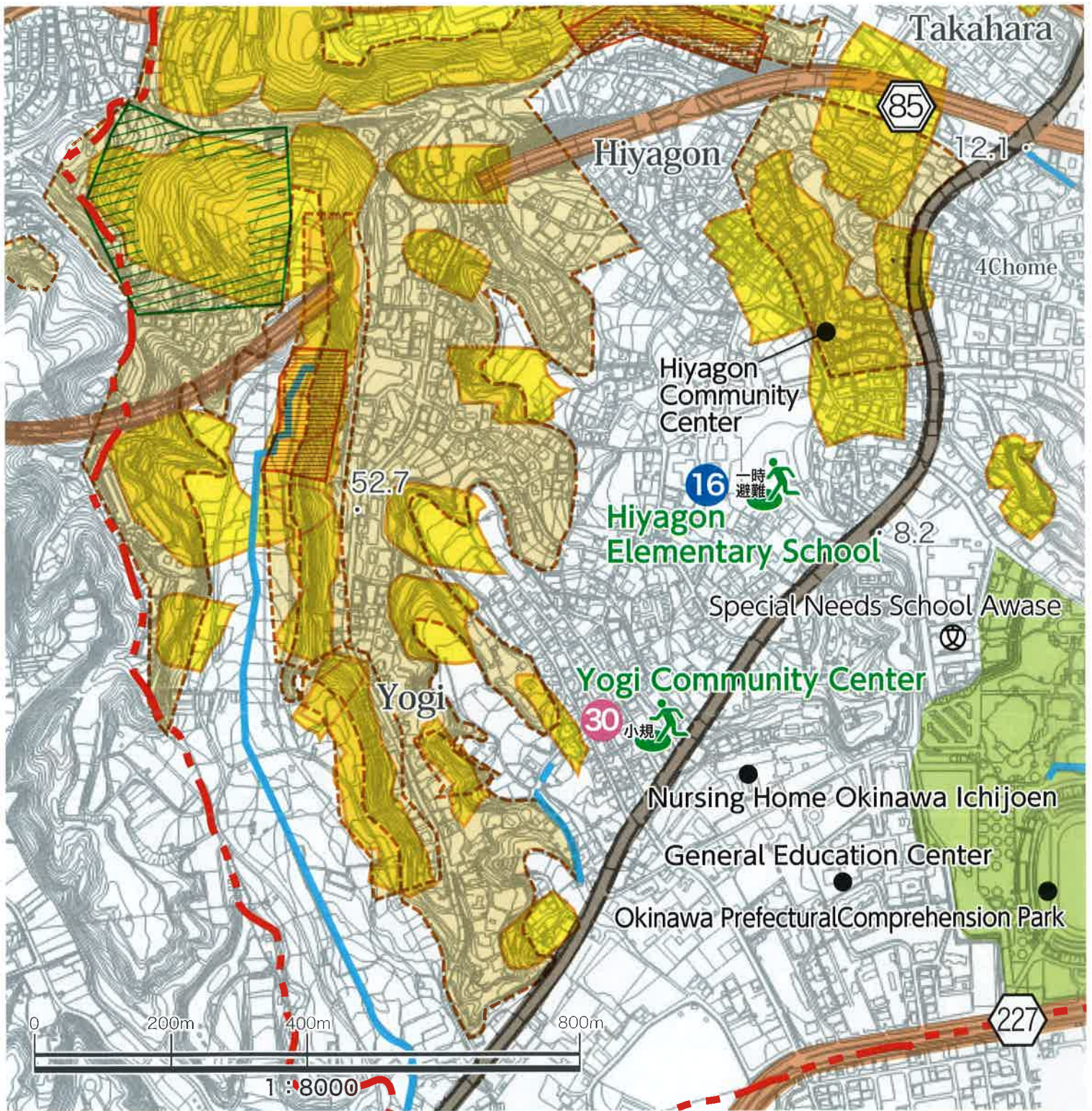


Legend	
	Municipal Border
	Wider Area Evacuation Site
	Temporary Evacuation Site
	Evacuation Site
	Small Evacuation Site
	Welfare Evacuation Site
	Landslide Disaster Danger Area
	Landslide Disaster Warning Zone
	Landslide Danger Area
	Steep Slope Failure Danger Area
	Park
	City Hall
	Fire Department
	School
	Police Station
	Post Office
	Hospital
	Expressway
	National Road
	Prefectural Road

Explanation of Evacuation Sites	
Wider Area Evacuation Site	A park or other open spaces at least 10ha.
Temporary Evacuation Site	A staging post before evacuating to regional evacuation sites. Here, evacuees temporarily gather in order to survey the situation.
Evacuation Sites	A facility such as a school and other already existing buildings that temporarily provide shelter and protection.
Small Evacuation Site	A facility such as a community center and other already existing buildings that temporarily provide shelter and protection.
Welfare Evacuation Site	A facility for evacuees in need of support (the elderly and disabled) who find general evacuation shelters very difficult
※These are not designated emergency shelters/ designated shelters based on the Basic Act on Disaster Control Measures Article 49-4 and 7.	
※Although the altitudes of evacuation centers and others indicated is based on the calculations of the city planning map, the actual altitude may be slightly different in some areas.	

Temporary Evacuation Sites and Evacuation Sites (Elementary Schools / Junior High Schools / High Schools)				
No.	Name	Address	Phone Number	Elevation (M)
6	Takahara Elementary School	5-12-2 Takahara	937-3618	2.6
4	Bito Junior High School	5-12-1 Takahara	937-3613	2.6
Welfare Evacuation Site (Facilities)				
No.	Name	Address	Phone Number	Elevation (M)
3	Welfare Culture Plaza/Jushi Bunka Plaza	7-35-1 Takahara	930-1692	3.0
Small Evacuation Building (Community Centers)				
No.	Name	Address	Phone Number	Elevation (M)
28	Higashi Tobaru Community Center	1-2-15 Tobaru	934-0300	3.4



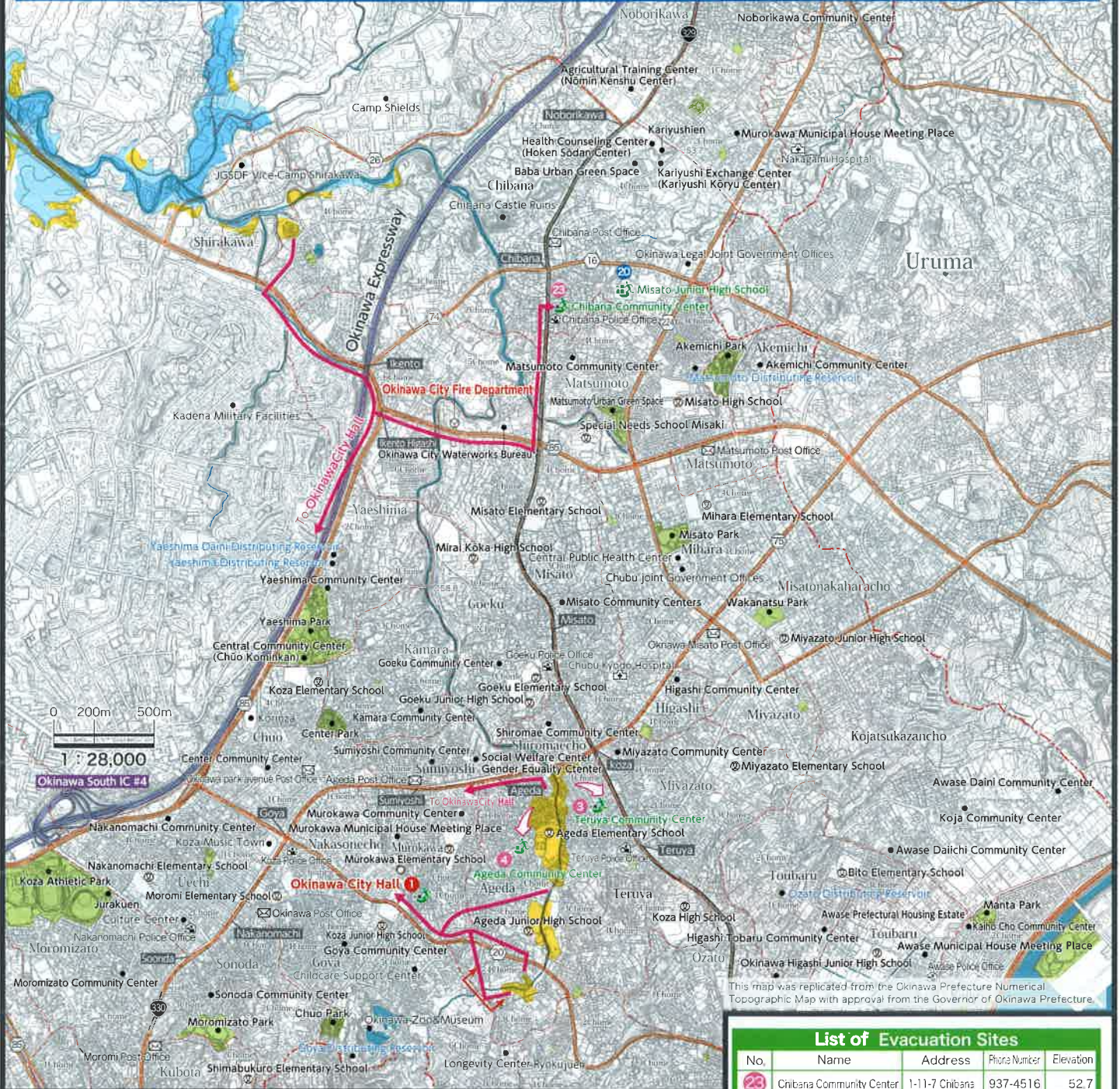
Legend	
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Temporary Evacuation Sites and Evacuation Sites (Elementary Schools / Junior High Schools / High Schools)				
No.	Name	Address	Phone Number	Elevation (M)
16	Hiyagon Elementary School	6-2-1 Hiyagon	930-0581	9.4
Small Evacuation Building (Community Centers)				
No.	Name	Address	Phone Number	Elevation (M)
30	Yogi Community Center	1-13-1 Yogi	933-2596	9.0

This map was replicated from the Okinawa Prefecture Numerical Topographic Map with approval from the Governor of Okinawa Prefecture. (平28企情第1672号)

Hija River Flood Assumption Zone



This map was replicated from the Okinawa Prefecture Numerical Topographic Map with approval from the Governor of Okinawa Prefecture.

List of Evacuation Sites

No.	Name	Address	Phone Number	Elevation
23	Chibana Community Center	1-11-7 Chibana	937-4516	52.7
20	Misato Junior High School	1-24-1 Chibana	937-3614	51.0
1	Okinawa City Hall	26-1 Nakasone-cho	939-1212	110.1
3	Teruya Community Center	1-32-34 Teruya	937-4470	70.5
4	Ageda Community Center	2-19-27 Ageda	937-4633	64.2

Legend

- Flooding Disaster Evacuation Route
- Evacuation direction

About the Simulation

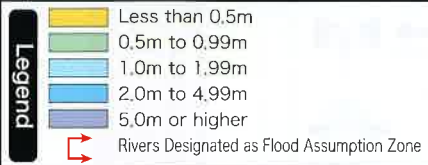
1) About the Simulation

- This map exhibits areas around the Hija River that are designated as potential flood zones in accordance with the Flood Prevention Law, and also the expected water levels and other pertinent information in the event of such flooding.
- This potential flood zone map takes into consideration the development conditions of the Hija River and its channels as well as the Kurashiki Dam, and exhibits the simulated results of a Hija River flood due to heavy rain fall that occurs once every 50 years statistically.
- The simulation does not take into consideration the flooding of branched rivers, extreme rainfall events, high tide, or the flooding of inland waters. Flooding may occur in areas other than these potential flood zones, and actual water levels may vary.

2) Basic Information

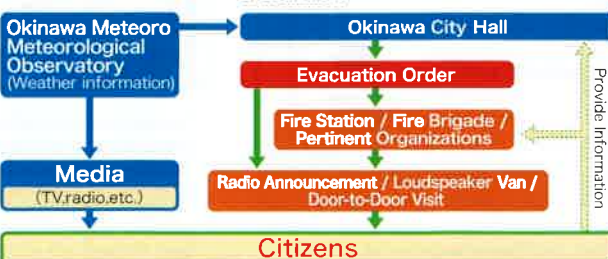
- Created by Okinawa Prefecture
- Date of Designation: November 6, 2012
- Legal Basis: Article 14-1 of the Flood Prevention Law (Law No. 193, 1949)
- Targeted Area: Hija River of the Hija River System (Left coast: From 114-1 Aza Ageda, Okinawa City to the ocean; Right coast: From 116-1 Aza Ageda, Okinawa City to the ocean)
- Amount of the Rainfall for the Simulation: Total of 350mm per day along the entire Hija River
- Affected Municipality: Okinawa City
- Other Conditions: The potential flood area in the Route 330 downstream region was divided into a grid of 25m x 25m squares, and the water level for each square was calculated.

Expected Water Levels in the Event of a Flood (ranked)



Information Flow

The flow of information concerning sediment-related disasters and evacuation order is distributed as follows:



Weather information

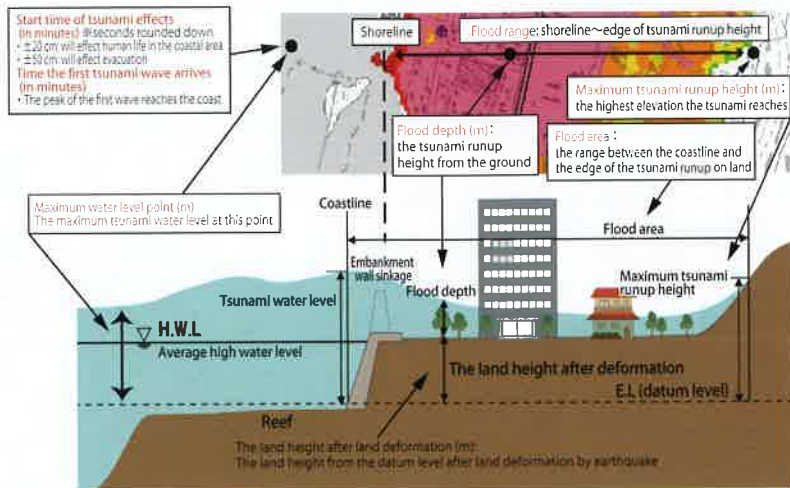
- Okinawa Meteorological Observatory website <http://www.jma-net.go.jp/okinawa/>
- River-related Disaster Prevention Information (Ministry of Land, Infrastructure and Transport) <http://www.river.go.jp/>

Tsunami assumed by the Okinawa Prefecture Government

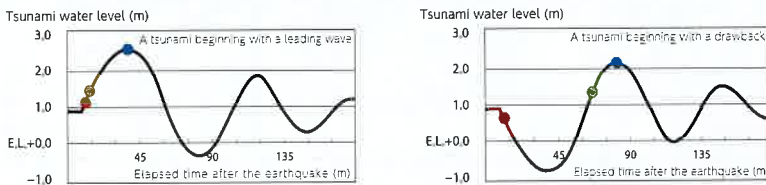
Okinawa Prefecture officially announced in 2015 the maximum flood range and flood depth for 2 earthquakes that would particularly affect Okinawa City based on the assumed conditions. In the worst case scenario, it is assumed that a Tsunami with a maximum runup height of 6.3m will hit the eastern region of Okinawa City 33 minutes after the earthquake.

Assumed Conditions

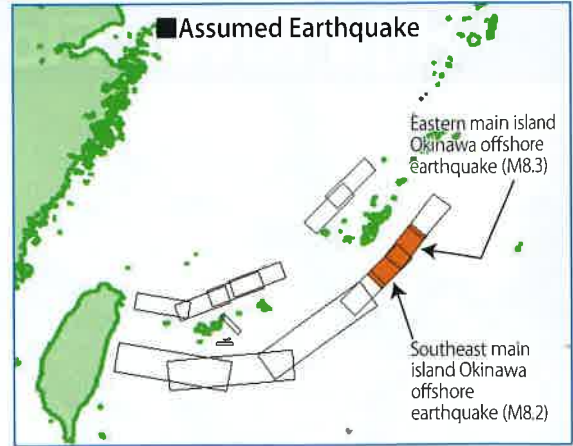
- (1) Earthquake simulation
 - Southeast main island Okinawa offshore earthquake (M8.2)
 - Eastern main island Okinawa offshore earthquake (M8.3)
- (2) Structures
 - Embankment walls (levee structures) sink 75% from its relative elevation.
 - No conditions set for seawalls (concrete structures).
- (3) Tide level: average high water level (monthly average of the highest high tide level)
 - Tsunami water level/flood depth/runup height around the eastern region of Okinawa City



Start time of tsunami effects. Time the first tsunami wave arrives.



- Start time of effects.(±20cm)
- Start time of effects.(±50cm)
- Time the first tsunami wave arrives.



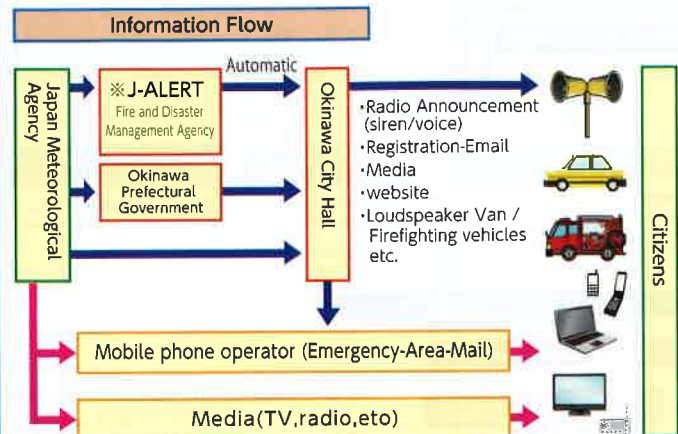
The maximum flood depth by assumed tsunami

More than 0.01m , under 0.3 m
More than 0.3 m , under 1.0 m
More than 1.0 m , under 2.0 m
More than 2.0 m , under 5.0 m
More than 5.0 m , under 10.0 m
More than 10.0 m , under 20.0 m
More than 20.0m

Maximum water level	4.7m
Maximum tsunami runup height	6.3m
Time it takes for the water level to change ±20cm	25 minutes
Time it takes for the water level to change ±50cm	30 minutes
Time it takes before the first wave to arrive	33 minutes

Tsunami Alert/Advisory

If there is a possibility of damage from earthquake, great Tsunami alert, Tsunami alert or Tsunami advisory in 3 minutes after the earthquake occurred. After that, "Assumed Tsunami height" and "Expected time of Tsunami arrival" will be announced. (Japan Meteorological Agency) Information regarding Tsunami (alert etc.) will be sent out through community wireless system, registered email, TV, radio or cell phone providers etc.



※ J-ALERT is a satellite-based communication system which automatically activates municipal wireless systems to immediately inform residents with urgent announcements from the Japan Meteorological Agency or Cabinet Secretariat regarding weather, disasters, or other emergency situations.

Tsunami Warning/Advisory categories and action to be taken

	Estimated maximum tsunami height	Action to be taken	Expected damage
Major Tsunami Warning	Quantitative expression: For huge earthquakes		
	over 10m (10m < height)	Evacuate from coastal or river areas immediately to safer places such as high ground or a tsunami evacuation building.	Wooden structures are expected to be completely destroyed and/or washed away, anybody exposed will be caught in tsunami currents.
	10m (5m < height ≤ 10m)	Tsunami waves are expected to hit repeatedly. Do not leave the evacuation location until Tsunami Warnings are cleared. Keep evacuating to higher and higher ground wherever possible!	 (Masonry structures located in low-lying areas due to the tsunami higher than 10m)
Tsunami Warning	5m (5m < height ≤ 5m)	 Educational video "Escape the Tsunami" (JMA)	Tsunami waves will hit, causing damage to low-lying areas. Buildings will be flooded and anybody exposed will be caught in tsunami currents. Toyokoro cho (2003)
	3m (1m < height ≤ 3m)		
Tsunami Advisory	1m (20cm < height ≤ 1m)	Get out of the water and leave coastal areas immediately. Do not engage in fishing or swimming activities until Advisories are cleared.	Anybody exposed will be caught in a strong tsunami currents in the sea. Fish farming facilities will be washed away and small vessels may capsize.

〔政府広報オンライン〕より作成

- Tsunamis may hit before warnings are issued if the source region is near the coast. Be sure to evacuate when shaking occurs.
- Tsunami heights may exceed estimations due to coastal topography and other factors in some regions. Evacuate to higher ground.
- Tsunami Forecasts (Slight Sea Level Change) are issued if the estimated tsunami height is less than 20 cm and no damage is expected, or if slight sea level changes are expected after Tsunami Advisories are cleared.