

Contributors by chapter

Chapter 1. Introduction

ADVISORS

Ylenia Cimmarrusti - European Commission, Joint Research Centre

Tom de Groeve - European Commission, Joint Research Centre

Jozias Blok - European Commission, Directorate-General for International Cooperation and Development (Former)

Maddalena Dali - European Commission, Directorate-General for Climate Action

TEAM OF AUTHORS

Ainara Casajus Valles - European Commission, Joint Research Centre

Montserrat Marin Ferrer - European Commission, Joint Research Centre

Ian Clark - European Commission, Joint Research Centre (Former)

Alessandra Sgobbi - European Commission, Directorate-General for Climate Action

Christofer Ahlgren - European Commission, Directorate-General for Climate Action

Emma Phillips - World Bank Group

Daniel Kull - World Bank Group

Alanna Simpson - World Bank Group

Hugo Wesley - World Bank Group

Aikaterini Poustourli - International Hellenic University (IHU), Greece

EXTERNAL REVIEWERS

Mirco Barbero - European Commission, Directorate-General for Environment

Cristina Brailescu - European Commission, Directorate-General for Environment

Pawel Busiakiewicz - European Commission, Directorate-General for Migration and Home Affairs

Jose Perez Navarrete - European Commission, Directorate-General for Migration and Home Affairs

Chiara Dellapasqua - European Commission, Directorate-General for Agriculture and Rural Development

Mariusz Legowski - European Commission, Directorate-General for Agriculture and Rural Development

Ricard Ramon i Sumoy - European Commission, Directorate-General for Agriculture and Rural Development

Katrin Maria Rudolf - European Commission, Directorate-General for Agriculture and Rural Development

Gijs Schilthuis - European Commission, Directorate-General for Agriculture and Rural Development

Christian Vincentini - European Commission, Directorate-General for Agriculture and Rural Development

Laura Indriliunaite - European Commission, Directorate-General for European Civil Protection and

Humanitarian Aid Operations

Alessandra Zampieri - European Commission, Joint Research Centre

Chapter 2. Integrating the risk management cycle

Subchapter 2.1 Risk Assessment

ADVISORS

Clemens Neuhold - Federal Ministry of Agriculture, Regions and Tourism, Austria

Eugenio Gil - Consejo de Seguridad Nacional, Spain (Former) / International Atomic Energy Agency (IAEA)

Alik Ismail-Zadeh - Karlsruhe Institute of Technology, Germany / the International Science Council, France

TEAM OF AUTHORS

COORDINATING LEAD AUTHORS

Gerassimos A. Papadopoulos - International Society for the Prevention & Mitigation of Natural Hazards, Greece

Todor Tagarev - Bulgarian Academy of Sciences, Bulgaria

LEAD AUTHOR

Michael Hagenlocher - United Nations University, Germany

CONTRIBUTING AUTHORS

Annegret Thieken - University of Potsdam, Germany
Stefan Schneiderbauer - United Nations University, Germany/Eurac Research, Italy
Ignacio Aguirre Ayerbe - IHCantabria, Spain
Pavel Dobes - Technical University of Ostrava, Czechia
Amy Donovan - University of Cambridge, United Kingdom
Claudia Morsut - University of Stavanger, Norway
Nicholas Paris - Cyprus Civil Defence, Cyprus
Lydia Pedoth - Eurac Research, Italy
Fahim Tonmoy - Griffith University, Australia

EXTERNAL REVIEWERS

Ajin R.S.- Kerala State Disaster Management Authority, India
Francesco Fusto - Regional Environmental Protection Agency of Calabria, Italy
Leendert Gooijer - National Institute for Public Health and the Environment (RIVM), Netherlands
Helene Jacot des Combes - National Disaster Management Office, Marshall Islands
Danai Kazantzidou - Firtinidou, Center for Security Studies (KEMEA), Greece
Carlos Mendes Lucio - Portuguese National Authority for Emergencies and Civil Protection (ANEPC), Portugal
Petre-Cornel Min - National Commission for Nuclear Activities Control (CNCAN), Romania
Gregory Pearn - NIRAS - IP Consult, Germany
Roger Street - University of Oxford, United Kingdom
Dusan Zupka - École des mines d'Alès, France

Subchapter 2.2 Risk Management Planning

ADVISORS

Clemens Neuhold - Federal Ministry of Agriculture, Regions and Tourism, Austria
Eugenio Gil - Consejo de Seguridad Nacional (former), Spain / International Atomic Energy Agency (IAEA)
Sorin Cursaru - European Commission, Joint Research Centre

TEAM OF AUTHORS

COORDINATING LEAD AUTHORS

Gerassimos A. Papadopoulos - International Society for the Prevention & Mitigation of Natural Hazards, Greece
Todor Tagarev - Bulgarian Academy of Sciences, Bulgaria

LEAD AUTHORS

Richard Sliuzas - University of Twente, Netherlands

CONTRIBUTING AUTHORS

Peter Jackovics - National Directorate General for Disaster Management, Hungary
Solveig Thorvaldsdottir - Rainrace, Iceland
Karolina Kalinowska - European Commission, Directorate-General for European Civil Protection and Humanitarian Aid Operations
Pavlos Tyrologou - European Federation of Geologists, Greece
Christian Resch - Resilience Solutions International, Austria
Sergio Castellari - European Environment Agency (seconded from National Institute of Geophysics and Volcanology, Italy)
Stefan Greiving - Technical University of Dortmund, Germany

EXTERNAL REVIEWERS

Dimitrios Alexandris - General Secretariat for Civil Protection, Greece
Funda Atun-Girgin - University of Twente, Netherlands
Francesco Fusto - Regional Environmental Protection Agency of Calabria, Italy
Artemis Galani - General Secretariat for Civil Protection, Greece

Helene Jacot des Combes - National Disaster Management Office, Marshall Islands
 Carlos Mendes Lucio - Portuguese National Authority for Emergencies and Civil Protection (ANEPC), Portugal
 Petre-Cornel Min - National Commission for Nuclear Activities Control (CNCAN), Romania
 Gregory Pearn - NIRAS - IP Consult, Germany
 Dan Serbanescu - Societatea Nuclearelectrica SA, Romania
 Magda Stepanyan - Risk Society, Belgium
 Roger Street - University of Oxford, United Kingdom

Subchapter 2.3 Implementing risk management measures

ADVISORS

Clemens Neuhold - Federal Ministry of Agriculture, Regions and Tourism, Austria
 Eugenio Gil - Consejo de Seguridad Nacional (former), Spain / International Atomic Energy Agency (IAEA)
 Sorin Cursaru - European Commission, Joint Research Centre

TEAM OF AUTHORS

COORDINATING LEAD AUTHORS

Gerassimos A. Papadopoulos - International Society for the Prevention & Mitigation of Natural Hazards, Greece
 Todor Tagarev - Bulgarian Academy of Sciences, Bulgaria

LEAD AUTHORS

Mikio Ishiwatari - University of Tokyo, Japan
 Eduardo Gallego - Universidad Politecnica de Madrid, Spain

CONTRIBUTING AUTHORS

Maureen Wood - European Commission, Joint Research Centre
 Lydia Cumiskey - Middlesex University, United Kingdom
 Roger S. Pulwarty - US National Oceanic and Atmospheric Administration, United States of America
 Matthieu Meerpoel - Catholic University of Lille, France
 Agostino Goretti - Civil Protection Department, Italy

EXTERNAL REVIEWERS

Dimitrios Alexandris - General Secretariat for Civil Protection, Greece
 Artemis Galani - General Secretariat for Civil Protection, Greece
 Helene Jacot des Combes - National Disaster Management Office, Marshall Islands
 Peter Lauwe - Federal Office of Civil Protection and Disaster Assistance (BBK), Germany
 Carlos Mendes Lucio - Portuguese National Authority for Emergencies and Civil Protection (ANEPC), Portugal
 Petre-Cornel Min - National Commission for Nuclear Activities Control (CNCAN), Romania
 Gregory Pearn - NIRAS - IP Consult, Germany
 Roger Street - University of Oxford, United Kingdom
 Kathleen van Heuverswyn - KULeuven, Belgium

Chapter 3. Assets at risk and potential impacts

Subchapter 3.1 Methodologies for Disaster Impact Assessment

ADVISORS

Xu Tang - World Meteorological Organization (WMO) / Fudan University, China
 Peter Hoeppe - Munich Re, Germany (Former) / Nanyang Technological University, Singapore
 Gerald Fleming - Meteo Consultancy, Ireland

TEAM OF AUTHORS

LEAD AUTHORS

Abhinav Walia - The University of Newcastle, Australia
 Scira Menoni - Politecnico di Milano, Italy

CONTRIBUTING AUTHORS

Marcelo Farah Dell'Aringa - Università del Piemonte Orientale, Italy
Matus Bakon - University of Presov, Slovakia
Martin Rovnak - University of Presov, Slovakia
Kristian Milenov - Agency of Sustainable Development and Eurointegration – Ecoregions (ASDE), Bulgaria
Assen Dylgerov - Agency of Sustainable Development and Eurointegration – Ecoregions (ASDE), Bulgaria
Radko Radkov - Agency of Sustainable Development and Eurointegration – Ecoregions (ASDE), Bulgaria
Leo Posthuma - National Institute for Public Health and the Environment, Netherlands
Todor Shopov - Sofia University “St. Kliment Ohridski”, Bulgaria
Krassimir Markov - University of Telecommunications and Post, Bulgaria
Cees van de Guchte - Deltares, Netherlands
Monica Altamirano - Deltares, Netherlands
Dennis Wagenaar - Deltares, Netherlands

EXTERNAL REVIEWERS

Ajin R.S.- Kerala State Disaster Management Authority, India
Graham Brewer - The University of Newcastle, Australia
Marc Erlich - freelance consultant, France
Allan Lavell - Latin American Social Science Faculty (FLACSO)
Carlos Mendes Lucio - Portuguese National Authority for Emergencies and Civil Protection (ANEPC), Portugal
Angela Potenciano Heras - National School of Civil Protection, Spain / Universidad Complutense de Madrid, Spain
Roger Street - University of Oxford, United Kingdom

Subchapter 3.2 Population

3.2.1 Threat to life

ADVISOR

Daniele Ehrlich - European Commission, Joint Research Centre

TEAM OF AUTHORS

COORDINATING LEAD AUTHOR

Thomas Kemper - European Commission, Joint Research Centre

LEAD AUTHORS

Sergio Freire - European Commission, Joint Research Centre
Olga Petrucci - Consiglio Nazionale delle Ricerche, Istituto di Ricerca per la Protezione Idrogeologica (CNR-IRPI), Italy

CONTRIBUTING AUTHORS

Paul T. J. Scheepers - Radboudumc, Netherlands / Public Health Service Tilburg, Netherlands
Jeroen M. M. Neuvel - National Institute for Public Health and the Environment, Netherlands
Joacim Rocklöv - Umeå University, Sweden
Christofer Åström - Umeå University, Sweden

EXTERNAL REVIEWERS

Yung-Fang Chen - Coventry University, United Kingdom
Susan Cutter - University of South Carolina, United States of America
Gábor Földvári - Centre for Ecological Research, Hungary
Barbara Juen - University of Innsbruck, Austria / Austrian Red Cross, Austria
Danai Kazantzidou-Firtinidou - Center for Security Studies (KEMEA), Greece
Kim Lintrup - Frederiksborg Brand & Redning, Denmark
Cian O'Brien - Health Service Executive, Ireland

Kathrin Renner - Eurac Research, Italy
 Stoyan Stoyanov - Academy of the Ministry of Interior, Bulgaria
 Erich Striessnig - Wittgenstein Centre for Demography and Global Human Capital, Austria
 Valery Todorov - Academy of the Ministry of Interior, Bulgaria

3.2.2 Threat to housing and habitat

ADVISOR

Daniele Ehrlich - European Commission, Joint Research Centre

TEAM OF AUTHORS

COORDINATING LEAD AUTHORS

Thomas Kemper - European Commission, Joint Research Centre

LEAD AUTHORS

Marcello Schiavina - European Commission, Joint Research Centre

Giulio Zuccaro - University of Naples Federico II, Italy

CONTRIBUTING AUTHORS

Eve Coles - Journal Emergency Management Review, United Kingdom

Daniela De Gregorio - University of Naples Federico II, Italy

Lucy Easthope - University of Bath, United Kingdom

Daniel F. Lorenz - Freie Universität Berlin, Germany

Oriol Monserrat - Centre Tecnològic de Telecomunicacions de Catalunya, Spain

Filomena Papa - Civil Protection Department, Italy

Jair Torres - SAR Global Consulting, France

Marjan van Meerloo - European Commission, Directorate-General for Research and Innovation

EXTERNAL REVIEWERS

Ajin R.S.- Kerala State Disaster Management Authority, India

Daniela Baleva - "G. S. Rakovski" National Defence College, Bulgaria

Yung-Fang Chen - Coventry University, United Kingdom

Susan Cutter - University of South Carolina, United States of America

Danai Kazantzidou-Firtinidou - Center for Security Studies (KEMEA), Greece

Paul O'Hare - Manchester Metropolitan University, United Kingdom

Angeliki Paidakaki - KU Leuven, Belgium

Angela Potenciano Heras - National School of Civil Protection, Spain / Universidad Complutense de Madrid, Spain

Magali Reghezza-Zitt - Ministry of Higher Education, Research and Innovation, France

Kathrin Renner - Eurac Research, Italy

Stoyan Stoyanov - Academy of the Ministry of Interior, Bulgaria

Valery Todorov - Academy of the Ministry of Interior, Bulgaria

3.2.3 Threat to society

ADVISOR

Daniele Ehrlich - European Commission, Joint Research Centre

TEAM OF AUTHORS

COORDINATING LEAD AUTHOR

Thomas Kemper - European Commission, Joint Research Centre

LEAD AUTHORS

Aslan Mehmet Çoşkun - Disaster and Emergency Management Authority (AFAD), Turkey

Ivan Frigerio - University of Milano-Bicocca, Italy

CONTRIBUTING AUTHORS

Marcelo Farah Dell'Aringa - Università del Piemonte Orientale, Italy

Nils Vandenbroucke - VIVES University College, Belgium

Veit Blauhut - University of Freiburg, Germany

EXTERNAL REVIEWERS

Ajin R.S. - Kerala State Disaster Management Authority, India

Daniela Baleva - Rakovski National Defence College, Bulgaria

Yung-Fang Chen - Coventry University, United Kingdom

Susan Cutter - University of South Carolina, United States of America

Marc Erlich - freelance consultant, France

Vlatko Jovanovski - Disaster Preparedness and Prevention Initiative for South Eastern Europe

Angela Potenciano Heras - National School of Civil Protection, Spain / Universidad Complutense de Madrid, Spain

Magali Reghezza-Zitt - Ministry of Higher Education, Research and Innovation, France

Kathrin Renner - Eurac Research, Italy

Stoyan Stoyanov - Academy of the Ministry of Interior, Bulgaria

Valery Todorov - Academy of the Ministry of Interior, Bulgaria

Subchapter 3.3 Economic sectors

3.3.1 Residential sector

ADVISOR

Anna Santoro - European Commission, Joint Research Centre

TEAM OF AUTHORS

COORDINATING LEAD AUTHOR

Jaroslav Mysiak - Centro Euro-Mediterraneo sui Cambiamenti Climatici (CMCC), Italy / Ca' Foscari

University of Venice, Italy

LEAD AUTHORS

Daniela Molinari - Politecnico di Milano, Italy

Georgios Tsionis - European Commission, Joint Research Centre

CONTRIBUTING AUTHORS

Adamantia Athanasopoulou - European Commission, Joint Research Centre

Dionysios Bournas - European Commission, Joint Research Centre

Roxana Ciurean - British Geological Survey, United Kingdom

Daniela De Gregorio - University of Naples Federico II, Italy

Mattia Leone - University of Naples Federico II, Italy

Tiziana Rossetto - University College London, United Kingdom

Maria Luísa Sousa - European Commission, Joint Research Centre

Giulio Zuccaro - University of Naples Federico II, Italy

EXTERNAL REVIEWERS

Allan Beltran Hernandez - University of Birmingham, United Kingdom

Chandra Bhakuni - Freelance consultant, India

Lee Boshier - Loughborough University, United Kingdom

Anna Rita Manca - European Commission, Joint Research Centre

Michio Naoi - Keio University, Japan

Srinath Perera - Western Sydney University, Australia

Anders Rimne - Boverket - National Board of Housing, Building and Planning, Sweden

Emlyn Witt - Tallinn University of Technology, Estonia

3.3.2 Agriculture

ADVISOR

Anna Santoro - European Commission, Joint Research Centre

TEAM OF AUTHORS

COORDINATING LEAD AUTHOR

Jaroslav Mysiak - Centro Euro-Mediterraneo sui Cambiamenti Climatici (CMCC), Italy / Ca' Foscari University of Venice, Italy

LEAD AUTHOR

Andrea Toreti - European Commission, Joint Research Centre

CONTRIBUTING AUTHORS

Simona Bassu - European Commission, Joint Research Centre

Dioniso Perez Blanco - Universidad de Salamanca, Spain / Centro Euro-Mediterraneo sui Cambiamenti Climatici, Italy

Fabian Capitanio - University of Naples Federico II, Italy

Rodrigo Rudge Ramos Ribeiro - Getulio Vargas Foundation, Brazil

Daniela Molinari - Politecnico di Milano, Italy

Heidi Webber - Leibniz Centre for Agricultural Landscape Research, Germany

EXTERNAL REVIEWERS

Nicolas Bauduceau - CCR, France

Helena Kahiluoto - LUT University, Finland

(Blaz Kurnik - European Environment Agency (EEA

Fabio Santeramo - University of Foggia, Italy

Giulia Vico - Swedish University of Agricultural Sciences (SLU), Sweden

Slavica Zec - European Commission, Joint Research Centre

3.3.3 Industry and energy

ADVISOR

Anna Santoro - European Commission, Joint Research Centre

TEAM OF AUTHORS

COORDINATING LEAD AUTHOR

Jaroslav Mysiak - Centro Euro-Mediterraneo sui Cambiamenti Climatici (CMCC), Italy / Ca' Foscari University of Venice, Italy

LEAD AUTHOR

Yasuhide Okuyama - University of Kitakyushu, Japan

CONTRIBUTING AUTHORS

Serkan Girgin - University of Twente, Netherlands

María Isabel Martínez Torre-Enciso - Universidad Autónoma de Madrid, Spain

Zdenko Šimić - European Commission, Joint Research Centre

EXTERNAL REVIEWERS

Daniela Baleva - "G. S. Rakovski" National Defence College, Bulgaria

Serena Fatica - European Commission, Joint Research Centre

Fadi Hamdan - DRM Centre, Lebanon

Subchapter 3.4 Critical Infrastructures

3.4.1 Emergency infrastructure and facilities

ADVISORS

Georgios Giannopoulos - European Commission, Joint Research Centre

Wolfgang Raskob - Karlsruhe Institute of Technology, Germany

Pierre Kockerols - European Commission, Joint Research Centre

TEAM OF AUTHORS

COORDINATING LEAD AUTHORS

John Agius - Critical Infrastructure Protection Directorate (CIPD), Malta

Georgios Marios Karagiannis - European Commission, Joint Research Centre

LEAD AUTHOR

Gianluca Pescaroli - University College London, United Kingdom

CONTRIBUTING AUTHORS

David Alexander - University College London, United Kingdom

Virginia Murray - Public Health England, United Kingdom

EXTERNAL REVIEWERS

Dimitrios Alexandris - General Secretariat for Civil Protection, Greece

Daniela Baleva - "G. S. Rakovski" National Defence College, Bulgaria

Danai Kazantzidou-Firtinidou - Center for Security Studies (KEMEA), Greece

Peter Lauwe - Federal Office of Civil Protection and Disaster Assistance (BBK), Germany

Kim Lintrup - Frederiksborg Brand & Redning, Denmark

Joel Joris van de Klundert - Erasmus University Rotterdam, Netherlands

3.4.2 Network infrastructures

ADVISORS

Georgios Giannopoulos - European Commission, Joint Research Centre

Wolfgang Raskob - Karlsruhe Institute of Technology, Germany

Pierre Kockerols - European Commission, Joint Research Centre

TEAM OF AUTHORS

COORDINATING LEAD AUTHORS

John Agius - Critical Infrastructure Protection Directorate (CIPD), Malta

Georgios Marios Karagiannis - European Commission, Joint Research Centre

LEAD AUTHORS

Luca Galbusera - European Commission, Joint Research Centre

Marianthi Theocharidou - European Commission, Joint Research Centre

CONTRIBUTING AUTHORS

Oriol Monserrat - Centre Tecnològic de Telecomunicacions de Catalunya, Spain

Petr Novotny - Technical University of Ostrava, Czechia

Giovanni Sansavini - ETH Zürich, Switzerland

Bozidar Stojadinovic - ETH Zürich, Switzerland

EXTERNAL REVIEWERS

Stefano Bracco - Agency for the Cooperation of Energy Regulators (ACER), Slovenia

Danai Kazantzidou - Firtinidou - Center for Security Studies (KEMEA), Greece

Peter Lauwe - Federal Office of Civil Protection and Disaster Assistance (BBK), Germany

Ricardo Messias - EDP Distribuição, Portugal

Eleonora Papadimitriou - Delft University of Technology, Netherlands

David Rehak - Technical University of Ostrava, Czechia

Margarita Zango Pascual - Universidad Pablo de Olavide de Sevilla, Spain

3.4.3 Core industrial and energy facilities

ADVISORS

Georgios Giannopoulos - European Commission, Joint Research Centre

Wolfgang Raskob - Karlsruhe Institute of Technology, Germany

Pierre Kockerols - European Commission, Joint Research Centre

TEAM OF AUTHORS

COORDINATING LEAD AUTHORS -

John Agius - Critical Infrastructure Protection Directorate (CIPD), Malta

Georgios Marios Karagiannis - European Commission, Joint Research Centre

LEAD AUTHOR

Elisabeth Krausmann - European Commission, Joint Research Centre

CONTRIBUTING AUTHORS

Athanasios Fourtounas - Joint Logistics Support Group NATO, Greece

Serkan Girgin - University of Twente, the Netherlands

Miguel Angel Hernandez Ceballos - European Commission, Joint Research Centre

Daniel Jung - European Commission, Joint Research Centre

Ernesto Salzano - University of Bologna, Italy

Zdenko Šimić - European Commission, Joint Research Centre

EXTERNAL REVIEWERS

Artemis Galani - General Secretariat for Civil Protection, Greece

Franziska Hirsch - United Nations Economic Commission for Europe (UNECE)

Nima Khakzad Rostami - Delft University of Technology, Netherlands

Peter Lauwe - Federal Office of Civil Protection and Disaster Assistance (BBK), Germany

Sergiusz Ludwiczak - United Nations Economic Commission for Europe (UNECE)

Olivier Salvi - INERIS Developpement, France

Francisc Senzaconi - General Inspectorate for Emergency Situations, Romania

3.4.4 Communication systems

ADVISORS

Georgios Giannopoulos - European Commission, Joint Research Centre

Wolfgang Raskob - Karlsruhe Institute of Technology, Germany

Pierre Kockerols - European Commission, Joint Research Centre

TEAM OF AUTHORS

COORDINATING LEAD AUTHORS

John Agius - Critical Infrastructure Protection Directorate (CIPD), Malta

Georgios Marios Karagiannis - European Commission, Joint Research Centre

LEAD AUTHOR

Kalpna Chaudhari - Institute for Sustainable Development and Research, India / Shah and Anchor Kutchhi Engineering College, India

CONTRIBUTING AUTHORS,

David Lund - Public Safety Communication Europe Forum, Belgium

Paruthummoetil Jacob Philip - Institute for Sustainable Development and Research, India

Pasquale De Toro - University of Naples Federico II, Italy

Maria Cerreta - University of Naples Federico II, Italy

Jose Luis Marin - Aplicaciones en Informática Avanzada, SL, Spain

Milenko Halat - Aplicaciones en Informática Avanzada, SL, Spain

EXTERNAL REVIEWERS

Yung-Fang Chen - Coventry University, United Kingdom

David Hutchison - Lancaster University, United Kingdom

Peter Lauwe - Federal Office of Civil Protection and Disaster Assistance (BBK), Germany

Alexander Preinerstorfer - AIT Austrian Institute of Technology, Austria

Dimiter Velez - University of National and World Economy, Bulgaria

Subchapter 3.5 Environment and ecosystem services

ADVISORS

Joachim Maes - European Commission, Joint Research Centre

Yuri Bruinen de Bruin - European Commission, Joint Research Centre

TEAM OF AUTHORS

LEAD AUTHORS

Alfred de Jager - European Commission, Joint Research Centre

Sara Peláez - University of Limerick, Ireland

CONTRIBUTING AUTHORS

Johanes Amate Belle - UFS-DiMTEC, South Africa

Veit Blauhut - University of Freiburg, Germany

Elisabeth Krausmann - European Commission, Joint Research Centre

Nina Nikolić - University of Belgrade, Serbia

Karoliina Pilli Sihvola - Finnish Meteorological Institute, Finland

Alessandra La Notte - European Commission, Joint Research Centre

Jordi Cortina - University of Alicante, Spain

EXTERNAL REVIEWERS

András Báldi - Centre for Ecological Research, Hungary

Mirco Barbero - European Commission, Directorate-General for Environment

Cristina Brăilescu - European Commission, Directorate-General for Environment

Vena Pearl Bongolan - UP Diliman, Philippines

Zuzana Harmáčková - Czech Academy of Sciences, Czechia

Ulrich Schwarz - Fluvius, Austria

Deepthi Wickramasinghe - University of Colombo, Sri Lanka

Subchapter 3.6 Cultural heritage

ADVISOR

Sergio Olivero - Politecnico di Torino, Italy

TEAM OF AUTHORS

LEAD AUTHOR

Xavier Romão - University of Porto, Portugal

CONTRIBUTING AUTHORS

Esmeralda Paupério - University of Porto, Portugal

Oriol Monserrat - Centre Tecnològic de Telecomunicacions de Catalunya, Spain

Theodoros Rousakis - Democritus University of Thrace, Greece

Pilar Montero Vilar - Complutense University of Madrid, Spain

EXTERNAL REVIEWERS

Isabelle Anatole-Gabriel - United Nations Educational, Scientific and Cultural Organization (UNESCO)

Giovanni Boccardi - United Nations Educational, Scientific and Cultural Organization (UNESCO)
 Lejla Hadžić - Cultural Heritage without Borders, Albania
 Mario Hernandez - International Society for Digital Earth (ISDE), Switzerland
 Elena Mamani - Cultural Heritage without Borders, Albania
 Ionut Cristi Nicu - Norwegian Institute for Cultural Heritage Research, Norway
 Mohammad Ravankhah - University of Stuttgart, Germany

Chapter 4. Communicating risk among all

Subchapter 4.1 Linking actors, sectors and governance levels

ADVISORS

Daniela di Bucci - Civil Protection Department, Italy
 Sálvano Briceño - United Nations Office for Disaster Risk Reduction (UNDRR) (Former) / International Science Council (ISC/ROLAC)
 Kevin Blanchard - DRR Dynamics, United Kingdom
 Wolfgang Raskob - Karlsruhe Institute of Technology, Germany

TEAM OF AUTHORS

COORDINATING LEAD AUTHORS

Kees Boersma - Vrije Universiteit Amsterdam, Netherlands
 Cristina Martelli - University of Florence, Italy

LEAD AUTHORS

Yuri Bruinen de Bruin - European Commission, Joint Research Centre
 Ana Lisa Vetere Arellano - European Commission, Joint Research Centre

CONTRIBUTING AUTHORS

Chloe Begg - Helmholtz-Zentrum für Umweltforschung (UFZ), Germany
 Nicolas Dechy - Institut de Radioprotection et de Sûreté Nucléaire (IRSN), France
 Amy Donovan - University of Cambridge, United Kingdom
 Karolina Kalinowska - European Commission, Directorate-General for European Civil Protection and Humanitarian Aid Operations
 Boris Petrenj - Politecnico di Milano, Italy
 Christian Resch - Resilience Solutions International, Austria
 Tuuli Tulonen - Finnish Safety and Chemicals Agency (TUKES), Finland

EXTERNAL REVIEWERS

Yung-Fang Chen - Coventry University, United Kingdom
 Marc Erlich - freelance consultant, France
 Paul O'Hare - Manchester Metropolitan University, United Kingdom
 Dan Serbanescu - Societatea Nuclearelectrica SA, Romania
 Kathleen van Heuverswyn - KU Leuven, Belgium
 Jolanta Zubrickaite - European Commission, Joint Research Centre

Subchapter 4.2 Citizen participation and public awareness

ADVISORS

Daniela di Bucci - Civil Protection Department, Italy
 Sálvano Briceño - United Nations Office for Disaster Risk Reduction (UNDRR) (Former) / International Science Council (ISC/ROLAC)
 Kevin Blanchard - DRR Dynamics, United Kingdom

TEAM OF AUTHORS

COORDINATING LEAD AUTHORS

Kees Boersma - Vrije Universiteit Amsterdam, Netherlands

Cristina Martelli - University of Florence, Italy

LEAD AUTHOR

Liesbeth Claassen - National Institute for Public Health and the Environment (RIVM), Netherlands

CONTRIBUTING AUTHORS

Kalliopi Sapountzaki - Harokopion University of Athens, Greece

Anna Scolobig - University of Geneva, Switzerland

Tanja Perko - Belgian nuclear research centre SCK CEN, Belgium / University of Antwerp, Belgium

Slawomir Górski - Ministry of the Interior and Administration, Poland

Danuta Kaźmierczak - Pedagogical University Krakow, Poland

Susan Anson - Trilateral Research, London, United Kingdom

Fabio Carnelli - University of L'Aquila, Italy

Remy Bossu - European-Mediterranean Seismological Centre, France

Carlos Sousa Oliveira - Instituto Superior Tecnico, University of Lisbon, Portugal

Heikki Laurikainen - The Finnish National Rescue Association, Finland

EXTERNAL REVIEWERS

Funda Atun-Girgin - University of Twente, Netherlands

Daniel Auferbauer - AIT Austrian Institute of Technology, Austria

Frank Bell - Kybernetix LLC, United States of America.

Yung-Fang Chen - Coventry University, United Kingdom

Ann Enander - Swedish Defence University, Sweden

Susanna Falsaperla - Istituto Nazionale di Geofisica e Vulcanologia, Italy

Michael O'Grady - University College Dublin, Ireland

Jolanta Zubrickaite - European Commission, Joint Research Centre

Frank Bell - Kybernetix LLC, United States of America.

Subchapter 4.3 Integrating tools for prevention and response communication systems

ADVISORS

Daniela di Bucci - Civil Protection Department, Italy

Sálvano Briceño - United Nations Office for Disaster Risk Reduction (UNDRR) (Former) / International Science Council (ISC/ROLAC)

Kevin Blanchard - DRR Dynamics, United Kingdom

Christian Morgner - University of Leicester, United Kingdom

TEAM OF AUTHORS

COORDINATING LEAD AUTHORS

Kees Boersma - Vrije Universiteit Amsterdam, Netherlands

Cristina Martelli - University of Florence, Italy

LEAD AUTHOR

Stefan Pickl - German Committee for Disaster Reduction (DKKV), Germany /

Universität der Bundeswehr München, Germany

CONTRIBUTING AUTHORS

Gilles Grandjean - Bureau de Recherches Géologiques et Minières, Risk & Prevention (BRGM), France

Piotr Kolmann - The Main School of Fire Service, Poland

Miodrag Stručić - European Commission, Joint Research Centre

Gemma Musacchio - Istituto Nazionale di Geofisica e Vulcanologia, Italy

Claudio Rossi - Istituto Superiore Mario Boella, Italy

EXTERNAL REVIEWERS

Monica Viorela Alexandru - Ministry of Research and Innovation, Romania

Frank Bell - Kybernetix LLC, United States of America.

Yung-Fang Chen - Coventry University, United Kingdom

Marc Erlich - freelance consultant, France

Marco Manso - EDGENEERING, Portugal

Michael O'Grady - University College Dublin, Ireland

Alexander Preinerstorfer - AIT Austrian Institute of Technology, Austria

Dimitar Velev - University of National and World Economy, Bulgaria

Chapter 5. Transferability of knowledge and innovation across the world

ADVISORS

Tom de Groeve - European Commission, Joint Research Centre

Marc Gordon - United Nations Office for Disaster Risk Reduction (UNDRR)

Olvido Guzman - OECD Nuclear Energy Agency

TEAM OF AUTHORS

LEAD AUTHOR

Bapon (SHM) Fakhruddin - Tonkin + Taylor, New Zealand

CONTRIBUTING AUTHORS

Jair Torres - SAR Global Consulting, France

Boris Petrenj - Politecnico Di Milano, Italy

Laura Tilley - Tonkin + Taylor, New Zealand

EXTERNAL REVIEWERS

Chandra Bhakuni - Freelance consultant, India

John Fien - RMIT University, Australia

Salla Himberg - Red Cross EU Office, Belgium

Helene Jacot des Combes - National Disaster Management Office, Marshall Islands

Thorsten Klose-Zuber - German Federal Foreign Office, Germany

Gregory Pearn - NIRAS - IP Consult, Germany

David Sochor - Swiss Agency for Development and Cooperation (SDC), Switzerland

Magda Stepanyan - Risk Society, Belgium

Massimo Farrugia - European External Action Service (EEAS)

Chapter 6. Conclusions and final recommendations

ADVISOR

Mauro Dolce - Civil Protection Department, Italy

TEAM OF AUTHORS

Ainara Casajus Valles - European Commission, Joint Research Centre

Montserrat Marin Ferrer - European Commission, Joint Research Centre

Karmen Poljansek - European Commission, Joint Research Centre

Ian Clark - European Commission, Joint Research Centre (Former)

Todor Tagarev - Bulgarian Academy of Sciences, Bulgaria

Xavier Romão - University of Porto, Portugal
Alfred de Jager - European Commission, Joint Research Centre
Sara Peláez - University of Limerick, Ireland
Jaroslav Mysiak - Centro Euro-Mediterraneo sui Cambiamenti Climatici (CMCC), Italy /
Ca' Foscari University of Venice, Italy
Gerassimos A. Papadopoulos - International Society for the Prevention & Mitigation of Natural Hazards, Greece
John Agius - Critical Infrastructure Protection Directorate (CIPD), Malta

SCS 1. Earthquakes in Central Italy in 2016-2017

TEAM OF AUTHORS

LEAD AUTHORS

Daniela Di Bucci - Civil Protection Department, Italy
Mauro Dolce - Civil Protection Department, Italy

CONTRIBUTING AUTHORS

Dionysios Bournas - European Commission, Joint Research Centre
Didier Combescure - French Association of Earthquake Engineering, France
Daniela De Gregorio - University of Naples Federico II, Italy
Luca Galbusera - European Commission, Joint Research Centre
Mattia Leone - University of Naples Federico II, Italy
Filomena Papa - Civil Protection Department, Italy
Xavier Romão - University of Porto, Portugal
Massimo Sargolini - University of Camerino, Italy
Marianthi Theocharidou - European Commission, Joint Research Centre
Giulio Zuccaro - University of Naples Federico II, Italy

EXTERNAL REVIEWERS

Danai Kazantzidou - Firtinidou - Center for Security Studies (KEMEA), Greece
Chandra Bhakuni - Freelance consultant, India

INTERNAL REVIEWERS

Adamantia Athanasopoulou - European Commission, Joint Research Centre
Remy Bossu - European-Mediterranean Seismological Centre, France
Oriol Monserrat - Centre Tecnològic de Telecomunicacions de Catalunya, Spain
Esmeralda Paupério - University of Porto, Portugal

SCS 2. Fukushima Daiichi accident in 2011

TEAM OF AUTHORS

LEAD AUTHOR

Wolfgang Raskob - Karlsruhe Institute of Technology, Germany

CONTRIBUTING AUTHORS

Nicolas Dechy - Institut de Radioprotection et de Sûreté Nucléaire (IRSN), France
Amy Donovan - University of Cambridge, United Kingdom
Eduardo Gallego - Universidad Politecnica de Madrid, Spain
Kenji Nanba - Fukushima University, Japan
Xavier Romão - University of Porto, Portugal
Cristina P. Tanzi - National Institute for Public Health and the Environment (RIVM), Netherlands

Marcus Wiens - Karlsruhe Institute of Technology, Germany
 Miguel Angel Hernandez Ceballos - European Commission, Joint Research Centre

EXTERNAL REVIEWERS

Alexander Fekete - TH Köln, Germany
 Petre-Cornel Min - National Commission for Nuclear Activities Control (CNCAN), Romania
 Dan Serbanescu - Societatea Nuclearelectrica SA, Romania
 Athanasios Sfetsos - National Centre of Scientific Research “Demokritos”, Greece
 Dimiter Velev - University of National and World Economy, Bulgaria

INTERNAL REVIEWERS

Mikio Ishiwatari - University of Tokyo, Japan
 Ernesto Salzano - University of Bologna, Italy
 Zdenko Šimić - European Commission, Joint Research Centre

SCS 3. Eyjafjallajökull eruption in 2010

TEAM OF AUTHORS

LEAD AUTHORS

Gudrun Petursdottir - University of Iceland, Iceland
 Uta Reichardt - University of Iceland, Iceland

CONTRIBUTING AUTHORS

Deanne Bird - University of Iceland, Iceland
 Amy Donovan - University of Cambridge, United Kingdom
 Guðrún Gísladóttir - University of Iceland, Iceland
 Arna Hauksdóttir - University of Iceland, Iceland
 Gudrun Johannesdóttir - Department of Civil Protection and Emergency Management, Iceland
 Freysteinn Sigmundsson - University of Iceland, Iceland
 Edda Björk Thordardóttir - University of Iceland, Iceland
 Guðmundur F. Ulfarsson - University of Iceland, Iceland

EXTERNAL REVIEWERS

Monica Viorela Alexandru - Ministry of Research and Innovation, Romania
 Riccardo Biondi - Università degli Studi di Padova, Italy
 Athanasios Sfetsos - National Centre of Scientific Research “Demokritos”, Greece

INTERNAL REVIEWERS

Ernesto Salzano - University of Bologna, Italy

SCS 4. Forest fires in Portugal in 2017

TEAM OF AUTHORS

LEAD AUTHOR

Jesús San Miguel Ayanz - European Commission, Joint Research Centre

CONTRIBUTING AUTHORS

Duarte Oom - European Commission, Joint Research Centre
 Tomas Artès - European Commission, Joint Research Centre
 Domingos X. Viegas - Universidade de Coimbra, Portugal
 Paulo Fernandes - Universidade de Trás-os-Montes e Alto Douro, Portugal
 Nicolas Faivre - European Commission, Directorate-General for Research and Innovation

Sergio Freire - European Commission, Joint Research Centre
Peter Moore - Food and Agriculture Organization of the United Nations, Italy
Francisco Rego - University of Lisbon, Portugal
Marc Castellnou - Catalan Fire and Rescue Service, Spain/ Pau Costa Foundation, Spain

EXTERNAL REVIEWERS

Cristina Montiel Molina - Universidad Complutense, Spain
Jean Louis Rossi - Université de Corse Pascal Paoli, France /
The European Science and Technology Group (E-STAG)

INTERNAL REVIEWERS

Alfred de Jager - European Commission, Joint Research Centre
Sara Peláez - University of Limerick, Ireland
Esmeralda Paupério - University of Porto, Portugal
Xavier Romão - University of Porto, Portugal
Rodrigo Rudge Ramos Ribeiro - Getulio Vargas Foundation, Brazil

SCS 5. COVID-19 emergency

TEAM OF AUTHORS

LEAD AUTHOR

Montserrat Marin Ferrer - European Commission, Joint Research Centre

CONTRIBUTING AUTHORS

Béatrice d'Hombres - European Commission, Joint Research Centre
Elisabetta Vignati - European Commission, Joint Research Centre
Enrico Pisoni - European Commission, Joint Research Centre
Teresa Lettieri - European Commission, Joint Research Centre
Francesca Campolongo - European Commission, Joint Research Centre
Julia Le Blanc - European Commission, Joint Research Centre
Marco Ratto - European Commission, Joint Research Centre
Vanda Almeida - European Commission, Joint Research Centre
Salvador Barrios - European Commission, Joint Research Centre
Michael Christl - European Commission, Joint Research Centre
Silvia De Poli - European Commission, Joint Research Centre
Alberto Tumino - European Commission, Joint Research Centre
Wouter van der Wielen - European Commission, Joint Research Centre
Luca Onorante - European Commission, Joint Research Centre
Valentina Montalto - European Commission, Joint Research Centre
José M. Rueda Cantuche - European Commission, Joint Research Centre
Bernd Manfred Gawlik - European Commission, Joint Research Centre
Simona Tavazzi - European Commission, Joint Research Centre

SCS 6. Education, cultural inclusion and disasters

TEAM OF AUTHORS

LEAD AUTHOR

Christian Morgner - University of Leicester, United Kingdom

CONTRIBUTING AUTHORS

Danuta Kaźmierczak - Pedagogical University Krakow, Poland

Kalliopi Sapountzaki - Harokopion University of Athens, Greece

EXTERNAL REVIEWERS

Erich Striessnig - Wittgenstein Centre for Demography and Global Human Capital, Austria

Dimiter Velev - University of National and World Economy, Bulgaria

Margarita Zango Pascual - Universidad Pablo de Olavide de Sevilla, Spain

Franci Zlatar - Slovene Philanthropy, Slovenia

