



Journal of the Balkan Geophysical Society

published by The Chamber of Geophysical Engineers of Turkey
on behalf of the Balkan Geophysical Society

EXECUTIVE COMMITTEE (2011-2013)

President
István Késmárky

Vice-President
Salvatore Bushati

Vice-President
Snezana Komatina

Scientific Secretary
Tamás J. Bodoky

Secretary Treasurer
Attila Csaba Kovács

Member
Endre Törös

Member
Kristóf Kakas

Printed by
**The Chamber of Geophysical
Engineers of Turkey
on behalf of
The Balkan Geophysical
Society**

Milli Müdafaa Cad. No:10/7 P.K
749 06650 Kızılay-Ankara
TURKEY

jfmo@jeofizik.org.tr

KARDELEN OFSET MATBAACILIK
İncesu Cad. 96'lar Apt. 6/Y
Kolej / ANKARA - TURKEY
Tel/Faks: 0.312 432 1 378 • 432 2 378
www.kardelenofset.com.tr
kardelenofset@gmail.com

VOLUME 9 (2006)

- Analysis of potential field anomalies in Pasinler-Horasan basin, Eastern Turkey
Kenan Gelisli and Nafiz Maden.....1
- Detection of cavities in gypsum
Emin U. Ulugergerli and İrfan Akca.....8

VOLUME 10 (2007)

- Magnetic investigation at the Amorium archaeological site, Emirdağ, Afyon, Turkey
Mehmet A. Kaya, Yunus L. Ekinci, Pinar Yiğit and Christopher S. Lightfoot.....1
- Temperature field study of fractured hydrothermal reservoirs in SE Bulgaria (Bourgas basin)
Klara Bojadgieva, Vladimir Hristov, Bozhidar Srebrov.....8
- 3D resistivity imaging of buried tombs at the Parion necropolis (NW Turkey)
Yunus L. Ekinci and Mehmet A. Kaya.....16

VOLUME 11 (2008)

- 2D focusing inversion of gravity data with the use of parameter variation as a stopping criterion
Yunus L. Ekinci.....1

VOLUME 12 (2009)

- Crustal structures beneath the seismogenic zones and lateral velocity contrasts across deep faults of Albania
Rrapo Ormeni.....1
- Geophysical outlook on structure of the Albanides
Alfred Frasherri, Salvatore Bushati and Vilson Bare.....9

VOLUME 13 (2010)

- Integrated geophysical methods for imaging saline karst aquifers. A case study of Stylos, Chania, Greece
Hamdan Hamdan, George Kritikakis, Nikos Andronikidis, Nikos Economou, Emmanouil Manoutsoglou and Antonis Vafidis.....1
- Hydrocarbon exploration under Kruja zone in Tirana-Rodon area, Albania
Vilson Silo, Pertef Nishani and Erald Silo.....9
- Geophysical investigations for aquifer detection in fissured rocks of volcanic origin. A case history
Taxiarhis D. Papadopoulos I, George Stournaras and John D. Alexopoulos.....17
- Performance of the finite element method for regional - residual separation on gravity method
İlknur Kaftan, Mujgan Şalk, Coşkun Sarı.....25
- Delineation of gypsum/anhydrite transition zone using electrical tomography. A case study in an active open pit, Altsi, Crete, Greece
Emmanouil Manoutsoglou, George Vachlas, George Panagopoulos and Hamdan Hamdan.....37

EDITOR

Antonis Vafidis

Professor of Technical University of Crete
Applied Geophysics Laboratory
Department of Mineral Resources Engineering Polytechniupolis
73100 Chania, GREECE
vafidis@mred.tuc.gr

ASSOCIATE EDITORS

Salvatore Lorenc Bushati

General Director
Center of Geophysical &
Geochemical Enterprises
L.9, Blloku "Vasil Shanto", Tirana, Albania
Bushati@cgge.tirana.al

Dumitru Ioane

Geological Survey of Romania
6 Traian Vuia Street,
020956, Bucharest, Romania
ioane@gg.unibuc.ro

Miroslav R. Starcevic

Faculty of Mining and Geology
Department of Geophysics University
of
Belgrade Djusina 7, 11000 Belgrade,
Serbia
mstarcevic@rgz.gov.rs

Petar Y. Stavrev

University of Mining and Geology "Saint
Ivan Rilski"
Department of Applied Geophysics
1700 Sofia, Bulgaria
stavrev@staff.mgu.bg

Louis John

Geophysics-Geothermic Department of the
University of Athens Panepistimiopolis,
15771 Ilissia, Athens, Greece

Balkan Geophysical Society (BGS) is a non-profit organization, constituted in accordance with the agreement, which was set up in 1993 between the geophysical societies of Balkan Peninsula countries. The member societies include Association of Geophysicists of Albania, Bulgarian Geophysical Society, Hellenic Geophysical Union, Romanian Society of Geophysics, Association of Geophysicists of Serbia and The Chamber of Geophysical Engineers of Turkey that enjoy equal rights in the activities and administration of the BGS.

The objectives of the BGS are to promote the application of geophysics, to foster the collaboration and mutual assistance between geophysicists of member countries. The BGS achieves its objectives through joint research projects, publications, congresses, workshops, courses, inviting lecturers. The BGS shall be to develop closer cooperation with the international geophysical societies.

The Journal of the Balkan Geophysical Society is published electronically. The published articles will not be altered once they appear on the web site of Balkan Geophysical Society (<http://www.balkangeophysoc.gr>). The traditional journal elements such as peer-review and editing are applied to the submitted papers. Papers are stored in Adobe PDF format and they can be viewed and printed by using freely distributed program Adobe Acrobat Reader.

The Journal of the Balkan Geophysical Society can be freely copied and redistributed in printed or digital form. But, the content of the papers cannot be altered digitally and any part of a paper (text or figure) cannot be used for any purpose without the permission of the author(s) and the editor.