The WHO e-atlas of disaster risk for the European Region

Instructions for use

Last Update: June 2011
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1. Basic system requirements

*The WHO e-atlas of disaster risk for the European Region, Volume 1, version 2.0: Exposure to natural hazards* is a DVD, created in HTML, that runs automatically once inserted. The basic system requirements are:

- Intel® Pentium® processor
- Microsoft® Windows® (98/NT/2000/XP)
- 256 Mb of RAM
- DVD–ROM drive
- Adobe® Reader® 7.0 or higher (to open and/or print the maps and files). [Click here to install Adobe® Reader®](#)

**Tips**

- If the DVD does not auto run, go to “My computer”, right click on the DVD drive and choose “Open”, then double click on the file “who.exe”.
- The menus are active at all times to ease navigation from one section to another. These menus are available at the top and bottom of each page.
- The e-atlas window can be minimized on your computer screen by hitting the “Esc” key on your keyboard.
- To close the e-atlas, close the window of your internet browser.
2. Structure of the WHO e-atlas

The home page of the e-atlas provides links to the various sections through: (1) the main menu at the top of the page; and (2) the data-and-documents menu at the bottom of the page (Fig. 1).

Fig. 1. e-atlas home page

2.1. Main menu

The main menu comprises three submenus.

- Introduction
- Methodology
- View atlas by
2.1.1. Introduction

The “Introduction” menu contains:

- a foreword by the Country Emergency Preparedness Programme for Europe
- the instructions for use of the e-atlas
- acknowledgements.

2.1.2. Methodology

By selecting the “Methodology” submenu, users can access documents describing the method and implementation process used to generate the maps included in the e-atlas.

2.1.3. View atlas by

Clicking on the “View atlas by” option on the main menu allows users to access the hazard-specific country maps, tables and graphs contained in the DVD. This can be done by selecting “Country”, “Region” or “Hazard” on this submenu (Fig. 2).

Fig. 2. Options of the “View atlas by” submenu
2.1.3.1. View atlas by "Country"

Clicking on “Country” in the “View atlas by” submenu produces a map of the WHO European Region allowing users to access the country of their choice either by clicking on the actual country or the name of country on the map itself (Fig. 3).

Fig. 3. Map for selection of countries
On selecting a country, the window shown in Fig. 4 will appear on the screen allowing users to access:

- a hazard-specific country-level map (by clicking on the corresponding hazard icon (Fig. 4, point 1));
- a graph depicting the percentage of population exposed to hazards, by level of intensity (by clicking on “Graph” (Fig. 4, point 2));
- a table illustrating the total number and percentage of the population exposed to hazards, by level of intensity (by clicking on “Statistics” (Fig. 4, point 3)).

**Fig. 4.** Window for selection of hazard-specific maps, graphs and statistics
Point 1. Access to hazard-specific country-level maps.

Clicking on the desired hazard icon (Fig. 4, point 1), opens a window showing a map of the country in question (Fig. 5). Information about the hazard selected appears in the legend to the right of the map. At the top right-hand corner of the map, the “navigation” button allows users to zoom and move around the map. Users also have the option of opening and printing the map in Adobe® Reader®.

Fig. 5. Country map selected by hazard
**Point 2. Graph presenting the percentage of population exposed to hazards, by level of intensity**

Clicking on “Graph” (Fig. 4, point 2) produces a graph (Fig. 6) illustrating the percentage of the population exposed to hazards, by level of intensity. The graph can be printed in PDF format by clicking on “Graph in PDF” in the bottom right-hand corner.

**Fig. 6. Percentage of the population exposed to hazards (in a country), by level of intensity**
**Point 3. Table showing the total number and percentage of the population exposed to hazards, by level of intensity**

Clicking on “Statistics” (Fig. 4, point 3) produces a table summarizing the total number and percentage of the population exposed to hazards, by level of intensity (Fig. 7). It can be printed in PDF format by means of the “Table in PDF” button in the bottom right-hand corner.

**Fig. 7. Total number and percentage of the population exposed to hazards, by level of intensity**

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Very high No. exposed (%)</th>
<th>High No. exposed (%)</th>
<th>Medium No. exposed (%)</th>
<th>Low No. exposed (%)</th>
<th>Very low No. exposed (%)</th>
<th>No data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earthquake</td>
<td>6 (3.08%)</td>
<td>640 (32.32%)</td>
<td>1,025 (53.25%)</td>
<td>91 (4.58%)</td>
<td>9 (0.48%)</td>
<td>1 (0.05%)</td>
</tr>
<tr>
<td>Flood</td>
<td>10 (4.45%)</td>
<td>542 (68.46%)</td>
<td>71 (8.25%)</td>
<td>13 (1.56%)</td>
<td>1 (0.12%)</td>
<td>1 (0.12%)</td>
</tr>
<tr>
<td>Landslide</td>
<td>5 (4.45%)</td>
<td>555 (45.14%)</td>
<td>48 (4.08%)</td>
<td>25 (2.10%)</td>
<td>2 (0.17%)</td>
<td>2 (0.17%)</td>
</tr>
<tr>
<td>Heat wave (2 Years)</td>
<td>0 (0.00%)</td>
<td>0 (0.00%)</td>
<td>0 (0.00%)</td>
<td>0 (0.00%)</td>
<td>0 (0.00%)</td>
<td>0 (0.00%)</td>
</tr>
<tr>
<td>Heat wave (5 Years)</td>
<td>0 (0.00%)</td>
<td>0 (0.00%)</td>
<td>0 (0.00%)</td>
<td>0 (0.00%)</td>
<td>0 (0.00%)</td>
<td>0 (0.00%)</td>
</tr>
<tr>
<td>Heat wave (10 Years)</td>
<td>0 (0.00%)</td>
<td>0 (0.00%)</td>
<td>0 (0.00%)</td>
<td>0 (0.00%)</td>
<td>0 (0.00%)</td>
<td>0 (0.00%)</td>
</tr>
<tr>
<td>Wind speed (2 Years)</td>
<td>0 (0.00%)</td>
<td>0 (0.00%)</td>
<td>0 (0.00%)</td>
<td>0 (0.00%)</td>
<td>0 (0.00%)</td>
<td>0 (0.00%)</td>
</tr>
<tr>
<td>Wind speed (5 Years)</td>
<td>0 (0.00%)</td>
<td>0 (0.00%)</td>
<td>0 (0.00%)</td>
<td>0 (0.00%)</td>
<td>0 (0.00%)</td>
<td>0 (0.00%)</td>
</tr>
<tr>
<td>Wind speed (10 Years)</td>
<td>0 (0.00%)</td>
<td>0 (0.00%)</td>
<td>0 (0.00%)</td>
<td>0 (0.00%)</td>
<td>0 (0.00%)</td>
<td>0 (0.00%)</td>
</tr>
</tbody>
</table>
2.1.3.2. **View atlas by “Region”**

The structure of this subsection is the same as that of the “View atlas by country” subsection. Here users can search for and view maps showing hazard distribution for those countries of the European Region covered in the e-atlas. After selecting a hazard type, a map will appear showing the distribution of the hazard according to the legend (Fig. 8). Users have the option of opening and printing the map in Adobe® Reader® format.

**Fig. 8.** Example of map of selected hazard for the European Region

**Tip**

After zooming in on a section of the map, if you wish to move the map around, move the mouse over the map. The cursor will change to ( ). Left click the mouse and move the cursor in the direction of the section of the map that you wish to view.
2.1.3.3. View atlas by “Hazard“

This subsection allows users to search for and view maps by hazard type. Fig. 9 illustrates the following process.

(i) Click on “View atlas by” then “Hazard”, as shown in the first window. A list of hazards will drop down. Clicking on the desired hazard will open the second window displaying a list of countries.

(ii) Click on the desired country (second window). This will produce a map of the desired country showing hazard distribution and intensity levels (third window).

(iii) The navigation button shown in the top right-hand corner of the third window permits users to zoom and move around on the map. Clicking on “Map in PDF” above the top right-hand corner of the map will allow users to open and print in Adobe® Reader® format.

Fig. 9. Process for selection by hazard

Tip
Clicking on “Map in PDF” will open the file in Adobe® Reader®, enabling the user to view the map in a higher resolution and to zoom as desired.
2.2. Documents and data section

The documents and data section comprises the following subsections: Glossary; Resolutions and Reports; Publications; Links; Data; Associated tools; Photos; Contact us; and Copyright.

2.2.1. Glossary

This section contains the list of basic terms related to disaster risk reduction published by the International Strategy for Disaster Reduction (ISDR) in 2009. PDF versions in English and Russian are also provided (Fig. 10).

Fig. 10. Glossary
2.2.2. Resolutions and reports

This section includes several resolutions and reports related to emergency preparedness, health action and other health aspects of crises. Each of the documents can be accessed directly by clicking on the relevant language (Fig. 11).

Fig. 11. Resolutions and reports
2.2.3. Publications

This section includes publications related to the e-atlas, each of which can be accessed directly by clicking on the relevant language (Fig. 12).

Fig. 12. Publications


2.2.4. Links

This section provides access to various websites and journals of potential interest to users of the e-atlas (Fig. 13).

Fig. 13. Links
2.2.5. Data

This subsection is divided into the following three parts (Fig. 14).

(i) Source data. This part provides access to the source data used in the e-atlas for which there are no redistribution rights. Information concerning the other source data used and the original data-providers can be found in the metadata files.

(ii) Hazard distribution grids and maps. Here the user can access the unclassified (GIS format) and classified (GIS and PDF format) versions of the hazard distribution maps resulting from the application of the different models reported in the methodology and implementation process documents (see 2.1.2. Methodology).

(iii) Population exposure distribution table. This part permits access to a table summarizing information about the distribution of people exposed to hazards by intensity level of each hazard.

Fig. 14. Data
2.2.6. Associated tools

This section includes the scripts and extensions (Fig. 15) necessary to implement the methods described in the methodology and implementation process documents (see 2.1.2. Methodology).

Fig. 15. Associated tools

The following scripts and extensions (publicly available from the ESRI ArcScripts website) are necessary for the implementation of the methods described in the methodology and implementation process documents:

- Connected table tools
- Grid Analyst
- Grid and Theme Projector v 2
- Grid Transformation Tool
- Grid Utilities v1.1
- Hydrological Modeling v1.1
- Image Warp
- MapInfo conversion
- KTools
- Convert overlapping polygons to grid

In addition, this new edition of the WHO e-atlas led to the generation of a module allowing to calculate the different climatic variables being used to spatially distribute several of these hazards. The application in question, EstiCropMod 1.0, can be downloaded from here.
2.2.7. Photos

This section contains photos illustrating scenes from emergency events and response activities.

Clicking on the arrows next to the thumbnails allows users to move from one image to another.

Clicking on “start/stop” initiates the automatic slide show.

Clicking on a thumbnail moves the slideshow to the photo in question.

**Fig. 16. Photos**
2.2.8. Contact us

Any questions regarding the Country Emergency Preparedness Programme of the WHO Regional Office for Europe or the e-atlas can be directed to the contact address found in this section (Fig. 17).

Fig. 17. Contact us
2.2.9. Copyright

This section comprises the copyright, the WHO library cataloguing in publication data and the disclaimer (Fig. 18).

Fig. 18. Copyright

Tips
- It can take a few seconds or longer to open a PDF file in an Adobe® Reader® window.
- A PDF file does not close automatically. Therefore, to avoid overloading the system, it is important to close the file you have been viewing before moving to the next.