## **## DATA USE & DISCLAIMERS ##**

Data Use | Terms and Conditions | Disclaimers | Copyright | Credits and acknowledgements

#### Data use

The objective of PREVIEW is to provide global information on hazards, vulnerabilities, exposure and disaster risks in support of the implementation of the Hyogo Framework of Action. PREVIEW contains the global risk information produced for the 2009 and 2011 Global Assessment Reports on Disaster Risk Reduction of the United Nations Strategy for Disaster Reduction (UNISDR). This information has been produced by UNEP-GRID, NGI and (list all partners and contributors) and is distributed with their consent.

All datasets on PREVIEW can be available for free for non commercial purpose (governments, international organisations, universities, non-governmental organisations, civil society according to the terms of the following disclaimer.

The development, maintenance and distribution of this information is costly. As such, and in order to ensure it's sustainability and further development, users are invited to make an appropriate voluntary contribution to the UNISDR Trust Fund. All such contributions will be reinvested in the research and development of new and enhanced risk information and in the maintenance of the data platform and will be credited in the Annual Report of UNISDR.

## Terms and Conditions of Use of United Nations Web Sites:

The use of this web site constitutes agreement with the following terms and conditions:

- (a) The United Nations grants permission to Users to visit the Site and to download and copy the information, documents and materials (collectively, "Materials") from the Site, subject to the terms and conditions outlined below, and also subject to more specific restrictions that may apply to specific Material within this Site. Users are prohibited from directly using the Materials (i.e., selling the Materials) for commercial purposes.
- (b) The United Nations administers this Site. All Materials on this Site appears subject to the present Terms and Conditions.
- (c) Unless expressly stated otherwise, the findings, interpretations and conclusions expressed in the Materials on this Site do not necessarily represent the views of the United Nations or its Member States.

#### Disclaimers:

Materials provided on this Site are provided Òas isÓ, without warranty of any kind, either express or implied, including, without limitation, warranties of merchantability, fitness for a particular purpose and non-infringement. The United Nations specifically does not make any warranties or representations as to the accuracy or completeness of any such Materials. The United Nations periodically adds, changes, improves or updates the Materials on this Site without notice. Under no circumstances shall the United Nations be liable for any loss, damage, liability or expense incurred or suffered that is claimed to have resulted from the use of this Site, including, without limitation, any fault, error, omission, interruption or delay with respect thereto. The use of this Site is at the UserÕs sole risk. Under no circumstances, including but not limited to negligence, shall the United Nations or its affiliates be liable for any direct, indirect, incidental, special or consequential damages, even if the United Nations has been advised of the possibility of such damages.

The User specifically acknowledges and agrees that the United Nations is not liable for any conduct of any User.

This site may contain advice, opinions and statements of various information providers. The United Nations does not represent or endorse the accuracy or reliability of any advice, opinion, statement or other information provided by any information provider, any User of this Site or any other person or entity. Reliance upon any such advice, opinion, statement, or other information shall also be at the UserÕs own risk. Neither the United Nations nor its affiliates, nor any of their respective agents, employees, information providers or content providers, shall be liable to any User or anyone else for any inaccuracy, error, omission, interruption, deletion, defect, alteration of or use of any content herein, or for its timeliness or completeness, nor shall they be liable for any failure of performance, computer virus or communication line failure, regardless of cause, or for any damages resulting therefrom.

As a condition of use of this Site, the User agrees to indemnify the United Nations and its affiliates from and against any and all actions, claims, losses, damages, liabilities and expenses (including reasonable attorneysÕ fees) arising out of the UserÕs use of this Site, including, without limitation, any claims alleging facts that if true would constitute a breach by the User of these Terms and Conditions. If the User is dissatisfied with any Material on this Site or with any of its Terms and Conditions of Use, the UserÕs sole and exclusive remedy is to discontinue using the Site.

This Site may contain links and references to third-party web sites. The linked sites are not under the control of the United Nations, and the United Nations is not responsible for the content of any linked site or any link contained in a linked site. The United Nations provides these links only as a convenience, and the inclusion of a link or reference does not imply the endorsement of the linked site by the United Nations.

If this Site contains bulletin boards, chat rooms, access to mailing lists or other message or communication facilities (collectively, ÒForumsÓ), the User agrees to use the Forums only to send and receive messages and materials that are proper and related to the particular Forum. By way of example and not as a limitation, the User agrees that when using a Forum, he or she shall not do any of the following:

- (a) Defame, abuse, harass, stalk, threaten or otherwise violate the legal rights (such as rights of privacy and publicity) of others;
- (b) Publish, post, distribute or disseminate any defamatory, infringing, obscene, indecent or unlawful material or information;
- (c) Upload or attach files that contain software or other material protected by intellectual property laws (or by rights of privacy and publicity) unless the User owns or controls the rights thereto or has received all consents therefore as may be required by law;
- (d) Upload or attach files that contain viruses, corrupted files or any other similar software or programs that may damage the operation of anotherÕs computer;

1 of 4 4/9/2021, 11:45 AM

- (e) Delete any author attributions, legal notices or proprietary designations or labels in any file that is uploaded;
- (f) Falsify the origin or source of software or other material contained in a file that is uploaded;
- (q) Advertise or offer to sell any goods or services, or conduct or forward surveys, contests or chain letters, or download any file posted by another user of a Forum that the User knows, or reasonably should know, cannot be legally distributed in such manner.

The User acknowledges that all Forums and discussion groups are public and not private communications. Further, the User acknowledges that chats, postings, conferences, e-mails and other communications by other Users are not endorsed by the United Nations, and that such communications shall not be considered to have been reviewed, screened or approved by the United Nations. The United Nations reserves the right to remove, for any reason and without notice, any content of the Forums received from Users, including, without limitation, e-mail and bulletin board postings.

The boundaries and names shown and the designations used on the maps on this site do not imply official endorsement or acceptance by the United Nations.

#### Preservation of immunities:

Nothing herein shall constitute or be considered to be a limitation upon or a waiver of the privileges and immunities of the United Nations, which are specifically reserved.

### General:

The United Nations reserves its exclusive right in its sole discretion to alter, limit or discontinue the Site or any Materials in any respect. The United Nations shall have no obligation to take the needs of any User into consideration in connection therewith.

The United Nations reserves the right to deny in its sole discretion any user access to this Site or any portion thereof without

No waiver by the United Nations of any provision of these Terms and Conditions shall be binding except as set forth in writing and signed by its duly authorized representative.

### Copyright © United Nations 2013:

All rights reserved.

None of the materials provided on this web site may be used, reproduced or transmitted, in whole or in part, in any form or by any means, electronic or mechanical, including photocopying, recording or the use of any information storage and retrieval system, except as provided for in the Terms and Conditions of Use of United Nations Web Sites, without permission in writing

News-related material can be used as long as the appropriate credit is given and the United Nations is advised.

To request such permission and for further enquiries, please contact: Secretary of the Publications Board United Nations New York, NY, 10017, USA

(Email; Telephone: (+1) 212-963-4664; Facsimile: (+1) 212-963-0077).

# Credits and acknowledgements:

All information on credit and acknowledgments are provided within the metadata files along with the data.

# The team and contributors to this project:

# **Project coordinator:**

Pascal Peduzzi (UNEP/GRID-Geneva)

# Design and development of the PREVIEW Global Risk Data Platform:

Gregory Giuliani (UNEP/GRID-Geneva)

The content of the application was developed by the following persons:

# **Tropical cyclones**

Hazard model (UNEP/GRID- Bruno Chatenoux (UNEP/GRID-Geneva)

Pascal Peduzzi (UNEP/GRID-Geneva) Geneva)

based on previous work from Christian Herold, Frédéric Mouton, Ola Nordbeck and Pascal

Peduzzi (UNEP/GRID-Geneva)

Andrea De Bono (UNEP/GRID-Geneva) Georeferencing EMDAT

Exposure (human Bruno Chatenoux (UNEP/GRID-Geneva) economical)

Cyclones storm surges hazard Andrea De Bono (UNEP/GRID-Geneva) model and exposure

Human vulnerability analysis Pascal Peduzzi (UNEP/GRID-Geneva, ISDR)

Economical vulnerability and Uwe Deichmann (The World Bank)

risk model

and risk model

Hazard methodology reviewed Jim DAVIDSON (Regional Director, Bureau of Meteorology, Queensland, Australia)

Woo-Jin LEE (Korean Meteorological Administration, Seoul, Republic of Korea)

Linda Anderson-Berry (Manager, Disaster Mitigation Policy and Emergency Management

Coordination, Weather and Ocean Services Policy Branch, Bureau of Meteorology, Melbourne,

WMO Koji Kuroiwa (Chief, Tropical Cyclone Programme) points Focal

Secretariat Taoyong Peng (Tropical Cyclone Programme, WMO)

2 of 4

**Floods** 

Christian Herold (UNEP/GRID-Geneva) Hazard Model

Dr Frédéric Mouton, (University of Grénoble, Institut Fourier)

Contributors: Code for flooded area model provided by J & K Verdin (USGS)

Robert Brackenridge (Dartmouth Flood Observatory, DFO) Flood events

Christian Herold (UNEP/GRID-Geneva)

 ${\it Georeference \ of \ losses \ and} \ {\it Christian \ Herold \ (UNEP/GRID-Geneva)}$ 

Human analysis and risk model

vulnerability Pascal Peduzzi (UNEP/GRID-Geneva, ISDR)

Economical and risk model

vulnerability Uwe Deichmann (The World Bank)

Floods expert group

Kristin Verdin (USGS) James Verdin, (USGS) Robert Brackenridge (DFO)

Wolfgang Grabs (Hydrology and Water Resources Programme, WMO)

Hazard

methodology Zhiyu LIU, Ph.D., P.E. (Deputy Director, Division of Hydrological Information and Forecasting, Bureau of Hydrology (National Flood Forecasting Center), Ministry of Water Resources of China.

reviewed by

WMO Avinash Tyagi, (Director, Climate and Water Department and Chief, Hydrology and Water Resources

Focal points

Programme, WMO) Secretariat

Wolfgang Grabs (Hydrology and Water Resources Programme, WMO)

**Droughts** 

Hazard Model

Brad Lyon, Gregory Yetman, Maria Muniz,

Liana Razafindrazay Research Associate at CIESIN - Columbia University

Vilentia Mara from CIESIN, Columbia University.

risk model

Human vulnerability analysis and G. Giuliani, A. Debono (UNEP/GRID-Geneva)

Exposure and trends

 $\stackrel{\cdot}{\it Economical}$  vulnerability and risk Uwe Deichmann (The World Bank)

P. Peduzzi (UNEP/GRID-Geneva, ISDR)

Hazard methodology reviewed by

Dr Simone Orlandini (Prof., Department of Agronomy and Land Management - University of Florence)

Dr Harlan D. Shannon (Meteorologist, U.S. Department of Agriculture World Agricultural Outlook Board)

Mark Svoboda (Climatologist, National Drought Mitigation Center, School of Natural

Resources, University of Nebraska-Lincoln)

Dr Orivaldo BRUNINI (Instituto Agronomico, SAO PAOLO, Brazil)

Focal points in WMO Secretariat

Dr Mannava Sivakumar (Chief, Agricultural Meteorology Programme, WMO)

Robert Stefanski (Agricultural Meteorology Programme, WMO)

Landslides

Hazard model (NGI)

Helge Smebye (International Centre for Geohazards / NGI) Bjørn Kalsnes (International Centre for Geohazards / NGI)

Exposure (human and economical)

Pascal Peduzzi (UNEP/GRID-Geneva, ISDR) Human vulnerability analysis and risk Pascal Peduzzi (UNEP/GRID-Geneva, ISDR)

Economical vulnerability and risk model Uwe Deichmann (The World Bank)

Hazard methodology reviewed by

Kyoji Sassa (University of Kyoto, Japan; President of ICL)

Nicola Casagli (University of Firenze, Italy; Director of ICL-Europe)

Lynn Highland (United States Geological Survey, USA)

Dwikorita Karnawati (Associate Professor, Gadjah Mada University, Indonesia)

Alexander Strom (Institute of the Geospheres Dynamics, Russia, Assistant to the ICL

President)

**Earthquakes** 

Hazard model on MMI (Columbia Arthur Lerner-Lam and

University) Liana Razafindrazay Research Associate at CIESIN - Columbia University

Hazard model

(UNEP/GRID-Geneva)

Intensity Bruno Chatenoux, based on United States Geological Survey Shake Maps

Dr Andrea De Bono (UNEP/GRID-Geneva) Exposure and georeference

Human vulnerability analysis and Hy Dao (UNEP/GRID-Geneva)

risk model

3 of 4 4/9/2021, 11:45 AM Economical vulnerability and risk Uwe Deichmann (The World Bank)

model

Case study on Sishuan Andrea Debono (UNEP/GRID-Geneva)

Avi Shapira (Israel Geophysical Institute, Israel) Hazard methodology reviewed by

Kunihiko Shimazaki (Professor, University of Tokyo, Japan) Giuliano Panza (Professor, University of Trieste, Italy ICTP)

Mihail Garevski (Director, Institute of Earthquake Engineering and Engineering Seismology,

Former Yugoslav Republic of Macedonia)

#### **Tsunamis**

Hazard model (International Centre for Geohazards / F. Løvholt, NGI)

N. Zamora, S. Glimsdal,

H. Smebye

And Gregory Yetman (CIESIN, Columbia University)

Hy Dao (UNEP/GRID-Geneva) Exposure

Hazard methodology reviewed by Behrens (PD. Dr., Alfred Wegener Institute for Polar and Marine Research,

Germany)

Stefano Tinti (Professor, University of Bologna, Italy) Kenji Satake (Professor, University of Tokyo, Japan)

### Socio-economical data

Hy Dao (UNEP/GRID-Geneva)

Andrea Debono (UNEP/GRID-Geneva) Uwe Deichmann (The World Bank)

# GDP raster distribution model and expanding from 1975 to 2007

Uwe Deichmann (The World Bank)

## Population extrapolation from 1975 to 2007

Landscan developed by Oak Ridge Laborytory, processed for 1975 to 2006 by Hy Dao (UNEP/GRID-Geneva)

# Cartography and graphic design

Stéphane Kluser (UNEP/GRID-Geneva)

# Organization of the hazard methodology reviewing process

Geo-tectonic hazard

Badaoui Rouhban (SC/BES/DRE UNESCO Head Quarters)

Takashi Imamura (SC/BES/DRE UNESCO Head Quarters)

Juliana Chaves Chaparro (SC/BES/DRE UNESCO Head Quarters)

# Hydro-meteorological hazards

Maryam Golnaraghi (chief Disaster Risk Reduction Programme, WMO)

Jean-Baptiste Migraine (Disaster Risk Reduction Programme, WMO)

# We are also grateful to all the data providers

See Data sources

# The project received financial contributions from (in alphabetical order)

Norway, Switzerland, UNDP/BCPR (GRIP), UNEP (DEPI and DEWA/GRID-Geneva), UNISDR.

4 of 4 4/9/2021, 11:45 AM