



Geophysical Journal International

Volume 180 Issue 2 (February 2010)

GEODYNAMICS AND TECTONICS

Three-dimensional GPR imaging of the Benmore anticline and step-over of the Ostler Fault, South Island, New Zealand (p 465-474)

Shamus C. Wallace, David C. Nobes, Kenneth J. Davis, Douglas W. Burbank, Antony White

Published Online: Dec 3 2009 12:41PM

DOI: 10.1111/j.1365-246X.2009.04400.x

The compressional and compositional stratifications in Maxwell earth models: the gravitational overturning and the long-period tangential flux (p 475-500)

G. Cambiotti, R. Sabadini

Published Online: Dec 22 2009 1:01PM

DOI: 10.1111/j.1365-246X.2009.04434.x

Continental break-up history of a deep magma-poor margin based on seismic reflection data (northeastern Gulf of Aden margin, offshore Oman) (p 501-519)

Julia Autin, Sylvie Leroy, Marie-Odile Beslier, Elia d'Acremont, Philippe Razin, Alessandra Ribodetti, Nicolas Bellahsen, Cécile Robin, Khalfan Al Toubi

Published Online: Dec 11 2009 5:11AM

DOI: 10.1111/j.1365-246X.2009.04424.x

Evidence of partial melting beneath a continental margin: case of Dhofar, in the Northeast Gulf of Aden (Sultanate of Oman) (p 520-534)

C. Basuyau, C. Tiberi, S. Leroy, G. Stuart, A. Al-Lazki, K. Al-Toubi, C. Ebinger

Published Online: Dec 11 2009 5:11AM

DOI: 10.1111/j.1365-246X.2009.04438.x

Volcanism, jump and propagation on the Sheba ridge, eastern Gulf of Aden: segmentation evolution and implications for oceanic accretion processes (p 535-551)

Elia d'Acremont, Sylvie Leroy, Marcia Maia, Pascal Gente, Julia Autin

Published Online: Dec 11 2009 5:12AM

DOI: 10.1111/j.1365-246X.2009.04448.x

Seismic activity at Cadamosto seamount near Fogo Island, Cape Verdes—formation of a new ocean island? (p 552-558)

Ingo Grevemeyer, George Helffrich, Bruno Faria, Guillermo Booth-Rea, Michael Schnabel, Wilhelm Weinrebe

Published Online: Dec 3 2009 12:40PM

DOI: 10.1111/j.1365-246X.2009.04440.x

Bending mechanics and mode selection in free subduction: a thin-sheet analysis (p 559-576)

Neil M. Ribe

Published Online: Dec 22 2009 1:18PM

DOI: 10.1111/j.1365-246X.2009.04460.x

GEOMAGNETISM, ROCK MAGNETISM AND PALAEOMAGNETISM

Palaeomagnetism of the Western and Central sectors of the Trans-Mexican volcanic belt—implications for tectonic rotations and palaeosecular variation in the past 11 Ma (p 577-595)

V. C. Ruiz-Martínez, J. Urrutia-Fucugauchi, M. L. Osete

Published Online: Dec 7 2009 6:59PM

DOI: 10.1111/j.1365-246X.2009.04447.x

Archaeointensity determinations from Italy: new data and the Earth's magnetic field strength variation over the past three millennia (p 596-608)

Evdokia Tema, Avto Goguitchaichvili, Pierre Camps
Published Online: Dec 16 2009 8:24AM
DOI: 10.1111/j.1365-246X.2009.04455.x

Holocene palaeomagnetic secular variation recorded in multiple lake sediment cores from eastern Finland (p 609-622)

Eeva Haltia-Hovi, Norbert Nowaczyk, Timo Saarinen
Published Online: Dec 16 2009 8:27AM
DOI: 10.1111/j.1365-246X.2009.04456.x

GRAVITY, GEODESY AND TIDES

A new projection of sea level change in response to collapse of marine sectors of the Antarctic Ice Sheet (p 623-634)

Natalya Gomez, Jerry X. Mitrovica, Mark E. Tamisiea, Peter U. Clark
Published Online: Dec 10 2009 4:08AM
DOI: 10.1111/j.1365-246X.2009.04419.x

Gravity variations induced by core flows (p 635-650)

Mathieu Dumberry
Published Online: Dec 16 2009 11:10AM
DOI: 10.1111/j.1365-246X.2009.04437.x

Radon signals in the Gavnunim intrusion, Makhtesh Ramon, Israel (p 651-665)

G. Steinitz, O. Piatibratova
Published Online: Dec 7 2009 7:02PM
DOI: 10.1111/j.1365-246X.2009.04450.x

MARINE GEOSCIENCES AND APPLIED GEOPHYSICS

Gas hydrates, free gas distribution and fault pattern on the west Svalbard continental margin (p 666-684)

Gianni Madrussani, Giuliana Rossi, Angelo Camerlenghi
Published Online: Nov 18 2009 11:22AM
DOI: 10.1111/j.1365-246X.2009.04425.x

MINERAL PHYSICS, RHEOLOGY, HEAT FLOW AND VOLCANOLOGY

Upper crustal structure of an active volcano from refraction/reflection tomography, Montserrat, Lesser Antilles (p 685-696)

M. Paulatto, T. A. Minshull, B. Baptie, S. Dean, J. O. S. Hammond, T. Henstock, C. L. Kenedi, E. J. Kiddle, P. Malin, C. Peirce, G. Ryan, E. Shalev, R. S. J. Sparks, B. Voight
Published Online: Dec 7 2009 6:59PM
DOI: 10.1111/j.1365-246X.2009.04445.x

SEISMOLOGY: Fast Track

Experimental observation of stick-slip instability fronts (p 697-702)

S. Nielsen, J. Taddeucci, S. Vinciguerra
Published Online: Dec 9 2009 8:58AM
DOI: 10.1111/j.1365-246X.2009.04444.x

Evidence of active backthrusting at the NE Margin of Mentawai Islands, SW Sumatra (p 703-714)

Satish C. Singh, Nugroho D. Hananto, Ajay P. S. Chauhan, H. Permana, Marine Denolle, Andri Hendriyana, Danny Natawidjaja
Published Online: Dec 22 2009 1:14PM
DOI: 10.1111/j.1365-246X.2009.04458.x

SEISMOLOGY

The buried shape of an alpine valley from gravity surveys, seismic and ambient noise analysis (p 715-733)

C. Barnaba, L. Marello, A. Vuan, F. Palmieri, M. Romanelli, E. Priolo, C. Braitenberg
Published Online: Dec 7 2009 6:59PM
DOI: 10.1111/j.1365-246X.2009.04428.x

Virtual California earthquake simulations: simple models and their application to an observed sequence of earthquakes (p 734-742)

M. B. Yikilmaz, D. L. Turcotte, G. Yakovlev, J. B. Rundle, L. H. Kellogg

Published Online: Dec 3 2009 4:20AM

DOI: 10.1111/j.1365-246X.2009.04435.x

S-wave velocities and anisotropy in sediments entering the Nankai subduction zone, offshore Japan (p 743-758)

S. Peacock, G. K. Westbrook, G. Bais

Published Online: Nov 30 2009 5:07AM

DOI: 10.1111/j.1365-246X.2009.04430.x

Retrieval of Green's function having coda waves from the cross-correlation function in a scattering medium illuminated by a randomly homogeneous distribution of noise sources on the basis of the first-order Born approximation (p 759-764)

Haruo Sato

Published Online: Nov 30 2009 11:14AM

DOI: 10.1111/j.1365-246X.2009.04432.x

Variations of the velocity contrast and rupture properties of M6 earthquakes along the Parkfield section of the San Andreas fault (p 765-780)

Peng Zhao, Zhigang Peng, Zheqiang Shi, Michael A. Lewis, Yehuda Ben-Zion

Published Online: Dec 7 2009 7:00PM

DOI: 10.1111/j.1365-246X.2009.04436.x

Seismoelectric response of heavy oil reservoirs: theory and numerical modelling (p 781-797)

A. Revil, A. Jardani

Published Online: Nov 26 2009 11:35AM

DOI: 10.1111/j.1365-246X.2009.04439.x

Gaussian beams in inhomogeneous anisotropic layered structures (p 798-812)

Vlastislav Červený, Ivan P šenčík

Published Online: Nov 30 2009 11:08AM

DOI: 10.1111/j.1365-246X.2009.04442.x

Fluid-induced microseismicity in pre-stressed rock masses (p 813-819)

M. Schoenball, T. M. Müller, B. I. R. Müller, O. Heidbach

Published Online: Dec 7 2009 7:01PM

DOI: 10.1111/j.1365-246X.2009.04443.x

Ambient vibration analysis of an unstable mountain slope (p 820-828)

Jan Burjánek, Gabriela Gassner-Stamm, Valerio Poggi, Jeffrey R. Moore, Donat Fäh

Published Online: Dec 9 2009 9:00AM

DOI: 10.1111/j.1365-246X.2009.04451.x

Improvements to detection capability by cross-correlating for similar events: a case study of the 1999 Xiuyan, China, sequence and synthetic sensitivity tests (p 829-846)

David Schaff

Published Online: Dec 3 2009 12:40PM

DOI: 10.1111/j.1365-246X.2009.04446.x

Reducing errors in seismic tomography: combined inversion for sources and structure (p 847-857)

Andrew P. Valentine, John H. Woodhouse

Published Online: Dec 9 2009 9:04AM

DOI: 10.1111/j.1365-246X.2009.04452.x

Anomalous pre-seismic transmission of VHF-band radio waves resulting from large earthquakes, and its statistical relationship to magnitude of impending earthquakes (p 858-870)

T. Moriya, T. Mogi, M. Takada

Published Online: Dec 24 2009 6:10AM

DOI: 10.1111/j.1365-246X.2009.04461.x

Regularization of linear and non-linear geophysical ill-posed problems with joint sparsity constraints (p 871-882)

A. Gholami, H. R. Siahkoobi

Published Online: Dec 22 2009 1:00PM

DOI: 10.1111/j.1365-246X.2009.04453.x

Application of acoustic noise and self-potential localization techniques to a buried hydrothermal vent (Waimangu Old Geyser site, New Zealand) (p 883-890)

J. Vandemeulebrouck, P. Roux, P. Gouédard, A. Legaz, A. Revil, A.W. Hurst, A. Bolève, A. Jardani

Published Online: Dec 9 2009 9:07AM

DOI: 10.1111/j.1365-246X.2009.04454.x

Three-dimensional Q_p - and Q_s -tomography beneath Taiwan orogenic belt: implications for tectonic and thermal structure (p 891-910)

Yu-Ju Wang, Kuo-Fong Ma, Frederic Mouthereau, Donna Eberhart-Phillips

Published Online: Dec 24 2009 6:09AM

DOI: 10.1111/j.1365-246X.2009.04459.x