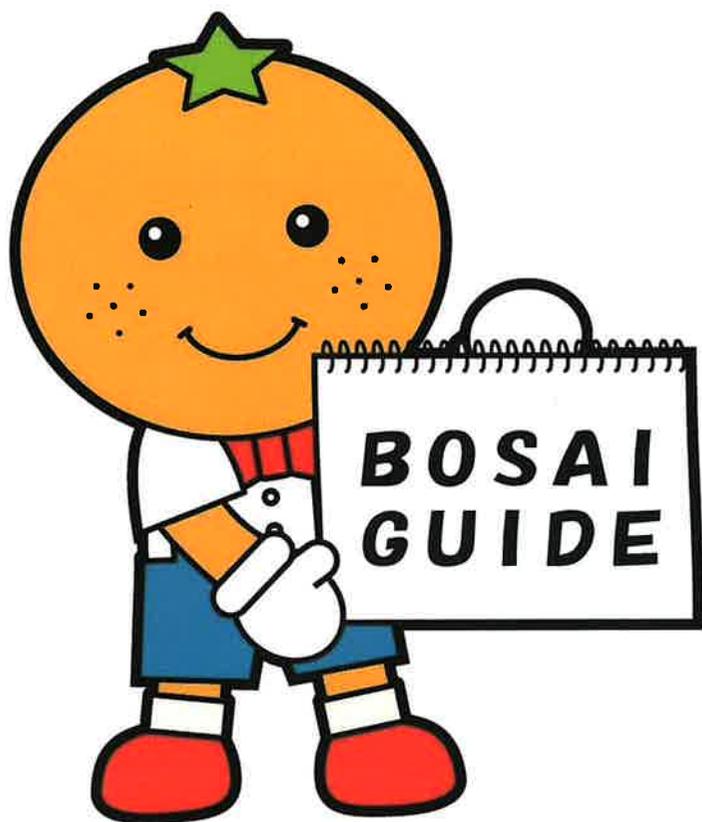


# Natural Disaster Safety Guide

Easy English Version



**NHK**和歌山

Wakayama International Exchange Center

# Wakayama and Earthquakes

As of January 2022, there is a 90% chance that the Nankai trough giant earthquake (magnitude 8 to 9) will happen in the next 40 years. When it happens, Wakayama will shake very strongly. There will also be a risk of tsunamis in the area near the sea. Tsunamis are very dangerous.

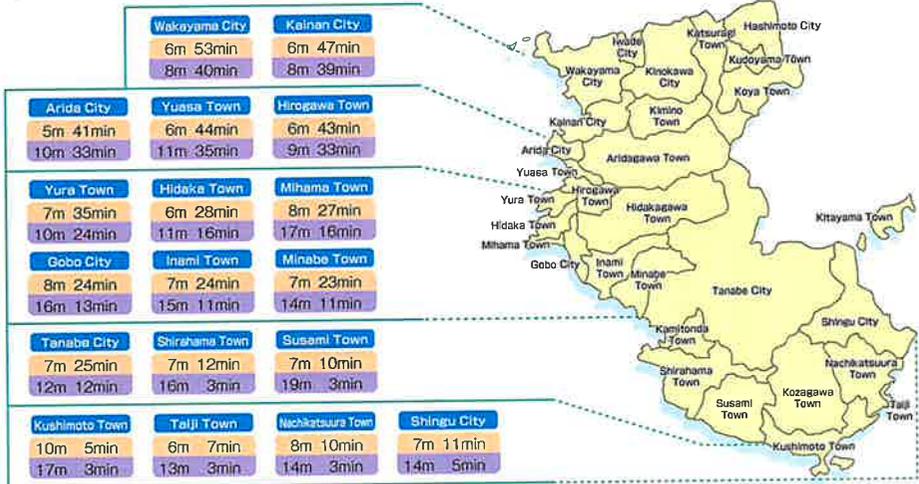
## Preparing for Tsunamis

Tsunamis may happen after earthquakes. Tsunamis come fast and waves are high. They are very dangerous. Soon after the earthquake happens the meteorology agency will give warnings of any approaching tsunami. If a tsunami is coming, move away from the shore right away and evacuate to a safe place on high ground.

< Tsunami warning and advisory issued by the meteorology agency >

<b>Tsunami advisory</b>	Those in the ocean are to come ashore right away. Keep away from the ocean.
<b>Tsunami warning</b>	Tsunamis are predicted to cause damage to areas near the shore.
<b>Giant tsunami warning</b>	Move away the soonest you can.

## Prediction of tsunami heights and arrival times



### Tokai, Tonankai, and Nankai earthquakes

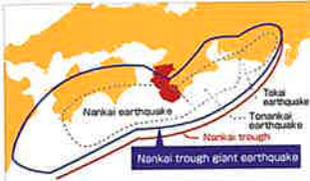
Highest tsunami wave  
Maximum wave arrival time of the first tsunami

### Nankai trough giant earthquake

Highest tsunami  
Arrival time of 1 m tsunami

[From Wakayama Prefecture HPI]

- There are three earthquakes, the Tokai, Tonankai, and Nankai that happen together at the same time (magnitude 8.7) in the Nankai trough about every 90 to 150 years.



- About the magnitude 9.1 Nankai Trough Giant Earthquake There has been no record of over magnitude 9 in the Nankai trough yet. But if it happens, there will be very big damage.

(\* This document uses the western Magnitude scale of earthquake movement, but Japan usually uses the Japanese 'Shindo' scale to measure earthquakes.)

There are tsunami hazard maps at city halls and town halls. Please check it beforehand and see where you need to evacuate to.

## When an earthquake happens...

### Crawl under a table or desk

Stay under a strong table or desk to protect your head. Hold the desk legs tightly. Be aware of any objects falling or collapsing from above.



### Open the door or window

When buildings collapse, sometimes doors and windows become stuck. Open doors and windows right away so you have a way to get out.

### Turn off heaters, stoves, etc. as the shaking subsides

Turn off any heaters, etc., but only after the shaking stops.

### Do not go outside at first

Window glass or sign boards may fall down. It is dangerous to go outside at first. Brick walls also collapse.

### Stay away from cliffs

Steep mountain slopes can collapse, so stay away from them.

### Evacuate to somewhere far from the ocean

Tsunamis may come. Evacuate to high ground or as far as possible from the ocean.

### Park your car on the left side of the road

It is very dangerous to evacuate in a car. If you are driving, park on the left side of the road carefully and turn off the engine. Leave the key in the car.



# In case of a typhoon and heavy rain

It rains a lot during the rainy season from June to July and when there is a typhoon. The water level in the river increases and overflows. In the mountains you must be careful about landslides. In Japan typhoons happen a lot from August to October. As the wind becomes strong, objects are blown around and they can be very dangerous.

## Before a typhoon or heavy rain

- Check the house. Repair any damaged parts.
- Bring all the objects outside your house inside or secure them so that they are not blown away.
- Clean your drainage and gutters so water can flow.
  - \* drainage : it's where wastewater flows \* gutter : it's where rainwater flows and attached to the roof.
- Put your furniture and electric appliances on a high place if water might come in your house.
- Sometimes electricity can go out, Prepare by having a handy flashlight and a portable radio.

## When the rain or wind is strong

- ▶ Outside the house
  - Trees can fall down, Objects can be blown away. Protect your head with bags, etc.
  - Areas near the sea, river and mountains are dangerous. Never go near there during a typhoon.
  - Enter a nearby building and go to a safe place.
  - Do not go outside when rain or wind is strong.
  - Close the shutters for windows, doors, and curtains.
- ▶ Inside the house



## Get information

When a typhoon is coming, you should get information from weather reports, etc. Prepare in advance for evacuating. When an evacuation warning or evacuation advisory is issued, evacuate safely and be careful with dangerous places and evacuate immediately. If you are unable to leave the building you are in, take refuge in the most secure part. (If you are outside, evacuate to a safe place in a nearby building.)

Alert Level	New Evacuation Information		Previous System of Evacuation Information
<b>5</b> Disaster Occurrence Class	<b>Emergency Safety Measures</b> #1		<b>Disaster occurrence information</b> (Issued once occurrence is confirmed)
~<Be sure to evacuate by Alert Level 4!>~			
<b>4</b> High risk of disaster	<b>Evacuation Instruction</b> #2		• Evacuation Instruction (emergency) • Evacuation Recommendation
<b>3</b> Risk of disaster	<b>Evacuation of the Elderly, Etc.</b> #3		• Advisory to prepare for evacuation and start evacuating elderly and other persons requiring special care
<b>2</b> Weather worsening	Heavy Rain, Flood, or Storm Surge Advisories (Japan Meteorological Agency)		• Heavy Rain, Flood, or Storm Surge Advisories (Japan Meteorological Agency)
<b>1</b> Risk of weather worsening	Probability of Warnings (Japan Meteorological Agency)		• Probability of Warnings (Japan Meteorological Agency)

Please scan the QR code below for more information



P1



P2

From the Cabinet Office website [http://www.bousai.go.jp/oukyu/hinanjouhou/r3\\_hinanjouhou\\_guideline/](http://www.bousai.go.jp/oukyu/hinanjouhou/r3_hinanjouhou_guideline/)

# In case of evacuation

## Important points when you evacuate

- Stay safe and escape to a safe place quickly.
- Keep the things you carry to a minimum.
- Do not use a car when you evacuate from tsunami.
- Help the elderly, sick or injured people to evacuate.

<b>Emergency evacuation area</b>	This is a place where you can evacuate temporarily when there is a natural disaster. These can be school grounds, parks, high ground, etc.
<b>Evacuation shelter</b>	You can stay in the evacuation shelter when it is dangerous to stay in the house because of the earthquake or typhoon, and it is difficult to live in the house because the gas, electricity and water has stopped. You can get commodities and necessary information here. Foreign residents can also use these shelters.



## Things you should do at evacuation shelter

- Fill out your personal details at the reception. This is to help other people know where you are.
- Get the food and water as needed.
- There is a lot of information at the evacuation shelter. If you can translate, please help out people who need your help to communicate.
- Anyone who lives in their own house with no access to gas, electricity, water, etc. can receive water and food at the evacuation shelter.
- You can use portable toilets.
- Evacuation shelter is a place where all people who have evacuated can stay. So, follow the instructions of the supervisor and help one another.



## Useful smart phone applications for evacuation

Information transmission application for foreign people [Safety tips] (Japan Tourism Agency)  
This application will inform you of emergency earthquake reports and tsunami report in different languages.

You can access evacuation plans or other contents such as how to obtain necessary information. This is useful for foreign travelers and foreign residents in Japan.

Download



For Android



For iPhone



## To get information

The information is very important when a disaster happens. NHK broadcasts the latest information on TV, radio, internet, etc.

### Emergency earthquake report

You hear a special chime sound on TV, radio and mobile phone just before a big earthquake. When you hear the sound, stay safe, stay calm, and evacuate to a safe place.

#### TV

The latest information is broadcasted by the news at the time of disaster. Information in Wakayama is broadcasted through datacasting, etc.

#### Radio

Battery-powered radios are useful when there is no electricity. You can also listen to NHK radio broadcast on the internet.



NHKネットラジオ

らじる★らじる

You can access the internet through the computer or smartphone, and listen to NHK programs.

● Computer

<http://www.nhk.jp/netradio>

● Smartphone



● Apps



#### Internet

Japan Broadcasting Corporation Wakayama Station Homepage carries detailed information in Wakayama.

● Japan Broadcasting Corporation  
Wakayama Station Homepage  
<http://www.nhk.or.jp/wakayama/>



### International broadcasting

NHK World is broadcasting news to the world in multi-language on TV, radio and the internet.

● NHK World Homepage

● Apps



For Android



For iPhone



## Japanese used at disasters

しんげん 震源 : Shingen	Hypocenter
よしん 余震 : Yoshin	Aftershock
だんすい 断水 : Dansui	Cuts in water supply
きゅうすい 給水 : Kyusui	Water supply
あんげかくにん 安否確認 : Anpi kakunin	Confirming if someone is safe
ひじょうしょく 非常食 : Hijyoshoku	Emergency food
たきだし 炊き出し : Takidashi	Distribution of food after an emergency
ひなん 避難する : Hinan suru	Evacuate
ふつう 不通 : Futsu	Cut off, stoppage, service interruption
たかだい 高台 : Takadai	High ground
ひさいしや ひさいち 被災者・被災地 : Hisaisha・Hisaichi	Victim・Location of disaster
とうかい 倒壊する : Tokai suru	Collapse, fall down
うかい 迂回する : Ukai suru	Detour
おきゅうそち 応急措置 : Okyu sochi	First-aid treatment
びちく 備蓄 : Bichiku	Emergency Supplies/Emergency Storage

- Multi-language sound translation smart phone application VoiceTra (National Institute of Information and Communications Technology)  
This translation application supports 31 languages such as Japanese, English, Chinese, Korean, etc.

Download



For Android



For iPhone



## Keep these items near you before evacuation

### Supplies

- Flashlight
- Lighter, matches
- Portable radio
- Batteries, recharger
- Medicine, medical supplies, masks
- Tissues
- Plastic bags
- Can opener, bottle opener

### Food

- Drinking water
- Food

### Other everyday items

- Clothes, underwear
- Towels
- Work glove, gloves
- Rainwear, umbrella
- Safety gear, such as helmet, life jacket, etc.

### Valuables

- Passport
- Residence card
- Health insurance card
- Money, etc.



### Prepare beforehand

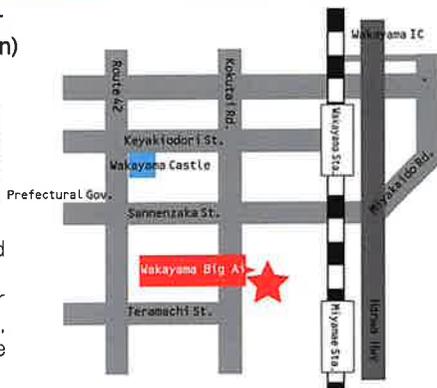
Attach furniture to the wall. It will help save your life.



## Guide Map to Wakayama International Exchange Center

### Wakayama International Exchange Center (Wakayama International Exchange Association)

Wakayama Big Ai Bldg. 8F 2-1-2 Tebira,  
Wakayama city 640-8319  
T E L : 073-435-5240  
E-mail: wa-world@wixas.or.jp  
U R L : <http://www.wak-kokusai.jp/>



< Hours of advice for foreign residents >  
10 a.m. to 4 p.m. (Closed on Wednesdays and national holidays)  
Wakayama International Exchange Center provides information in English, Chinese, Filipino, and Vietnamese. Contact us when you are seeking advice.

## Disaster Prevention Memo

Name \_\_\_\_\_ Nationality \_\_\_\_\_

Blood Type \_\_\_\_\_ Passport No. \_\_\_\_\_

Residence Card No. \_\_\_\_\_ Date of Birth \_\_\_\_\_

Address in Japan \_\_\_\_\_

Telephone No. \_\_\_\_\_

Country/Region Contact No. \_\_\_\_\_

Embassy or consulate telephone No. \_\_\_\_\_

● Nearest emergency evacuation area

Name of place

\_\_\_\_\_

Map