

# Sendai Framework for Disaster Risk Reduction

Suggested List of Hazards for the Purpose of Measuring Global Targets of the Sendai Framework

"(d) Systematically evaluate, record, share and publicly account for disaster losses and understand the economic, social, health, education, environmental and cultural heritage impacts, as appropriate, in the context **of eventspecific hazard-exposure** and vulnerability information;

(e)Make non-sensitive hazard exposure, vulnerability, risk, disaster and loss-disaggregated information freely available and accessible, as appropriate;"



15. This Framework will apply to the risk of small-scale and large-scale, frequent and infrequent, sudden and slow-onset disasters caused by **natural or manmade hazards, as well as related environmental, technological and biological hazards** and risks.



Disaster Loss databases owners have collected data for many years.

Individual Countries, EMDAT, DesInventar, MunichRe, SwissRe, WMO, GLIDE and others have developed lists of hazards



Some countries have legislation that dictates a list of hazards that is to be used by authorities.

Examples: Indonesia, Sri Lanka.



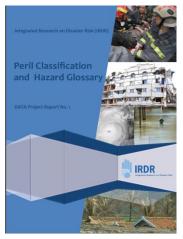
#### **IRDR Hazard Glossary and Classification**

(Natural and Biological)

Family	Main Hazard	Peri	Is
Geophysical	Earthquake Mass Movement	Ash Fall Fire following EQ	Forest Fire Land fire: Brush, Bush,
Hydrological	Volcanic Activity	Ground Movement Landslide following EQ	Pasture Subsidence
Meteorological	Flood Landslide	Lahar Lava Flow Liquefaction Pyroclastic Flow Tsunami Avalanche: Snow, Debris Coastal Flood	Bacterial Disease Fungal Disease Parasitic Disease Prion Disease Viral Disease
Climatological	Wave Action		
Biological	Convective Storm Extratropical Storm		
Extraterrestrial	Extreme Temperature Fog Tropical Cyclone <i>A</i> Drought Glacial Lake Outburst Wildfire	Coastal Erosion Debris/Mud Flow/Rockfall Expansive Soil Flash Flood Ice Jam Flood Riverine Flood Rogue Wave Seiche Sinkhole	Airburst Collision Energetic Particles Geomagnetic Storm Radio Disturbance Shockwave The association of perils
	Animal Incident Disease Insect Infestation Impact Space Weather	Cold Wavewith main hazarDerechoa suggestion. SoFrost/Freezemay change theHailhazard associat	with main hazard is solely a suggestion. Some perils may change their main hazard association based on the actual event and

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The association of families and sub-families is solely a suggestion, and intended only for clarity purposes, matching Sendai scope.

Family	Sub-Family
Natural hazards	Geophysical
	Hydrological
	Meteorological
	Climatological
	Extra-terrestrial
Environmental Hazards	Environment degradation
Biological hazards	Biological hazards
	(on Human, Animal, Plants)
Man-made hazards	Technological hazards
(Anthropogenic hazards)	Chamical and radial agical bacarda
	Chemical and radiological hazards
	Major Transportation Accidents



	Family	Sub-Family	Hazard (and Sub-Hazards)
Natural hazards		Geophysical	Earthquake, Tsunami
			Mass movement by geological events (may overlap with landslide types)
			Volcanic activity, eruption, lava flow, ash fall, pyroclastic flow, lahar
		Hydrological	Flood, riverine flood, coastal flood, ponding flood, urban flood, flash flood,
			Landslide, avalanche, rock fall, mud flow, debris flow, subsidence
			Wave Action, coastal erosion, shoreline change.
		Meteorological	Convective Storm, rain, wind, hail, snow, ice, blizzard, lightning, sand, dust,
			derecho, tornado
			Extra-tropical storm
			Extreme temperature, cold wave, heat wave, frost, freeze
			Fog
			Tropical cyclone, cyclonic wind, cyclonic rain, cyclone surge
		Climatological	Drought
			Glacial lake outburst (GLOF)
d			Wildfire
		Extra-terrestrial	Impact
rds			Space weather
/	Environmental Hazards	Environment	Erosion
		degradation	Deforestation
			Salinization
			Desertification
			Asian Dust cloud
			Wetland loss/degradation
			Glacier retreat/melting
	Biological hazards	Biological hazards *	Epidemics
e			Pandemics
cify			Epizootics
a,			Pest
outh			Insect infestation
			Animal Incidents
			Pollution

\* The association of hazards with families and sub-families is solely a suggestion. Some hazards may change their family association based on the actual event and loss trigger.

\* Countries could customize specific sub-hazards to specify the type of disease, i.e. Zika, Ebola, Malaria, foot-and-mouth diseases, influenza.

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## Suggested List of Hazards for the Purpose of Measuring Global Targets of the Sendai Framework

Family	Sub-Family	Hazard (and Sub-Hazards)
Man-made hazards	Technological hazards	Industrial disaster
		Structural collapse
		Power outage
		Fire
		Industrial Explosion
		Mine disaster
	Chemical and radiological hazards	Chemical Spill
		Oil Spill
		Radiation contamination, Nuclear incident
	Transportation Accidents (Major?)	Aviation Accident
		Rail Accident
		Road Accident
		Navigation Accident
		Space Accident

Available from the Secretariat: Proposal for Definition of hazards for the Purpose of Measuring Global Targets of the Sendai Framework

