Nishio City Storm Surge Hazard Map

Rivers and Harbor Section. Construction Department. Nishio City TEL: 0563-65-2151 Crisis Management Section, Crisis Management Office, Nishio City

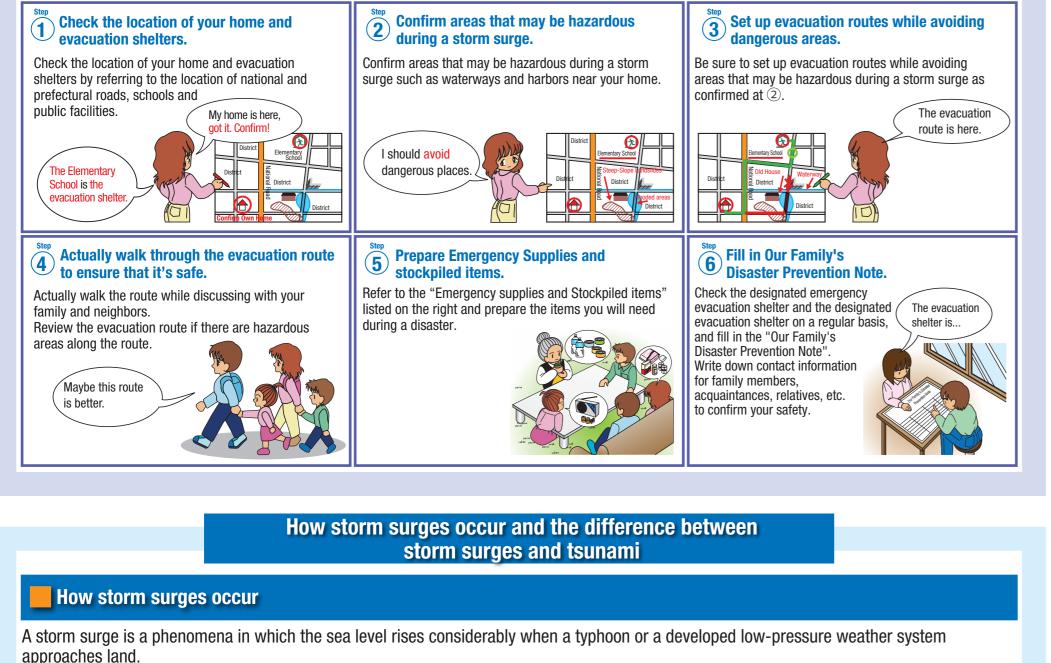
How to use the hazard map

The storm surge hazard map provides information such as areas expected to be flooded and evacuation shelters in the event of a storm surge. Be sure to check the danger level of your local area, where to obtain information, and evacuation tips as a matter of normal practice, and if there is a risk of a disaster occurring, evacuate immediately from the danger zone.

Discuss with your family regularly

It is important to prepare before the occurrence of a disaster such as a storm surge or flooding in order to take appropriate action without panicking when it is necessary.

It is important to discuss with your family and neighbors how to prepare for disasters and what to do in the event of a disaster.



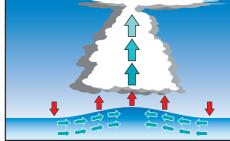
When the tide level rises due to a storm surge and high waves surge towards the coast, seawater may cross over embankments to cause flood damage. Areas particularly vulnerable to damage from storm surges are areas of land at sea level near the coast. the inner area of bays. and beaches with deep submarine topography.

There are two main mechanisms that cause storm surge as shown below. The sea level is sucked up by a low pressure weather system and wind blows the sea towards land.

Our Family's Disaster Prevention Note / Emergency Supplies / Stockpiled Items				
Meeting place				
By disaster	Meeting place	Evacuation site (first choice)	Evacuation site (second choice)	
Family or other co	ontact information			
Full name Phone number			*Relatives and acquaintances outside the affected area should also be listed. Email address	
Emergency Suppli	ies (example)	Stockpiled i	items	
 Emergency bag Food items Hard biscuits and crackers Drinkable water Clothing Jackets Underwear Socks Blankets Household items Flashlight Portable radio Tissue paper Work gloves, gloves Contact lens Dentures Sanitary items Sanitary items Towels Toilet paper Mask Disposable diapers Sanitary pads Portable toilet Thermometer Disinfectant First-aid kit Medicine, medication notebook 	X X	Prepare at least 3-days' in your home or your car. Stockpiled items (e Drinkable water (about Food (rice, instant noo Fuel (portable gas stor Blanket, towel blanket Disposable chopsticks Disposable chopsticks Cling film, aluminum f Wet tissues, toilet pap Sanitary pads Ethanol disinfectant Protective footwear Blue sheet Newspapers Disposable hand warm Portable toilet Spare glasses, hearing Tools (rope, shovel, eth Rolling stock " is a met and drinkable water b replenishing what you hav to constantly maintain as items. This prevents was	worth of supplies (1-week's worth if possible) and store them xamples) t 3 liters per person per day) dles, retort pouch food, chocolate, etc.) we, spare gas cylinder, lantern, etc.) t, sleeping bag a, paper plates, paper cups, etc. oil er ners g aid, walking stick c.) k method hod of consuming stockpiled food before they expire and then we consumed with new items a fixed amount of stocked ting stockpiled items by e close to expiry on a ensures that items a tixed amount of stocked ting stockpiled items by e close to expiry on a ensures that items e they have not	

Sea level is sucked up by a drop in atmospheric pressure

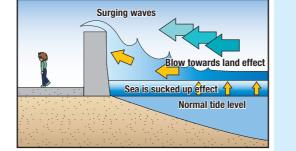
The center of a typhoon or low pressure weather system has an atmospheric pressure lower than the area surrounding it. Therefore. air at the surrounding area, where atmospheric pressure is high pushes against the sea while air at the center sucks the sea level upwards. This results in the sea level rising at the center of the typhoon or low pressure weather system.



blow towards coastal areas due to a typhoon or low pressure weather system, sea water is blown into coastal areas so the sea level rises near the coast.

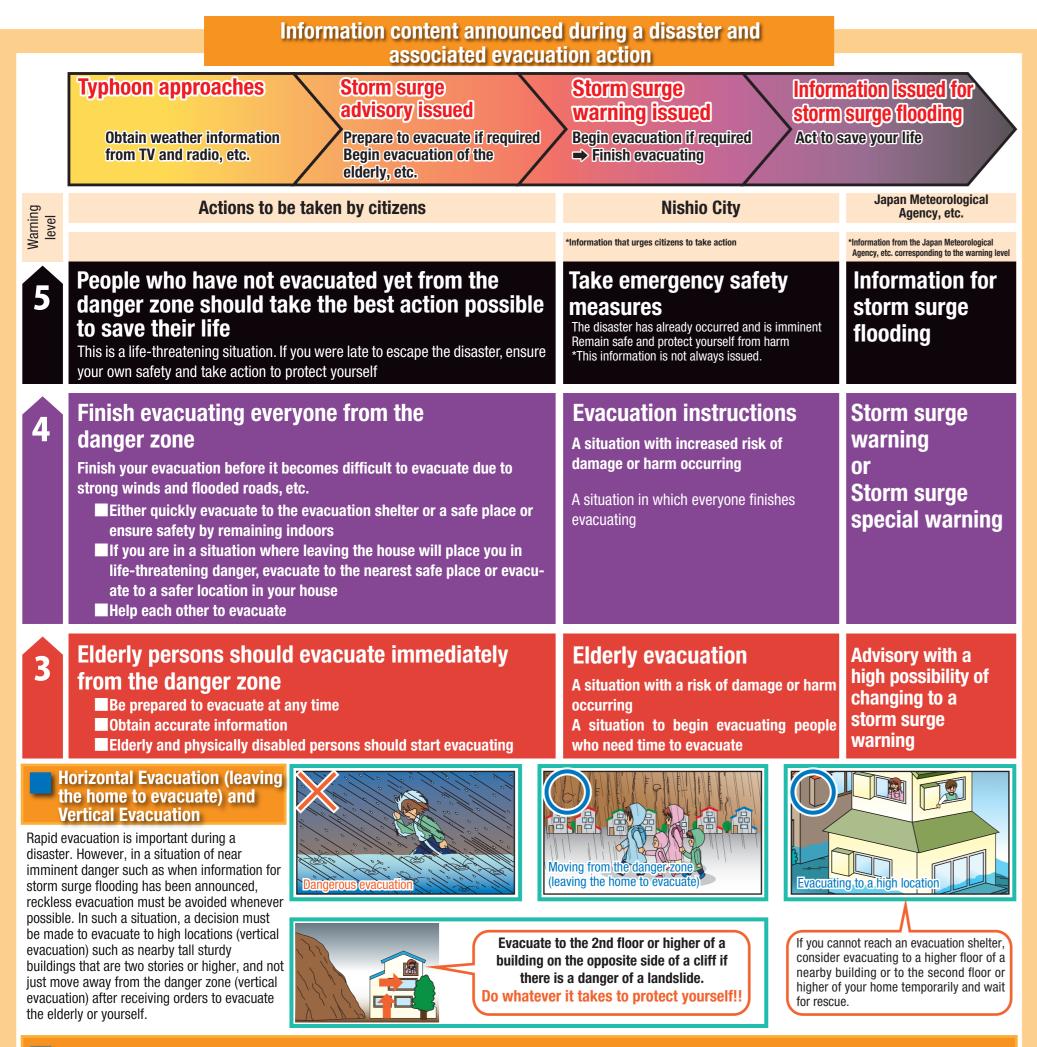
When strong winds continue to

Wind blows the sea towards land



The difference between storm surges and tsunami

The biggest difference between a storm surge and a tsunami is how they occur. While a storm surge occurs due to such things as a typhoon or low pressure weather system, a tsunami occurs because of earthquake or submarine volcanic activity. In comparison with earthquakes and volcanic activity, which are the main cause of a tsunami, typhoons and low pressure weather systems are easily measured so the occurrence of a storm surge is characterized by the fact it can be easily predicted.



Where to obtain information

Remain active in obtaining weather information and evacuation information from the TV, radio and Internet when it is necessary. Evacuation facilities listed on the hazard map are subject to change after the map has been created. Therefore, be sure to check the Nishio City Disaster **Prevention App and Website** for the latest information. Look up information as a matter of normal practice whenever possible.

Be su

Obtain information

Strive to obtain information on your own.

Disaster Prevention Radio

Provides information and announcement about disaster information and evacuation using speakers installed throughout the city.

Internet

Information on the city's disaster prevention efforts, disaster information, and disaster prevention information will be provided from each organization's website.

Nishio City Website

https://www.city.nishio.aichi.jp/

Nishio City Twitter

https://twitter.com/nishio_city

Nishio City Facebook

https://www.facebook.com/kohonishio/

Nishio City LINE official account

@nishiocity

Aichi Prefectural Bureau of Disaster Prevention and Safety Website https://www.pref.aichi.jp/bousai/

Nagoya District Meteorological Observatory https://www.jma-net.go.jp/nagoya/

Information Transmission Flow

Japan Meteorological Agency Kikikuru (Risk Map) Nishio City https://www.jma.go.jp/bosai/#area_type=class 20s&area_code=2321300&pattern=rain_level

Television and Radio Broadcasting

Provides information using emergency broadcasts and text information via the TV and radio. Disaster information transmitted by the government during a disaster can also be



viewed via terrestrial digital broadcast data broadcasting. Use the d button (data broadcasting) on your remote control.

Nishio City Disaster Prevention App and Disaster Prevention Mail

Nishio City has created a smartphone app that collects disaster information for the city (the app must be downloaded). The app can be used to check information such as broadcasts from the Disaster Prevention Radio, evacuation shelters and hazard maps. You can also check the broadcast contents of the Disaster Prevention Radio via Disaster Prevention Mail (prior registration required).



Disaster Prevention App Disaster Prevention Mail bousai.nishio-city2 @raiden2.ktaiwork.jp iPhone Android QR code to download app Email address and QR code to register Disaster Prevention Radio Telephone Service You can check broadcasts from the Disaster Prevention Radio over the telephone.

Use the phone number below to check information.

2 0120-96-8111 (Toll-free)

Emergency Rapid Mail



This is dispatched in the event of a disaster and uses a loudspeaker to call for attention.

Criteria for announcing each type of information

Information for storm surge flooding

Announced when the tide level at the baseline station located on a shore with a well-known water level (a coastal area where storm surge may cause considerable damage) has reached the storm surge special danger water level.

Storm surge special warning

Announced when a storm surge is predicted due to a strong typhoon or low pressure weather system that occurs once in a few decades.

Storm surge warning

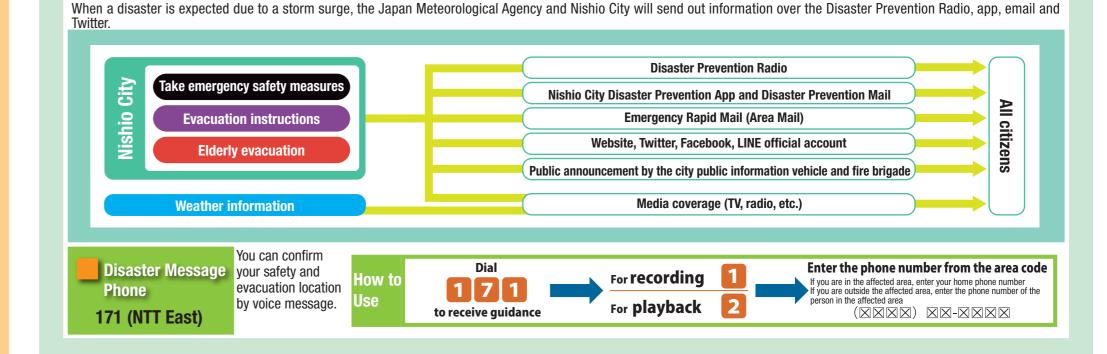
Announced when there is a risk of a serious disaster occurring after the tide level rises significantly due to a typhoon or low pressure weather system

Storm surge advisory

Announced when there is a risk of a disaster occurring after the tide level rises significantly due to a typhoon or low pressure weather system. There are 2 levels of storm surge advisory. Warning level 3 is used when there is a high possibility of the advisory changing to a warning while warning level 2 is used when there is no mention of the advisory possibly changing to a warning.

Early warning information (possibility that a warning will be issued)

The Japan Meteorological Agency announces early warning information when there is a possibility of severe weather such as a storm surge, strong winds, surging waves and heavy rainfall that may require a warning to be issued 5 days in advance. Pay attention to any developments in the weather situation after this has been announced.



History of Storm Surge Damage

Isewan Typhoon

During Isewan Typhoon, which occurred in September 1959, over 5,000 people either lost their lives or were never found. Approximately 80% of these people were concentrated in Aichi Prefecture and Mie Prefecture, which is related to the fact that a storm surge occurred.

During this typhoon, the highest recorded storm surge in history at 3.55 meters occurred, and as it moved through the Nobi Plain, the largest area of land in Japan at sea level, it caused damage to Nishio City.

This disaster triggered the establishment of the "Disaster Countermeasures Basic Act" in 1961, which became the foundation of Japan's countermeasures against disasters.

Historic landmarks that tell the tale of the storm surge disaster before Isewan Typhoon

aisho On the grounds of Oshima Two stone monuments were There is a "tsunami commemorative **Oshima Hachiman-sha Shrine** mi marker, storm surge marker) erected showing the water level stone monument" that shows the and three Hachiman Shrine commemorative (Kira-cho Oshima) Kira-cho Okkawa) (Kira-cho Yoshida) storm surge damage of 1889 (Meiji from the storm surge damage in stone monuments were erected showing the storm surge damage front of the gate to Shoboji 22) in front of the gate to Houshuin Temple. The stone monument on Temple. This stone monument tells in 1889 (Meiji 22) and for Typhoor the right has a "tsunami marker" us that the area was flooded by the Tess in 1953 (Showa 28). sea at a height of approximately 4.6 to show the storm surge damage from 1889 (Meiji 22) while the meters at its highest point and that stone monument on the left has a most of the embankment was "storm surge marker" to indicate washed away. the water level from the storm surge damage caused by Typhod Tess in 1953 (Showa 28).

Referenced from the "Disaster Prevention and Mitigation Lessons from Historical Earthquake Records Website" on the Aichi Prefecture Disaster Prevention Office. Disaster Prevention and Crisis Management Section Website