



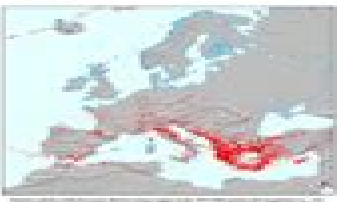
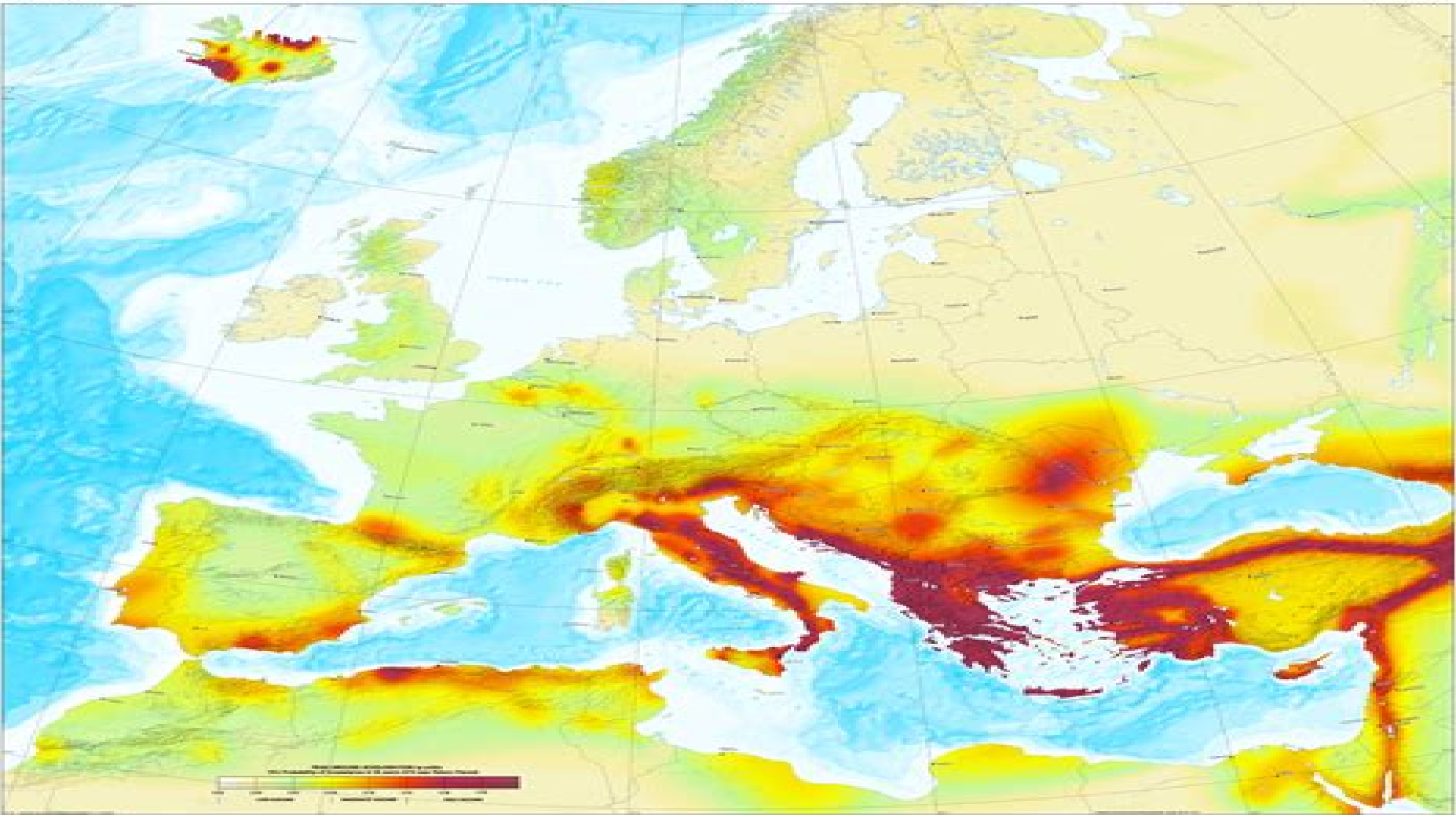
EUROPEAN-MEDITERRANEAN SEISMIC HAZARD MAP

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



Scale 1:5 000 000

February 2000



1. INTRODUCTION
This map represents the seismic hazard assessment for the European-Mediterranean region, based on the results of the SESAME project. The assessment is based on a detailed analysis of seismicity, geological structures, and the seismicity of the region. The map is intended to provide a comprehensive overview of the seismic hazard across the region, highlighting areas of high hazard and areas of low hazard.

2. DATA SOURCES
The data used in this map are derived from a variety of sources, including seismicity data, geological data, and data from the SESAME project. The seismicity data are based on the catalog of earthquakes compiled by the European Seismological Commission (ESC). The geological data are based on the geological maps of the region, which provide information on the geological structures and the seismicity of the region.

3. METHODOLOGY
The methodology used in this map is based on the results of the SESAME project, which involved a detailed analysis of seismicity, geological structures, and the seismicity of the region. The methodology involves the use of a series of steps, including the identification of seismicity, the analysis of geological structures, and the assessment of seismic hazard.

4. RESULTS
The results of the seismic hazard assessment are presented in this map, which shows the distribution of seismic hazard across the European-Mediterranean region. The map highlights areas of high hazard, which are concentrated in the Mediterranean basin, the Alps, and the Iberian Peninsula. The map also shows areas of low hazard, which are found in the northern part of the region.



Seismic Hazard In Mediterranean Regions

Andreas Kappos



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 Markuic 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

Submarine Active Faults: From Regional Observations to Seismic Hazard Characterization Hector Perea,Sara Martinez-Loriente,Jillian Maloney,Francesco Emanuele Maesano,Paola Vannucchi,2022-01-20

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

The Adria Microplate: GPS Geodesy, Tectonics and Hazards Nicholas Pinter, Gyula Grencs, John Weber, Seth Stein, Damir Medak, 2006-01-05 Tectonic motion of the Adria microplate exerts a first order control on the tectonics geology seismology resource distribution and the geological hazards across a broad zone of south central Europe and the north central Mediterranean Since its first application to geodynamical problems GPS geodesy has gradually revealed the nature of motion and deformation for most active areas of deformation across the Earth One of the last remaining regional scale problems on the planet is the motion and associated deformation in the peri Adriatic region Selected local scale studies have examined aspects of this motion but to date no truly regional analysis or regional team has systematically attacked the full breadth of this problem A NATO Advanced Research Workshop ARW was held in Veszprém Hungary from April 4-7 2004 This workshop brought together a distinguished international group of scientists working in the peri Adriatic region to 1 review research activities and results 2 share technical expertise and 3 provide a springboard for future collaborative research on Adria geodynamics Areas of agreement were identified as well as remaining areas of debate In addition attention focused on important scientific questions and the potential for international and interdisciplinary research in the future *Proceedings*

of the Eleventh European Conference on Earthquake Engineering Alain Pecker, Philippe Bisch, Pierre Labbé, 1998 **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 **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 **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 **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

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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

Geological Hazards in the UK D.P. Giles,J.S. Griffiths,2020-06-09 The UK is perhaps unique globally in that it presents the

full spectrum of geological time stratigraphy and associated lithologies within its boundaries With this wide range of geological assemblages comes a wide range of geological hazards whether they be geophysical earthquakes effects of volcanic eruptions tsunami landslides geotechnical collapsible compressible liquefiable shearing swelling and shrinking soils geochemical dissolution radon and methane gas hazards or georesource related coal chalk and other mineral extraction An awareness of these hazards and the risks that they pose is a key requirement of the engineering geologist The Geological Society considered that a Working Party Report would help to put the study and assessment of geohazards into the wider social context helping the engineering geologist to better communicate the issues concerning geohazards in the UK to the client and the public This volume sets out to define and explain these geohazards to detail their detection monitoring and management and to provide a basis for further research and understanding

Earthquake Hazard and Risk Vladimír Schenk, 2012-12-06 *Earthquake Hazard and Risk* is a book summarizing selected papers presented at the 27th General Assembly of the International Association of Seismology and Physics of the Earth's Interior Wellington January 1994 The papers rigorously scrutinized by an international board of referees cover some recent aspects of current research in earthquake hazard and seismic risk They address the algorithms and methodology used in seismological applications the reliability of these techniques with the decreasing level of probability and uncertainty associated with various seismotectonic settings the physical and statistical nature of earthquake occurrences strong ground motions and effects of surface seismogeological conditions A special effort has been made to include papers that illustrate the assessment of earthquake hazard and seismic risk through applications at sites in either inter plate or intra plate tectonic settings Of particular interest is hazard assessment in regions of rare large earthquakes The book is suitable for those interested in earthquake hazard and seismic risk research as well as a more general audience of seismologists geophysicists and Earth scientists It is also useful for authorities responsible for public safety and natural hazard mitigation plans and for insurance companies

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