic network summaries, information on computer hardware or software pertinent to seismology, seismological equipment information, book reviews, and letters to the editor also are solicited for *SRL*.

Consult the *SRL Information for Authors* at <http://www.seismosoc.org/publications/srl/srl-authorsinfo.php> for details about making submissions. In general, articles should not exceed 20 pages of double-spaced text (excluding figures) unless approved by the editor. Electronic supplements can be considered for *SRL*; the electronic supplement policy is posted at <http://www.seismosoc.org/publications/esupps.php>. The *SRL* Editor in Chief is Zhigang Peng, [srled@seismosoc.org](mailto:srled@seismosoc.org). Upload submissions via *SRL*'s electronic submission system at <http://srl.edmgr.com>. Direct questions about the system to the managing editor at [srl@seismosoc.org](mailto:srl@seismosoc.org).

## Submissions to the Eastern Section of the SSA (ES-SSA) Section of SRL

The ES-SSA Section of *SRL* is devoted to the seismology of continental interiors. Articles pertaining to eastern North American earthquakes, intraplate seismotectonics, and earthquake engineering are particularly encouraged. The ES-SSA editor is Martin C. Chapman, [mcc@vt.edu](mailto:mcc@vt.edu). Appropriate review articles and tutorials are encouraged, as well as news pertaining to the Eastern Section of SSA. Upload submissions via *SRL*'s electronic submission system at <http://srl.edmgr.com>.

## On the Cover

**Front:** Probabilistic forecasting of earthquake-producing fault ruptures informs all major decisions aimed at reducing seismic risk and improving earthquake resilience; the Uniform California Earthquake Rupture Forecast, Version 3 (UCERF3) is the first model to provide self-consistent rupture probabilities over forecasting intervals from less than an hour to more than a century. Field *et al.* (this issue) provide an overview of UCERF3, illustrate the short-term probabilities with aftershock scenarios, and draw conclusions from the modeling results. Shown here are average earthquake nucleation rates following a magnitude 6.1 event near Parkfield, California (white line), as inferred from 200,000 simulations. Note that the new model (UCERF3-ETAS) exhibits triggering on faults, whereas previous models, such as the ETAS case shown at the upper right, have generally ignored faults.

**Back:** Multiple earthquakes in the 2010–2011 Canterbury, New Zealand, sequence induced liquefaction, providing instruction for how to interpret paleo-liquefaction features in the geologic record. The top photo shows a compound sand-silt fissure that formed 30 km southwest of Christchurch during the 22 February 2011 M 6.2 and 13 June 2011 M 6.0 Christchurch earthquakes. The bottom photo shows a sand blow that formed during the 22 February 2011 earthquake mainshock and aftershocks (photos by C. and R. Hardwick). These and other photos, as well as measurements of liquefaction features, can be found in the article and electronic supplement by Tuttle *et al.* (this issue), providing a unique dataset of liquefaction features formed during a modern earthquake sequence.

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