



Relevant statistical classifications









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International classifications and its importance



What is a statistical classification?

It is a set of discrete, exhaustive and mutually exclusive categories which can be assigned to one or more variables used in the collection and presentation of data, and which describe the characteristics of a particular population (universe).

Why do we need international statistical classifications?

It is a fundamental need for any statistical system to have standard concepts, definitions and categories.

The aim is to provide a basis for:

- 1. statistics that are reasonably comparable between countries and within counties;
- 2. Developing and adapting national classifications for the same variable/characteristics

Classifications and environment statistics



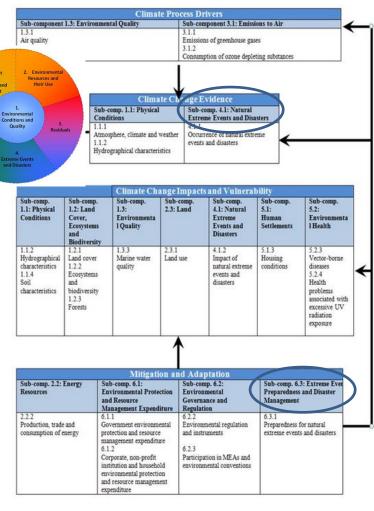
Statistical Classifications



Some of the most important and widely used classifications, categories and other groupings relevant to the field of environment statistics

- Land cover and land use
- 2. Environmental activities
- 3. Marine water quality
- 4. Surface freshwater quality
- 5. Ambient air quality
- 6. Protected areas

Chapter 5



Example of typology of hazardous event and disasters



Database on the occurrence and impact of disasters: EM-DAT of the Catholic University of Leuven (Belgium)

- At least one of the following criteria must be fulfilled for an event to be entered into the database (record largescale disasters):
 - Ten (10) or more people reported dead
 - One hundred (100) or more people declared as affected
 - Declaration of state of emergency
 - Call for international assistance

	NACIONES UNIDAS		
Disaster Group	Disaster Subgroup	Definition	Disaster Main Type
	Geophysical	A hazard originating from solid earth. This term is used interchangeably with the term geological hazard.	Earthquake
			Mass Movement (dry)
			Volcanic activity
	<u>Meteorological</u>	A hazard caused by short-lived, micro- to meso-scale extreme weather and atmospheric conditions that last from minutes to days.	Extreme Temperature
			Fog
			Storm
	<u>Hydrological</u>	A hazard caused by the occurrence, movement, and distribution of surface and subsurface freshwater and saltwater.	Flood
			Landslide
<u>Naturally</u>			Wave action
<u>originated</u>	Climatological	A hazard caused by long-lived, meso- to macro-scale atmospheric processes ranging from intra-seasonal to multi-decadal climate variability.	Drought
			Glacial Lake Outburst
			Wildfire
	<u>Biological</u>	A hazard caused by the exposure to living organisms and their toxic substances (e.g. venom, mold) or vector-borne diseases that they may carry. Examples are venomous wildlife and insects, poisonous plants, and mosquitoes carrying disease-causing agents such as parasites, bacteria, or viruses (e.g. malaria).	Epidemic
			Insect infestation
			Animal Accident

interplanetary conditions that effect the Earth's magnetosphere, ionosphere, and

Impact

Space weather

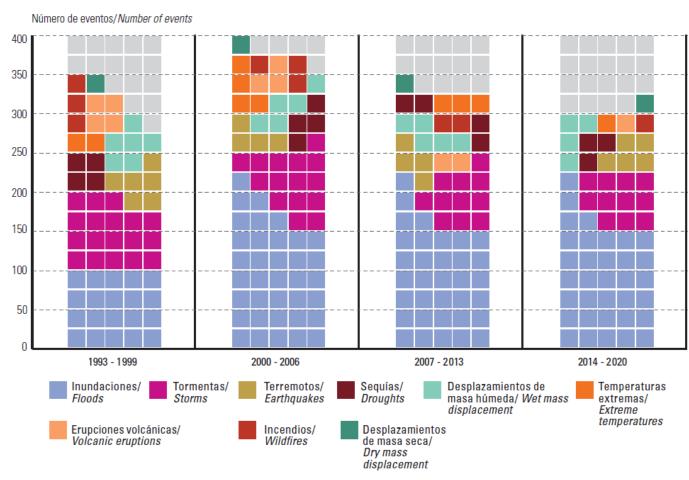
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	Extraterrestrial	A hazard caused by asteroids, meteoroids, and comets as they pass near-earth, enter the Earth's atmosphere, and/or strike the Earth, and by changes in interplanetary conditions that effect the Earth's magnetosphere, ionosphere, and

thermosphere.

Administrative records, remote sensing and monitoring system to measure the occurrence of disaster



ALC: Number of disasters 1990-2020, by disaster type



Cada cuadrado representa 5 eventos. En el caso de los desplazamientos de masa seca, cada cuadrado representa menos de 2 eventos / Each square represents 5 events. For the dry mass displacement, each square represents less than 2 events.

LAJ Centre for Research on the Epidemiology of Disasters (CRED), International Disaster Database (EM-DAT) [online] http://www.emdat.be.

[[]A] Centro de Investigaciones sobre la Epidemiología de los Desastres (CRED), Base de Datos Internacional sobre Desastres (EM-DAT) [en línea] http://www.emdat.be/.



Environment, Climate Change and Disasters Area Statistics Division, ECLAC https://www.cepal.org/en/topics/environmental-statistics

