

How to Use Hazard Maps

Add important information on this hazard map to create “Your Hazard Map”. You should include information such as “Where is the dangerous sites that I should know?”, “Where are the evacuation areas and evacuation centers for my family?”, “Who to contact?” etc.



How to Use Hazard Maps

Disaster Categories and Criteria of Area at Risk

Categories	Information shown in the map	Assumption etc.
tsunamis	<ul style="list-style-type: none"> Estimated inundation area by assumed tsunami Actual inundation area by Great East Japan Earthquake tsunamis 	<ul style="list-style-type: none"> Simulation of 3 tsunamis (Meiji Sanriku Earthquake Tsunami, Showa Sanriku Earthquake Tsunami, and assumed Miyagiken-oki coupled earthquake).
flooding	<ul style="list-style-type: none"> Estimated inundation area and depth when target rivers are flooded Actual inundation area by Typhoon 10 in 2016 	<ul style="list-style-type: none"> Target rivers are Hei, Yagisawa, Tsugaruishi, Tashiro, Settai, Kanda, and Osanai Rivers. Simulation of estimated maximum depth by a heavy rainfall of an intensity observed only once every 100 years. For Settai River, rainfall same as Typhoon Ione in 1948 is assumed.
Sediment Disasters	<ul style="list-style-type: none"> Area at risk of mudslide, landslip, or landslide 	<ul style="list-style-type: none"> Estimated by field survey, topographic map, etc.

Estimated tsunami inundation area is created from “ Simulation result of Iwate earthquake tsunami (H16(2004)) ”, and actual inundation area by Great East Japan Earthquake Tsunami from “ Detailed Map of Great East Japan Earthquake Tsunami (Japan Society of Geoinformatics) ” .
 Inundation area and depth for Hei, Yagisawa, and Tsugaruishi Rivers are created from inundation estimation simulation by Iwate Prefecture. Those for other rivers are created from simulation result by Miyako City, which is consistent to river planning by Iwate Prefecture .
 Area at risk of sediment disasters is created based on “ Designation Map of Sediment Disaster Warning Area etc. ”, “ Disclosed Map of Basic Survey Result on Sediment Disasters ”, and “ Map of Sediment Disaster Warning Sites ” by Iwate Prefecture.

◆These Hazard Maps are Only Estimation ! !

Estimated inundation areas and areas at risk shown in the Hazard Maps are identified based on a certain assumption. Although large-scale disasters are considered, disasters can happen in the area where any risk is not shown in the Hazard Maps. So, when evacuating, please not only obtain information on weather or disaster prevention, but also pay attention to the condition of evacuation routes.

Symbols in Integrated Disaster Prevention Hazard Maps

List of Symbols

Evacuation Areas / Evacuation Shelter

- 
Tsunami Evacuation Area Area for temporary evacuation to protect lives from tsunamis.
- 
Tsunami Evacuation Building Building for temporary evacuation to protect lives from tsunamis, in case failing to evacuate to higher ground.
- 
Evacuation Area Area for temporary evacuation to protect lives from flooding or sediment disasters.
- 
Evacuation Shelter A place that accommodates evacuees in the case of prolonged evacuation.

Symbols

-  Hospital
-  City Government
-  Fire Station/ Branch
-  General Office/ Branch Office
-  Firefighting Corps
-  Heliport
-  Police Station
-  Sub Unit of Municipal Disaster Management Radio Communications Systems
-  Police Box/ Substation
-  Main Road
-  Post Office
-  City Boundary

Tsunami Map

Inundation Area by Tsunami

-  Estimated inundation area by tsunami
-  Actual inundation area by tsunami (Great East Japan Earthquake)
-  Evacuation direction from tsunami

Maximum height and arrival time of assumed tsunami in each district

Name of district
Maximum height of Meiji Sanriku Earthquake Tsunami (arrival time)
Maximum height of Showa Sanriku Earthquake Tsunami (arrival time)
Maximum height of assumed Miyagiken-oki coupled earthquake (arrival time)

min ...Starting time of the effect of tsunami. The earliest estimation among 3 assumed tsunamis is shown.

Flooding / Sediment Disaster Map

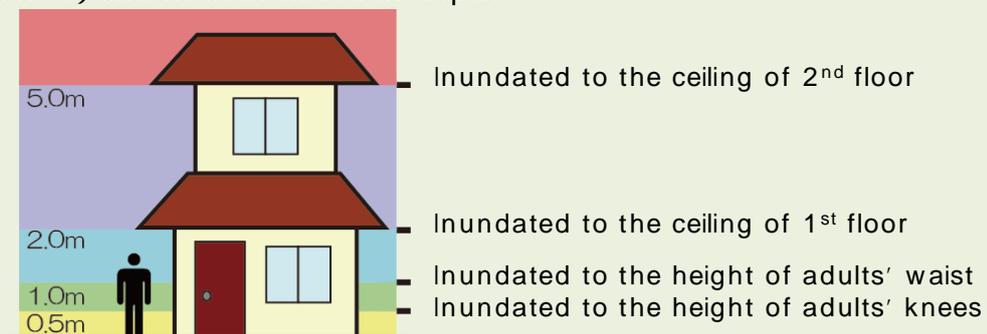
Inundation Area and Depth by Flooding

-  under 0.5m
-  2.0 ~ 5.0m
-  0.5 ~ 1.0m
-  5.0m and over
-  1.0 ~ 2.0m
-  Actual Inundation Area (Typhoon 10 in 2016)

Warning Area by Sediment Disasters

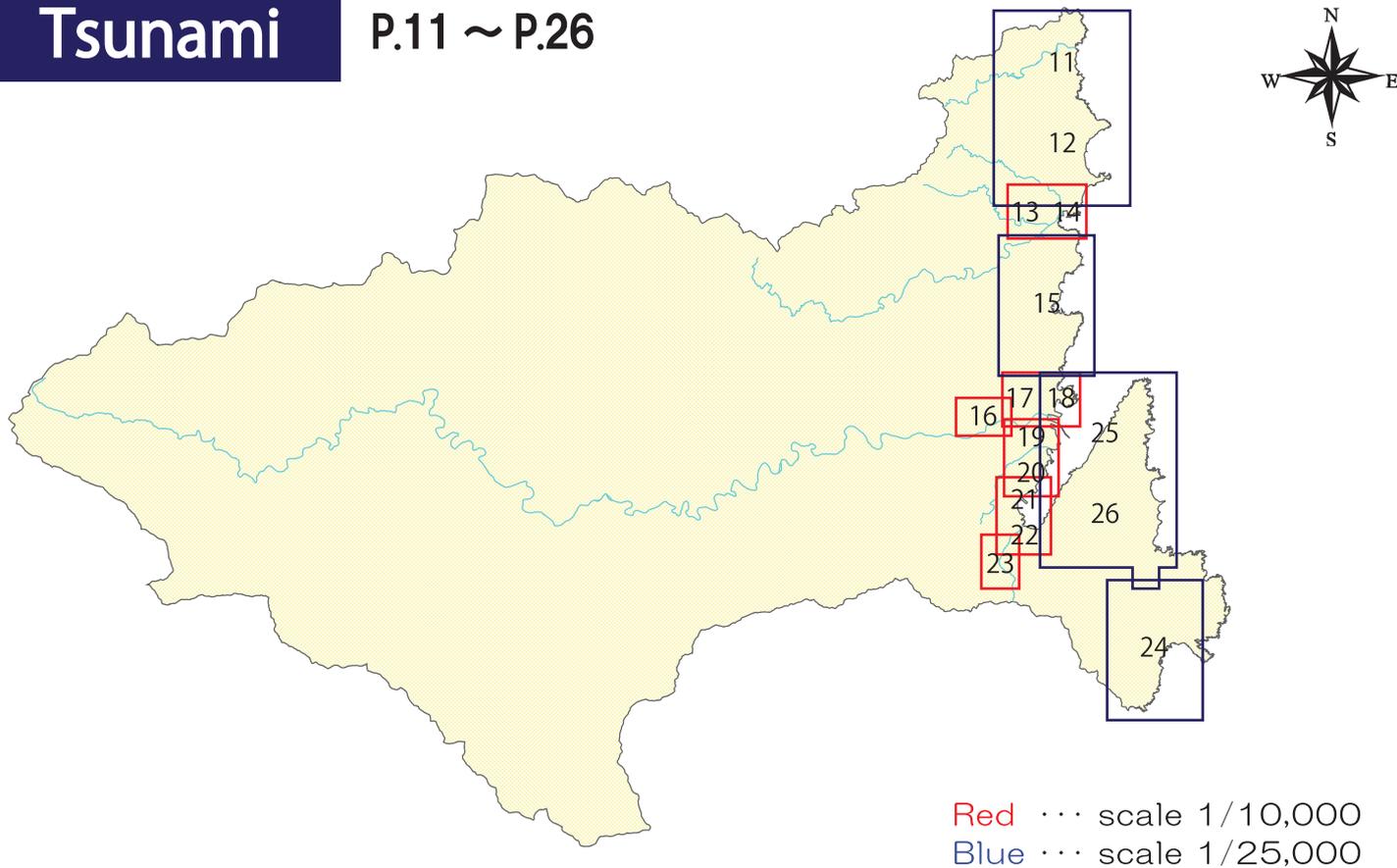
-  Area at risk of extreme damage
-  Area at risk of damage
-  Area at risk of damage, and detailed study to be conducted.
-  Evacuation direction from sediment disasters

(reference) extent of inundation depth



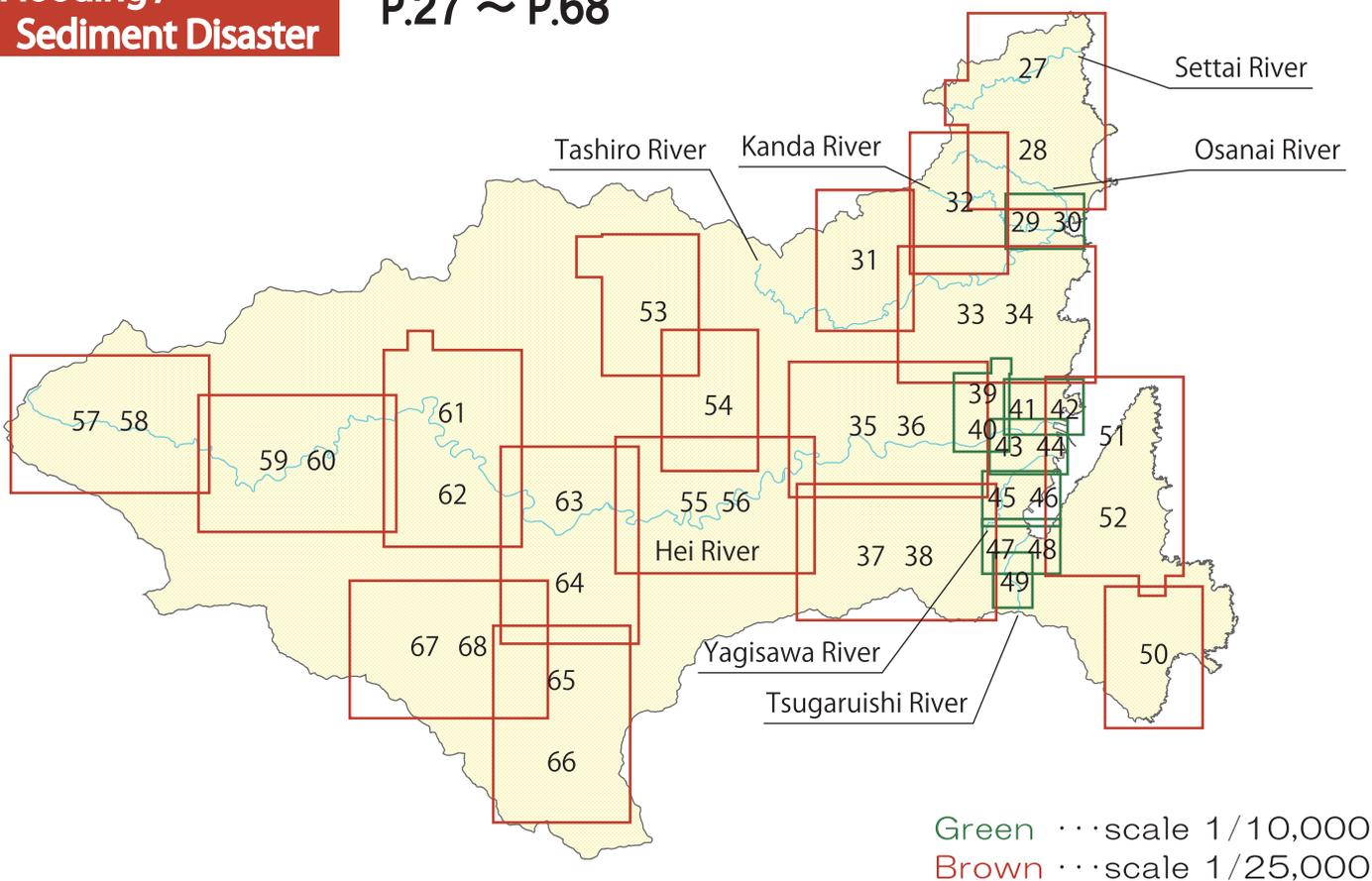
Tsunami

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Flooding / Sediment Disaster

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※This map is created based on the Digital Maps (Basic Geospatial Information) as of Jan. 31, 2018.

Numerals are page numbers.