DA12 project national online workshop:

Generating climate change and disasters indicators for policy decisionmaking in Suriname

13 - 15 July 2021

Relevant statistical classifications and typologies

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1 The importance of international classifications

2 Classifications and environment statistics

3 Example of typology of hazardous event and disasters

International classifications and its importance



1. 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).

2. 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

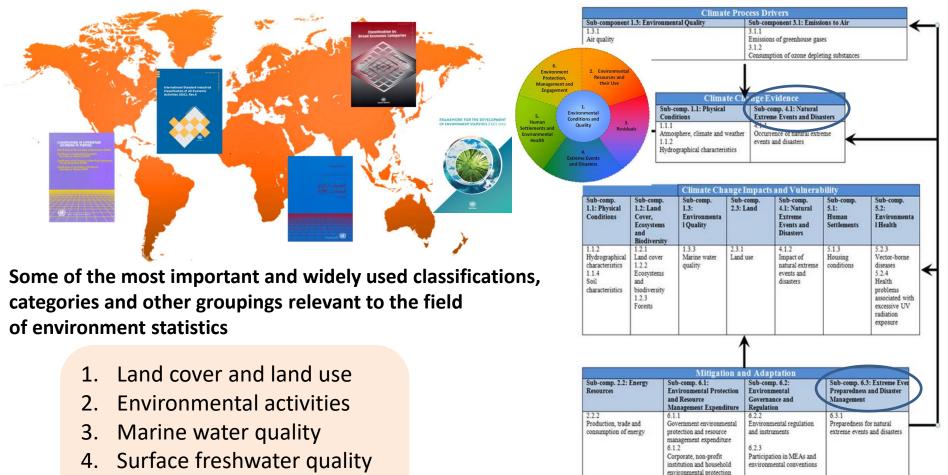
Classifications and environment statistics

Statistical Classifications

Chapter 5

and resource management

expenditure



- 5. Ambient air quality
- 6. Protected areas

ECLAC



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

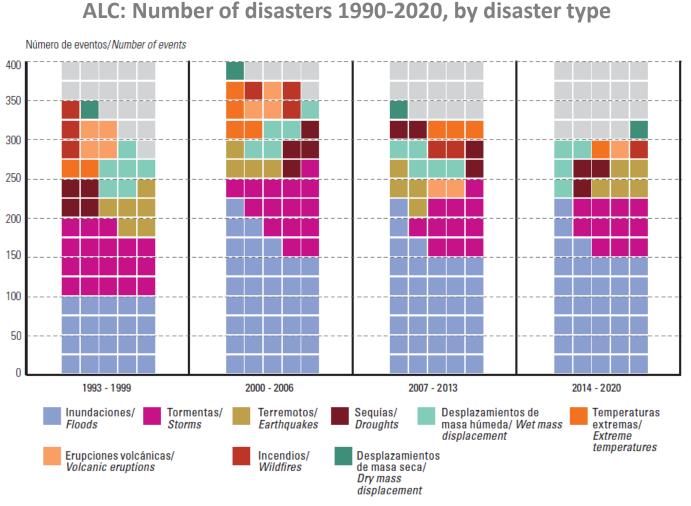


Example of typology of disasters

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

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



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.

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

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