

NU
pgf/g

pure and applied geophysics

Vol. 170
Nos. 6–8
pp. 955–1360
2013
ISSN 0033-4553

Special Issue:
Historical and Recent
Catastrophic Tsunamis in
the World
Vol. I - The 2011 Tohoku Tsunami

Editors:
Kenji Satake
Alexander B. Rabinovich
Dale Dominey-Howes
José C. Borrero



pageoph

 Birkhäuser

Pure and Applied Geophysics

Volume 170 · Numbers 6–8 · June 2013

- 955** **Introduction to “Historical and Recent Catastrophic Tsunamis in the World: Volume I. The 2011 Tohoku Tsunami”**
K. Satake · A.B. Rabinovich · D. Dominey-Howes · J.C. Borrero
- 963** **From 3-Hz P Waves to ϕS_2 : No Evidence of A Slow Component to the Source of the 2011 Tohoku Earthquake**
E.A. Okal
- 975** **On the Application of Mwp in the Near Field and the March 11, 2011 Tohoku Earthquake**
B. Hirshorn · S. Weinstein · S. Tsuboi
- 993** **Lessons Learned from the 2011 Great East Japan Tsunami: Performance of Tsunami Countermeasures, Coastal Buildings, and Tsunami Evacuation in Japan**
A. Suppasri · N. Shuto · F. Imamura · S. Koshimura · E. Mas · A.C. Yalciner
- 1019** **The 11 March 2011 East Japan Earthquake and Tsunami: Tsunami Effects on Coastal Infrastructure and Buildings**
H. Yeh · S. Sato · Y. Tajima
- 1033** **The 11 March 2011 Tohoku Tsunami Survey in Rikuzentakata and Comparison with Historical Events**
H. Liu · T. Shimozono · T. Takagawa · A. Okayasu · H.M. Fritz · S. Sato · Y. Tajima
- 1047** **Salinity in Soils and Tsunami Deposits in Areas Affected by the 2010 Chile and 2011 Japan Tsunamis**
T. Yoshii · M. Imamura · M. Matsuyama · S. Koshimura · M. Matsuoka · E. Mas · C. Jimenez
- 1067** **Satellite Data for a Rapid Assessment of Tsunami Inundation Areas after the 2011 Tohoku Tsunami**
M.T. Ramírez-Herrera · J.A. Navarrete-Pacheco
- 1081** **Coastal Sedimentation Associated with the Tohoku Tsunami of 11 March 2011 in South Kuril Islands, NW Pacific Ocean**
N.G. Razjigaeva · L.A. Ganzev · T.A. Grebennikova · E.D. Ivanova · A.A. Kharlamov · V.M. Kaistrenko · A.A. Shishkin
- 1103** **Manifestation of the 2011 Great Tohoku Tsunami on the Coast of the Kuril Islands: A Tsunami with Ice**
V. Kaistrenko · N. Razjigaeva · A. Kharlamov · A. Shishkin
- 1115** **Tide-Tsunami Interaction in Columbia River, as Implied by Historical Data and Numerical Simulations**
E. Tolkova



- 1127 Observations and Impacts from the 2010 Chilean and 2011 Japanese Tsunamis in California (USA)**
R.I. Wilson · A.R. Admire · J.C. Borrero · L.A. Dengler · M.R. Legg · P. Lynett · T.P. McCrink · K.M. Miller · A. Ritchie · K. Sterling · P.M. Whitmore
- 1149 Frequency Domain Response at Pacific Coast Harbors to Major Tsunamis of 2005–2011**
X. Xing · Z. Kou · Z. Huang · J.-J. Lee
- 1169 The 2010 and 2011 Tsunamis in French Polynesia: Operational Aspects and Field Surveys**
D. Reymond · O. Hyvernaud · E.A. Okal
- 1189 Coastal Impacts of the March 11th Tohoku, Japan Tsunami in the Galapagos Islands**
P. Lynett · R. Weiss · W. Renteria · G. De La Torre Morales · S. Son · M.E.M. Arcos · B.T. MacInnes
- 1207 Effects of the March 2011 Japanese Tsunami in Bays and Estuaries of SE Australia**
J.B. Hinwood · E.J. Mclean
- 1229 Observations, Effects and Real Time Assessment of the March 11, 2011 Tohoku-oki Tsunami in New Zealand**
J.C. Borrero · R. Bell · C. Csato · W. DeLange · D. Goring · S.D. Greer · V. Pickett · W. Power
- 1249 Comparison of the 2010 Chile and 2011 Japan Tsunamis in the Far Field**
J.C. Borrero · S.D. Greer
- 1275 Waveform and Spectral Analyses of the 2011 Japan Tsunami Records on Tide Gauge and DART Stations Across the Pacific Ocean**
M. Heidarzadeh · K. Satake
- 1295 Japan's 2011 Tsunami: Characteristics of Wave Propagation from Observations and Numerical Modelling**
I.V. Fine · E.A. Kulikov · J.Y. Cherniawsky
- 1309 Modeling of the 2011 Japan Tsunami: Lessons for Near-Field Forecast**
Y. Wei · C. Chamberlin · V.V. Titov · L. Tang · E.N. Bernard
- 1333 Numerical Simulation of the 2011 Tohoku Tsunami Based on a New Transient FEM Co-seismic Source: Comparison to Far- and Near-Field Observations**
S.T. Grilli · J.C. Harris · T.S. Tajalli Bakhsh · T.L. Masterlark · C. Kyriakopoulos · J.T. Kirby · F. Shi

Further articles can be found at www.springerlink.com

Instructions for Authors for *Pure Appl. Geophys.* are available at www.springer.com/00024