

Describe different causes of 'Tsunami'. Is there any difference between a Tsunami and a tidal wave? Name the worst Tsunami ever recorded.

Definition:

A tsunami is a series of large ocean waves caused by underwater disturbances such as earthquakes, volcanic eruptions, or ~~landslides~~ landslides. These waves can cause significant damage when they reach coastal areas.

Causes of Tsunami:

Tsunamis are primarily generated by:

i- Underwater Earthquakes: The most common

cause, occurring when tectonic plates shift abruptly, displacing a large volume of water. This is usually due to subduction zones when one plate is forced under another.

ii- Volcanic Eruptions:

Explosive volcanic activity can displace water, generating tsunamis. This includes the collapse of a volcano into the sea or an underwater volcanic eruption.

iii- Landslides: Large-scale underwater landslides or coastal landslides that enter the sea can generate tsunamis by displacing water.

Difference between a ~~Fresh~~ Tsunami and a Tidal wave:

Tsunami	Tidal wave
<ul style="list-style-type: none">caused by earthquakes, volcanic eruptions, or landslides.	<ul style="list-style-type: none">caused by the gravitational pull of moon and sun.
<ul style="list-style-type: none">Long waves travel fast across oceans.	<ul style="list-style-type: none">Regular and predictable part of tidal cycles.

Tsunami

- Waves grow tall near shore, causing floods.
- often mistakenly called "tidal waves."

Tidal wave

Do not cause sudden, violent water movement. Correct term does not mean sudden water displacement.

Worst Tsunami Ever Recorded:

The 2004 Indian Ocean Tsunami is considered the worst tsunami in recorded history.

Good attempt!!