



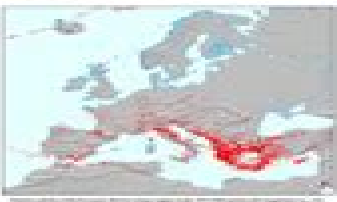
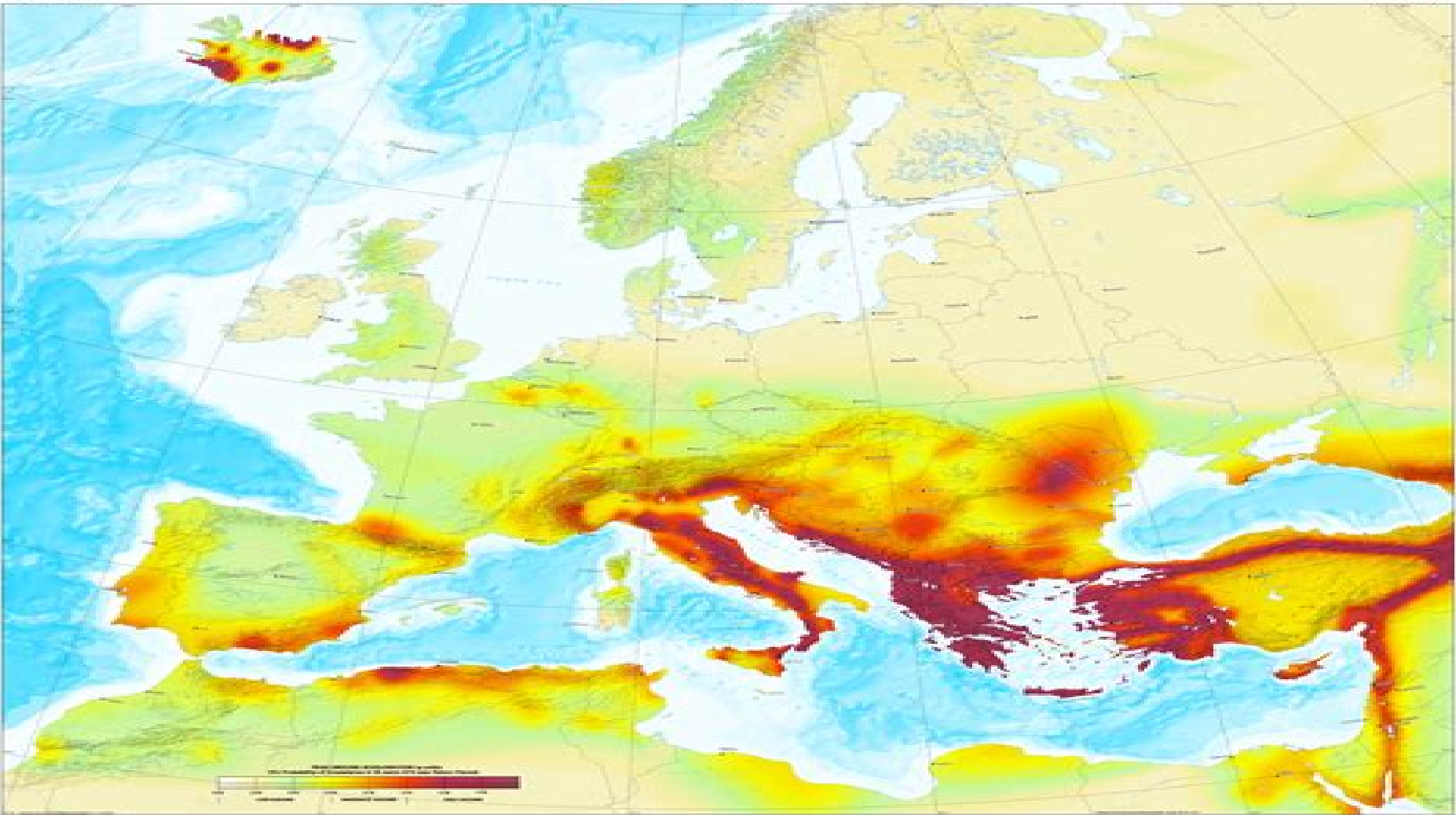
# EUROPEAN-MEDITERRANEAN SEISMIC HAZARD MAP

Editors: D. Giardini, M. J. Jiménez and G. Grünthal



Scale 1:5 000 000

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**1. INTRODUCTION**  
The European-Mediterranean Seismic Hazard Map (EMSH) is a product of the European Seismological Commission (ESC) and the International Geological Correlation Program (IGCP). It is the result of a collaborative effort by scientists from many countries in Europe and the Mediterranean region. The map is based on a comprehensive review of seismicity data and geological information available at the time of its preparation. It provides a quantitative estimate of the seismic hazard in the region, expressed in terms of peak ground acceleration (PGA) and maximum credible earthquake (MCE) magnitudes. The map is intended to be used as a basis for seismic hazard assessment and for the design of structures and infrastructure.

**2. DATA SOURCES**  
The data used in the map are derived from a variety of sources. These include seismicity data from national and international seismic networks, geological data from geological maps and reports, and information on historical earthquakes. The data are processed and analyzed using a series of standardized procedures to ensure consistency and reliability. The resulting hazard estimates are then mapped and presented in the form of a color-coded map.

**3. HAZARD ESTIMATION**  
The hazard estimation is based on a probabilistic approach. It involves the calculation of the probability of exceeding a given level of seismic hazard over a specified period of time. This is done by combining information on the frequency of earthquakes of different magnitudes and the seismicity of different regions. The resulting hazard estimates are expressed in terms of peak ground acceleration (PGA) and maximum credible earthquake (MCE) magnitudes. The map shows the spatial distribution of these hazard estimates across the region.

**4. CONCLUSIONS**  
The European-Mediterranean Seismic Hazard Map (EMSH) provides a comprehensive and quantitative estimate of the seismic hazard in the region. It is based on a thorough review of available data and a rigorous scientific approach. The map is intended to be used as a basis for seismic hazard assessment and for the design of structures and infrastructure. It is a valuable tool for scientists, engineers, and decision-makers alike.



# Seismic Hazard In Mediterranean Regions

**Sreevalsa Kolathayar,T.G. Sitharam**



## **Seismic Hazard In Mediterranean Regions:**

**Seismic Hazard in Mediterranean Regions** J. Bonnin, M. Cara, Armando Cisternas, R. Fantechi, 1988-07-31 Proceedings of the Summer School organized in Strasbourg France July 15 August 1 1986 by European Mediterranean Seismological Centre and Institute de Physique du Globe de Strasbourg Seismic Hazard in Mediterranean Regions, 1988 Seismic Hazard in Mediterranean Regions J. Bonnin, M. Cara, Armando Cisternas, R. Fantechi, 1988-07-31 Proceedings of the Summer School organized in Strasbourg France July 15 August 1 1986 by European Mediterranean Seismological Centre and Institute de Physique du Globe de Strasbourg Seismic Hazard of the Circum-Pannonian Region Giuliano F. Panza, Mircea Radulian, Czezar-I. Trifu, 2013-03-11 requiring the adaptation of probabilistic maps to design ground motions and the generalization of design parameters to locations where there is little seismic history Maximum displacements velocities and based on the European Building Code EC8 design ground acceleration maps have thus been produced by ZivCic et al for Slovenia Marku ic et al for Croatia Bus et al for Hungary and Radulian et al for Romania The last two contributions in the volume are dedicated to studies of local site effects that could affect the microzonation of large urban areas Moldoveanu et al employed a technique based on the modal summation and finite differences to calculate the expected ground motion in the capital city of Bucharest due to large intermediate depth Vrancea earthquakes Their results outline that the presence of alluvial sediments and the possible variation of event scenario require the use of all three components of motion for a reliable determination of the seismic input The study of Marmureanu et al more limited in scope offers a laboratory analysis of the attenuation effects for surface layers The authors confirm that seismic attenuation in sedimentary layers is a function of the strain levels induced by large earthquakes and find that the quality factor is nearly constant over a relatively wide frequency range between 7 and 100 Hz Earthquake Monitoring and Seismic Hazard Mitigation in Balkan Countries Eystein S. Husebye, 2008-03-01 Seismology is rated the Queen of Earth Sciences due to its ability to provide detailed structural information bearing on the Earth interior and on going dynamic processes This is due to the advanced theoretical foundation of seismology and the extensive cooperation among seismologists on recording and disseminating of data worldwide In contrast some 40 years ago seismology was a backward science and hence funding was poor This abruptly changed with the political interest in seismology as the principal tool for monitoring compliance with a potential Comprehensive Nuclear Test Ban treaty CTBT banning nuclear testing in any environment Major countries like USA UK and USSR launched large scale research programs including deployment of modern seismograph stations and arrays and these developments are detailed in the book for CTBTO UN IRIS USA MedNet Italy Geofon Germany and the tiny Karelia network NW Russia Station and network operations require near real time record analysis and topics dealt with here are 2 D signal detector epicenter location and earthquake monitoring Balkan is seismically the most active part of Europe due to multiple plate interactions in the Aegean Sea The tectonic evolution and on going geodynamic deformations are described in 2 articles Earthquake hazard

analysis and topographic site effects are discussed and likewise large earthquake hazards in the Aegean and the Marmara seas relate to practical applications of such procedures. Foremost the book gives a good account of past, present and likely future seismological developments in Balkan countries and various kinds of network operations on local to global scales.

**Rifting and Sediments in the Red Sea and Arabian Gulf Regions** Najeeb M.A. Rasul, Ian C.F. Stewart, 2024-05-08

Rifting and Sediments in the Red Sea and Arabian Gulf Regions is a unique text that covers a wide range of topics related to the tectonics and geology of the Red Sea and Arabian Persian Gulf region. This book is a collection of invited and peer reviewed chapters contributed by active researchers around the world. The topics covered in this book include tectonics, magmatism and lithology particularly in the Red Sea area. The book also delves into the sediments and evaporites of the Red Sea and Gulf. As the area around the Arabian Peninsula is prone to earthquakes, the seismic hazard estimated in the Red Sea region is also covered by several chapters. Each chapter presents new data and offers extensive lists of references for the reader to explore further. With the ongoing debates regarding the structure of the Red Sea, this book serves as an excellent resource for researchers and any individuals interested in the geology of these two unique seas.

International Handbook of Earthquake & Engineering Seismology, Part B William H.K. Lee, Hiroo Kanamori, Paul Jennings, Carl Kisslinger, 2003-07-23

The two volume International Handbook of Earthquake and Engineering Seismology represents the International Association of Seismology and Physics of the Earth's Interior's IASPEI ambition to provide a comprehensive overview of our present knowledge of earthquakes and seismology. This state of the art work is the only reference to cover all aspects of seismology, a resource library for civil and structural engineers, geologists, geophysicists and seismologists in academia and industry around the globe. Part B by more than 100 leading researchers from major institutions of science around the globe features 34 chapters detailing strong motion seismology, earthquake engineering, quake prediction and hazards mitigation as well as detailed reports from more than 40 nations. Also available is The International Handbook of Earthquake and Engineering Seismology Part A. Authoritative articles by more than 100 leading scientists. Extensive glossary of terminology plus 2000 biographical sketches of notable seismologists.

**Geohazards** G. McCall, D. Laming, S. Scott, 2013-03-08 Dorrik A V Stow

Editor in Chief Association of Geoscientists for International Development AGID. AGID is particularly pleased to see published this latest hurricanes, floods that are wreaking havoc, destroying report in its Geosciences in International Development livelihood and lives in some corner of the globe. Series as a significant contribution to the onset of the UN As geoscientists there are perhaps three concerns that Decade of National Disaster Reduction and as a mark of should be uppermost in our minds as we join an inter AGID's growing concern over the potential and actual national effort to combat the adverse effects of natural effects of geohazards throughout the developing world hazards. The first must be to improve our scientific. The problem of geohazards is increasing not because understanding of the nature and causes of such hazards and to work towards more reliable prediction of their the rate of earth processes is accelerating nor because the occurrence and

magnitude      **Submarine Active Faults: From Regional Observations to Seismic Hazard Characterization** Hector Perea, Sara Martinez-Lorient, Jillian Maloney, Francesco Emanuele Maesano, Paola Vannucchi, 2022-01-20      *Ground Motion and Engineering Seismology* A.S. Cakmak, 2015-08-11 Despite advances in the field of geotechnical earthquake engineering earthquakes continue to cause loss of life and property in one part of the world or another The Third International Conference on Soil Dynamics and Earthquake Engineering Princeton University Princeton New Jersey USA 22nd to 24th June 1987 provided an opportunity for participants from all over the world to share their expertise to enhance the role of mechanics and other disciplines as they relate to earthquake engineering The edited proceedings of the conference are published in four volumes This volume covers Seismicity and Tectonics in the Eastern Mediterranean Seismic Waves in Soils and Geophysical Methods Engineering Seismology Dynamic Methods in Soil and Rock Mechanics and Ground Motion With its companion volumes it is hoped that it will contribute to the further development of techniques methods and innovative approaches in soil dynamics and earthquake engineering      **Geodesy Beyond 2000** Klaus-Peter Schwarz, 2012-12-06 In this volume the state of the art in geodesy is presented with special emphasis on the challenges of the next decade It is subdivided into six parts The first five parts discuss the challenges of providing a stable global reference at the parts per billion level by space methods the impact of recently approved dedicated satellite missions on the determination of a high resolution global gravity field and its refinements by airborne gravity advances in geodynamics and their impact on the monitoring of seismic hazards and earthquake prediction the increasing use of GPS and INS in kinematic mode for mapping the Earth's surface and monitoring the behaviour of large man made structures and the related advances in mathematical theory and numerical techniques The last part is dedicated to the discussion of a new structure for IAG to meet these challenges      Earthquake Hazard Assessment Sreevalsa Kolathayar, T.G. Sitharam, 2018-05-30 This book represents a significant contribution to the area of earthquake data processing and to the development of region specific magnitude correlations to create an up to date homogeneous earthquake catalogue that is uniform in magnitude scale The book discusses seismicity analysis and estimation of seismicity parameters of a region at both finer and broader levels using different methodologies The delineation and characterization of regional seismic source zones which requires reasonable observation and engineering judgement is another subject covered Considering the complex seismotectonic composition of a region use of numerous methodologies DSHA and PSHA in analyzing the seismic hazard using appropriate instruments such as the logic tree will be elaborated to explicitly account for epistemic uncertainties considering alternative models for Source model Mmax estimation and Ground motion prediction equations to estimate the PGA value at bedrock level Further VS30 characterization based on the topographic gradient to facilitate the development of surface level PGA maps using appropriate amplification factors is discussed Evaluation of probabilistic liquefaction potential is also explained in the book Necessary backgrounds and contexts of the aforementioned topics are elaborated through a case study specific to India which features

spatiotemporally varied and complex tectonics The methodology and outcomes presented in this book will be beneficial to practising engineers and researchers working in the fields of seismology and geotechnical engineering in particular and to society in general *The Adria Microplate: GPS Geodesy, Tectonics and Hazards* Nicholas Pinter, Gyula Grencs, John Weber, Seth Stein, Damir Medak,

**Unveiling Active Faults: Multiscale Perspectives and Alternative Approaches Addressing the Seismic Hazard Challenge** Federica Ferrarini, Ramon Arrowsmith, Michele M. C. Carafa, Nathan Toke, 2021-09-24 **Earthquake Resistant Concrete Structures** Andreas Kappos, 2014-04-21 This book introduces

practising engineers and post graduate students to modern approaches to seismic design with a particular focus on reinforced concrete structures earthquake resistant design of new buildings and assessment repair and strengthening of existing buildings **Issues in Earth Sciences, Geology, and Geophysics: 2013 Edition**, 2013-05-01 Issues in Earth

Sciences Geology and Geophysics 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Geomagnetism and Aeronomy The editors have built Issues in Earth Sciences Geology and Geophysics 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Geomagnetism and Aeronomy in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Earth Sciences Geology and Geophysics 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com> **Earthquake Science and Seismic Risk Reduction** F. Mulargia, R.J.

Geller, 2012-12-06 What is the first thing that ordinary people for whom journalists are the proxy ask when they meet a seismologist It is certainly nothing technical like What was the stress drop of the last earthquake in the Imperial Valley It is a simple question which nevertheless summarizes the real demands that society has for seismology This question is Can you predict earthquakes Regrettably notwithstanding the feeling of omnipotence induced by modern technology the answer at present is the very opposite of Yes of course The primary motivation for the question Can you predict earthquakes is practical No other natural phenomenon has the tremendous destructive power of a large earthquake a power which is rivaled only by a large scale war An earthquake in a highly industrialized region is capable of adversely affecting the economy of the whole world for several years But another motivation is cognitive The aim of science is understanding nature and one of the best ways to show that we understand a phenomenon is the ability to make accurate predictions **Seismic Retrofitting:**

**Learning from Vernacular Architecture** Mariana R. Correia, Paulo B. Lourenco, Humberto Varum, 2015-08-31 Local communities have adapted for centuries to challenging surroundings resulting from unforeseen natural hazards Vernacular architecture often reveals very intelligent responses attuned to the environment Therefore the question that emerged was

how did local populations prepare their dwellings to face frequent earthquakes It was to respond to this gap in knowledge that the SEISMIC V research project was instigated and this interdisciplinary international publication was prepared The research revealed the existence of a local seismic culture in terms of reactive or preventive seismic resistant measures able to survive if properly maintained in areas with frequent earthquakes The fundamental contribution and aims of the publication were to enhance The disciplinary interest in vernacular architecture Its contribution to risk mitigation in responding to natural hazards To encourage academic and scientific research collaboration among different disciplines To contribute to the improvement of vernacular dwellings which half of the world s population still inhabits nowadays Fifty international researchers and experts presented case studies from Latin America the Mediterranean Eastern and Central Asia and the Himalayas region with reference to 20 countries i e Algeria Bolivia Bhutan Chile China Egypt El Salvador Greece Haiti Italy Japan Mexico Morocco Nepal Nicaragua Peru Romania Taiwan Turkey and a closer detailed analysis of Portugal This publication brings together 43 contributions with new perspectives on seismic retrofitting techniques and relevant data addressing vernacular architecture an amazing source of knowledge and to this day home to 4 billion people

**Proceedings of the Eleventh European Conference on Earthquake Engineering** Alain Pecker,Philippe Bisch,Pierre Labbé,1998 *Harmonization of Seismic Hazard in Vrancea Zone* Anton Zaicenco,Iolanda Craifaleanu,Ivanka Paskaleva,2008-11-14 The NATO Science for Peace Project SfP 980468 Harmonization of Seismic Hazard and Risk Reduction in Countries Influenced by Vrancea Earthquakes was an ambitious attempt to harmonize the seismic hazard assessment in Bulgaria Moldova and Romania and provide the guidelines for seismic risk reduction in the target countries Related to the study of intermediate depth Vrancea earthquakes it became operational in 2005 The project co coordinators were as follows Prof G ney zcebe Ankara Turkey Dr Anton Zaicenco Chisinau Moldova Dr Iolanda Craifaleanu Bucharest Romania Prof Ivanka Paskaleva Sofia Bulgaria The project has brought together leading research personalities in the area of earthquake engineering seismology and earth physics from several countries for brainstorming sessions informal discussions and exchanges of ideas One of its key components was an upgrade of the strong motion seismic networks of the countries participants which created a foundation for a long term collaboration A number of papers have been published as a result of the work conducted under this project The present book contains the Proceedings of the Closing Workshop for Project SfP 980468 which was organized in Chisinau Moldova on May 20 2008 From hazard analyses to protection of the historical buildings from study of the dynamic properties of the soft soils to paleoseismology there are few areas of interest that remain untouched Research from the NATO members and partner countries in South Eastern Europe that forms the components of NATO Project SfP 980468 has made solid contributions to the Workshop theme

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