

All Natural Hazard Risks
 This map shows area of risk from earthquake activity, volcanic eruptions and tropical storms according to established risk scales.

Earthquake intensity risk is shown using the 1956 version of the Modified Mercalli Scale (MM), describing the effects of an earthquake on the surface of the earth. The zones indicate where there is a probability of 20% that degrees of intensity shown on the map will be exceeded in 50 years. Pacific islands and countries too small to be easily visible are represented by boxes giving an approximate level of equivalent risk based on data from Munich Reinsurance Company's NATHAN system.

Tropical storm risk is taken from the Munich Reinsurance Company's World Map of Natural Hazards and shows tropical storm intensity based on the five wind speeds of the Saffir-Simpson Hurricane Scale. The zones indicate where there is a 10% probability of a storm of this intensity striking in the next 10 years.

Volcanic risk is indicated by the locations of Holocene volcanoes, defined as having shown activity within the past 11,500 years approximately, up to 2002.

Legend

- OCHA office or presence
- Country capital
- Major town or city
- International boundary
- Province boundary
- Holocene volcano

Tsunami Hazards

- Storm surge
- Tsunami
- Tsunami and Storm surge

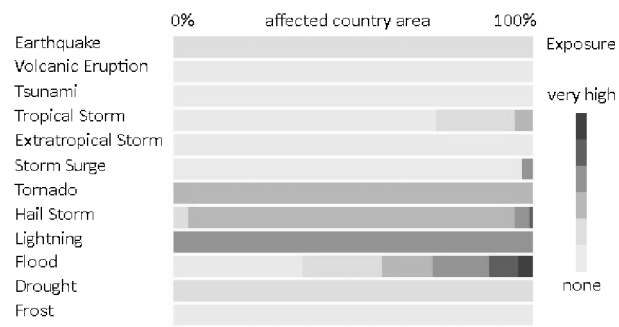
Earthquake Intensity Modified Mercalli Scale

- Degree I-V
- Degree VI
- Degree VII
- Degree VIII
- Degree IX-XII

Tropical Storm Intensity Saffir-Simpson Scale

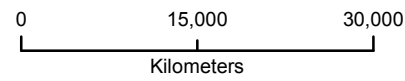
- One: 118-153 kmh
- Two: 154-177 kmh
- Three: 178-209 kmh
- Four: 210-249 kmh
- Five: 250+ kmh

The bar chart shows the degree of exposure to natural hazards and the percentage of area affected (per country). Tsunami and storm surges are a threat to coastal regions, particularly gulfs, bays, and estuaries. The flood hazard results from river floods and torrential rain. The hazard of dryness and drought is caused by major deviations from the normal amounts of precipitation. The frost hazard depends on the elevation and the latitude.



Map data source(s):
 UN Cartographic Section, Global Discovery, Indonesia National Statistical Office, Smithsonian Institute, Pacific Disaster Center, UNISYS, Munich Reinsurance Group

Disclaimers:
 The designations employed and the presentation of material on this map do not imply the expression of any opinion whatsoever on the part of the Secretariat of the United Nations concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.



Map Doc Name:
 - OCHA_ROAP_Hazards_v4_110606

GLIDE Number:
 - n/a

Creation Date:
 - 22 March 2011

Projection/Datum:
 - Behrmann

Web Resources:
 - <http://ochaonline.un.org/roap>

Nominal scale at A4
 - 62,000,000

