

## **CURRICULUM VITAE**

**Name:** Emmanuel M. SCORDILIS

**Nationality:** Greek

**Date of birth:** 21 December 1958

**Profession:** Seismologist

**Education:** B. Sc. In Geology, University of Thessaloniki, Greece (1982)

Ph. D. Thesis in Seismology, University of Thessaloniki, Greece (1985)

**Languages:** Greek, English

### **Current position**

Associate Professor in Department of Geophysics, School of Geology, Faculty of Science, Aristotle University of Thessaloniki

### **Former career**

- Research Assistant, Aristotle University of Thessaloniki (1987-1989).
- Seismologist, Aristotle University of Thessaloniki (1989–1998)
- Lecturer, Aristotle University of Thessaloniki (1998–2003)
- Assistant Professor, Aristotle University of Thessaloniki (2003–2009)

### **Field experience**

- Installation and monitoring of networks of analog and digital portable seismological stations deployed to study the seismotectonic properties and the evolution of seismic sequences.
- Field experiments of exploration geophysics (magnetic, electric) for geotechnical and archaeological exploration.
- Participation in the installation and operation of the Seismological Network of the Geophysical Laboratory of the Aristotle University of Thessaloniki and the National Network of Seismographs.

### **Research activity**

- Seismotectonics of the broader area of Greece and studies of seismic sequences.
- Time dependent seismicity by the application of the Time Predictable Model for Earthquake prediction on the basis of seismicity and probabilistic models.
- Magnitude scales in Greece – homogenization of earthquake catalogs
- Intermediate term earthquake prediction by applying the D-AS model

### **Teaching experience**

- Various courses to graduate students of the School of Geology and to graduate students of the School of Civil Engineering which include: "*Mechanical oscillations and Elastic Waves*" and "*Introduction to Seismology*".
- 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” and “Computer Applications in Solving Problems in Geophysics”.*

- Supervision of MSc theses and PhD theses

### **Membership**

- Hellenic Association of Geologists
- Geological Society of Greece
- Geotechnical Chamber of Greece
- Hellenic Geophysical Union
- Seismological Society of America

### **Research Projects**

Participated in 58 projects of seismology and applied geophysics.

### **Cooperation**

- 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 .

### **Participation in Scientific Meetings**

1. *1<sup>st</sup> Conference of the Hellenic Association of Geologists*, Athens (Greece), December 14–17, 1983.
2. *Earthquakes and Constructions, Hellenic Association of Civil Engineers*, Athens (Greece), February 20–24, 1984.
3. *2<sup>nd</sup> Conference of the Geological Society of Greece*, Athens (Greece), May 17–18, 1984.
4. *“XIX General Assembly of European Seismological Commission”*, Moscow, USSR, October 1-6, 1984.
5. *Experiences from the recent Kalamata earthquake, Technical Chamber of Greece* Thessaloniki (Greece), January 1987.
6. *“First European School on Seismic Hazard Assessment”*, Athens, May 9-16, 1988.
7. *“1<sup>st</sup> symposium on the recent trends in the Seismology and Physics of the Earth’s Interior in the area of Greece”*, Thessaloniki (Greece), July 1–3, 1988.
8. *“Experiences from the Loma-Prieta, USA, earthquake of October 1989”*, Technical Chamber of Greece, Thessaloniki, February 1990.
9. *“5<sup>th</sup> Scientific Conference of the Geological Society of Greece ”*, Thessaloniki, 24-27 May 1990.
10. *“6<sup>th</sup> Scientific Conference of the Geological Society of Greece with emphasis on the geology of the Aegean Sea”*, Athens, 25-27 May 1992.
11. *“2<sup>nd</sup> Scientific Congress of the Hellenic Geophysical Union”*, Florina, 5-7 May 1993.
12. *“7<sup>th</sup> Scientific Conference of the Geological Society of Greece”*, Thessaloniki, 25-27 May, 1994.
13. *“XXIV General Assembly of the European Seismological Commission”*, Athens, September 19-23, 1994.

14. "Workshop on Telemetry", Heraklion, May 30, 1995.
15. "Workshop on earthquake prevention policy and earthquake protection measures", Geotechnical Chamber of Greece, Branch of Central Macedonia, Thessaloniki, February 1996.
16. "XXV General Assembly of the European Seismological Commission", Reykjavik, Iceland, September 1996.
17. "International meeting on results of the May 13, 1995 earthquake of West Macedonia: one year after", Kozani, 24-27 May 1996.
18. "XXVIII General Assembly of IASPEI", Thessaloniki, August 1997.
19. "Workshop on Athens' earthquake", Athens, 1 December 1999.
20. "Workshop on protection of Thessaloniki from natural hazards: Earthquake – Flood protection", Thessaloniki, 24 February 2000.
21. "XXVII General Assembly of the European Seismological Commission", Lisbon, September 10-15, 2000.
22. "PANCARDI 2001. Geological Meeting on Dynamics of Outgoing Orogeny. COST (Action 625: 3D monitoring of active tectonic structures)", Sopron, Hungary, September 19-23, 2001 (invited speaker).
23. "9<sup>th</sup> Scientific Conference of the Geological Society of Greece", Athens, 27-29 September 2001.
24. "XXVIII General Assembly of the European Seismological Commission", Genoa, September 1-6, 2002.
25. "The Lefkada earthquake (14.08.2003) – Effects on the natural and built environment", Technical Chamber of Greece (Branch of Central Macedonia) - Institute of Engineering Seismology and Earthquake Engineering, 13 October 2003.
26. "10<sup>th</sup> Scientific Conference of the Geological Society of Greece", Thessaloniki, 15-17 April 2004.
27. "NATO Advanced Research Workshop on Earthquake Monitoring and Seismic Hazard Mitigation in Balkan Countries", the Rila Mountains-Resort Village, Borovetz, Bulgaria, 11-17 September 2005 (invited speaker).
28. "3<sup>rd</sup> Hellenic Conference on Earthquake Engineering and Engineering Seismology", Athens, 5-7 November 2008.
29. "Joint NERIES NA4, SHARE Task 3.1, ESC Workshop on: THE MAKING OF THE EUROPEAN-MEDITERRANEAN EARTHQUAKE CATALOGUE", Thessaloniki, Greece, October 12-14, 2009.
30. "12<sup>th</sup> Scientific Conference of the Geological Society of Greece", Patras, 19-21 May 2010.

#### **Publications:**

##### **1. Publications in peer-reviewed journals or proceedings**

- 1.1 **Scordilis, E.M.** Microseismic study of the Servomacedonian zone and the surrounding area. "Ph.D. Thesis", pp250, 1985
- 1.2 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.
- 1.3 Kiratzi, A., **Scordilis, E.**, Theodulidis, N. and B. Papazachos. Properties of the seismic sources and of the propagation medium that define the distribution

- of earthquake damage in Greece. "Proc of the Conference on Earthquakes and Constructions, February 1984, Athens", 262 – 274, 1984.
- 1.4 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.
  - 1.5 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.
  - 1.6 **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.
  - 1.7 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.
  - 1.8 Papazachos, B.C., Panagiotopoulos, D.G., Rocca, A.X., Scordilis, E.M. and P.M. Hatzidimitriou. Static and dynamic properties of the lithosphere in the broader Aegean and Eastern Mediterranean area. "*Bulletin of Geological Society of Greece*", Vol. XIX, 9-44, 1987.
  - 1.9 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.
  - 1.10 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.
  - 1.11 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.
  - 1.12 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.
  - 1.13 **Scordilis, E.M.**, Karakaisis, G.F., Papadimitriou, E.E. and Margaris, B.N. A microseismicity study of the Servomacedonian zone and the surrounding area. "*Geologica Rhodopica*", 1, 79-83, 1989.
  - 1.14 **Scordilis, E.M.**, Theodulidis, 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.
- 1.15 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.
  - 1.16 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.
  - 1.17 **Scordilis, E.M.** Seismic activity in the Cassandra gulf (Northern Greece). *"Bulletin of Geological Society of Greece"*, Vol. XXV/3, 295-311, 1991.
  - 1.18 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.
  - 1.19 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 Européen de Géodynamique et de Séismologie"*, 6, 53-69,1992.
  - 1.20 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.
  - 1.21 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.
  - 1.22 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.
  - 1.23 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.
  - 1.24 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.
  - 1.25 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.

- 1.26 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.
- 1.27** 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.
- 1.28** 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, F. S., Peftitselis, K. J. and Tsapanos, Th. M. The physical process of the generation of Kozani-Grevena mainshock of 13 May 1995 (M=6.6) and its seismic sequence. *"Geotechniki Enimerossi"*, 73, 54-64, 1995.
- 1.29** 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.
- 1.30** 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.
- 1.31** 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.
- 1.32** 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. Also presented in the Fall Meeting of the American Geophysical Union (AGU), San Francisco, USA, 15-23 December 1996.
- 1.33** 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.
- 1.34 Scordilis, E.M.**, Karakostas, V.G. and P.P. Dimitriou. Seismicity of Greece: *"In the book: Essential Results of Seismological Research in Greece, Ziti Publications Co."*, 17-48, 1998.
- 1.35** 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.

- 1.36 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.
- 1.37 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.
- 1.38 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.
- 1.39 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. An early version was published in *Ann. Geol. Pays Hell. (A la memoire du Prof. J. Drakopoulos)*, 38, 105-117, 2000.
- 1.40 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.
- 1.41 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.
- 1.42 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.
- 1.43 Papazachos, B., Karakostas, B., Kiratzi, A., Margaris, B., Papazachos, C. and **E. Scordilis** (2001). The appropriateness of magnitude scales which are used for the determination of relations concerning parameters of strong ground motion in Greece. *"Proc. of the 2<sup>nd</sup> Greek Conf of Earthquake Engineering and Engineering Seismology"*, 28 – 30 November, Thessaloniki, 55-64, 2001.
- 1.44 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.
- 1.45 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.
- 1.46 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.

- 1.47 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.
- 1.48 **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, (Early presentation of 1.51).
- 1.49 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.
- 1.50 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.  
With an Erratum, (*Bull. Seismol. Soc. Am.*, 97, 2219- 2221, 2007).
- 1.51 **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.
- 1.52 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.
- 1.53 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.
- 1.54 Benetatos, C., Kiratzi, A., Kementzetzidou, D., Roumelioti, Z., Karakaisis, G. and **E. Scordilis**. The Psachna (Evia island) earthquake swarm of June 2003, *"Bulletin of the Geological Society of Greece"*, XXXVI, 3, 1379-1388, 2004.
- 1.55 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.
- 1.56 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.
- 1.57 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.



- 1.58 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.
- 1.59 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. Also presented in the XXIX ESC General Assembly, Potsdam, Germany, September 12-17, 2004 and in EGU General Assembly, Vienna, Austria, 24-29 April, 2005.
- 1.60 **Scordilis, E.M.** Empirical global relations converting  $M_s$  and  $m_b$  to moment magnitude, *“Journal of Seismology”*, 10, 225-236, 2006.
- 1.61 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. Also presented in EGU General Assembly, Vienna, Austria, 24-29 April, 2005.
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