

3rd International Symposium on Earthquake and Disaster Mitigation 2013

Procedia Earth and Planetary Science Volume 12

**Yogyakarta, Indonesia
17-18 December 2013**

Editors:

Irwan Meilano

Phil Cummins

ISBN: 978-1-5108-0603-0

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571

CURRAN ASSOCIATES INC.
proceedings
.com

Some format issues inherent in the e-media version may also appear in this print version.

Copyright© by Elsevier B.V.
All rights reserved.

Printed by Curran Associates, Inc. (2015)

For permission requests, please contact Elsevier B.V.
at the address below.

Elsevier B.V.
Radarweg 29
Amsterdam 1043 NX
The Netherlands

Phone: +31 20 485 3911
Fax: +31 20 485 2457

<http://www.elsevierpublishingsolutions.com/contact.asp>

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com



Contents

Effects and Behavior of Pyroclastic and Lahar Deposits of the 2010 Merapi Eruption Based on High-resolution Optical Imagery A. Solikhin, J.-C. Thouret, A. Gupta, D.S. Sayudi, J.-F. Oehler, S.C. Liew	1
Rapid Moment Magnitude Estimation Using Strong Motion Derived Static Displacements M. Muzli, G. Asch, J. Saul, J. Murjaya	11
Assessment on the Characteristics and the Damping Performance of Coastal Forests in Pangandaran after the 2006 Java Tsunami S. Husrin, J. Kelvin, A. Putra, J. Prihantono, Y. Cara, A. Hani	20
Seismic Behaviors Estimation of the Shallow and Deep Soil Layers Using Microtremor Recording and EGF Technique in Yogyakarta City, Central Java Island Z.L. Kyaw, S. Pramumijoyo, S. Husein, T.F. Fathani, J. Kiyono	31
Land Subsidence in Bandung Basin and its Possible Caused Factors I. Gumilar, H.Z. Abidin, L.M. Hutasoit, D.M. Hakim, T.P. Sidiq, H. Andreas	47
Joint Inversion of RMT and TEM Data for Mapping Active Faults in Northern Greece Widodo	63
Analysis of the Shallow Structures of Active Fault Zones Using 3D Radiomagnetotelluric Data Set Widodo, B. Tezkan	68
Identification of Engineering Bedrock in Jakarta by Using Array Observations of Microtremors M. Ridwan, S. Widiyantoro, Afnimar, M. Irsyam	77
Detecting Surface Structures after Large Eruption of Mt. Merapi in 2010 Using ALOS/PALSAR Data A. Saepuloh, N. Aisyah, M. Urai	84