

Disaster Prevention Plan Through Making of Tsunami Evacuation Map

Tsunami Evacuation Map, disaster prevention + what we can do now



Making an evacuation map

Tsunami evacuation map shall be discussed and made by the residents, to know about their area and find the ways to escape.

Since the Great Earthquake, awareness to prepare for disaster has grown. We cannot simply rely on huge structures to survive. The most important is to escape from danger, and prepare the ways to survive. The evacuation map is a method for the purpose.

Map making We can make it easily!

Things to preper

1. Base Maps 2. Dot stickers 3. Leather Straps 4. Colored pencils

- 1.Put a dot sticker on an evacuation centers
- 2.Measure the distance from an evacuation center, find the evacuation time category, and color the road.

Outcomes

- 1.Visualization of escape route and time
- 2.Building of discussion platform of residents
- 3.Improvement of awareness for disaster
- 4.Verification the effectiveness of disaster countermeasures



A scene of evacuation on the disaster day

Two Workshops in Rikuzen-Ttakata

1. Takada-Higashi Junior High School 21 Sep. 2013 2. Otomo Area Community Center 15 Mar. 2014

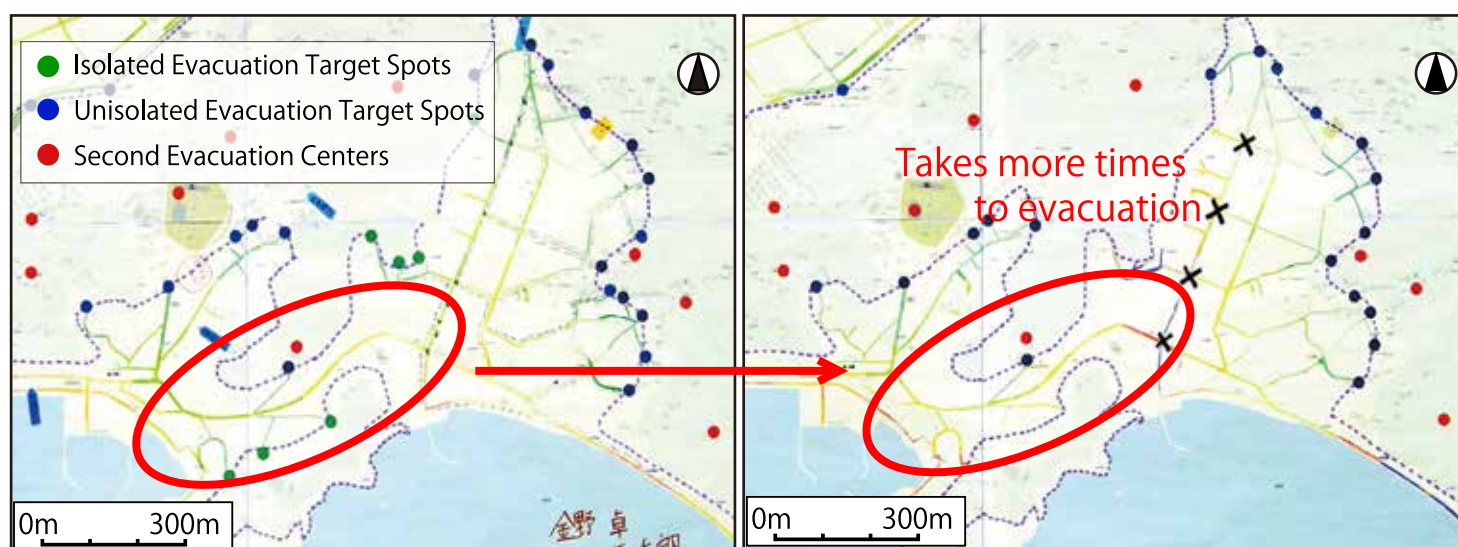


Students making evacuation maps



Mapping area

Takada-Higashi Junior High School opened in April 2013 at Yonesaki, by merging three schools. The problem with escaping from tsunami has become larger, because more students need to commute longer through unfamiliar areas. So the workshop was held on the themes of disaster prevention education and isolation of refuge center.



Two maps, one includes evacuation points that would be isolated by tsunami and one does not, were made and compared. By reviewing them, the area that would need more evacuation centers and routes were identified. The effectiveness of evacuation map for education was proven.

"Impression of participants"

- This is an isolated area. We shouldn't evacuate to there.
- I suggest that we build bridges over the isolated high grounds.
- I know the street I passed after the disaster was risky.
- I want to show evacuation ways with my family.



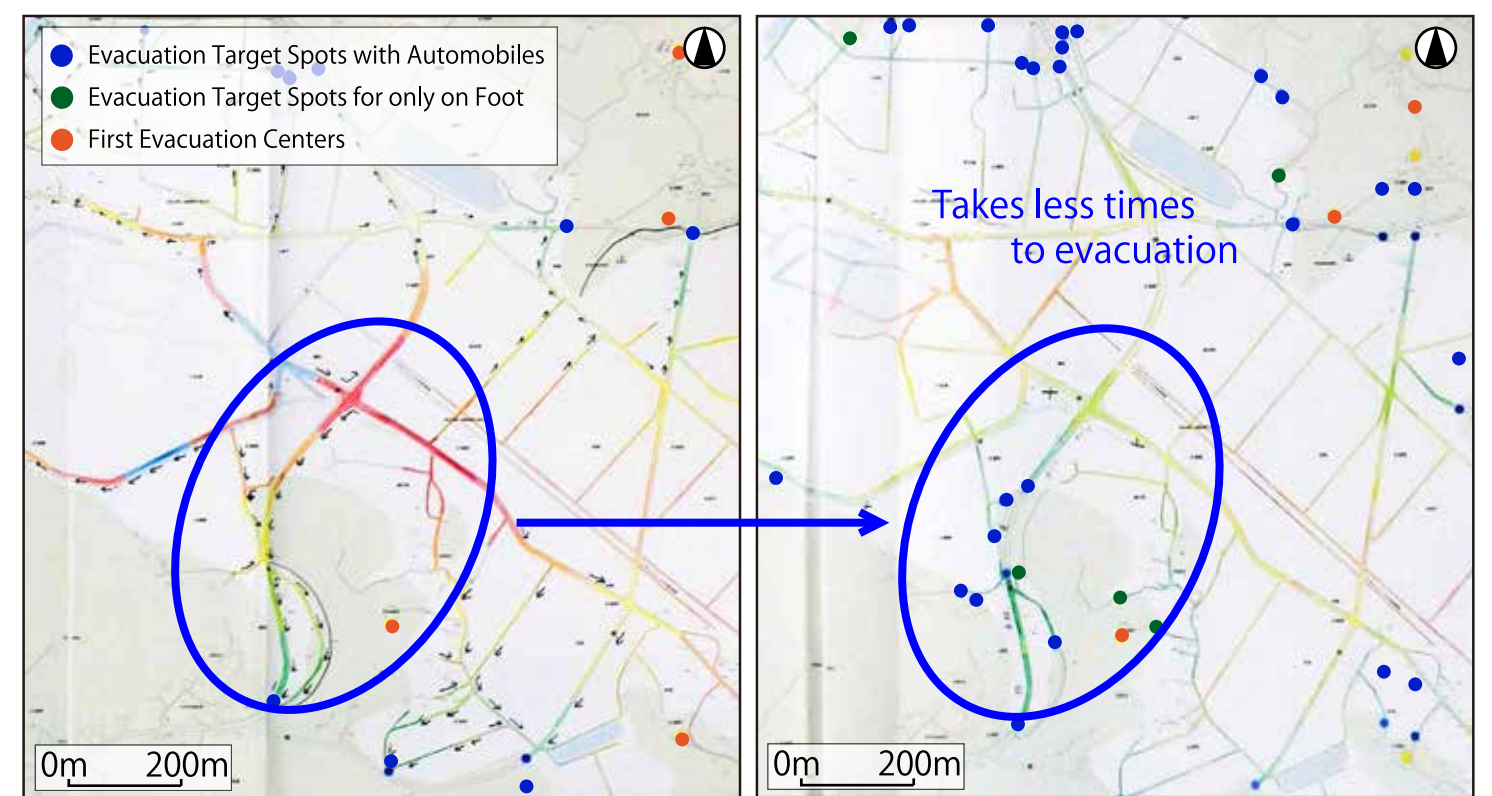
Exhibition of workshop at the school festival



Local firemen mappin at community center

After the workshop at Takata-Higashi Junior High, the PTA and *fire fighters of Otomo area asked to do an evacuation map workshop for their area. So a workshop was held on March 15, with about 30 participants including the fire fighters who guided evacuation on the disaster day. Two maps, one evacuation by automobile and one by walking, were made and reviewed.

*Fire fighters also work for comprehensive safety improvement of the community.



By the review, we could figure out the risk of traffic control, and appropriate methods of evacuation guidance. Also the roads that needed improvement were identified. Those information will be helpful to make the next disaster prevention plan. Ideas to expand the parking space of evacuation centers, better utilize the signage of evacuation were presented.

"Impression of participants"

- Because this road is narrow, it is congested when we evacuate with automobiles.
- I find that the crossing I guided the citizens after the disaster is most dengarous place.
- I suggest that we plan the roads turning only right in order to sort out a traffic jam.
- I suggest to build bridges to the isolated high lands.



Hand-made Evacuation Guidance Sign