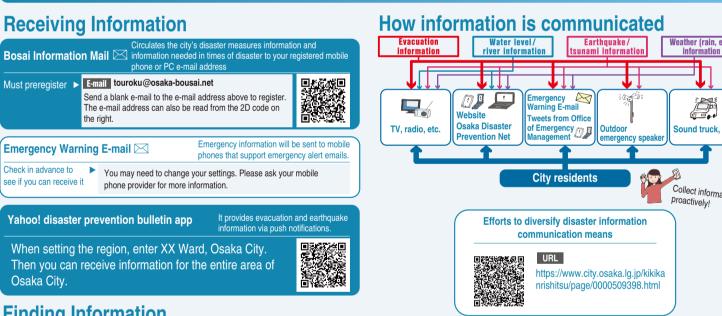


### Office, Osaka Prefecture 24-hour total rainfall: 724 mm/hour Probable maximum precipitation shikawa Rive Jan. 2021 Maximum rainfall: 195.5 mm/hour Likelihood: 1/more than 1,000 years) 24-hour total rainfall: 737 mm/hour Nishi Osaka Flood Control Office. Probable maximum precipitation Kanzaki River 06-6541-7771 Jan. 2020 Maximum rainfall: 81.1 mm/hour Likelihood: 1/more than 1,000 years) Osaka Prefecture 24-hour total rainfall: 1,150 mm/hour Probable maximum precipitatio Ikeda Civil Engineering Office. Tenjiku River Jan. 2020 Maximum rainfall: 142.6 mm/hour (Likelihood: 1/more than 1,000 years) Osaka Prefecture keda Civil Engineering Office, Osaka 24-hour total rainfall: 1,150 mm/hou Probable maximum precipitatio Taka River | Ibaraki Civil Engineering Office, Osaka | 072-627-1121 Maximum rainfall: 145.4 mm/hour (Likelihood: 1/more than 1,000 years) 24-hour total rainfall: 776 mm/hour Ibaraki Civil Engineering Office, Probable maximum precipitation Ai River 072-627-1121 Maximum rainfall: 189 mm/hour Osaka Prefecture 24-hour total rainfall: 683 mm/hour 06-6962-7661 Maximum rainfall: 138.1 mm/hour Control Office, Osaka Prefecture Scenario in which the central pressure is 910 hPa (Muroto Typhoon level), radius of Person in charge of emergency naximum cyclostrophic wind speed is 75 km (Isewan Typhoon level), traveling speed is Aug. 2020 | management, Port & Harbor Bureau, | 0725-21-7246 High tide 73 km/h, and the path is the same as that of Muroto Typhoon Osaka City Coordination Section, Sewe 24-hour total rainfall: 549 mm/hour Inland flooding Mar. 2021 Department, Public Works Bureau, 06-6615-7594 (Likelihood: about 1/1,000 years) Maximum rainfall: 147 mm/hour Osaka City Scenario in which an earthquake with a magnitude of around 8.6 occurs, causing flooding Tonankai and Nankai 06-6615-7782 Mar. 2004 due to a tsunami, and tide gates (those open at night), etc. did not close (high tide earthquake and tsunami Disaster Prevention Planning Scenario in which an earthquake with a magnitude of around 9.1 occurs, causing flooding Nankai Trough mega due to a maximum class tsunami (breakwater and opening/closing of tidal barriers taken 06-6944-6487 Division, Office of Emergency earthquake and tsunami into account) (high tide assumed) Management, Osaka Prefecture Creator of this pamphlet: Office of Emergency Management, Osaka City (Tel: 06-6208-7384)

## **Transmission of information**

nttps://www.city.osaka.lg.jp/kikikanrishitsu/

This pamphlet is also available for view on the official website of the Office of Emergency Management, Osaka City.



## **Finding Information**

If outdoor emergency speaker broadcasts could not be heard: call the Government Disaster Wireless Telephone Service (06-6210-3899), charges apply.

● In times of disaster, switch your TV to NHK and press the "d" button for data broadcasting to view evacuation advisories, if evacuation shelters are open, and other information.



URL https://www.web171.jp

URL http://dengon.docomo.ne.jp

NTT docomo





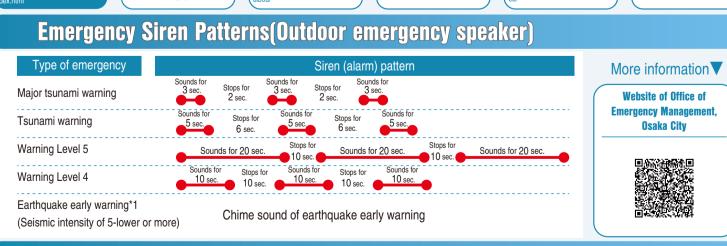








Mar. 2021



## **Safety Confirmation Message Services**



Disaster Emergency Message Board It can be accessed if internet connection is available in times of disaster. J-anpi for one-stop searches of all Web171(NTT) SoftBank / Y!mobile



It enables the one-stop search of all safety status information posted on the disaster message boards of communication carriers communication carriers.



Dates you can try out the services

1st and 15th of every month (24 hours).

Jan. 1 to 3 (24 hours

(Jan. 15, 9 am to Jan. 21, 5 pm)

**Disaster Preparedness Week** 

(Aug. 30, 9 am to Sep. 5, 5 pm)

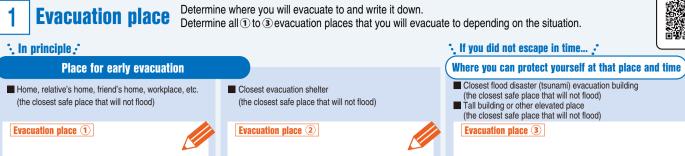
ster Preparedness and Volunteer Week

## What is My Timeline?

My Timeline provides an opportunity to prepare for wind and flood disasters, such as heavy rains and typhoons, and plan in advance how to escape using your own evacuation route while giving due consideration to the circumstances or evacuation behavior of each family member. Creating a schedule that summarizes who does what and when will help you act in an appropriate manner in the event of an emergency.

## Family Evacuation Plan When heavy rain could cause river flooding

Determine where you will evacuate to and write it down.



| Fill in when you will start evacuating and when you will do what. what to do until you start evacuating ▶ Determine when you will take the actions you identified in 2. ▶ Write down when you will evacuate **Collect information** 11111111111 Check weather and evacuation information Fill in When will you evacuate? When will you do what? is forecasted Prepare for evacuation Ex: Double check emergency grab-and-go bag (mom Warning Level Early advisory Check emergency kit and stockpile information Buy necessary items Begin moving household items to 2F, etc. Ex: Double check evacuation shelter (everyone Warning Level **2** Inspect area around the house Flood advisory Put away items that may blow away Heavy rain advisory Check window locks Charge mobile phone Check opening of evacuation shelter Contact and call out Likely evacuation place at this stage

Call out to neighbors To evacuate ☐ To evacuate together Contact To evacuate To evacuate togethe Contact Communicate with family (If you're not together) Contact the person who will assist your evacuation

(If you cannot evacuate by yourself

**Contact method** 

epending on the situation of the disaster, information may not necessarily be released in this order. After evacuating, inform your family and other important people that you have evacuated safely Family meeting place

during

It is extremely dangerous to leave or relocate from your evacuation place before the evacuation information is lifted.

 $\emph{N}$ aming Level  ${f 3}$ 

Evacuation

of the elderly

from a

dangerous area!

Ex: Evacuate to XX Elementary School (dad and children

Evacuation place 1,2

**Evacuation place** (

Likely evacuation place at this stage

If evacuating to an evacuation shelter, check if it is open

Driving or evacuating in

The strength of the wind affects

strong wind is dangerous

evacuation. When strong wind gusts

are blowing due to a typhoon, etc., a

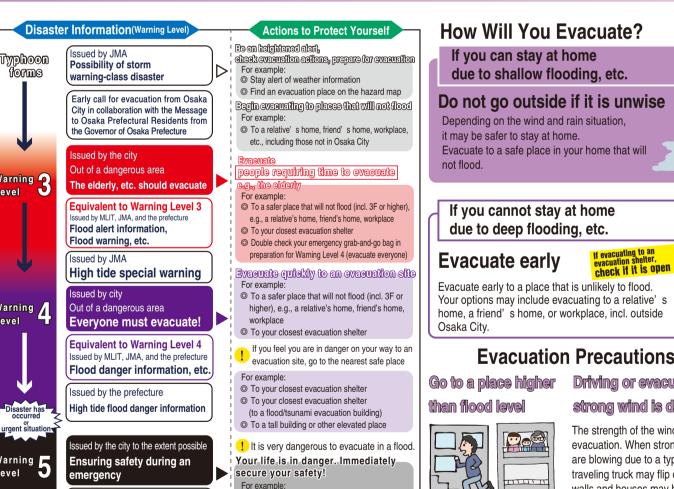
traveling truck may flip over, or block

Remain at the safe place

until the tsunami warning

is canceled.

## When a record typhoon is approaching(High tide)



Equivalent to Warning Level 5 To your closest evacuation shelter sued by MLIT, JMA, and the prefecture To your closest evacuation shelter Flood inundation information. (to a flood/tsunami evacuation building) Heavy rain emergency warning, etc. ○ To a tall building or other elevated place

# walls and houses may begin to

\* Depending on the situation of the river(s) and the disaster, information may not necessarily be released in this order

Upon feeling massive or

slow earthquake tremors,

or river as soon as

nossible.

move away from the beach

**Evacuation Precautions** 

**Evacuation Precautions** 

## When a tsunami strikes

It is necessary to respond flexibly to the situation.

## **How Will You Evacuate?** Move to an inundation-free place as

soon as possible. Upon feeling earthquake tremors or receiving a tsunami warning. evacuate to an inundation-free place as soon as possible. Outside the assumed flood inundation zone

©Safe, inundation-free floors of the nearest tsunami evacuation building ©Safe, inundation-free floors of the nearest tall building or on

Tsunami (higher than 1 m) caused by a massive Nankai Trough earthquake is expected to reach Osaka City within 110 minutes after the occurrence of the earthquake.

## **Tsunami Information**

L	Estimated maximum tsunami height		Warning name	Your responses	
Г	Quantitative expression (indication)		Qualitative expression		Tour responses
	Over 10 m			Major tsunami	
	10 m	5m <height≦10m< th=""><th>Huge</th><th></th><th>●As quickly and high as possible</th></height≦10m<>	Huge		●As quickly and high as possible
	5 m	3m <height≦5m< th=""><th></th><th>(Emergency warming)</th><th></th></height≦5m<>		(Emergency warming)	
	3 m	1m <height≦3m< th=""><th>High</th><th>Tsunami warning</th><th><ul> <li>If you did not escape in time, run and climb up a tall building or other elevated place</li> </ul></th></height≦3m<>	High	Tsunami warning	<ul> <li>If you did not escape in time, run and climb up a tall building or other elevated place</li> </ul>
	1 m	20cm≦Height≦1m	N/A	Tsunami advisory	●Stay alert of tsunami information

Ward Save

rote

P

Level

Level

Warning /

example

# 个大阪市 Osaka City Flood Hazard Map English

## **How to Use this Hazard Map**



How to Use

**Check the disaster risks** for your neighborhood

Use this hazard map to check risks, including which river will cause flooding and whether you will be affected by high tide in times of heavy rain or typhoon, and whether your area is subject to tsunami damage following an earthquake.

## How to Use Z

## Determine when and where to

evacuate to for each type of disaster

Your evacuation actions to protect yourself will be different depending on the situation of the disaster and the situation you are in.

Determine when and where you will evacuate to for protecting yourself from each type of disaster: heavy rain; typhoon; and tsunami



### Check your daily preparedness by making use of the information in here and My Timeline to protect yourself



A variety of information is released in times of disaster. Take daily preparedness measures by making use of the information in here which will facilitate immediate actions in an emergency, as well as My Timeline which you can fill out.

## **Evacuation and meeting place**

Determine and write down the evacuation and meeting places by type of disaster.



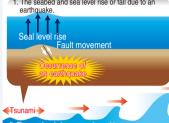
### What kinds of natural disasters happen in Osaka? In Osaka, inundation is assumed by river administrators (Kinki Regional Development Bureau, Osaka Prefecture, and Osaka City) in the event of heavy rains or when a tsunami occurs because of an earthquake. Specifically, river flooding, inland flooding, tsunami inundation, and a high tide are

assumed to occur Long-duration heavy rainfall events can lead to levee breaks and inundation due to increased river water

If it rains heavily and the river level rises beyond the drainage



Seismogenic faulting that has occurred in the seabed makes the The waves will then spread in every direction, forming a tsunami.



A storm surge is a phenomenon where the sea level (tide leve becomes higher than the normal tide level due to the approach of a typhoon or low atmospheric pressure. The main causes of the abnorma rise in tide level are the low atmospheric pressure pulling water from the sea surface and a storm's winds pushing water onshore.

High waves from the offing

It is dangerous to go outside

outside. Wait indoors.

in torrential rain or to flooded areas

If the flood risk is high, do not go walk

As a rule, evacuate on foot

begin evacuating earlier, e.g., the

If you need to evacuate by car,

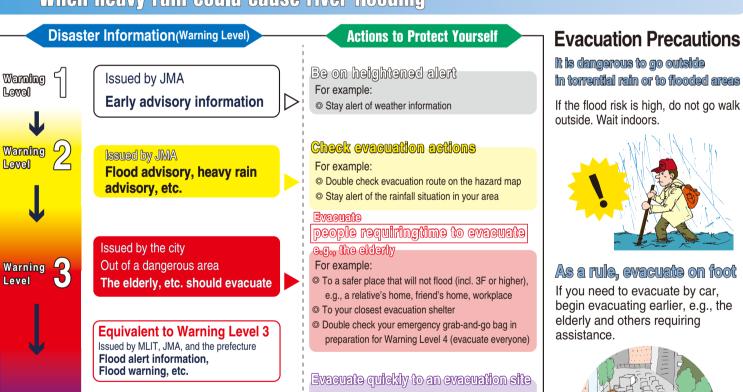
elderly and others requiring

assistance

## Source: Official website of the Japan Meteorological Agenc

	Emergency contact information			
uminoe Ward Office	06-6682-9974	Road (Suminoe Construction and Maintenance Office)	06-6686-0434	
uminoe Public Health and Welfare Center	06-6682-9882	Electricity (Kansai Electric Power (power outage))	0800-777-308	
olice Station	110	Gas leak (Osaka Gas)	0120-0-19424	
ire Department	119	Telephone trouble (NTT)	113	
ewer (Suminoe Sewer System Maintenance Center)	06-6686-1909	When using a fiber optic telephone or mobile phone	0120-444113	
/ater Service (Western Water Service Center)	06-6531-9211			

## When heavy rain could cause river flooding



For example: To a safer place that will not flood (incl. 3F or higher), e.g., a relative's home, friend's home, workplace

To your closest evacuation shelter 🗽 If you feel you are in danger on your way to an

evacuation site, go to the nearest safe place For example: To your closest evacuation shelter

(to a flood/tsunami evacuation building) It is very dangerous to evacuate in a flood.

secure your safety! To your closest evacuation shelter

# Your life is in danger. Immediately

To your closest evacuation shelter (to a flood/tsunami evacuation building)

© To a tall building or other elevated place

Do not use flooded roads The water will be muddy, and you will have a hard time seeing where you

are going. It is dangerous as you can fall into a manhole, drain, or other



# \* Depending on the situation of the river(s) and the disaster, information may not necessarily be released in this order.

If you can stay at home due to shallow flooding, low risk of house collapse, etc.

ssued by city

Out of a dangerous area

Everyone must evacuate!

**Equivalent to Warning Level 4** 

Flood danger information, etc.

sued by the city to the extent possible

Ensuring safety during an

Equivalent to Warning Level 5

Heavy rain emergency warning, etc.

Flood inundation information,

ssued by MLIT, JMA, and the prefecture

Issued by MLIT, JMA, and the prefecture

Do not go outside if it is unwise Depending on the wind and rain situation, it may be safer to stay at home.

It is necessary to respond flexibly to the situation.

**How Will You Evacuate?** 

Evacuate to a safe place in your home that will If you cannot stay at home

due to deep flooding, high risk of house collapse, etc.

Evacuate early

check if it is open Evacuate early to a place that is unlikely to flood. Your options may include evacuating to a relative's home, a friend's home, or workplace.

## About tsunami evacuation buildings

secure tsunami evacuation buildings, which will serve as temporary or emergency facilities for protecting people's lives from river flooding and tsunami. Know where your closest tsunami evacuation buildings are in case of an emergency.

Osaka City is working to



**不大阪市** 津波避難ビル Tsunami Evacuation Bldg. 海啸避难楼/해일 대피 빌딩 避難可能時間 [24時間]

## \* Disaster Emergency Message Boards become available when a major disaster occurs. For service details, please see the explanation provided by NTT and the respective mobile phone companies.