#### 英語版(中津地区西部)

## Nakatsu City Tsunami Hazard Map

## Nakatsu West Area

Published in March 2025

For details

#### lakatsu City Disaster Prevention Map (Web version

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

## 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.

The height of the evacuation sites has been clarified.
(*) What is Reference Water Level It takes into consideration the rise of the water level when tsunamis of the largest estimated class crash into buildings. It is shown as the height from the ground surface.
Within the "Tsunami Disaster Hazard Zone"

### 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.



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.)

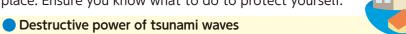
2. When you feel a strong tremor or if the tremor is weak but lasts longer than about one minute, especially in situations where you cannot receive tsunami warnings due to power outages or communication disruptions.

#### \*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.



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 undertow also continues to pull for a long time, drawing buildings and other structures into the sea at once.

#### Rapid speed of a tsunami Tsunamis strike repeatedly The speed of a tsunami traveling upshore is about 36 km/h, Tsunamis come in multiple waves. The first wave is not comparable to an Olympic short-distance runner. It is very always the largest. Even after the waves recede, stay alert

difficult to outrun a tsunami once it is seen. and continue evacuating until the tsunami advisory is lifted. Tsunamis can travel up rivers Tsunamis don't always begin with low tide

Tsunamis can enter a river from its mouth and travel Tsunamis do not always begin with a low tide. Although it's upstream (backwards) for many kilometers. In some cases, : often said that a tsunami is preceded by a low tide, the upstream tsunami may cross over the river levee, : depending on the nature of the earthquake and the causing severe damage to the riverside area. 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.

		Tsunami height to be a	announced		
Category	Announcement Criteria	Quantitative Expressions (Estimated maximum tsunami height)	Terms for Major Earthquakes	Expected damage and action to be taken	
		Over 10 m (10 m < Estimated maximum tsunami height)		Wooden structures are expected to b completely destroyed and/or washed awa	
Major Tsunami Warning	When the maximum tsunami height is expected to exceed 3 m.	<b>10m</b> (5 m < Estimated maximum tsunami height ≦ 10 m)	Huge	anybody exposed will be caught in tsunar currents. Evacuate immediately from coastal or rive	
Ŭ		<b>5m</b> (3 m < Estimated maximum tsunami height ≦ 5 m)		areas to safer locations, such as high groun or a tsunami evacuation building.	
Tsunami Warning	When the maximum tsunami height is expected to exceed 1 m but not exceed 3 m.	<b>3m</b> (1 m < Estimated maximum tsunami height ≦ 3 m)	High	Tsunami waves will hit, causing damage low-lying areas. Buildings will be flooded a anybody exposed will be caught in tsuna currents. Evacuate immediately from coastal or riv areas to safer locations, such as high grou 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.	<b>1m</b> (0.2 m ≦Estimated maximum tsunami height ≦ 1 m)	(N/A)	Anybody exposed will be caught in stro tsunami currents in the sea. Fish farmi facilities will be washed away and sma vessels may capsize. Get out of the water and leave coastal are immediately.	

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

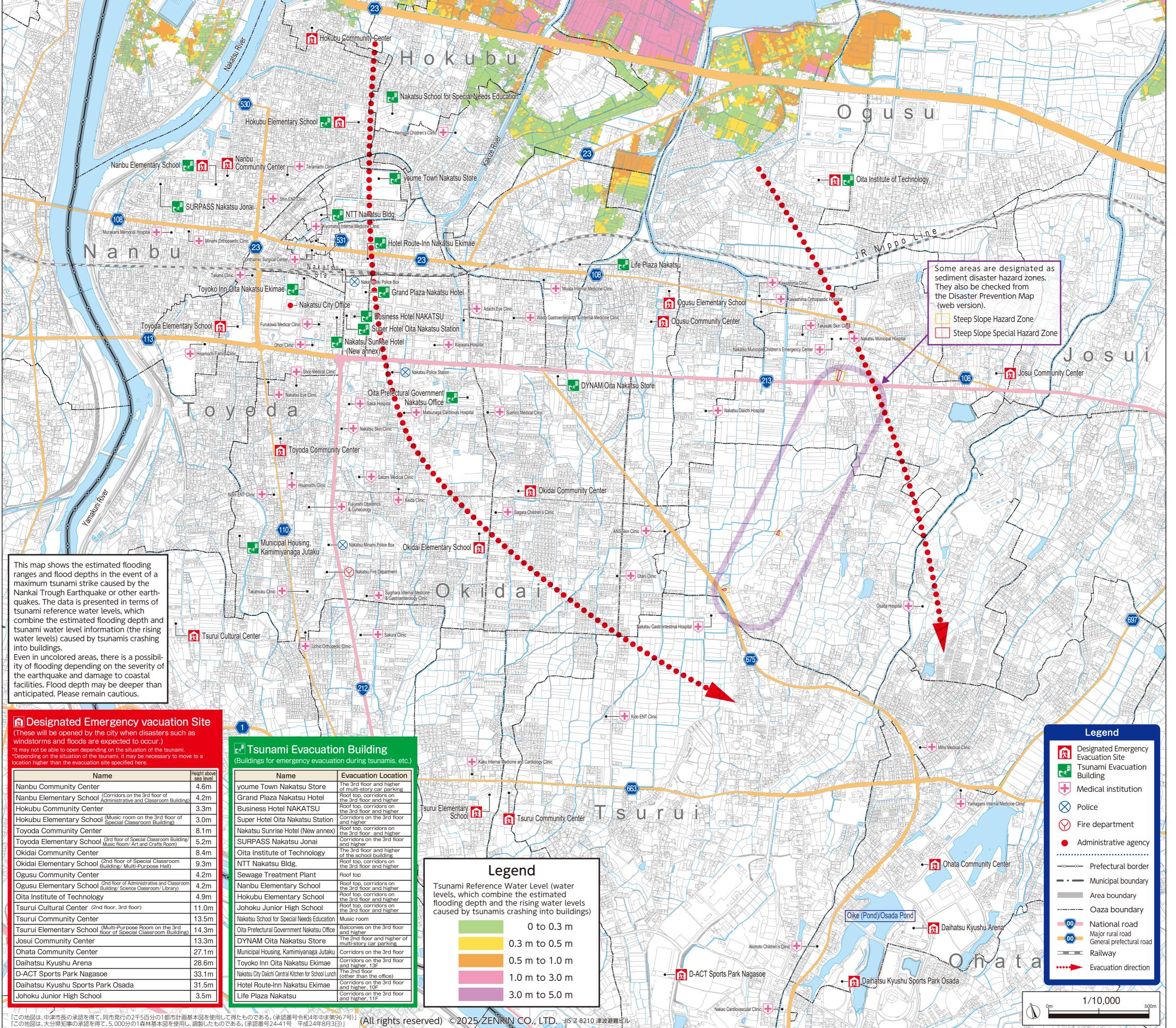
# Nakatsu City Tsunami Hazard Map [Tsunami Disaster Alert Area Map] Sewage Treatment Plant Nakatsu City Daiichi Central Kitchen for School Lunch Johoku Junior 🛃 😥

## Maximum Tsunami Height and Tsunami Arrival Time \*Tsunami Height and Tsunami Arrival Time in Nakatsu City based on the 2012 Oita Prefecture Tsunami Flooding Prediction Survey

Maximum	Location	Nankai Trough Megathrust Earthquake	Earthquake in Beppu Bay (Keicho-Bungo earthquake (in 1596) type)	Main Body of Suonada Fault Group
Maximum Tsunami Height	Koiwai Shinmachi, Nakatsu City	Maximum Tsunami Height (After crustal movement) (m)	Maximum Tsunami Height (After crustal movement) (m)	Maximum Tsunami Height (After crustal movement) (m)
		2.75	2.35	2.15
<b>-</b> .	unami rrival Time Location Mega Earth Maxi Tsunam Shinmachi, Nakatsu City 3 hou	Nankai Trough Megathrust Earthquake	Earthquake in Beppu Bay (Keicho-Bungo earthquake (in 1596) type)	Main Body of Suonada Fault Group
I sunami Arrival Time		Maximum Tsunami Height Arrival Time	Maximum Tsunami Height Arrival Time	Maximum Tsunami Height Arrival Time
		3 hours and 26 minutes	4 hours and 56 minutes	1 hour and 5 minutes

Suo-nada Sea





Name	Height above sea level
Nanbu Community Center	4.6m
Nanbu Elementary School Administrative and Classroom Building)	4.2m
Hokubu Community Center	3.3m
Hokubu Elementary School (Music room on the 3rd floor of Special Classroom Building)	3.0m
Toyoda Community Center	8.1m
Toyoda Elementary School (3rd floor of Special Classroom Building/ Music Room/ Art and Crafts Room)	5.2m
Okidai Community Center	8.4m
Okidai Elementary School <sup>(2nd floor of Special Classroom Building/ Multi-Purpose Hall)</sup>	9.3m
Ogusu Community Center	4.2m
Ogusu Elementary School (2nd floor of Administrative and Classroom Building/ Science Classroom/ Library)	4.2m
Oita Institute of Technology	4.9m
Tsurui Cultural Center (2nd floor, 3rd floor)	11.0m
Tsurui Community Center	13.5m
Tsurui Elementary School (Multi-Purpose Room on the 3rd floor of Special Classroom Building)	14.3m
Josui Community Center	13.3m
Ohata Community Center	27.1m
Daihatsu Kyushu Arena	28.6m
D-ACT Sports Park Nagasoe	33.1m
Daihatsu Kyushu Sports Park Osada	31.5m
Johoku Junior High School	3.5m

📲 Tsunami Evacuatio		
Buildings for emergency evacuat		
Name	Evacuation Location	
youme Town Nakatsu Store	The 3rd floor and higher of multi-story car parking	
Grand Plaza Nakatsu Hotel	Roof top, corridors on the 3rd floor and higher	
Business Hotel NAKATSU	Roof top, corridors on the 3rd floor and higher	
Super Hotel Oita Nakatsu Station	Corridors on the 3rd floor and higher	
Nakatsu Sunrise Hotel (New annex)	Roof top, corridors on the 3rd floor and higher	
SURPASS Nakatsu Jonai	Corridors on the 3rd floor and higher	
Oita Institute of Technology	The 3rd floor and higher of the school building	
NTT Nakatsu Bldg.	Roof top, corridors on the 3rd floor and higher	
Sewage Treatment Plant	Roof top	
Nanbu Elementary School	Roof top, corridors on the 3rd floor and higher	
Hokubu Elementary School	Roof top, corridors on the 3rd floor and higher	
Johoku Junior High School	Roof top, corridors on the 3rd floor and higher	
Nakatsu School for Special Needs Education	Music room	
Oita Prefectural Government Nakatsu Office	and higher	
DYNAM Oita Nakatsu Store	The 2nd floor and higher of multi-story car parking	
Municipal Housing, Kamimiyanaga Jutaku		
Toyoko Inn Oita Nakatsu Ekimae	Corridors on the 3rd floor and higher, 13F	
Nakatsu City Daiichi Central Kitchen for School Lunch		
Hotel Route-Inn Nakatsu Ekimae	Corridors on the 3rd floor and higher, 10F	
Life Plaza Nakatsu	Corridors on the 3rd floor and higher, 11F	