

1.7 Vulnerability and Evacuation Maps (New Zealand)

OECD GP Activity	UN SF Activity	UN SD Goals / Targets
1. Natural hazards identification and communication, NH (early) warning systems	1. Understanding disaster risk	16.10 Ensure public access to information ...

Classification according to OECD Guiding Principles, UN Sendai Framework Priorities/Activities, and UN SDGs and Targets

Short Facts:	Natural Hazard(s) Considered:
Governance approach: Hazard communication Source: GNS Science, New Zealand Entry into force: Targeted Stakeholders: Operators, authorities, assessors/safety experts, the public Scope of applicability: National, regional, local	<ul style="list-style-type: none"> • Floods • Earthquakes • Avalanches • Landslide • Tsunami Sea level rise Climate change: Not included

Description

In addition to hazard and risk maps, GNS Science, Te Pū Ao, provides various evacuation maps to the government, authorities and private industry in New Zealand. In case of a tsunami, the evacuation maps show the potentially endangered areas, providing critical information for evacuation planning to emergency managers and communities.

The above picture is an example of an evacuation map in the event of a tsunami. The endangered areas are divided into the following three zones:

Red Zone: Area which can be designated as an exclusion zone.

Orange Zone: If the expected impact of a tsunami wave exceeds the red area, the orange zone must be evacuated. The request for an evacuation of this zone depends on the intensity of the earthquake, the distance between the epicentre and the coast and the effectiveness of the early warning system for tsunamis.

Yellow Zone: The yellow zone covers extreme events with the highest impact and risk.

These maps can improve the coordination of warning and security planning between private companies and authorities.

Link/Contact:

<https://www.gns.cri.nz/Home/RBP/Risk-based-planning/A-toolbox/Setting-the-Scene/General-Natural-Hazard-Guidance/Types-of-maps#haz>



Comments by the UN/OECD Natech-Steering Group:

The maps show areas which may be affected by a Tsunami and require evacuation, and take Natech risk management into account for installations in these areas. They do not show the evacuation routes and safe zones in the event of an emergency (i.e. elevated area). The maps take the impacts of tsunamis into account but not the (additional) risks due to a Natech caused by a tsunami.

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