

Earthquake near Sanetschpass (VS)

Overview	<p>Magnitude 2.9 [MLhc]</p> <p>The Swiss Seismological Service at the ETH Zurich has detected an earthquake in canton St. Gallen, approx. 10 km south east of Weisstannen. This earthquake is not likely to have been felt. Damage is not expected from an earthquake of this magnitude. Aftershocks are expected to occur in the coming days and weeks; these may be felt or cause (further) damage. Though highly unlikely, the occurrence of a similar or larger quake in the next few days or weeks cannot be ruled out.</p>	<p>Danger level</p> <p style="text-align: center; background-color: #90EE90;">-</p>																																																																																																																																																																																																																																																																																																																																																												
	<p>Local time: 09:58</p> <p>Date: 27.06.2024</p> <p>Hypocentral depth [km]: 27.8</p> <p>Magnitude [MLhc]: 2.9</p> <p>Assessment: automatic</p> <p>Swiss coordinates: 2°749'188 / 1°197'058</p> <p>Additional data: Link</p>																																																																																																																																																																																																																																																																																																																																																													
National	<p>Estimated effects</p> <p>The estimated effects are described in intensities. The intensity describes the strength of an earthquake based on the extent of the effect and the subjective perception of a person.</p>	<p>Number of fatalities in Switzerland</p> <p>The number of fatalities is very likely to fall within the coloured range.</p>																																																																																																																																																																																																																																																																																																																																																												
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With the support of: Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
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Federal Office for the Environment FOEN
Federal Office for Civil Protection FOCP





Explanations

The values given here regarding the anticipated consequences of an earthquake are automatically generated based on assumptions derived from the earthquake risk model of Switzerland (ERM-CH23) and do not reflect the actual situation. Consequently, the modelled values may vary considerably from the observed ones. Therefore, all information is provided without warranty and is subject to change.

The earthquake risk model of Switzerland was developed by the Swiss Seismological Service (SED) at ETH Zurich in collaboration with the Federal Office for the Environment (FOEN) and the Federal Office for Civil Protection (FOCP).

Overview	<p>'MLhc' and 'Mw' are types of magnitude and describe the energy released during an earthquake and its strength respectively.</p>	<p>Danger levels 1 to 5 were jointly defined by the federal agencies with responsibility for natural hazards.</p> <ul style="list-style-type: none"> • Danger level 1: no or minor danger • Danger level 2: moderate danger • Danger level 3: considerable danger • Danger level 4: severe danger • Danger level 5: extreme danger <p>More information about danger levels is available here: https://www.natural-hazards.ch/home/dealing-with-natural-hazards/explanation-of-the-danger-levels.html</p> 
	<p>The overview is a summary of key information about an earthquake and comprises standardised text elements that have been combined automatically.</p>	<p>This table summarises the most important earthquake parameters. Clicking on the link in the last row will take you to a page with more information about the earthquake in question on the website of the Swiss Seismological Service at ETH Zurich: www.seismo.ethz.ch</p>
National	<p>The map shows the expected effects of an earthquake described in intensities. The intensity describes the strength of an earthquake based on the extent of the impact and the subjective perception of a person.</p> <p>An intensity map is automatically produced based on various data, including the peak ground accelerations and ground velocities recorded at the seismic stations, local site conditions, and empirical instrumental intensity models.</p>	<p>The estimated number of fatalities is derived from the following values:</p> <ul style="list-style-type: none"> • Estimated number of heavily damaged or destroyed buildings • Estimated occupancy of these buildings (regardless of the time of day or year) • Estimated proportion of people who die in heavily damaged or destroyed buildings <p>The estimated number of fatalities does not take into account the following values:</p> <ul style="list-style-type: none"> • Estimated number of fatalities due to damage to infrastructure (e.g. bridges, roads) • Estimated number of fatalities due to the secondary effects of an earthquake (e.g. landslides, rockslides, fire)
		<p>The expected number of people seeking protection in the short and longer term is derived from the following values:</p> <ul style="list-style-type: none"> • Estimated number of moderately to heavily damaged or destroyed buildings • Estimated occupancy of these buildings (regardless of the time of day or year). • Estimated proportion of buildings that are no longer habitable due to damage
		<p>The estimated costs of building damage encompass both structural and non-structural damage, and they are derived from the following values:</p> <ul style="list-style-type: none"> • Estimated number of slightly, moderately and heavily damaged or destroyed buildings • The value of these buildings • Estimated proportional loss of building value due to the damage caused <p>The estimated costs of building damage do not take into account the following values:</p> <ul style="list-style-type: none"> • Movable building contents (chattels) • Losses due to the secondary effects of the earthquake (e.g. landslides, rockslides, fire) • Losses due to delays, e.g. to repairs or reconstruction work • Losses due to interruptions to business continuity • Loss of infrastructure (bridges, roads, power lines)
Cantonal	<p>The estimated number of persons suffering minor to severe injuries is derived from the following values:</p> <ul style="list-style-type: none"> • Estimated number of moderately to heavily damaged or destroyed buildings • Estimated occupancy of these buildings (regardless of the time of day or year) • Estimated ratio of people injured in moderately to heavily damaged or destroyed buildings <p>The estimated number of injured people does not take into account the following values:</p> <ul style="list-style-type: none"> • Injuries resulting from damage to infrastructure (e.g. bridges, roads) • Injuries resulting from the secondary effects of the earthquake (e.g. landslides, rockslides, fire) 	<p>Damage to buildings falls within one of grades of damage (abbreviated to «DG»):</p> <ul style="list-style-type: none"> • Damage grade 1: Negligible to slight damage • Damage grade 2: Moderate damage • Damage grade 3: Substantial to heavy damage • Damage grade 4: Very heavy damage • Damage grade 5: Destruction <p>The estimated damage to buildings takes into account all buildings at damage grade 2 or above. The damage to a building depends heavily on its construction and the nature of the local subsoil.</p>

