



George F. Karakaisis

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Born: 1955 in Thessaloniki, Greece

Education

BSc of the School of Geology (1980)

PhD of the School of Geology (1984)

Visiting Research Fellow, Institute of Oceanology, Russian Academy of Sciences, Moscow (1987)

Visiting Research Fellow, Disaster Prevention Research Institute, University of Kyoto, Japan (1990)

Positions held

Lecturer, Dept. of Geophysics, Aristotle Univ. of Thessaloniki (1985-1989)

Assistant Professor, Dept. of Geophysics, Aristotle Univ. of Thessaloniki (1989-1994)

Associate Professor, Dept. of Geophysics, Aristotle Univ. of Thessaloniki (1994-2002)

Director of the Dept. of Geophysics (2000-2001, 2001-2002)

Professor, Dept. of Geophysics, Aristotle University of Thessaloniki, Greece (2002-)

Research interests

Seismic sequences, Seismotectonics, Crustal structure of southern Balkan region, Rupture simulation, Time dependent seismicity, Studies on the seismic cycle, Source parameters, Intermediate term earthquake prediction

Reviewer for international scientific journals. Evaluator of proposals submitted at the EU-DGXII. Participation in many field experiments since 1983. Project leader in 5 projects. Participation in more than 35 projects.

Teaching (2020-2021)

Winter Semester

GGP 108E Philosophy of Science (Undergraduate).

GGP 536Y Physics of the Lithosphere (Undergraduate).

GGPM102 Geodynamics – Seismotectonics (Graduate).

GGPM103 Fracture Models, Faulting Systems and Earthquakes (Graduate).

Spring Semester

GGP 319Y Introduction to Geophysics (Undergraduate).

GGP 876E Topics in Geophysics (Undergraduate).

NGGP 203Y Physics of the Earth's Interior - Geodynamics (Undergraduate).

GGPM211 Seismometry – Seismological Networks (Graduate).

Publications

1. Thesis

- 1.1. Karakaisis, G.F (1984). Contribution to the study of seismic sequences in the Aegean and surrounding area. Ph.D. Thesis, Aristotle Univ. of Thessaloniki, pp. 192.

2. International Journals and International Congresses (peer-reviewed)

- 2.2. Karakaisis, G.F., Karacostas, B.G., Papadimitriou, E.E. and Papazachos, B.C. (1984). Properties of the 1979 Monte Negro (southwest Yugoslavia) seismic sequence. **Pure appl. Geophys.**, *122*, 25-35.
- 2.3. Kiratzi, A.A., Karakaisis, G.F., Papadimitriou, E.E. and Papazachos, B.C. (1985). Seismic source-parameter relations for earthquakes in Greece. **Pure appl. Geophys.**, *123*, 27-41.
- 2.4. Rocca, A.C., Karakaisis, G.F., Karacostas, B.G., Kiratzi, A.A., Scordilis, E.M. and Papazachos, B.C. (1985). Further evidence on the strike-slip faulting of northern Aegean trough based on properties of the August-November 1983 seismic sequence. **Boll. Geof. Teor. Appl.**, *27*, 101-109.
- 2.5. Karakaisis, G.F., Karacostas, B.G., Papadimitriou, E.E., Scordilis, E.M. and Papazachos, B.C. (1985). Seismic sequences in Greece interpreted in terms of the barrier model. **Nature**, *315*, 212-214.
- 2.6. Papadimitriou, E.E., Karacostas, B.G., Karakaisis, G.F. and Papazachos, B.C. (1985). Space-time patterns of seismicity in the Aegean and surrounding area. **Proc. 3rd Int. Symp. on the Analysis of Seismicity and Seismic Risk, Liblice, Czechoslovakia, June 17-22, 1985**, 40-45.
- 2.7. Panagiotopoulos, D.G., Hatzidimitriou, P.M., Karakaisis, G.F., Papadimitriou, E.E. and Papazachos, B.C. (1985). Travel time residuals in southeastern Europe. **Pure appl. Geophys.**, *123*, 221-231.
- 2.8. Scordilis, E.M., Karakaisis, G.F., Karacostas, B.G., Panagiotopoulos, D.G., Comninakis, P.E. and Papazachos, B.C. (1985). Evidence for transform faulting in the Ionian Sea: the Cephalonia island earthquake sequence of 1983. **Pure appl. Geophys.**, *123*, 388-397.
- 2.9. Papazachos, B.C., Papadimitriou, E.E., Karacostas, B.G. and Karakaisis, G.F. (1985). Long-term prediction of great intermediate-depth earthquakes in Greece. **12th Regional Seminar on Earthquake Engineering, Halkidiki, September 16-25, 1985**, pp.12.
- 2.10. Karacostas, B.G., Hatzidimitriou, P.M., Karakaisis, G.F., Papadimitriou, E.E. and Papazachos, B.C. (1986). Evidence for long-term precursors of strong earthquakes in the northernmost part of the Aegean Sea. **Earthq. Pred. Res.**, *4*, 155-164.
- 2.11. Karakaisis, G.F., Panagiotopoulos, D.G., Krimniantou, M.C. and Papazachos, B.C. (1987). Preseismic quiescence before large earthquakes in the Aegean and the surrounding area. **Annales Geophysicae**, *5B*, 155-160.
- 2.12. Papazachos, B.C., Papadimitriou, E.E., Kiratzi, A.A., Papaioannou, C.A. and Karakaisis, G.F. (1987). Probabilities of occurrence of large earthquakes in the Aegean and surrounding area during the period 1986-2006. **Pure appl. Geophys.**, *125*, 597-612.
- 2.13. Tsapanos, T.M., Karakaisis, G.F., Hatzidimitriou, P.M. and Scordilis, E.M. (1988). On the probability of the time of occurrence of the larger aftershock and of the larger foreshock in a seismic sequence. **Tectonophysics**, *149*, 177-180.
- 2.14. Papadimitriou, E.E., Karacostas, B.G., Karakaisis, G.F. and Papazachos, B.C. (1988). A seismicity premonitory pattern in the southern Aegean sea. **XIX General Assembly of the European Seismological Committee, Moscow, 1-6 October, 1984**, 66-70.
- 2.15. Scordilis, E.M., Karakaisis, G.F., Papadimitriou, E.E. and Margaritis, B.N. (1989). A microseismicity study of the Servomacedonian zone and the surrounding area. **Geologica Rodopica**, *1*, 79-83.
- 2.16. Karakaisis, G.F., Kourouzidis, M.C. and Papazachos, B.C. (1991). Behaviour of seismic activity during a single seismic cycle. **International Conference on Earthquake Prediction: State-of-the-Art, Strasbourg, France, 15-18 October 1991**, 47-54.
- 2.17. Soloviev, S.L., Karakaisis, G.F., Kovachev, S.A., Kuzin, I.P., Shoda, O.Yu. and Tassos, S.S. (1992). Microearthquake hypocenter determination in the southern Aegean Sea from records of sea-floor and land-based seismographs. **Physics Earth Planet. Int.**, *75*, 177-183.

- 2.18. Karakaisis, G.F. and Mikumo, T. (1993). Dynamic fault rupture process during the 1978 Thessaloniki earthquake, northern Greece. **Tectonophysics**, 217, 65-71.
- 2.19. Papazachos, B.C., Hatzidimitriou, P.M., Karakaisis, G.F., Papazachos, C.B. and Tsokas, G.N. (1993). Rupture zones and active crustal deformation in southern Thessalia, central Greece. **Boll. Geof. Teor. Appl.**, 139, 363-374.
- 2.20. Karakaisis G.F. (1993). Long term earthquake prediction in the New Guinea-Bismarc Sea region based on the time and magnitude predictable model. **J. Phys. Earth**, 41, 365-389.
- 2.21. Hatzfeld, D., Besnard, M., Makropoulos, K., Voulgaris, N., Kouskouna, V., Hatzidimitriou, P., Panagiotopoulos, D., Karakaisis, G., Deschamps, A. and Lyon-Caen, H. (1993). Subcrustal microearthquake seismicity and fault plane solutions beneath the Hellenic arc. **J. Geophys. Res.**, 98, B6, 9861-9870.
- 2.22. Papazachos, B.C., Papadimitriou, E.E., Karakaisis, G.F. and Tsapanos, T.M. (1994). An application of the time and magnitude predictable model for the long-term earthquake prediction of strong shallow earthquakes in the Japan area. **Bull. Seism. Soc. Am.**, 84, 426-437.
- 2.23. Karakaisis, G.F. (1994). Time dependent seismicity in Italy. **XXIV General Assembly E.S.C., 19-24 September 1994, Athens, Greece**, 2, 1080-1090.
- 2.24. Papazachos, B.C., Karakaisis, G.F. and Hatzidimitriou, P.M. (1994). Further information on the transform fault of the Ionian Sea. **XXIV General Assembly E.S.C., 19-24 September 1994, Athens, Greece**, 1, 377-384.
- 2.25. Karakaisis, G.F. (1994). Long-term earthquake prediction along the North and East Anatolian Fault Zones based on the time and magnitude predictable model. **Geophys. J. Int.**, 116, 198-204.
- 2.26. Hatzidimitriou, P.M., Papazachos, B.C. and Karakaisis, G.F. (1994). Quantitative seismicity of the Aegean and surrounding area. **XXIV General Assembly E.S.C., 19-24 September 1994, Athens, Greece**, 1, 155-164.
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- 2.28. Karakaisis, G.F. (1994). Long-term earthquake prediction in Iran based on the time and magnitude predictable model. **Physics Earth Planet. Int.**, 83, 129-145.
- 2.29. Papazachos, B.C., Mountrakis, D., Karakaisis, G.F., Panagiotopoulos, D.G. and Hatzidimitriou, P.M. (1994). The Thebes fracture zone (near Athens). **XXIV General Assembly E.S.C., 19-24 September 1994, Athens, Greece**, 2, 911-917.
- 2.30. Kovachev, S., Kuzin, I., Soloviev, S., Karakaisis, G. and Tassos, S., (1994). Lithosphere model implications for the distribution of microearthquake hypocenters as determined from sea-bottom geophone observations. **Fiz. Zemli**, 12, 24-34, (in Russian).
- 2.31. Hatzfeld, D., Kassaras, I., Panagiotopoulos, D.G., Amorese, D., Makropoulos, K., Karakaisis, G.F. and Coutant, O. (1995). Microseismicity and strain pattern in northwestern Greece. **Tectonics**, 14, 773-785.
- 2.32. Papazachos, B.C., Karakaisis, G.F. and Papadimitriou, E.E. (1996). On the validity of the regional time- and magnitude predictable model in Greece and Italy. **Proc. XV Carpatho-Balkan Congress, Athens, 17-20 September, 1995**, 193-196.
- 2.33. Hatzfeld, D., Kementzetzidou, D., Karacostas, B. G., Ziazia, M., Nothard, S., Diagourtas, D., Deschamps, A., Karakaisis, G. F., Papadimitriou, P., Scordilis, E., Smith, R., Voulgaris, N., Kiratzi, A., Makropoulos, K., Bouin, M., and Bernard, P. (1996). The Galaxidi earthquake of 18 November 1992: A possible asperity within the normal fault system of the gulf of Corinth. **Bull. Seism. Soc. Am.**, 86, 1987-1991.
- 2.34. Papadimitriou, E.E., Karakaisis, G.F. and Papazachos, B.C. (1996). The evaluation and application of the regional time- and magnitude predictable model. **ISIS Workshop on Earthquake Observation, Monitoring and Research, Ispra, Italy, 4-5 November 1996**, pp. 1-10.
- 2.35. 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.,

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- 2.36. Papazachos, B.C., Papaioannou, Ch.A. and Karakaisis, G.F. (1996). Time dependent seismicity along the Hellenic arc. *XV Carpatho-Balkan Congress, Athens, 17-20 September, 1995*, 205-211.
- 2.37. Papazachos, B.C. and Karakaisis, G.F. (1996). Basic features of the regional time- and magnitude predictable seismicity model and its application in Italy. *UNESCO, International Congress on Environment/Climate (ICEC 96), Rome, 4-8 March, 1996*, pp. 1-7.
- 2.38. Papazachos, B.C., Karakaisis, G.F., Papadimitriou, E.E. and Papaioannou, E.E. (1997). The regional time and magnitude predictable model and its application to the Alpine-Himalayan belt. *Tectonophysics*, 271, 295-323.
- 2.39. Papazachos, B.C., Papadimitriou, E.E., Karakaisis, G.F. and Panagiotopoulos, D.G. (1997). Long-term earthquake prediction in the circum-Pacific convergent belt. *Pure appl. Geophys.*, 149, 173-217 (also in *XXIV General Assembly E.S.C., 19-24 September 1994, Athens, Greece*, 2, 1099-1107).
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- 2.42. Qin, Ch., Papadimitriou, E.E., Papazachos, B.C. and Karakaisis, G.F. (1999). Spatial distribution of time-independent seismicity in China. *Pure appl. Geophys.*, 154, 101-119.
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- 2.44. Karakaisis, G.F. (2000). Effects of zonation on the results of the application of the regional time predictable seismicity model in Greece and Japan. *Earth Planets Space*, 52, 221-228, 2000.
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- 2.48. Papazachos, B.C., Karakaisis, G.F., Papazachos, C.B., Savvaidis, A.S. and Scordilis, E.M. (2000). Properties of the preshock crustal deformation in regions of the Aegean area. *XXVII General Assembly of the ESC, Lisbon, 10-15 September 2000*, 295-300.
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- 2.53. Papazachos, C.B., Karakaisis, G.F. and Scordilis, E.M. (2002). Results of a Retrospective Prediction of Past Strong mainshocks in the Broader Aegean Area by Application of the Accelerating Seismic Deformation Method. *Proc. XXVIII ESC General Assembly, Genoa, 1-6 September 2002*, 14pp.
- 2.54. Karakaisis, G.F., Papazachos, C.B., Scordilis, E.M., Papaioannou, Ch.A. and Papazachos, B.C. (2002). Time variation of seismicity and seismic hazard in the Hellenic arc-trench system. *Proc. XXVIII ESC General Assembly, Genoa, 1-6 September 2002*, 8pp.

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- 2.56. Papazachos, B.C., Savvaidis, A.S., Karakaisis, G.F. and C.B. Papazachos (2002). Precursory accelerating seismic crustal deformation in the Northwestern Anatolia Fault Zone. *Tectonophysics*, 347, 217-230.
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- 2.88. Teza, E., Papazachos, C.B., Scordilis, E.M., Karakaisis, G.F. (2021). Robust estimation of seismic parameters using synthetic catalogues: application to mid-ocean ridges. (to be submitted).

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