

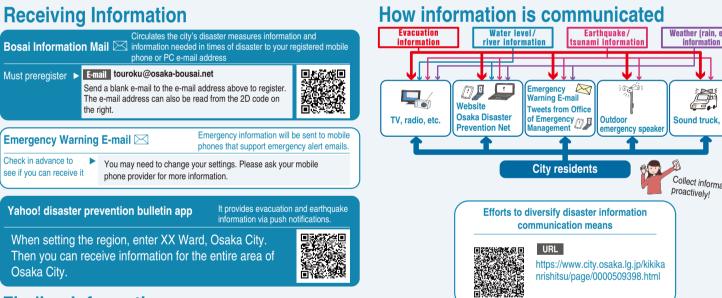
## 072-843-2861 072-971-1381 Nov. 2019 Likelihood: 1/more than 1,000 years) Nishiyoke Rivers Maximum rainfall: 102.5 mm/hour ondabayashi Civil Engineering Office, Osaka Prefecture 24-hour total rainfall: 724 mm/hour Probable maximum precipitation shikawa Rive Jan. 2021 Maximum rainfall: 195.5 mm/hour 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 Likelihood: 1/more than 1.000 years) Maximum rainfall: 81.1 mm/hour Osaka Prefecture 24-hour total rainfall: 1,150 mm/hour Probable maximum precipitatio Ikeda Civil Engineering Office. Tenjiku River 072-752-4111 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 24-hour total rainfall: 549 mm/hour Inland flooding 06-6615-7594 Mar. 2021 Department, Public Works Bureau, (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) This pamphlet is also available for view on the official website of the Office of Emergency Management, Osaka City. nttps://www.city.osaka.lg.jp/kikikanrishitsu/



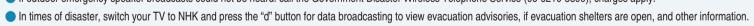
Mar. 2021

# **Transmission of information**



# Finding Information

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





NTT docomo

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

explanation provided by NTT and the respective mobile phone companies.











| Major tsunami warning  Sounds for 3 sec. Stops for 2 sec.  Sounds for 2 sec. Stops for 5 sec. Stops for 6 sec.  Sounds for 5 sec. Sounds for 5 sec. Sounds for 5 sec. Stops for 6 sec.  Sounds for 5 sec. Sounds for 5 sec. Stops for 6 sec.  Sounds for 5 sec. Sounds for 5 sec. Stops for 6 sec. Stops for 5 sec | nformation                       |
|--|----------------------------------|
| Tsunami warning  5 sec. Stops for 6 sec. Stops for 6 sec. Stops for 7 Sounds for 20 sec. Stops for Sounds for 20 sec.  | te of Office of                  |
| VVAILIBLE LEVEL 3 Solings for 20 sec Solings for 20 sec Solings for 20 sec   | Emergency Management, Osaka City |
| 10 sec. 10 sec.  | TVANDARUA EST                    |
| Warning Level 4  Sounds for Stops for 10 sec.  Sounds for Stops for 10 sec.  Sounds for Stops for 10 sec.  10 sec.  Sounds for Stops for 10 sec.   | 100 HERO 11                      |

# **Safety Confirmation Message Services**



\* Disaster Emergency Message Boards become available when a major disaster occurs. For service details, please see the

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 safety status information Web171(NTT) URL https://www.web171.jp



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

URL https://anpi.jp/

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)

aster 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. 1 Evacuation place Determine where you will evacuate to and write it down.

Determine all 1 to 3 evacuation places that you will evacuate to depending on the situation.

: In principle: • If you did not escape in time... • Where you can protect yourself at that place and time Place for early evacuation Closest flood disaster (tsunami) evacuation building Home, relative's home, friend's home, workplace, etc. Closest evacuation shelte (the closest safe place that will not flood) (the closest safe place that will not flood) (the closest safe place that will not flood) ■ Tall building or other elevated place (the closest safe place that will not flood)

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** 1111111111 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. Warning Level **2** Ex: Double check evacuation shelter (everyone 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  $\emph{N}$ aming Level  $rak{3}$ To evacuate ☐ To evacuate together Evacuation of the elderly from a Contact dangerous area! 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** 

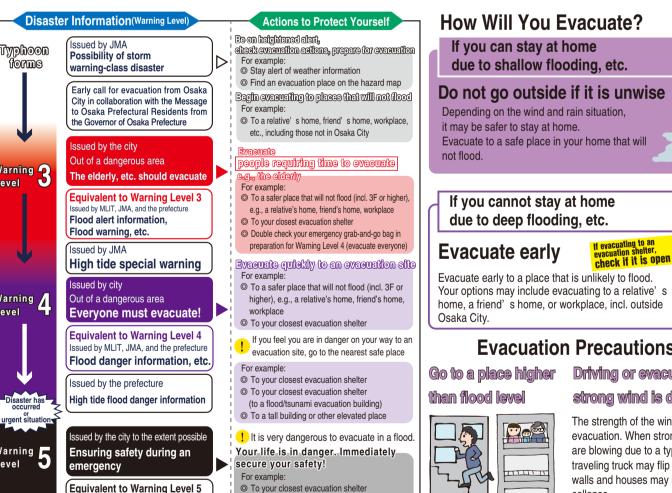
during

Ex: Evacuate to XX Elementary School (dad and children Likely evacuation place at this stage 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

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

# When a record typhoon is approaching(High tide)



(to a flood/tsunami evacuation building)

○ To a tall building or other elevated place

due to deep flooding, etc. If evacuating to an evacuation shelter, check if it is open **Evacuate early** 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, incl. outside Osaka City.

# **Evacuation Precautions** Driving or evacuating in

**Evacuation Precautions** 

strong wind is dangerous The strength of the wind affects evacuation. When strong wind gusts are blowing due to a typhoon, etc., a traveling truck may flip over, or block 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

move away from the beach



# When a tsunami strikes

sued by MLIT, JMA, and the prefecture

Heavy rain emergency warning, etc.

Flood inundation information.

It is necessary to respond flexibly to the situation.

**Tsunami Information** 

Over 10 m

**10 m** 5m<Height≦10m

**5 m** 3m<Height≦5m

# **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.

Huge

Estimated maximum tsunami height

Quantitative expression (indication) Qualitative express

As quickly and high as possible

nossible.



is canceled.



Remain at the safe place

until the tsunami warning

# Your responses

sumivoshi Ward Save

rotect

P

Higashisumiyoshi Ward Office

Sewer (Hirano Sewer System Maintenance Center)

(Yata Branch)

Police Station

Fire Departmen

Level

Level

Warning

Warning /

example

Evacuation place 1,0

**Evacuation place** (

# 个大阪市 Osaka City Flood Hazard Map English

How to Use

How to Use 🚄

you are in.

and tsunami

How to Use 3

# How to Use this Hazard Map

Use this hazard map to check risks,

including which river will cause flooding

and whether you will be affected by high

whether your area is subject to tsunami

**Determine when and where to** 

evacuate to for each type of disaster

damage following an earthquake.

Your evacuation actions to protect yourself will be different

depending on the situation of the disaster and the situation

Determine when and where you will evacuate to for protect-

ing yourself from each type of disaster: heavy rain; typhoon;

tide in times of heavy rain or typhoon, and

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

What kinds of natural disasters happen in Osaka?

# **Check the disaster risks** for your neighborhood



If it rains heavily and the river level rises beyond the drainage capacity of a waterway or a sewer system, rainwater will overflow



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



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.

**Heavy rain** 

Higashisumiyoshi Ward Public Health and Welfare Center 06-4399-9882

advisory, etc.

Issued by the city

Out of a dangerous area

Flood alert information,

Out of a dangerous area

Flood warning, etc.

ssued by city

The elderly, etc. should evacuate

**Equivalent to Warning Level 3** 

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

Issued by MLIT, JMA, and the prefecture

119

06-6705-0342

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 yphoon 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.

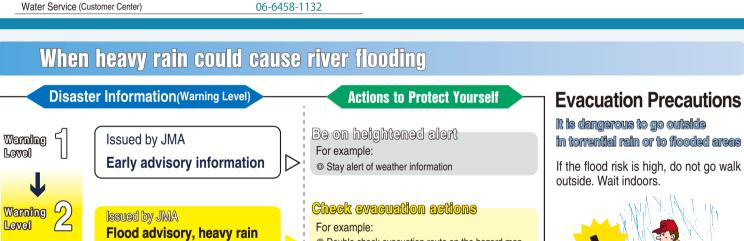
High waves from the offing

Source: Official website of the Japan Meteorological Agency

## 06-4399-9909 06-6692-1341

Emergency contact information

| Road (Hirano Construction and Maintenance Office)             | 06-6567-6495  |
|---|---------------|
| Electricity (common to all branches of Kansai Electric Power) | 06-6947-7981  |
| (Kansai Electric Power (power outage))                        | 0800-777-8810 |
| Gas leak (Osaka Gas)  | 0120-0-19424  |
| Telephone trouble (NTT)                                       | 113           |
| When using a fiber optic telephone or mobile phone            | 0120-444113   |
|   |               |
|   |               |



Double check evacuation route on the hazard map

eople requiringtime to evacuate

To a safer place that will not flood (incl. 3F or higher)

e.g., a relative's home, friend's home, workplace

Double check your emergency grab-and-go bag in

preparation for Warning Level 4 (evacuate everyone)

Evacuate quickly to an evacuation site

To a safer place that will not flood (incl. 3F or higher),

e.g., a relative's home, friend's home, workplace

🗽 If you feel you are in danger on your way to an

evacuation site, go to the nearest safe place

To your closest evacuation shelter

To your closest evacuation shelter

To your closest evacuation shelter

(to a flood/tsunami evacuation building)

secure your safety!

To your closest evacuation shelter

To your closest evacuation shelter

(to a flood/tsunami evacuation building)

© To a tall building or other elevated place

For example:

© To a tall building or other elevated place

It is very dangerous to evacuate in a flood.

Your life is in danger. Immediately

Stay alert of the rainfall situation in your area

e.a.. the elderly

For example:

For example:

For example:

# As a rule, evacuate on foot If you need to evacuate by car. begin evacuating earlier, e.g., the elderly and others requiring





# 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



About flood disaster evacuation buildings

\* Depending on the situation of the river(s) and the disaster, information may not necessarily be released in this order. It is necessary to respond flexibly to the situation. **How Will You Evacuate?** 

# If you can stay at home due to shallow flooding, low risk of house collapse, etc. Do not go outside if it is unwise

Depending on the wind and rain situation, it may be safer to stay at home.

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

secure flood disaster emergency facilities for

Osaka City is working to

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

# **Image**

**不大阪市** すいがいじ ひなん

# 水害時避難ビル Flood Disaster Evacuation Bldg. 水灾时避难楼/수해시 대피 빌딩

避難可能時間 「24時間」

## ●If you did not escape in time, run and climb up a tall 「sunami warnin **3 m** 1m<Height≦3m home, a friend's home, or workplace. N/A Stay alert of tsunami information 20cm≦Height≦1m

Warning name

warning