

# About this Hazard Map

Here is some basic information about water-related disasters, as well as an explanation of the purpose of this Hazard Map.

## 1 The purpose of this Hazard Map

Handa City borders the sea on its eastern side, and is located at sea level in some areas, so is vulnerable to high tides and tsunamis. The Agui River and other rivers also flow through Handa, increasing the risk of flood damage after heavy rain. We hope that you will use this Hazard Map to think, along with your family about how water-related disasters may occur, and to take appropriate evacuation action to save your lives if and when they do.

## 2 Types of water-related disaster

### Flooding (bursting of river banks)

If water overflows from the river or the river bank collapses, a river water flood may occur as the river water flows through the area. Houses and fields next to the river can be flooded in a very short time, causing widespread flood damage.

→ See page 24



### Flooding (Inland flooding)

Inland flooding occurs when a large volume of rain falls on a city or town, exceeding the rainwater capacity of drains and wastewater systems, or when river levels rise so far that it becomes impossible for rainwater to flow into the river, or sea levels rise. When this happens, flood damage occurs within the city due to rising water levels on the ground.



### High tides

When atmospheric pressure drops due to a typhoon, and seawater is blown towards land by high winds at the same time, it can cause sea levels to rise far enough to flow over flood defences.

→ See page 6



### Tsunami

When an earthquake occurs at sea, it causes the ocean floor to drop or rise suddenly. This creates a large movement in the seawater, which moves in all directions outwards from the center of the quake towards land, and causes a rise in the surface level of the sea.

→ See page 58



## Index

Chapter 1 About this Hazard Map .....	02
Chapter 2 How we collected information .....	03
Chapter 3 How to use the Hazard Map .....	05
<b>High Tide Information</b> .....	<b>06</b>
Know the dangers of high tides .....	07
How to determine which evacuation site to use and ensure a safe evacuation route .....	08
How to determine when is the correct time to evacuate .....	09
Be prepared for flooding .....	10
High Tide Hazard Map .....	11
Explanation of High Tide Hazard Map .....	23
<b>Flooding</b> .....	<b>24</b>
Know about the dangers of flooding .....	25
How to determine which evacuation site to use and ensure a safe evacuation route .....	26
How to determine when is the correct time to evacuate .....	27
Be prepared for flooding .....	28
Flood Hazard Map .....	29
Additional information about the Flood Hazard Map .....	57
<b>Tsunami</b> .....	<b>58</b>
Know about the risk of a tsunami .....	59
How to determine which evacuation site to use and ensure a safe evacuation route .....	60
How to determine when is the correct time to evacuate .....	61
Be prepared for flooding .....	62
Tsunami Hazard Map .....	63
Additional information about the Tsunami Hazard Map .....	75
<b>Be prepared for disaster</b> .....	<b>76</b>
Chapter 4 What to take in an emergency and things you should prepare in advance .....	77
Chapter 5 Discuss with your family what to do in case of a disaster .....	78
Chapter 6 What you need to know when evacuating .....	79