

ПИ
G 37/a



GEOLOGY

ISSN 0091-7613

AUGUST 2013 • VOL. 41 NO. 8 • P. 817–944



INSIDE:

- Mammoth Unrest in California, p. 847
- Chamber Ensemble Recording, p. 867
- A Drippy Story with a Melting Conclusion, p. 915



- 819 Ductile strain rate measurements document long-term strain localization in the continental crust**
Emmanuelle Boutonnet, Philippe Hervé Leloup, Caroline Sassié, Véronique Gardien, and Yanick Ricard
- 823 Size variation of conodonts during the Smithian–Spathian (Early Triassic) global warming event**
Yanlong Chen, Richard J. Twitchett, Haishui Jiang, Sylvain Richoz, Xulong Lai, Chunbo Yan, Yadong Sun, Xiaodan Liu, and Lina Wang
- 827 Concordant monsoon-driven postglacial hydrological changes in peat and stalagmite records and their impacts on prehistoric cultures in central China**
Shucheng Xie, Richard P. Evershed, Xianyu Huang, Zongmin Zhu, Richard D. Pancost, Philip A. Meyers, Lintfeng Gong, Chaoyong Hu, Junhua Huang, Shihong Zhang, Yansheng Gu, and Junyong Zhu
- 831 Intensified Southern Hemisphere Westerlies regulated atmospheric CO₂ during the last deglaciation**
C. Mayr, A. Lücke, S. Wagner, H. Wissel, C. Ohlendorf, T. Haberzettl, M. Oehlerich, F. Schäbitz, M. Wille, J. Zhu, and B. Zolitschka
- 835 Petrochronology of Himalayan ultrahigh-pressure eclogite**
Dennis G. Donaldson, A. Alexander G. Webb, Carrie A. Menold, Andrew R.C. Kylander-Clark, Bradley R. Hacker
- 839 Are subduction zones invading the Atlantic? Evidence from the southwest Iberia margin**
João C. Duarte, Filipe M. Rosas, Pedro Terrinha, Wouter P. Schellart, David Boutilier, Marc-André Gutscher, and António Ribeiro
- 843 Restraining bend tectonics in the Santa Cruz Mountains, California, imaged using ¹⁰Be concentrations in river sands**
Maria H. Gudmundsdóttir, Kimberly Blisniuk, Yael Ebert, Nathaniel M. Levine, Dylan H. Rood, Alana Wilson, and George E. Hilley
- 847 Seismic investigation of magmatic unrest beneath Mammoth Mountain, California, USA**
Guoqing Lin
- 851 Insights on lava–ice/snow interactions from large-scale basaltic melt experiments**
Benjamin R. Edwards, Jeffrey Karson, Robert Wysocki, Einat Lev, Ilya Bindeman, and Ulrich Kueppers
- 855 Influence of bedrock mineral composition on microbial diversity in a subglacial environment**
Andrew C. Mitchell, Melissa J. Lafrenière, Mark L. Skidmore, and Eric S. Boyd
- 859 How a marsh is built from the bottom up**
John R. Gunnell, A.B. Rodriguez, and B.A. McKee
- 863 Nanocrystalline slip zones in calcite fault gouge show intense crystallographic preferred orientation: Crystal plasticity at sub-seismic slip rates at 18–150 °C**
Berend A. Verberne, Johannes H.P. de Bresser, André R. Niemeijer, Christopher J. Spiers, D.A. Matthijs de Winter, and Oliver Plümper
- 867 Tracking the evolution of large-volume silicic magma reservoirs from assembly to supereruption**
Jörn-Frederik Wotzlaw, Urs Schaltegger, Daniel A. Frick, Michael A. Dungan, Axel Gerdes, and Detlef Günther
- 871 Inversion of a hyper-extended rifted margin in the southern Central Range of Taiwan**
Kirk McIntosh, Harm van Avendonk, Luc Lavier, W. Ryan Lester, Daniel Eakin, Francis Wu, Char-Shine Liu, and Chao-Shing Lee
- 875 Magnetostratigraphic determination of the age of ancient Lake Qinghai, and record of the East Asian monsoon since 4.63 Ma**
Chaofeng Fu, Zhisheng An, Xiaoke Qiang, Jan Bloemendal, Yougui Song, and Hong Chang
- 879 Shear folding in low-grade metasedimentary rocks: Reverse shear along cleavage at a high angle to the maximum compressive stress**
Patrick A. Meere, Kieran F. Mulchrone, and Martin Timmerman
- 883 Metapyroxenite in the mantle transition zone revealed from majorite inclusions in diamonds**
Ekaterina S. Kisieva, Gregory M. Yaxley, Aleksandr S. Stepanov, Hrvoje Tkaločić, Konstantin D. Litasov, and Vadim S. Kamenetsky
- 887 The anatomy of long-term warming since 15 ka in New Zealand based on net glacier snowline rise**
Michael R. Kaplan, Joerg M. Schaefer, George H. Denton, Alice M. Doughty, David J.A. Barrell, Trevor J.H. Chinn, Aaron E. Putnam, Bjørn G. Andersen, Andrew Mackintosh, Robert C. Finkei, Roseanne Schwartz, and Brian Anderson
- 891 Experimental evidence linking slip instability with seafloor lithology and topography at the Costa Rica convergent margin**
Matt J. Ikari, André R. Niemeijer, Christopher J. Spiers, Achim J. Kopf, and Demian M. Saffer
- 895 Evidence for Cnidaria-like behavior in ca. 560 Ma Ediacaran Aspidella**
Latha R. Menon, Duncan McIlroy, and Martin D. Brasier
- 899 Shear heating not a cause of inverted metamorphism**
Steven B. Kidder, Frédéric Herman, Jason Saleby, Jean-Philippe Avouac, Mihai N. Ducea, and Alan Chapman
- 903 Locating South China in Rodinia and Gondwana: A fragment of greater India lithosphere?**
Peter A. Cawood, Yuejun Wang, Yajun Xu, and Guochun Zhao
- 907 Seawater chemistry driven by supercontinent assembly, breakup, and dispersal**
R.D. Müller, A. Dutkiewicz, M. Seton, and C. Gaina
- 911 Slab rollback rate and trench curvature controlled by arc deformation**
David Boutilier and Alexander Cruden
- 915 Mantle-drip magmatism beneath the Altiplano-Puna plateau, central Andes**
M.N. Ducea, A.C. Seclaman, K.E. Murray, D. Jianu, and L.M. Schoenbohm
- 919 Tsunami recurrence revealed by *Porites* coral boulders in the southern Ryukyu Islands, Japan**
Daisuke Araoka, Yusuke Yokoyama, Atsushi Suzuki, Kazuhisa Goto, Kunimasa Miyagi, Keitaro Miyazawa, Hiroyuki Matsuzaki, and Hodaka Kawahata
- 923 Dynamic polar climates in a greenhouse world: Evidence from clumped isotope thermometry of Early Cretaceous belemnites**
Gregory D. Price and Benjamin H. Passey
- 927 Thermal decomposition along natural carbonate faults during earthquakes**
Cristiano Collettini, Cecilia Viti, Telemaco Tesei, and Silvio Mollo
- 931 Isotopic shifts in the Cenozoic Andean arc of central Chile: Records of an evolving basement throughout cordilleran arc mountain building**
Marcia Muñoz, Marcelo Farías, Reynaldo Charrier, C. Mark Fanning, Mireille Polvé, and Katja Deckart
- 935 A slump in the trench: Tracking the impact of the 2011 Tohoku-Oki earthquake**
M. Strasser, M. Kölling, C. dos Santos Ferreira, H.G. Fink, T. Fujiwara, S. Henkel, K. Ikebara, T. Kanamatsu, K. Kawamura, S. Kodaira, M. Römer, G. Wefer, and the R/V Sonne Cruise SO219A and JAMSTEC Cruise MR12-E01 scientists
- 939 Coastline retreat via progressive failure of rocky coastal cliffs**
Nick J. Rosser, Matthew J. Brain, David N. Petley, Michael Litt, and Emma C. Norman
- 943 The ephemeral life of a salt marsh**
Sergio Fagherazzi

Федеральное государственное
бюджетное учреждение науки
Центральная научная библиотека
Уральского отделения
Российской академии наук (ЦНБ УрО РАН)