

PM
S44/8

BSSA

Bulletin

*Seismological
Society
of America*

August 2014

Volume 104 • Number 4

Bulletin of the Seismological Society of America

Volume 104 • Number 4 • August 2014

Contents

Ⓔ indicates that online material is available in the electronic edition of BSSA

Articles

- Source Characterization of Underground Explosions from Combined Regional Moment Tensor and First-Motion Analysis 1587
Andrea Chiang, Douglas S. Dreger, Sean R. Ford, and William R. Walter
- Application of Single-Station Sigma and Site-Response Characterization in a Probabilistic Seismic-Hazard Analysis for a New Nuclear Site 1601
A. Rodriguez-Marek, E. M. Rathje, J. J. Bommer, F. Scherbaum, and P. J. Stafford
- Source-Scaling Relationships for the Simulation of Rupture Geometry within Probabilistic Seismic-Hazard Analysis 1620
Peter J. Stafford
- Modeling Distributed Seismicity for Probabilistic Seismic-Hazard Analysis: Implementation and Insights with the OpenQuake Engine 1636
D. Monelli, M. Pagani, G. Weatherill, L. Danciu, and J. Garcia
- Offset of Latest Pleistocene Shoreface Reveals Slip Rate on the Hosgri Strike-Slip Fault, Offshore Central California 1650 Ⓔ
Samuel Y. Johnson, Stephen R. Hartwell, and Peter Dartnell
- Obtaining Spectrum Matching Time Series Using a Reweighted Volterra Series Algorithm (RVSA) 1663
N. A. Alexander, A. A. Chanerley, A. J. Crewe, and S. Bhattacharya
- Removing Infragravity-Wave-Induced Noise from Ocean-Bottom Seismographs (OBS) Data Deployed Offshore of Taiwan 1674
Ban-Yuan Kuo, Spahr C. Webb, Ching-Ren Lin, Wen-Tzong Liang, and Nai-Chi Hsiao
- A New IIR Filter Initialization Technique for Low-Cut (High-Pass) Filtering of Seismic Records 1685
Nuri Özhendekci
- Real-Time Automatic Detectors of *P* and *S* Waves Using Singular Value Decomposition 1696
I. Kurzon, F. L. Vernon, A. Rosenberger, and Y. Ben-Zion
- Estimating Earthquake Magnitudes from Reported Intensities in the Central and Eastern United States 1709
Oliver S. Boyd and Chris H. Cramer
- Stress Transfer by the 2008 M_w 6.4 Achaia Earthquake to the Western Corinth Gulf and Its Relation with the 2010 Efpalio Sequence, Central Greece 1723 Ⓔ
M. Segou, W. L. Ellsworth, and T. Parsons
- Directivity Detection and Source Properties of the 11 May 2011 M_w 5.2 Lorca, Spain, Earthquake 1735
Juan Rueda, Douglas Dreger, Rosa María García Blanco, and Julio Mezcua

Earthquake History of the Sumatran Fault, Indonesia, since 1892, Derived from Relocation of Large Earthquakes <i>Nobuo Hurukawa, Biana Rahayu Wulandari, and Minoru Kasahara</i>	1750
Moment Tensor Inversion of Seismic Events Associated with the Sinkhole at Napoleonville Salt Dome, Louisiana <i>Avinash Nayak and Douglas S. Dreger</i>	1763 (E)
Synthesis of Earthquake-Like Sound Using Seismic Ground-Motion Records <i>Takashi Hirai and Nobuo Fukuwa</i>	1777
Macroscopic Failure Processes at Mines Revealed by Acoustic Emission (AE) Monitoring <i>D. Becker, B. Cailleau, D. Kaiser, and T. Dahm</i>	1785 (E)
Unbiased Estimation of Moment Magnitude from Body- and Surface-Wave Magnitudes <i>Ranjit Das, H. R. Wason, and M. L. Sharma</i>	1802
Rapid Estimates of the Source Time Function and M_w using Empirical Green's Function Deconvolution <i>H. M. Benz and R. B. Herrmann</i>	1812
Evidence of Low-Magnitude Continued Reservoir-Induced Seismicity Associated with the Pertusillo Artificial Lake (Southern Italy) <i>Tony Alfredo Stabile, Alessandro Giocoli, Vincenzo Lapenna, Angela Perrone, Sabatino Piscitelli, and Luciano Telesca</i>	1820 (E)
How Complete is the ISC-GEM Global Earthquake Catalog? <i>Andrew J. Michael</i>	1829
Some Thoughts on Declustering in Probabilistic Seismic-Hazard Analysis <i>W. Marzocchi and M. Taroni</i>	1838
Dynamic Strains at Regional and Teleseismic Distances <i>Duncan Carr Agnew and Frank K. Wyatt</i>	1846 (E)
On the Selection of Ground-Motion Prediction Equations for Probabilistic Seismic-Hazard Analysis <i>Danny Arroyo, Mario Ordaz, and Raúl Rueda</i>	1860
Ground-Motion Simulation and Validation of the 2008 Chino Hills, California, Earthquake Using Different Velocity Models <i>Ricardo Taborda and Jacobo Bielak</i>	1876
Hard-Site κ_0 (Kappa) Calculations for Christchurch, New Zealand, and Comparison with Local Ground-Motion Prediction Models <i>Chris Van Houtte, Olga-Joan Ktenidou, Tam Larkin, and Caroline Holden</i>	1899
Adding Fling Effects to Processed Ground-Motion Time Histories <i>Ronnie Kamai, Norman Abrahamson, and Robert Graves</i>	1914
Validation of Ground-Motion Simulations through Simple Proxies for the Response of Engineered Systems <i>Lynne S. Burks and Jack W. Baker</i>	1930 (E)
The Effects of d_0 on Rupture Propagation on Fault Steppers <i>Julian C. Lozos, James H. Dieterich, and David D. Oglesby</i>	1947
Ambient Noise Analysis in the Eastern Sea of Marmara Region in Northwest Turkey: Lateral Variations of the Crustal Velocity Field <i>Diğdem Acarel, Fatih Bulut, and Marco Bohnhoff</i>	1954
Crustal and Upper-Mantle Anisotropy Related to Fossilized Transpression Fabric along the Denali Fault, Northern Canadian Cordillera <i>N. Rasendra, M. Bonnín, S. Mazzotti, and C. Tiberi</i>	1964 (E)

Crustal Shear-Wave Velocity Models Retrieved from Rayleigh-Wave Dispersion Data in Northern Canada <i>Dariush Motazedian and Shutian Ma</i>	1976
A Method and Example of Seismically Imaging Near-Surface Fault Zones in Geologically Complex Areas Using V_P , V_S , and their Ratios <i>R. D. Catchings, M. J. Rymer, M. R. Goldman, R. R. Sickler, and C. J. Criley</i>	1989
A New Global Rayleigh- and Love-Wave Group Velocity Dataset for Constraining Lithosphere Properties <i>Zhitu Ma and Guy Masters</i>	2007
An Attenuation Study of Body Waves in the South-Central Region of the Gulf of California, México <i>Claudia A. Vidales-Basurto, Raúl R. Castro, Carlos I. Huerta, Danielle F. Sumy, James B. Gaherty, and John A. Collins</i>	2027
Seismic-Wave Attenuation Determined from Tectonic Tremor in Multiple Subduction Zones <i>Suguru Yabe, Annemarie S. Baltay, Satoshi Ide, and Gregory C. Beroza</i>	2043
Spatiotemporal Variation of Fractal Properties in the Source Zone of the 2001 M_w 7.7 Bhuj Earthquake <i>Prantik Mandal and M. Rodkin</i>	2060
Model of Deep Nonvolcanic Tremor Part I: Ambient and Triggered Tremor <i>Naum I. Gershenzon and Gust Bambakidis</i>	2073
Explanation of Temporal Clustering of Tsunami Sources Using the Epidemic-Type Aftershock Sequence Model <i>Eric L. Geist</i>	2091 (E)
Comment and Reply	
Comment on “Advanced Seismic Analyses of the Source Characteristics of the 2006 and 2009 North Korean Nuclear Tests” by J. R. Murphy, J. L. Stevens, B. C. Kohl, and T. J. Bennett <i>Howard J. Patton and Frank V. Pabian</i>	2104 (E)
Reply to “Comment on ‘Advanced Seismic Analyses of the Source Characteristics of the 2006 and 2009 North Korean Nuclear Tests’ by J. R. Murphy, J. L. Stevens, B. C. Kohl, and T. J. Bennett” by H. J. Patton and F. V. Pabian <i>J. R. Murphy, J. L. Stevens, B. C. Kohl, and T. J. Bennett</i>	2111
Short Notes	
Ground-Truth Locations for the Mangyshlak Peaceful Nuclear Explosion Sequence, Western Kazakhstan <i>Kevin G. Mackey and Eric Bergman</i>	2116
Holocene Earthquake History of Cascadia: A Quantitative Test <i>Christopher H. Scholz</i>	2120
Toward an Improved Understanding of the M_N – M_w Time Dependence in Eastern Canada <i>Allison Bent and Helena Greene</i>	2125
Validating Accuracy of Rayleigh-Wave Dispersion Extracted from Ambient Seismic Noise Via Comparison with Data from a Ground-Truth Earthquake <i>Feng Bao, Sidao Ni, Jun Xie, Xiangfang Zeng, Zhenhong Li, and Zhiwei Li</i>	2133 (E)
Teleseismic Virtual-Source Imaging of the Basin Structures in the Three Gorges Region, China <i>Zhihui Zou, Hua-wei Zhou, and Harold Gurrrola</i>	2142 (E)