

Nakatsu City Tsunami Hazard Map

Nakatsu East Area

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Nakatsu City Disaster Prevention Map (Web version)

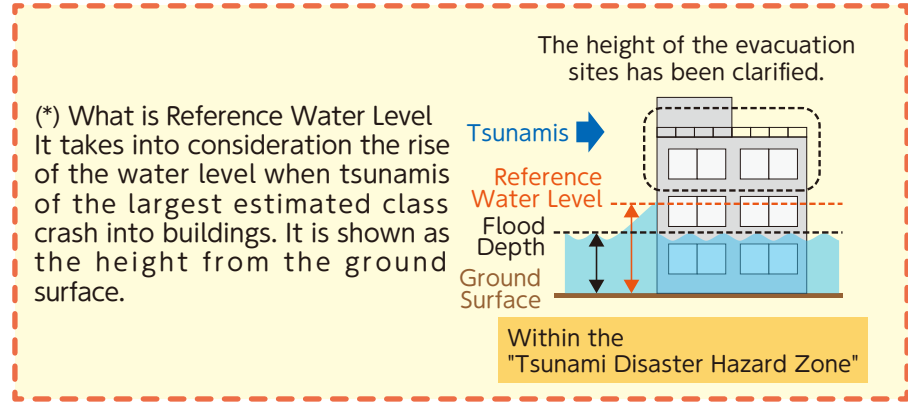
Nakatsu City has prepared a disaster prevention map that can be viewed from computers and smartphones.

For details



● Use of the Hazard Map

This Tsunami Hazard Map includes information on designated emergency evacuation sites and tsunami evacuation buildings in Nakatsu City. It is based on the "Tsunami Disaster Hazard Zones" published by the Oita prefectural government in November 2023, assuming the maximum class of tsunami that could be generated by the Nankai Trough Earthquake, etc. With the designation of the "Tsunami Disaster Hazard Zones" along with the existing "Anticipated Tsunami Floods" designated by the prefecture, a "Reference Water Level(*)" is published. This enables more effective evacuation measures.



● What is a "Tsunami Disaster Hazard Zone"?

It is an area where residents must be prepared for the possibility of a tsunami so that they can 'escape' in case of a tsunami emergency.

Let's Practice Evacuation Drills!!

- Participate in evacuation drills held by the city and residents' associations.
- Use this hazard map and other disaster prevention maps published by the city when you join the drill.
- Each residents' association should actively plan and conduct evacuation drills.

Issuance of Evacuation Instruction

When a tsunami occurs, unlike flooding where the risk gradually increases, an Evacuation of the Elderly, etc., or Emergency Safety Measures will not be issued; typically, only an Evacuation Instruction will be provided. Residents living in areas colored on the tsunami hazard map should evacuate to safer, higher ground when a major tsunami warning, tsunami warning, or tsunami advisory is issued or when an Evacuation instruction is given. If the epicenter is near the coast or you are close to the shore, do not wait for these announcements; immediately proceed to evacuate. *Even in uncolored areas, there is a possibility of flooding depending on the severity of the earthquake and damage to coastal facilities. Flood depth may be deeper than anticipated. Please remain cautious.

Evacuation Instruction

1. Major Tsunami Warning, Tsunami Warning, or Tsunami Advisory is issued. (However, the areas where an Evacuation Instruction is issued may vary.)
2. When you feel a strong tremor or if the tremor is weak but lasts longer than about one minute, especially in situations where you cannot receive tsunami warnings due to power outages or communication disruptions.

"Evacuation information in case of a tsunami caused by an earthquake or volcanic eruption in a distant area"

For tsunamis that take a considerable amount of time to arrive, such as those caused by earthquakes or volcanic eruptions far from Japan, the JMA may announce the expected arrival time of tsunamis in the "Information on Distant Earthquakes" before issuing tsunami warnings, etc. Municipalities shall recognize that tsunami warnings, etc. may follow "Information on Distant Earthquakes" and must consider issuing an Evacuation of the Elderly, etc., if necessary, based on the provided information even prior to the official tsunami warning, etc.

Characteristics of Tsunamis

Earthquakes and tsunamis can strike at any time and place. Ensure you know what to do to protect yourself.

● Destructive power of tsunami waves

Unlike ordinary ocean waves, tsunamis are caused by the movement of the entire seawater due to the seabed's ups and downs. As the entire body of water, from the seabed to the sea surface, rushes onto the coast, its destructive power is immense. The underflow also continues to pull for a long time, drawing buildings and other structures into the sea all at once.

● Rapid speed of a tsunami

The speed of a tsunami traveling upshore is about 36 km/h, comparable to an Olympic short-distance runner. It is very difficult to outrun a tsunami once it is seen.

● Tsunamis can travel up rivers

Tsunamis can enter a river from its mouth and travel upstream (backwards) for many kilometers. In some cases, the upstream tsunami may cross over the river levee, causing severe damage to the riverside area.

● Tsunamis strike repeatedly

Tsunamis come in multiple waves. The first wave is not always the largest. Even after the waves recede, stay alert and continue evacuating until the tsunami advisory is lifted.

● Tsunamis don't always begin with low tide

Tsunamis do not always begin with a low tide. Although it's often said that a tsunami is preceded by a low tide, depending on the nature of the earthquake and the topography near the epicenter, a tsunami may strike suddenly.

Types of Tsunami Warnings / Advisories and Actions to be Taken

When a tsunami disaster is expected, the Japan Meteorological Agency (JMA) issues a major tsunami warning, tsunami warning, or tsunami advisory for each forecasted area within approximately three minutes after the earthquake.

Category	Announcement Criteria	Tsunami height to be announced Quantitative Expressions (Estimated maximum tsunami height)	Terms for Major Earthquakes	Expected damage and action to be taken
Major Tsunami Warning	When the maximum tsunami height is expected to exceed 3 m.	Over 10 m (10 m < Estimated maximum tsunami height) 10m (5 m < Estimated maximum tsunami height ≤ 10 m) 5m (3 m < Estimated maximum tsunami height ≤ 5 m)	Huge	Wooden structures are expected to be completely destroyed and/or washed away; anybody exposed will be caught in tsunami currents. Evacuate immediately from coastal or river areas to safer locations, such as high ground or a tsunami evacuation building.
Tsunami Warning	When the maximum tsunami height is expected to exceed 1 m but not exceed 3 m.	3m (1 m < Estimated maximum tsunami height ≤ 3 m)	High	Tsunami waves will hit, causing damage to low-lying areas. Buildings will be flooded and anybody exposed will be caught in tsunami currents. Evacuate immediately from coastal or river areas to safer locations, such as high ground or a tsunami evacuation building.
Tsunami Advisory	When the maximum tsunami height is expected to exceed 0.2 m and cause potential damage but not exceed 1 m.	1m (0.2 m < Estimated maximum tsunami height ≤ 1 m)	(N/A)	Anybody exposed will be caught in strong tsunami currents in the sea. Fish farming facilities will be washed away and small vessels may capsize. Get out of the water and leave coastal areas immediately.

*Major Tsunami Warnings are issued in the classification of Emergency Warnings. (Quoted from the Japan Meteorological Agency website)

Nakatsu City Tsunami Hazard Map [Tsunami Disaster Alert Area Map]

