

EM-DAT International Disaster Database
Scientific & Technical Advisory Group (STAG) Meeting



International
Science Council

UNDRR-ISC Hazard Information Profiles and their use in documenting hazards

Virginia Murray

on behalf of the Technical Working Group for UNDRR / ISC for
Hazard Definition and Classification Review technical report and
the Hazard Information Profiles and
our many authors and reviewers

Integrated Research on Disaster Risk (IRDR)

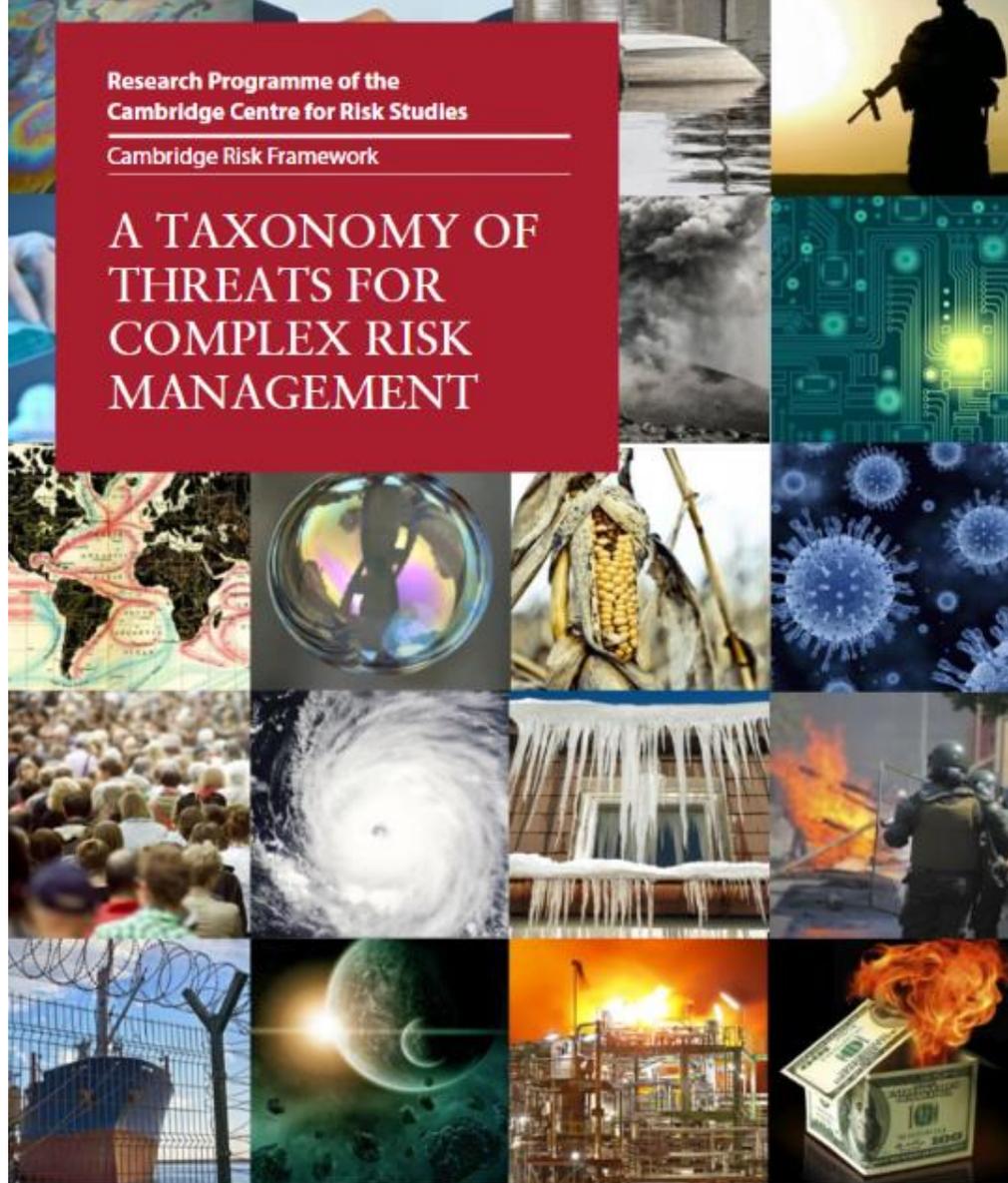
Peril Classification and Hazard Glossary

IRDR Project Report No. 1



Research Programme of the
Cambridge Centre for Risk Studies
Cambridge Risk Framework

A TAXONOMY OF THREATS FOR COMPLEX RISK MANAGEMENT



Centre for
Risk Studies





SENDAI FRAMEWORK
FOR DISASTER RISK REDUCTION

MEASURING IMPLEMENTATION OF THE SENDAI FRAMEWORK

ANNOUNCEMENT

The Sendai Framework Monitor system is now live!

After the adoption of Sendai Framework in 2015, 38 indicators were defined to measure progress in achieving its 7 Global targets. This system is the official tool to report these indicators to both the Sendai Framework and SDG's reporting processes.

Sendai Framework for Disaster Risk Reduction 2015-2030

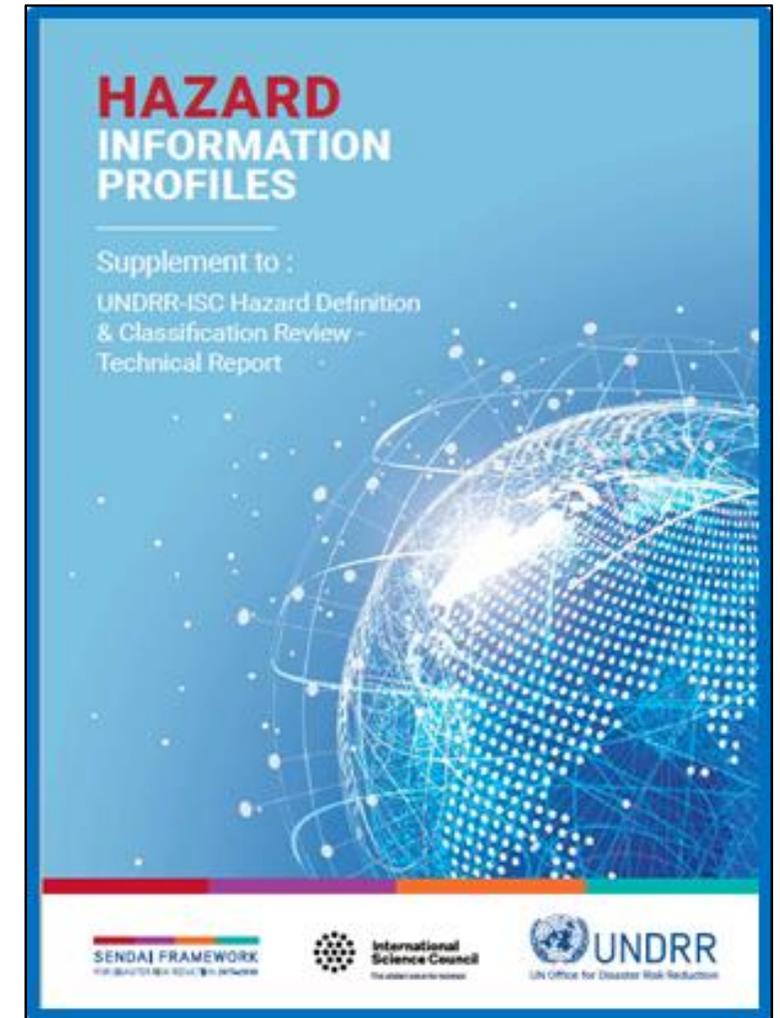
To strengthen technical and scientific capacity to capitalize on and consolidate existing knowledge and to develop and apply methodologies and models **to assess disaster risks, vulnerabilities and exposure to all hazards**; *(paragraph 24 j)*

Sendai Framework
for Disaster Risk Reduction
2015 - 2030

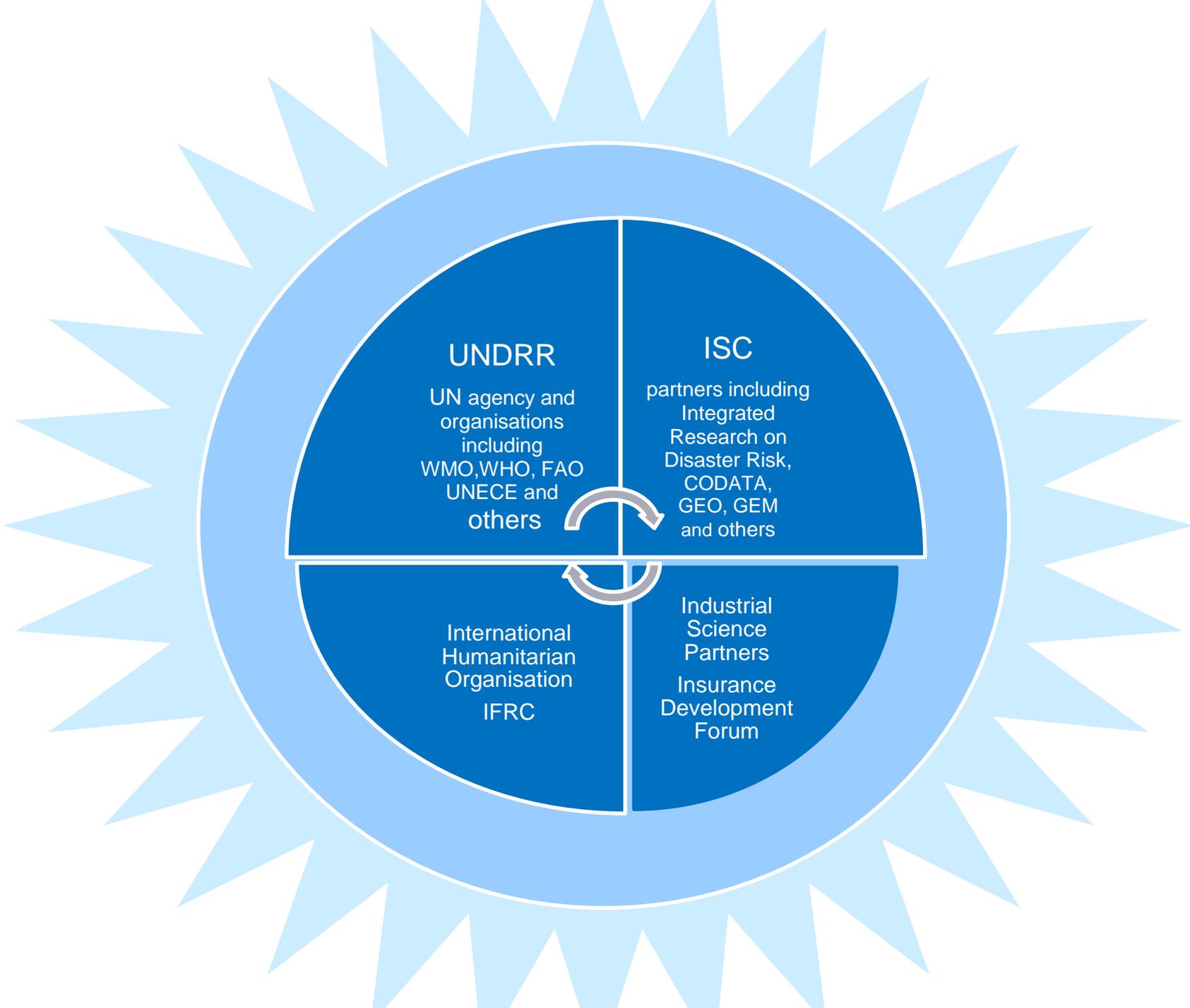
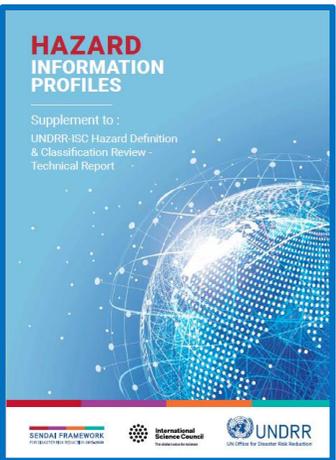
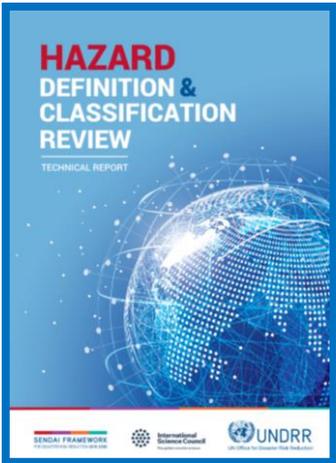


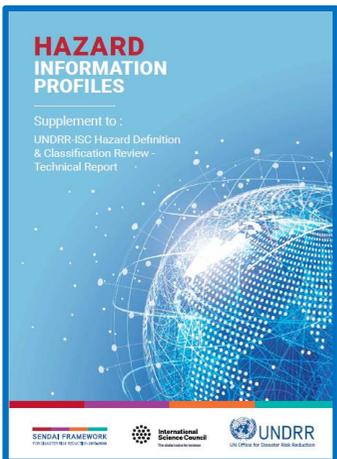
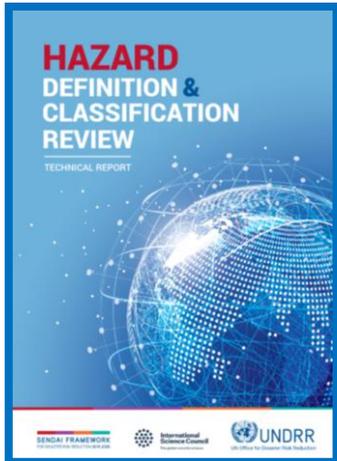


UNDRR / ISC Hazard
Definition and Classification
Review
Technical Report
July 2020



UNDRR / ISC Hazard Information
Profiles Supplement to UNDRR / ISC
Hazard Definition and Classification
Review
October 2021





The Hazard Review and Classification project: the process

Expanded scope of hazards of the Sendai Framework

UNGA definition of hazard as a process, phenomenon, or human activity that may cause harm or damage

The data sources:

- Scientific hazard glossaries
- IRDR Peril Classification
- UN glossaries
- Sendai Monitor hazard list
- Survey of scientists on hazards relevant for Sendai
- Consultations of expert communities within the UN and scientific community

Inclusion criteria:

1. The hazard has the potential to impact on a community
2. Proactive and reactive measures are available
3. The hazard has measurable spatial and temporal components

Hazard list:

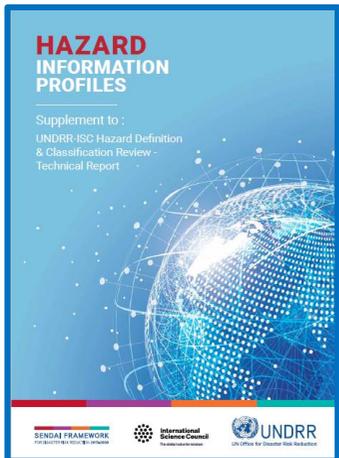
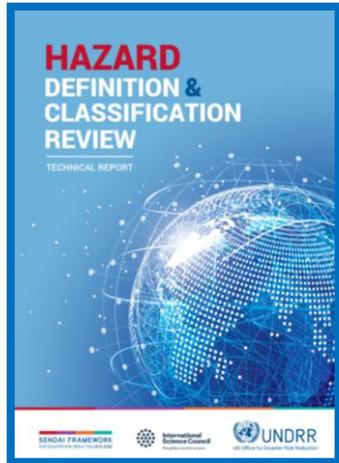
302 hazards across these hazard types: hydromet, extraterrestrial, geological, environmental, biological, chemical, technological and societal.

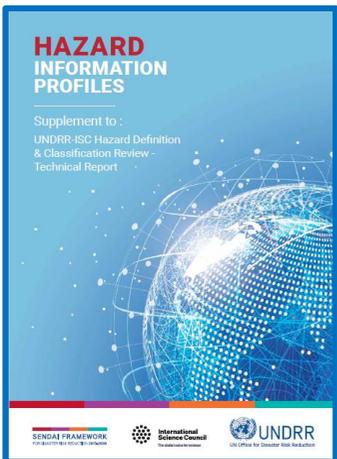
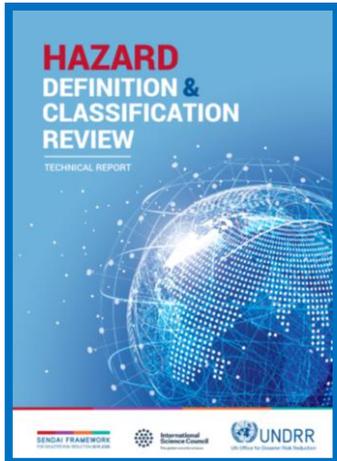
Recommendations:

1. Regular review and update
2. Facilitate the development of a multi-hazard information system
3. Standardise definitions across users and sectors
4. Engage policy-makers and scientists in evidence-based national risk assessment processes, disaster risk reduction and risk-informed sustainable development.
5. Conduct further work to operationalise parameters for exposure, vulnerability and capacity, building on the UNGA definitions
6. Address cascading and complex hazards and risks

Dialogue towards a more holistic and consistent approach to hazards identification and definition

UNDRR / ISC Hazard Information Profiles





Number

HAZARD

Primary definition

Brief Definition of hazard: no more than 3 lines/2 sentences.

Sourced from the highest possible authority and be applicable to all parties and preferably a simple UN definition but also recognised as the highest level that UN member states can use and apply.

REFERENCE/ hyperlink/Web site

Scientific definition

Expanded scientific definition that is preferably measurable, modellable and statistically relevant

REFERENCE/ hyperlink/Web site

Metrics, numerical limits or defined guidelines

Any globally agreed metrics, numerical limits or guidelines defined

Should be globally agreed as a recognised standard, if it is only at a regional level than state this as a reference.

REFERENCE/ hyperlink/Web site

Key relevant UN Conventions and regional conventions / multilateral treaty

REFERENCE/ hyperlink/Web site

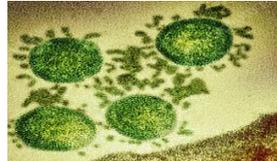
Any essential annotations

Such as drivers, outcomes and risk management

REFERENCE/ hyperlink/Web site

Ownership of Definition(s)

UN or Scientific Agency or Organisation who holds the updating responsibility for the Primary Definition



MH0035 / METEOROLOGICAL AND HYDROLOGICAL / Precipitation-Related

Drought

Definition

A drought is a period of abnormally dry weather characterised by a prolonged deficiency of precipitation below a certain threshold over a large area and a period longer than a month (WMO, 2020).

Reference

WMO, 2020. Guidelines on the Definition and Monitoring of Extreme Weather and Climate Events. World Meteorological Organization (WMO). Final version forthcoming. www.wmo.int/pages/prog/wcp/ccl/documents/GUIDELINESONTHEDEFINTIONANDMONITORINGOFEXTREMEWEATHERANDCLIMATEEVENTS_09032018.pdf Accessed 18 November 2019.

Annotations

Synonyms

Not identified.

Additional scientific description

Drought is described as conditions that are significantly drier than normal or otherwise limiting moisture availability to a potentially damaging extent (WMO and GWP, 2016) or as conditions where there had been a prolonged absence or marked deficiency of precipitation (WMO/UNESCO, 2012).

Whereas drought may be defined simply as the absence of water, it is a complex phenomenon which is monitored over a number of time scales and often defined according to need. It is a slow-onset phenomenon that gradually intensifies and can impact many sectors of the economy and the environment (Drought Observatory, no date).

Droughts can be characterised in terms of their severity, location, duration and timing. Droughts can arise from a range of hydrometeorological processes that suppress precipitation and/or limit surface water or groundwater availability. There are various drought indicators and indices that provide options for identifying the severity, location, duration onset and cessation of such conditions. It is important to note that the impacts of drought can be as varied as the causes of drought. Droughts can adversely affect agriculture and food security, hydropower generation and industry, human and animal health, livelihood security, and personal security and access to education. Such impacts depend on the socio-economic contexts in which droughts occur, in terms of who or what is exposed to the droughts and the specific vulnerabilities of the exposed entities (WMO and GWP, 2016).

The drought community has defined several different types of drought that have can general or specific sector impacts (NOAA, no date b):

- *Meteorological drought*: Occurs when dry weather patterns dominate an area. It is defined usually on the basis of the degree of dryness and the duration of the dry period.
- *Hydrological drought*: Occurs when low water supply becomes evident and is associated with the effects of periods of precipitation shortfalls on surface or subsurface water supply.
- *Agricultural drought*: Occurs when agricultural production becomes affected. It focuses on precipitation shortages, differences between actual evapotranspiration, soil water deficits, reduced groundwater and so on.
- *Socioeconomic drought*: Relates the supply and demand of some economic goods with elements of meteorological, hydrological, and agricultural drought. It also occurs when the demand for an economic good exceeds supply as a result of a weather-related shortfall in water supply.

MH0035 / METEOROLOGICAL

Drought

Definition

A drought is a prolonged deficiency of precipitation over a large area and

Reference

WMO, 2020. Guide to the World Meteorological Organization's WCP/CCL/Documentation of Extreme Weather

Annotations

Synonyms

Not identified.

Additional scientific description

Drought is described as a potentially damaging event due to a deficiency of precipitation over a

Whereas drought may occur over a number of time scales, its impact on many sectors of the economy

Droughts can be characterized by hydrometeorological parameters. Various drought indicators of such conditions. It is noted that droughts can adversely affect a country's security, and personal safety, and personal droughts occur, in terms of (WMO and GWP, 2016)

The drought community has no date b):

- Meteorological drought: of dryness and the duration of the drought
- Hydrological drought: precipitation shortage
- Agricultural drought: differences between actual and potential crop yields
- Socioeconomic drought: hydrological, and agricultural weather-related shortages

ET0009 / EXTRATERRESTRIAL

Near-Earth Asteroid

Definition

A near-Earth object brings it to within 0.3 astronomical units of Earth's orbit (UN OOSA, 2020)

References

UN OOSA, no date. Technical Series, 85. Fourth Edition. IOC/2008/TS/85 rev.4. <https://unesdoc.unesco.org/ark:/48223/pf0000188226?posInSet=1&queryId=aeb846ae-edfb-4d66-a03a-385a5d5897f0>

Annotations

Synonyms

Not identified.

Additional scientific description

The definition above includes objects (NEOs) generally in orbits that allow them to

Metrics and numeric indicators

A near-Earth asteroid is a small body in Earth's orbit and it has a diameter of less than 1 km (no date).

Key relevant UN conventions

The Committee on the Peaceful Uses of Outer Space (COPUOS) to govern the exploration and use of outer space (no date)). The Committee was established in 1958 to coordinate related activities that could lead to problems arising from the

Examples of drivers, or contributing factors

The International Asteroid Warning Network (IAWN) for an international response to detecting, tracking, and classifying NEOs, and to develop plans and protocols to address potential impacts. Currently, IAWN

IAWN has proposed the following parameters for Earth's atmosphere, and the ionosphere, and the

- The probability that an asteroid will impact Earth
- The probable size, or diameter, of the asteroid
- How far in the future the impact will occur

GH0006 / GEOHAZARDS / Seismogenic (Earthquakes)

Tsunami (Earthquake Trigger)

Definition

Tsunami is the Japanese term meaning wave ('nami') in a harbour ('tsu'). It is a series of travelling waves of extremely long length and period, usually generated by disturbances associated with earthquakes occurring below or near the ocean floor (IOC, 2019).

Reference

IOC, 2019. Tsunami Glossary, 2019. Intergovernmental Oceanographic Commission (IOC), Technical Series, 85. Fourth Edition. IOC/2008/TS/85 rev.4. <https://unesdoc.unesco.org/ark:/48223/pf0000188226?posInSet=1&queryId=aeb846ae-edfb-4d66-a03a-385a5d5897f0>

Annotations

Synonyms

Not found.

Additional scientific description

A tsunami may also be referred to as a 'seismic sea wave' and, incorrectly, a 'tidal wave'. Volcanic eruptions, submarine landslides, and coastal rock falls can also generate tsunamis, as can a large meteorite impacting the ocean. These waves may reach enormous dimensions and travel across entire ocean basins with little loss of energy. They proceed as ordinary gravity waves with a typical period of between 10 and 60 minutes. Tsunamis steepen and increase in height on approaching shallow water, inundating low-lying areas, and where local submarine topography causes the waves to steepen, they may break and cause great damage (IOC, 2019).

Tsunami-like phenomena generated by meteorological or atmospheric disturbances are known as meteotsunami (UNESCO and IOC, 2019).

The Intergovernmental Oceanographic Commission (IOC) uses the following terms to assess the scale and impact of a tsunami (IOC, 2019):

Travel time: Time required for the first tsunami wave to propagate from its source to a given point on a coastline.

Arrival time: Time of the first maximum of the tsunami waves.

Inundation or inundation-distance: The horizontal distance inland that a tsunami penetrates, generally measured perpendicularly to the shoreline.

Inundation (maximum): Maximum horizontal penetration of the tsunami from the shoreline. A maximum inundation is measured for each different coast or harbour affected by the tsunami.

Inundation area: Area flooded with water by the tsunami.

Inundation height: Elevation reached by seawater measured relative to a stated datum such as mean sea level or the sea level at the time of tsunami arrival, at a specified inundation distance. Inundation height is the sum of the flow depth and the local topographic height. Sometimes referred to as tsunami height.

Inundation line: Inland limit of wetting measured horizontally from the mean sea level line. The line between living and dead vegetation is sometimes used as a reference. In tsunami science, the landward limit of tsunami run-up.

TL0042 / TECHNOLOGICAL / Waste

Healthcare Risk Waste

Definition

Healthcare waste includes waste generated within healthcare facilities, research centres and laboratories related to medical procedures and medical equipment. It also includes waste originating from minor and scattered healthcare sources, including waste produced in the course of emergency medical treatment or health care undertaken in the home (e.g., home dialysis, self-administration of insulin, recuperative care) (WHO, 2014).

Reference

WHO, 2014. Safe management of wastes from health-care activities, 2nd Edition. World Health Organization (WHO). apps.who.int/iris/bitstream/handle/10665/85349/9789241548564_eng.pdf?sequence=1 Accessed 15 November 2019.

Annotations

Synonyms

Terminology varies across stakeholders: medical waste, clinical waste, regulated medical waste, hospital waste (Rutala and Mayhall, 1992).

Additional scientific description

The main sources of medical waste are hospitals, clinics, laboratories, blood banks and mortuaries. Whereas physician's offices, dental clinics, pharmacies, home-based health care and so on, generate healthcare waste but in smaller amounts (UNGA, 2011).

Metrics and numeric limits

Classification of healthcare waste (HCW) that can inform the metrics is shown below (Basel Convention and WHO, 2005):

Healthcare waste for the purpose of transboundary movements under the Basel Convention can be classified with the codes Y1 (Clinical wastes from medical care in hospitals, medical centres and clinics) or Y2 (Wastes from the production and preparation of pharmaceutical products, or Y3 (Wastes pharmaceuticals, drugs and medicines), among others.

Approximately 15% of healthcare waste is estimated to be hazardous and has a potential to cause disease or injury. About 85% of healthcare waste is general waste, and is non-hazardous and includes items such as paper, glass, plastic packaging material, and food that have not been in contact with patients. It is similar to domestic/household waste (WHO, 2018).

Key relevant UN convention / multilateral treaty

Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal (1989). At the time of writing, there were 187 parties to the Basel Convention (UN Treaty Collection, 2019).

Examples of drivers, outcomes and risk management

Drivers of this hazard include lack of awareness about the health hazards related to healthcare waste; inadequate training in proper waste management; absence of waste management and disposal systems; insufficient financial and human resources; and the low priority given to healthcare waste. Many countries either do not have appropriate regulations, or do not enforce them (WHO, 2018).

Healthcare waste may result in the following outcomes (WHO, 2018):

- Potentially harmful microorganisms can infect hospital patients, health workers and the general public.
- Release of drug-resistant microorganisms from healthcare facilities into the environment.
- Needle stick injury (e.g., a person who experiences one needle stick injury from a needle used on an infected source patient has risks of 30%, 1.8%, and 0.3% respectively of becoming infected with HBV, HCV and HIV).
- Radiation burns.
- Toxic exposure to pharmaceutical products, especially antibiotics and cytotoxic drugs released into the surrounding environment, and to substances such as mercury or dioxins, during the handling or incineration of healthcare wastes.
- Chemical burns arising in the context of disinfection, sterilisation or waste treatment activities.
- Air pollution arising from the release of particulate matter during medical waste incineration.
- Thermal injuries occurring in conjunction with open burning and the operation of medical waste incinerators.
- Indirect health risks (environmental impact) due to the release of pathogens and toxic pollutants into the environment.
- Inadequate incineration or the incineration of unsuitable health waste materials can result in the release of pollutants into the air and in the generation of ash residue. Incinerated materials containing or treated with chlorine can generate dioxins and furans, which are human carcinogens and have been associated with a range of adverse health effects. Incineration of heavy metals or materials with high metal content (especially lead, mercury and cadmium) can lead to the spread of toxic metals in the environment.
- Treatment of healthcare wastes with chemical disinfectants can result in the release of chemical substances into the environment if those substances are not handled, stored and disposed of in an environmentally sound manner.
- Disposal of untreated healthcare wastes in landfills can lead to the contamination of drinking water, surface waters, and groundwaters if the landfills are not properly constructed.

References

Basel Convention and WHO, 2005. Preparation of national health-care waste management plans in Sub-Saharan countries: guidance manual. World Health Organization (WHO). <https://apps.who.int/iris/handle/10665/43118> Accessed 15 November 2019.

Rutala, W. and G. Mayhall, 1992. SHEA position paper: Medical waste. *Infection and Hospital Epidemiology*, 13:38-48.

UN Treaty Collection, 2019. Environment. Chapter XXVII. Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal. https://treaties.un.org/pages/ViewDetails.aspx?src=TREATY&mtidsg_no=XXVII-3&chapter=27&clang=en. Accessed 15 November 2019.

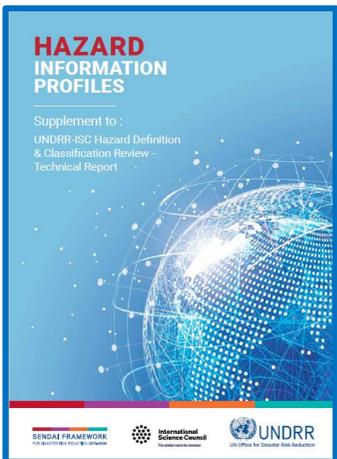
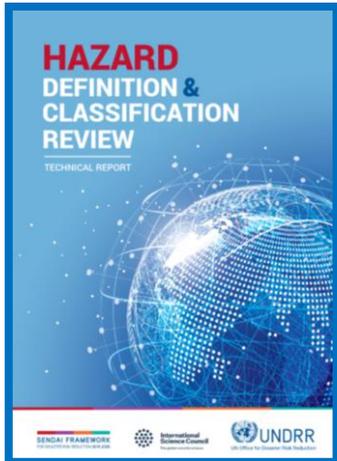
UNEP, 2003. Technical Guidelines on the Environmentally Sound Management of Biomedical and Healthcare Wastes (Y1,Y3). Basel Convention. United Nations Environment Programme (UNEP). www.basel.int/Implementation/TechnicalMatters/DevelopmentofTechnicalGuidelines/TechnicalGuidelines/tabid/8025/Default.aspx Accessed 5 October 2020.

UNGA, 2011. Report of the special rapporteur on the adverse effects of the movement and dumping of toxic and dangerous products and wastes on the enjoyment of human rights, Calin Georgescu. Human Rights Council, A/HRC/18/31. United Nations General Assembly (UNGA). www2.ohchr.org/english/bodies/hrcouncil/docs/18session/A-HRC-18-31_en.pdf Accessed 15 November 2019.

WHO, 2018. Health-care waste. World Health Organization (WHO). www.who.int/news-room/fact-sheets/detail/health-care-waste Accessed 15 November 2019.

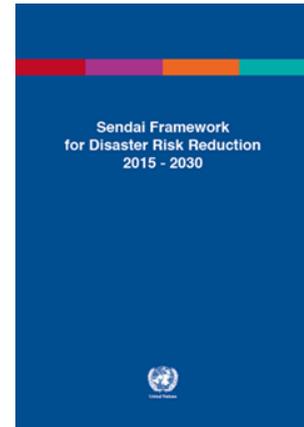
Coordinating agency or organisation

World Health Organization.



The UNDRR/ISC Hazard Definition and Classification Review Technical Report and Hazard Information Profiles support Sendai Framework for Disaster Risk Reduction 2015-2030, Sustainable Development Goals of Agenda 2030 and Paris Agreement on Climate Change

by providing a
common set of hazard definitions
for monitoring and reviewing implementation





**International
Science Council**
The global voice for science

**POLICY BRIEF:
USING UNDRR/ISC HAZARD
INFORMATION PROFILES
TO MANAGE RISK AND
IMPLEMENT THE SENDAI
FRAMEWORK FOR DISASTER
RISK REDUCTION**

Authors: Virginia Murray (UKHSA), Jonathan Abrahams (WHO), Kanza Ahmed (UKHSA), Paul Davies (UK Met Office), James Douris (WMO), Brian Golding (WMO/WWRP HIWeather project), John Handmer (IRDR), Sarah Selby (UN Women), Anne-Sophie Stevance (ISC), Sara Duerto Valero (UN Women) and Maddie Weir (UKHSA)

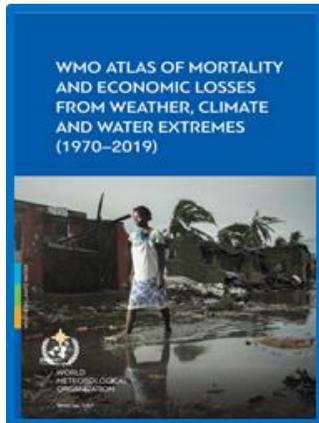
Reviewers: Animesh Kumar (UNDRR), Michael Nagy (UNECE) and Mathieu Denis (ISC)



- Case Study: **World Meteorological Organization Cataloguing of Hazardous Events**
- Case Study: **United Nations Inter Agency Expert Group on Disaster Related Statistics**
- Case Study: **World Health Organization Framework for Health Emergency and Disaster Risk Management**

<https://council.science/publications/policy-brief-hazards-informations-profiles-drr/>

CASE STUDY: WORLD METEOROLOGICAL ORGANIZATION (WMO) CATALOGUING OF HAZARDOUS EVENTS



- WMO is currently implementing a **new methodology for cataloguing hazardous events (WMO-CHE)**. This will provide essential inputs for identifying, reducing and transferring risk, as well as for tracking global policy indicators such as the Sustainable Development Goals, the Paris Agreement and the Sendai Framework.
- Methodology uses **modern database methods that are hierarchy-free** (no tree structure to store data) and facilitates flexible analysis. It centres on uniquely identifying and recording hazardous meteorological, climate, water, and space weather events, and other related environmental phenomena.
- WMO will **use material developed in the UNDRR/ ISC hazard information profiles** to begin to identify hazardous events. This will help improve WMO's understanding of complex and cascading events, and trends in frequency, severity and distribution, and will enable the organization to **strengthen early warning systems**.



Early Warning systems must protect everyone within five years

Tags: [WMO](#) [Disaster risk reduction](#) [Climate change](#) [Observations](#) [Forecast](#) [Disasters](#)

23 Published 23 March 2022

Press Release Number: 23032022

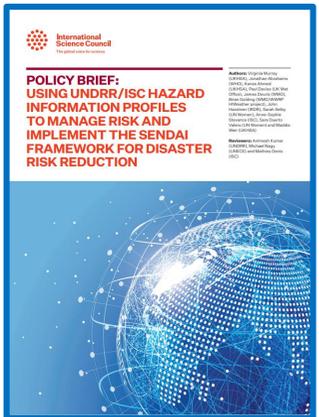
UN unveils ambitious target to adapt to climate change and more extreme weather

Within the next five years, everyone on Earth should be protected by early warning systems against increasingly extreme weather and climate change, according to an ambitious new United Nations target announced today.

Latest WMO News

“Science for Climate Action” pavilion by WMO, IPCC and MERI Foundation at COP27, Egypt

CASE STUDY: WORLD HEALTH ORGANIZATION FRAMEWORK FOR HEALTH EMERGENCY AND DISASTER RISK MANAGEMENT



- Recognizing the wide range of hazards to which communities are exposed, the **World Health Organization (WHO) Health Emergency and Disaster Risk Management Framework** include the WHO classification of hazards.
- This classification was a key input for identifying the hazards to be included in the **UNDRR/ISC hazard definition and classification review**. The revision of WHO's classification of hazards to align with the UNDRR/ISC hazard information profiles is being considered
- Both provide a common understanding of **how hazards affect public health and enable whole-of-society action** such as:
 - all-hazards risk assessment;
 - multi-hazard early warning systems;
 - critical infrastructure protection;
 - emergency preparedness and response; and
 - delivery of health services to save lives and reduce injuries, illnesses and other health impacts caused by emergencies and disasters.



SENDAI FRAMEWORK FOR DISASTER RISK REDUCTION

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Sendai Framework | 2030 Agenda for Sustainable Development
Multi-Purpose Data, Integrated Monitoring & Reporting
Overall Structure of SFM



Welcome to DesInventar Sendai !!!

Disaster loss data for Sustainable Development Goals and
Sendai Framework Monitoring System



**DesInventar Sendai available
documents:**

[\(EN\) User Manual Analysis](#)

[\(EN\) Data Management](#)

[\(FR\) Guide de l'utilisateur](#)



The DesInventar Sendai server software is open-source and is free of charge for commercial and non-commercial use. It is distributed under an "Apache-2" license, which is even less restrictive than GNU FreeFD licenses.

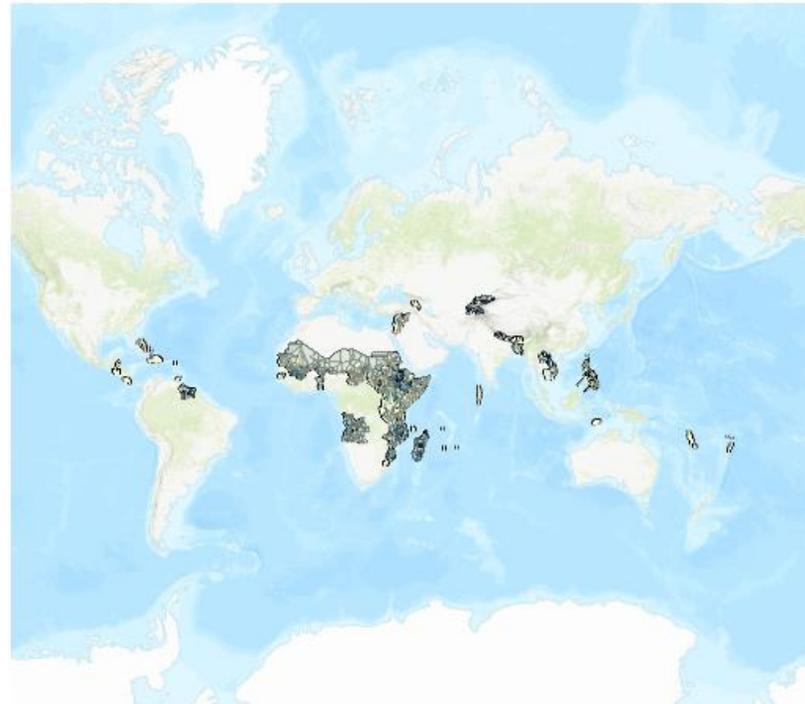
Risk Information Exchange

[HOME](#)

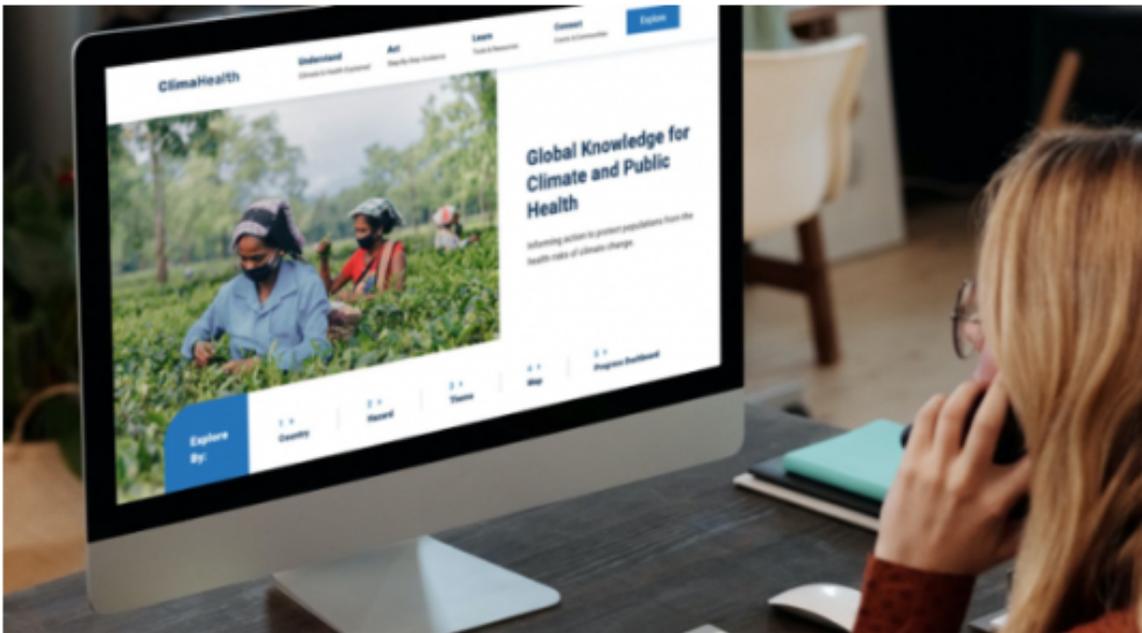
[ALL DATASET LISTINGS](#)

[COUNTRY PROFILES](#)

RiX is a living repository of open-source global, regional and national risk data and information to improve risk knowledge, risk literacy and risk analytics. Contributing to country-led efforts to strengthen their national risk data ecosystems, including for early warning and disaster risk reduction, RiX was launched as a beta in 2022, with new features continuously added. As a multi-purpose platform, RiX seeks to harmonize risk information to facilitate risk analysis by government, UN, private, and other actors for risk-informed decision making and resilience building.



10000 km
4000 mi



WMO and WHO launch ClimaHealth portal

Tags: [Climate change](#) [Public health](#) [Early Warnings](#)

31

Published 31 October 2022

The first global knowledge platform dedicated to climate and health - [ClimaHealth.info](#) - has been launched by the World Meteorological Organization and World Health Organization Joint Office on climate

Latest WMO News

COP27 outcomes emphasize early

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On

[Home](#) > [meetings](#) > [2nd meeting expert team space weather 7 8 march 2023](#)

2nd Meeting of the Expert Team on Space Weather (7 - 8 March 2023)

START DATE

07 March 2023

END DATE

08 March 2023

LOCATION

online (MS Teams)

ACTIVITY AREAS (1)

Date & Time

7-8 March 2023 10:00 - 13:00 UTC

Draft Agenda

Meeting documents

TUESDAY 7 MARCH 2023		DOCUMENTS
Time (UTC)	Agenda item	Docs
10:00	1. OPENING OF THE SESSION	
10:00	1.1. Welcome from ET-SWx Chairs and WMO	
10:10	1.2. Approval of the agenda	Doc 1-2

Default translation

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On

Home > meetings > 2nd meeting expert team space weather 7 8 march 2023

2nd Meeting of the Expert Team on Space Weather (7 - 8 March 2023)

START DATE

07 March 2023

END DATE

08 March 2023

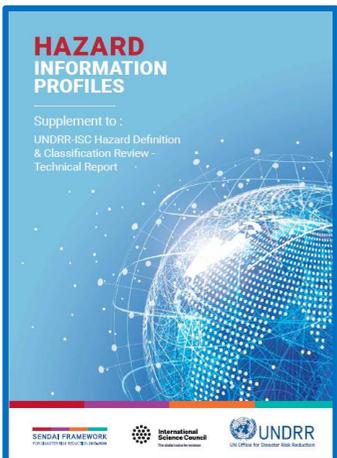
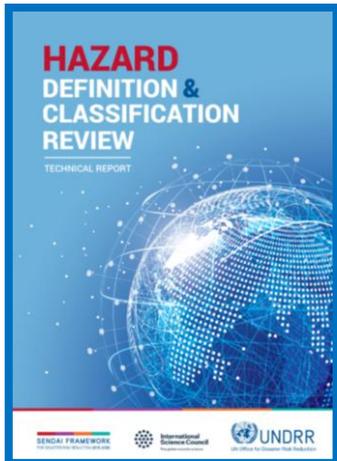
LOCATION

online (MS Teams)

ACTIVITY AREAS (1)

Identifier	Hazard Cluster	Specific Hazard	Page Nu
EXTRATERRESTRIAL			
ET0001	Extraterrestrial	Airburst	
ET0002	Extraterrestrial	Geomagnetic Storm (including energetic particles related to space weather, and solar flare radio blackout [R Scale])	
ET0003	Extraterrestrial	UV Radiation	
ET0004	Extraterrestrial	Meteorite Impact	
ET0005	Extraterrestrial	Ionospheric Storms	
ET0006	Extraterrestrial	Radio Blackout	
ET0007	Extraterrestrial	Solar Storm (Solar Radiation Storm) (S Scale)	
ET0008	Extraterrestrial	Space Hazard / Accident	
ET0009	Extraterrestrial	Near-Earth Object	

UNDRR-ISC Hazard Information Profiles and their use in documenting hazards



- **Use** this hazard list to actively engage policymakers and scientists in evidence-based national risk assessment processes, DRR and risk-informed sustainable development, and other actions aimed at managing risks of emergencies and disasters
- **Address** cascading and complex hazards and risks
- **Regular review and update** – maybe it is time for a Phase 2?