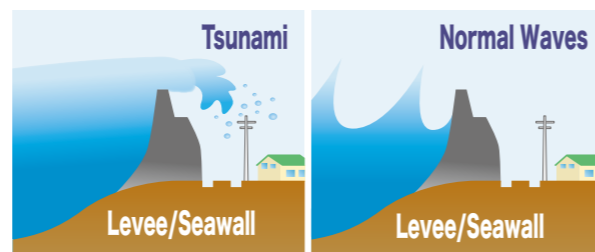


Learn How to Protect Yourself

No one knows when and where an earthquake or tsunami will occur. It is imperative that you flee as fast as possible when you are in a place that is in danger of being impacted by a tsunami.

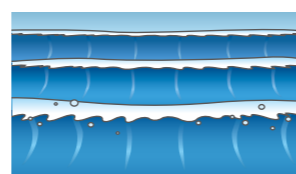
The Fearsome Destructive Power of Tsunamis

- Unlike normal waves, tsunami are formed from the up and down motion of the sea floor, causing all of the water in the ocean to become a giant mass that surges towards the shore. The destructive power of a tsunami is truly amazing.
- Because the drawback, which takes place after a tsunami has flooded the shore, also takes place over a long period of time, houses and other objects are dragged into the ocean in one fell swoop.



Tsunamis Repeatedly Strike

- Tsunamis will repeatedly strike. Furthermore, the first wave is not always the largest.
- Even after a wave has pulled back, do not leave the safe location where you are evacuating until the tsunami warning has been lifted.



Tsunamis Will Travel Upstream

- Tsunamis have been known to enter a river at its mouth and travel upstream against the current for multiple kilometers.
- Tsunamis that have gone upstream have flooded the river bank and caused major damage to the area.



Even if the Water Is Not Deep, it is Dangerous

- Because a person's walking speed is slower in water, even a little inundation can make it difficult to evacuate.
- Because a tsunami causes water to surge with tremendous force, even 15cm of water can sweep a person away.



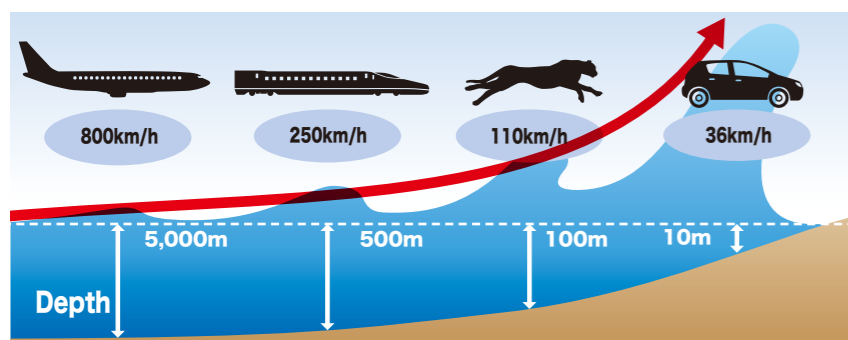
There Will Not Always Be a Drawback

- Not all tsunamis begin with a drawing back of the shore.
- It is said that there is often a drawing back of the shore before a tsunami. However, depending on the type of earthquake, the topography of the area next to the focus, and other factors, a tsunami may form suddenly.



Be Especially Careful During High Tide

- Because the water level is higher during high tide, it is hypothesized that tsunamis become larger and cause more damage.



Conveying the Speed and Height of a Tsunami

The deeper the water, the faster the tsunami. The more shallow the water, the slower the tsunami, but tsunamis are still extremely fast. If you begin fleeing as soon as you see a tsunami, you will not be able to escape in time. Furthermore, the closer a tsunami gets to land, the more the waves are compressed, causing them to become even larger. If you feel strong shaking, immediately evacuate to a safe location (for example, a tall and sturdy building) outside of the area that is expected to be flooded.

Two Types of Tsunami with Differing Characteristics

The characteristics of tsunamis that occur as a result of an earthquake in two different models are drastically different. They are compared below.

Earthquake Model	Japan Trench Model <small>Tsunamigenic Earthquakes in a Subduction Zone</small>	Nyunai Fault Model <small>Inland Earthquakes with a Shallow Focus</small>
Epicenter		
Magnitude	Magnitude 9.1	Magnitude 6.7
Impact of the Tsunami	The arrival of the tsunami is Slow	The arrival of the tsunami is Fast
	Time until the Arrival of the First Wave 97 minutes	Time until the Arrival of the First Wave 2 minutes
	The height of the tsunami is Tall	The height of the tsunami is Short
	Greatest Height of the Tsunami at the Shoreline 5.4m	Greatest Height of the Tsunami at the Shoreline 3.7m
	The area flooded by the tsunami is Large	The area flooded by the tsunami is Small
	Area of Inundation 33.0km ²	Area of Inundation 2.8km ²

Tsunami Inundation Terms and Meanings

Term	Meaning
Time Until the Initial Effects of a Tsunami (in minutes)	The time until a 20cm change in the water level (the change at which the lives of people who are on the beach are threatened) occurs at the representative point (a point in the ocean that is roughly 100-500m from the shoreline of an area that is set by Aomori Prefecture) as a result of an earthquake
Time Until the Arrival of the First Wave (in minutes)	The time until the first wave that occurs as a result of an earthquake at a representative point reaches its crest
Time Until the Arrival of the Biggest Wave (in minutes)	The time until a tsunami that occurs as a result of an earthquake at a representative point reaches its crest
Height of the Tsunami's Crest (in meters)	The height of the crest of a tsunami at a representative point