

Full CV

EMMANUEL M. SCORDILIS

Date of birth: 21 December 1958

Education

Geology degree (1982), PhD in Seismology (1985)

Current position

Professor of Seismology,
Department of Geophysics, School of Geology, Faculty of Science, Aristotle University
of Thessaloniki.

Previous Positions

- Research assistant, AUTH - (1987-1989).
- Seismologist, AUTH - (1989–1998)
- Lecturer, AUTH - (1998–2003)
- Assistant Professor, AUTH – (2003–2009)
- Associate Professor, AUTH – (2009–2014)
- Professor, AUTH – (2014-...)

Field experience

- Installation and monitoring of portable, analog and digital, seismographic networks deployed to study seismotectonic properties and/or evolution of seismic sequences.
- Geophysical prospecting for geotechnical and archaeological exploration.
- Participation in the installation and operation of the Seismic Network of the Geophysical Laboratory of AUTH and the Hellenic Unified Seismic Network.

Research activity

- Seismotectonics
- Seismic sequences.
- Time dependent seismicity
- Earthquake prediction based on seismicity and probabilistic models.
- Magnitude scales – Compilation & homogenization of earthquake catalogs
- Intermediate term earthquake prediction

Teaching experience

- Various courses to undergraduate students of the School of Geology and of the School of Civil Engineering which include: *"Applied Geophysics I"*, *"Applied Seismology and Environment"*, *"Mechanical Oscillations and Elastic Waves"*, *"Introduction to Seismology"*, *"Engineering Seismology"* and *"Engineering Seismology and Soil Dynamics"*.
- Various courses to the post-graduate students of the School of Geology and of the School of Civil Engineering which include: *"Generation, Propagation and Recording of Seismic Waves"*, *"Advanced Applied Seismology"*, *"Engineering Seismology and Soil Dynamics"* and *"Computer Applications in Solving Problems in Geophysics"*.

- Supervision of 39 undergraduate theses (2 in progress), 10 MSc. theses (one in progress) and 6 PhD theses.
- Tutor Greek rescue teams (under Civil Protection) in seismology issues

Research Projects

Participated in 73 projects of seismology and applied geophysics.

Conferences

Participated in 40 international and national conferences, in most of them with presentations. Invited speaker in four (4) of them. Member of the Organizing Committee in two (2) of them.

Cooperations

- Institute IRIGM, Joseph Fourier University, Grenoble, France
- School of Environmental Sciences, East Anglia University, Norwich, UK
- Seismological Institute, Academy of Sciences, Tirana, Albania
- Institute of Meteorology and Geophysics, University of Frankfurt, Germany
- Laboratory of Electronics, Department of Electrical and Computer Engineering, University of Thrace, Greece.

Membership

- Hellenic Association of Geologists
- Geological Society of Greece
- Geotechnical Chamber of Greece
- Hellenic Geophysical Union
- European Mediterranean Seismological Center, EMSC, (representative of Geophysical Laboratory of AUTH)

Publications

- Published more than 110 research papers in international journals and proceedings of international conferences, receiving more than 2000 references (self-references excluded).
- Co-author in one book and two special volumes.

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BOOK AUTHORIZING

Co-author in the book:

Papazachos, B.C., **Scordilis, E.M.**, Papaioannou, Ch.A. and K.S. Solomi. "The Earthquakes of Cyprus", Ziti publications, Thessaloniki, 110pp, ISBN: 978-960-456-380-7, 2013.

PUBLICATIONS

1. Dissertations

1.1. **Σκορδύλης, E.M.** Μικροσεισμική μελέτη της Σερβομακεδονικής ζώνης και των γύρω περιοχών. "Διδακτορική Διατριβή, Πανεπιστήμιο Θεσσαλονίκης", σελ. 250, 1985.

2. Publications in International Journals and Proceedings of International Congresses (full texts – reviewed)

2.1. Papazachos, B.C., Comninakis, P.E., Papadimitriou, E.E. and **Scordilis, E.M.** Properties of the February - March 1981 seismic sequence in the Alkyonides gulf of Central Greece. "Annales Geophysicae", 2, 5, 537-544, 1984.

2.2. Κυρατζή, A.A., **Σκορδύλης, E.M.**, Θεοδοουλίδης, N.Π. και Παπαζάχος, B.K. Ιδιότητες των σεισμικών εστιών και του μέσου διάδοσης των σεισμικών κυμάτων που καθορίζουν τις σεισμικές βλάβες στον Ελληνικό χώρο. "Πρακτικά συνεδρίου ΣΕΙΣΜΟΙ ΚΑΙ ΚΑΤΑΣΚΕΥΕΣ, Φεβρουάριος 1984, Αθήνα", 262-274, 1984.

2.3. Karakaisis, G.F., Karakostas, B.G., Papadimitriou, E.E., **Scordilis, E.M.** and Papazachos, B.C. Seismic sequences in Greece interpreted in terms of the barrier model. "Nature", Vol. 315, 6016, 212-214, 1985.

2.4. Rocca, A.Ch., Karakaisis, G.F., Karakostas, B.G., Kiratzi, A.A., **Scordilis, E.M.**, and Papazachos, B.C. Further evidence on the strike-slip faulting of the Northern Aegean trough based on the properties of the August - November 1983 seismic sequence. "Bolletino di Geofisica Teorica ed Applicata", XXVII, 106, 101-109, 1985.

2.5. **Scordilis, E.M.**, Karakaisis, G.F., Karakostas, B.G., Panagiotopoulos, D.G., Comninakis, P.E. and Papazachos, B.C. Evidence for transform faulting in the Ionian sea: The Cephalonia Island earthquake sequence of 1983. "Pure and Applied Geophysics", Vol. 123, 388-397, 1985.

2.6. Hatzfeld, D., Christodoulou, A.A., **Scordilis, E.M.**, Panagiotopoulos, D.G. and Hatzidimitriou, P.M. A microearthquake study of the Mygdonian graben (Northern Greece). "Earth and Planetary Science Letters", 81, 379-396, 1987.

2.7. Παπαζάχος, B.K., Παναγιωτόπουλος, Δ.Γ., Ρόκκα, A.X. **Σκορδύλης, E.M.** και Χατζηδημητρίου, Π.Μ. Στατικές και δυναμικές ιδιότητες της λιθόσφαιρας στην ευρύτερη περιοχή του Αιγαίου και της ανατολικής Μεσογείου. "Δελτίο της Ελληνικής Γεωλογικής Εταιρείας", Vol. XIX, 9-44, 1987.

2.8. Panagiotopoulos, D.G., **Scordilis, E.M.**, Hatzidimitriou, P.M., Rocca, A.C. and Papazachos, B.C. Further evidence on the deep tectonics of the Aegean and Eastern Mediterranean area. "Proc. of the XIX General Assembly of

- the European Seismological Commission, Moscow, October 1-6, 1984", NAUKA, 494-499, 1988.*
- 2.9. Papazachos, B.C., Kiratzi, A.A., Karakostas, B.G., Panagiotopoulos, D.G., **Scordilis, E.M.** and Mountrakis, D.M. Surface fault traces, fault plane solution and spatial distribution of the aftershocks of the September 13, 1986 earthquake of Kalamata (Southern Greece). *"Pure and Applied Geophysics"*, Vol. 126, No. 1, 55-68, 1988.
 - 2.10. Tsapanos, T.M., Karakaisis, G.F., Hatzidimitriou, P.M. and **Scordilis, E.M.** On the probability of the time of occurrence of the largest aftershock and of the largest foreshock in a seismic sequence. *"Tectonophysics"*, 149, 177-180, 1988.
 - 2.11. Hatzfeld, D., Pedotti, G., Hatzidimitriou, P., Panagiotopoulos, D., **Scordilis, E.**, Drakopoulos, J., Makropoulos, K., Delibasis, N., Latousakis, J., Baskoutas, J. and Frogneux, M. The Hellenic subduction beneath the Peloponnesus: first results of a microearthquake study. *"Earth and Planetary Science Letters"*, 93, 283-291, 1989.
 - 2.12. **Scordilis, E.M.**, Karakaisis, G.F., Papadimitriou, E.E. and Margaritis, B.N. A microseismicity study of the Servomacedonian zone and the surrounding area. *"Geologica Rhodopica"*, 1, 79-83, 1989.
 - 2.13. **Scordilis, E.M.**, Theodoulidis, N.P., Hatzidimitriou, P.M., Panagiotopoulos, D.G. and Hatzfeld, D. Microearthquake study and near-field seismic wave attenuation in the Mygdonian graben (Northern Greece). *"Geologica Rhodopica"*, 1, 84-92, 1989.
 - 2.14. Tsapanos, T.M., **Scordilis, E.M.** and Papazachos, B.C. Global seismicity during the time period 1966 - 1985. *"Proc. of the XXII General Assembly of the European Seismological Commission, Barcelona, September 17-22, 1990"*, 709-714, 1990.
 - 2.15. Papazachos, B.C., Tsapanos, T.M., **Scordilis, E.M.**, Bagiatis, C.B. and Koukouvinos, Ch.C. Evidence for a stochastic model of global seismicity. *"Bulletin of Geological Society of Greece"*, Vol. XXV/3, 205-216, 1991.
 - 2.16. **Scordilis, E.M.** Seismic activity in the Kassandra gulf (Northern Greece). *"Bulletin of Geological Society of Greece"*, Vol. XXV/3, 295-311, 1991.
 - 2.17. Hatzidimitriou, P.M., Hatzfeld D., **Scordilis, E.M.** Papadimitriou, E.E. and Christodoulou, A.A. Seismotectonic evidence of an active normal fault beneath Thessaloniki (Greece). *"Terra Nova"*, 3, 648-654, 1992.
 - 2.18. Papaioannou, Ch.A., Papazachos, B.C., **Scordilis, E.M.** Application of time dependent and non-time dependent seismicity models in seismic hazard assessment in Greece. *"Tire a part des Cahiers du Centre Europeen de Geodynamique et de Seismologie"*, 6, 53-69, 1992.
 - 2.19. Papaioannou, Ch.A., Tsapanos, T.M., **Scordilis, E.M.** and Papazachos, B.C. Probabilities of occurrence of large earthquakes in very active zones of the earth. *"Bulletin of the Geological Society of Greece"*, Vol. XXVIII/3, 171-179, 1993.
 - 2.20. Panagiotopoulos, D.G., Papadimitriou, E.E., Papaioannou, Ch.A., **Scordilis, E.M.** and Papazachos B.C. Source properties of the 21 December, 1990 Goumenissa earthquake in Northern Greece. *"Proc. of the 2nd congress of the Hellenic Geophysical Union, Florina, Greece, May 5-7, 1993"*, 286-296, 1993.
 - 2.21. Karakostas, B.G., **Scordilis, E.M.**, Papaioannou, Ch.A., Papazachos, B.C. and Mountrakis, D. Focal properties of the October 16, 1988 Killini earthquake (Western Greece). *"Proc. of the 2nd congress of the Hellenic Geophysical Union, Florina, Greece, May 5-7, 1993"*, 136-145, 1993.
 - 2.22. Karakaisis, G.F., Karakostas, B.G., **Scordilis, E.M.**, Kiratzi, A.A., Diagourtas, D., Papadimitriou, P., Voulgaris, N. and Ziazia, M. The spatial distribution of the aftershocks and the focal mechanism of the Galaxidi (central

- Greece) earthquake of November 18, 1992. *"Proc. of the 2nd congress of the Hellenic Geophysical Union, Florina, Greece, May 5-7, 1993"*, 309-317, 1993.
- 2.23. Kassaras, J., Makropoulos, K., Papadimitriou, P., Drakopoulos, J., Amorese, D., Hatzfeld, D., Coutant, O., Panagiotopoulos, D., Karakaisis, G. and **Scordilis, E.** Seismotectonic analysis in Kefallinia-Lefkas (Greece). *"Proc. of the 2nd congress of the Hellenic Geophysical Union, Florina, Greece, May 4-7, 1993"*, 427-438, 1993.
- 2.24. Kementzetzidou, D., Bernard, P., Bouin, M., Dervin, P., Diagourtas D., Hatzfeld, D., Karakaisis, G., Karakostas, B., Nothard, S., Papadimitriou, P., **Scordilis, E.**, Smith, R., Voulgaris, N. and Ziazia, M. The 1992, November 18 Galaxidi earthquake, an aftershock study. *"Proc. of the 2nd congress of the Hellenic Geophysical Union, Florina, Greece, May 4-7, 1993"*, 349-357, 1993.
- 2.25. **Scordilis, E.M.**, Kiratzi, A.A. and Panagiotopoulos, D.G. A study of the earthquake of November 6, 1992 in Izmir (Turkey). *"Bulletin of the Geological Society of Greece"*, XXX/5, 243-249, 1994.
- 2.26. Lachet, C., Bard, P.Y., Hatzfeld, D., Papaioannou, Ch., **Scordilis, E.**, Hatzidimitriou, P., Theodulidis, N. and Margaris, V. An experimental study of the microzonation in the city of Thessaloniki. *"Proc. of the 5th International Conference on seismic zonation, Nice, October 1995"*, vol.II, 1619-1626, 1995.
- 2.27. Παπαζάχος, Β.Κ., Παναγιωτόπουλος, Δ.Γ., **Σκορδύλης, Ε.Μ.**, Καρακαίσης, Γ.Φ., Παπαιωάννου, Χ.Α., Καρακώστας, Β.Γ., Παπαδημητρίου, Ε.Ε., Κυρατζή, Α.Α., Χατζηδημητρίου, Π.Μ., Λεβεντάκης, Γ.Ν., Βοιδομάτης, Φ.Σ., Πεφτιπέλης, Κ.Ι. και Τσάπανος, Θ.Μ. Η φυσική διαδικασία γένεσης του κύριου σεισμού της Κοζάνης-Γρεβενών της 13ης Μαΐου 1995 ($M_S=6,6$) και της σεισμικής ακολουθίας του. *"Γεωτεχνική ενημέρωση"*, 73, 54-64, 1995.
- 2.28. Papazachos, B.C., Panagiotopoulos, D.G., **Scordilis, E.M.**, Karakaisis, G.F., Papaioannou, Ch.A., Karakostas, B.G., Papadimitriou, E.E., Kiratzi, A.A., Hatzidimitriou, P.M., Leventakis, G.N., Voidomatis, Ph.S., Peftitselis, K.I. and Tsapanos, T.M. Focal properties of the 13 May 1995 large ($M_S=6.6$) earthquake in the Kozani area (North Greece). *"Proc. of the XV congress of the Carpatho-Balkan Geol Assoc., September 17-20, 1995, Athens"*, 96-106, 1996.
- 2.29. Hatzfeld, D., Kementzetzidou, D., Karakostas, V., Ziazia, M., Nothard, S., Diagourtas, D., Deschamps, A., Karakaisis, G., Papadimitriou, P., **Scordilis, E.**, Smith, R., Voulgaris, N., Kiratzi, A., Makropoulos, K., Bouin, M.P. and Bernard, B. The Galaxidi earthquake of November 18, 1992: a possible asperity within the normal fault system of the gulf of Corinth (Greece). *"Bulletin of Seismological Society of America"*, 86, 1987-1991, 1996.
- 2.30. Bernard, B., Pinettes, P., Hatzidimitriou, P.M., **Scordilis, E.M.**, Veis, G. and Milas, P. From precursors to prediction: a few recent cases from Greece. *"RAS Geophys. J. Int."*, 131, 467-477, 1997.
- 2.31. Papazachos, C.B. and **Scordilis, E.M.** Crustal structure of the Rhodope and surrounding area obtained by non-linear inversion of P and S travel times and its tectonic implications. *"Acta Vulcanologica"*, 10(2), 339-345, 1998. Επίσης παρουσιάστηκε στο Fall Meeting of the American Geophysical Union (AGU), San Francisco, USA, 15-23 December 1996.
- 2.32. Papazachos, C.B., Karakostas, V.G. and **Scordilis, E.M.** Crustal and upper mantle structure of the Kozani-Grevena and surrounding area obtained by non-linear inversion of P and S travel times. *"Journal of Geodynamics"*, 26, 2-4, 353-365, 1998.

- 2.33. **Σκορδύλης, E. M.**, Καρακώστας, Β. Γ. και Δημητρίου, Π. Π. Σεισμικότητα της Ελλάδας. Βασικά αποτελέσματα της σεισμολογικής έρευνας στην Ελλάδα. "Τμητικός τόμος αφιερωμένος στον καθηγητή Β.Κ. Παπαζάχο, Εργαστήριο Γεωφυσικής Α.Π.Θ και Ι.Τ.Σ.Α.Κ, Θεσσαλονίκη, εκδόσεις ΖΗΤΗ ", 17-48, 1998.
- 2.34. Karakaisis, G.F., Hatzidimitriou, P.M., **Scordilis, E.M.**, and Panagiotopoulos, D.G. Seismicity of western Macedonia, Greece. "Journal of Geodynamics", 26, 2-4, 297-307, 1999.
- 2.35. Dimitriu, P.P., **Scordilis, E.M.** and Karakostas, B.G. Multi-fractal analysis of the Arnea, Greece, seismicity with potential implication for earthquake prediction. "Natural Hazards", 21, 277-295, 2000.
- 2.36. Papazachos, B.C., Karakostas, V.G., Papazachos C.B. and **E.M. Scordilis**. The geometry of the Wadati-Benioff zone and lithospheric kinematics in the Hellenic Arc. "Tectonophysics", 319, 275-300, 2000.
- 2.37. Papazachos, B.C., Karakaisis, G.F., Papazachos, C.B. and **E.M. Scordilis**. Triggering of strong earthquakes in the North and East Aegean plate boundaries by westward motion of the Anatolia plate. "Annales Geologiques des Pays Helleniques", XXXVIII, B, 105-117, 2000.
- 2.38. Papazachos, B.C., Karakaisis, G.F., Papazachos, C.B. and **E.M. Scordilis**. Earthquake triggering in the North and East Aegean plate boundaries due to the Anatolia westward motion. "Geophysical Research Letters", 27, 23, 3957-3960, 2000. Επίσης, πρόδρομη ανακοίνωση δημοσιεύθηκε στα Ann. Geol. Pays Hell. (A la memoire du Prof. J. Drakopoulos), 38, 105-117, 2000.
- 2.39. Papazachos, B., Karakaisis, G., Hatzidimitriou, P., Karakostas, B., Kiratzi, A., Leventakis, G., Margaris, B., Panagiotopoulos, D., Papadimitriou, E., Papaioannou, Ch., Papazachos, C., Savvaidis, A., **Scordilis, E.**, Theodulidis, N., Tsapanos, T. and Dimitriu, P. A procedure to assess the evolution of a seismic sequence. "Annales Geologiques des Pays Helleniques", XXXVIII, B, 119-128, 2000.
- 2.40. Papazachos, B.C., Karakaisis, G.F., Papazachos, C.B., Savvaidis, A.S. and **E.M. Scordilis**. Properties of the preshock crustal deformation in regions of Aegean area. "Proc. Of XXVII ESC general assembly, Lisbon, September 2000", 295-300, 2000.
- 2.41. Papazachos, B.C., Karakaisis, G.F., Papazachos, C.B., **Scordilis, E.M.** and A.S. Savvaidis. A method for estimating the origin time of an ensuing mainshock by observations of preshock crustal seismic deformation. "Bulletin of Geological Society of Greece", XXXIV/4, 1573-1579, 2001.
- 2.42. Παπαζάχος, Β.Κ., Καρακώστας, Β.Κ., Κυρατζή, Α.Α., Μάργαρης, Β.Ν., Παπαζάχος, Κ.Β. και **E.M. Σκορδύλης**. Η καταλληλότητα των κλιμάκων μεγέθους που χρησιμοποιούνται στον καθορισμό σχέσεων υπολογισμού των παραμέτρων της ισχυρής σεισμικής κίνησης στην Ελλάδα. "2ο Πανελλήνιο Συνέδριο Αντισεισμικής Μηχανικής και Τεχνικής Σεισμολογίας, ΤΕΕ, 28-30 Σεπτεμβρίου 2001, Θεσσαλονίκη", 1, 55-64, 2001.
- 2.43. Papazachos, B.C., Karakostas, B.G., Kiratzi, A.A., Margaris, B.N., Papazachos, C.B., and **Scordilis, E.M.** Uncertainties in the estimation of earthquake magnitudes in Greece. "Journal of Seismology", 6, 557-570, 2002.
- 2.44. Karakaisis, G.F., Papazachos, C.B., **Scordilis, E.M.**, Papaioannou, Ch.A. and B.C. Papazachos. Time variation of seismicity and seismic hazard in the Hellenic arc-trench system. "Proc. of the XXVIII General Assembly of the European Seismological Commission, Genoa, Italy, September 1-6, 2002", 8pp, 2002.
- 2.45. Papazachos, B.C., Savvaidis, A.S., Karakaisis, G.F., Papazachos, C.B., Papadimitriou, E.E., **Scordilis, E.M.** and B.G. Karakostas. Premonitory clustering of shocks in critical regions. "Proc. of the XXVIII General

- Assembly of the European Seismological Commission, Genoa, Italy, September 1-6, 2002", 9pp, 2002.*
- 2.46. Papazachos, C.B., Karakaisis, G.F. and **E.M. Scordilis**. Results of a retrospective prediction of past strong mainshocks in the broader Aegean area by application of the accelerating seismic deformation method. *"Proc. of the XXVIII General Assembly of the European Seismological Commission, Genoa, Italy, September 1-6, 2002", 14pp, 2002.*
 - 2.47. **Scordilis, E.M.**, Papazachos, C.B., Karakaisis, G.F., and B.G. Karakostas. Accelerating seismic crustal deformation before strong mainshocks in Adriatic and its importance for earthquake prediction. *"Proc. of the XXVIII General Assembly of the European Seismological Commission, Genoa, Italy, September 1-6, 2002", 14pp, 2002, (Πρόδρομη ανακοίνωση της 5.2.50).*
 - 2.48. Karakostas, V.G., Papadimitriou, E.E., Karakaisis, G.F., Papazachos, C.B., **Scordilis, E.M.**, Vargemezis, G. and Aidona, E. The 2001 Skyros, Northern Aegean, Greece, earthquake sequence: off – fault aftershocks, tectonic implications, and seismicity triggering, *Geophys. Res. Lett.*, 30, 1012-1015, 2003.
 - 2.49. Skarlatoudis, A.A., Papazachos, C.B., Margaris, B.N., Theodulidis, N., Papaioannou, Ch., Kalogeras, I., **Scordilis, E.M.** and V. Karakostas. Empirical peak ground motion predictive relations for shallow earthquakes in Greece, *"Bulletin of Seismological Society of America"*, 93, 2591-2603, 2003. *(Επίσης, συνοδεύεται από ένα Erratum, Bull. Seismol. Soc. Am., 97, 2219-2221, 2007).*
 - 2.50. **Scordilis, E.M.**, Papazachos, C.B., Karakaisis, G.F., and B.G. Karakostas. Accelerating seismic crustal deformation before strong mainshocks in Adriatic and its importance for earthquake prediction. *"Journal of Seismology"*, 8, 57-70, 2004.
 - 2.51. Papazachos, C.B., Karakaisis, G.F., **Scordilis, E.M.** and B.C. Papazachos. Probabilities of activation of seismic faults in critical regions of the Aegean area, *"Geophysical Journal International"*, 159, 679-687, 2004.
 - 2.52. Karakaisis, G.F., Papazachos, C.B., **Scordilis, E.M.** and B.C. Papazachos. Current accelerating seismic excitation along the northern boundary of the Aegean microplate, *"Tectonophysics"*, 383, 81-89, 2004.
 - 2.53. Benetatos, C., Kiratzi, A., Kementzetzidou, D., Roumelioti, Z., Karakaisis, G., **E. Scordilis**, I. Latoussakis and G. Drakatos. The Psachna (Evia island) earthquake swarm of June 2003, *"Bulletin of the Geological Society of Greece"*, XXXVI, 3, 1379-1388, 2004.
 - 2.54. Galanis, O.C., Papazachos, C.B., Hatzidimitriou, P.M. and **Scordilis, E.M.**, Application of 3-D velocity models and ray tracing in double difference earthquake location algorithms: Application to the Mygdonia basin (Northern Greece), *"Bulletin of the Geological Society of Greece"*, XXXVI, 3, 1396-1405, 2004.
 - 2.55. Papazachos, B.C., **Scordilis, E.M.**, Panagiotopoulos, D.G., Papazachos, C.B. and Karakaisis, G.F., Global relations between seismic fault parameters and moment magnitude of earthquakes, *"Bulletin of the Geological Society of Greece"*, XXXVI, 3, 1482-1489, 2004.
 - 2.56. Papazachos, C.B., **Scordilis, E.M.**, Karakaisis, G.F. and Papazachos, B.C., Decelerating preshock seismic deformation in fault regions during critical periods, *"Bulletin of the Geological Society of Greece"*, XXXVI, 3, 1490-1498, 2004.
 - 2.57. Vamvakaris D.A., Papazachos C.B., Karagianni E.E, **Scordilis E.M.** and Hatzidimitriou, P.M., Determination of fault plane solutions using waveform

- amplitudes and radiation pattern, *"Bulletin of the Geological Society of Greece"*, XXXVI, 3, 1529-1538, 2004.
- 2.58. Papazachos, C.B., Karakaisis, G.F., **Scordilis, E.M.** and B.C. Papazachos. Global observational properties of the critical earthquake model, *"Bulletin of Seismological Society of America"*, 95, 5, 1841-1855, 2005. Επίσης, παρουσιάστηκε στο XXIX ESC General Assembly, Potsdam, Germany, September 12-17, 2004 και στο EGU General Assembly, Vienna, Austria, 24-29 April, 2005.
 - 2.59. **Scordilis, E.M.** Empirical global relations converting M_s and m_b to moment magnitude, *"Journal of Seismology"*, 10, 225-236, 2006.
 - 2.60. Vamvakaris, D.A., Papazachos, C.B., Karagianni, E.E., **Scordilis, E.M.** and Hatzidimitriou, P.M. Small-scale spatial variation of the stress field in the back-arc Aegean area: Results from the seismotectonic study of the broader area of Mygdonia basin (N. Greece), *"Tectonophysics"*, 417, 249-267, 2006. Επίσης, παρουσιάστηκε στο EGU General Assembly, Vienna, Austria, 24-29 April, 2005.
 - 2.61. Papazachos, C.B., G.F. Karakaisis, **E.M. Scordilis**, and B.C. Papazachos. New observational information on the precursory accelerating and decelerating strain energy release, *"Tectonophysics"*, 423, 83-96, 2006.
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