EARTHQUAKE PREPAREDNESS GUIDANCE BOOKLET

1st EDITION



Miyagi prefecture (June, 2011) By Mitsuko Hasegawa





TABLE OF CONTENTS

	Page number
Table of contents	1
Introduction	2
Emergency bag	3
Earthquake intensity and its levels in Japan	4
Behavior	
 Behavior before an earthquake Behavior during an earthquake 	5
- Behavior after an earthquake Emergency phone numbers	8 9
Shelters	
 Nishimachi area shelters: Bunkyo campus Katafuchi area shelters: Katafuchi campus Sakamoto area shelters: Sakamoto campus 	10 11 12
Tsunami shelters: Nagasaki University	13
Useful phrases in Japanese	14
Acknowledgement	17
References	18

INTRODUCTION



An earthquake is a life-threatening disaster for which everyone should be prepared. They frequently occur in Japan, unpredictably, therefore most Japanese students are well educated and trained about it. In contrast, some international students have no experience about an earthquake and do not know how to respond during this situation, making it difficult for them to follow evacuation or behavior announcements made. Moreover, there is not an English version of the alert systems and guide books in Nagasaki city. Thus, the objective of this booklet is to provide an English version of guidance for preparedness in case an earthquake strikes. Since this booklet contains only information deemed necessary for international students at Nagasaki University, we encourage them to search for further information on earthquake preparedness, using the internet.

EMERGENCY BAG



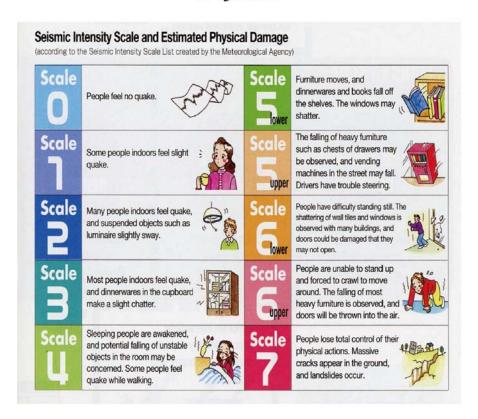
Primary set			
List		Check list (√)	
1	Personal identity: ID card/insurance card/passport		
2	Personal health: medication (first-aid kit, standard medicine)		
3	Personal belongings: blanket/towel/big plastic bag/sanitary napkins/clothes/outerwear/socks/rain coat/mask/underwear		
4	Personal contact equipment: radio/mobile phone/flash light with batteries		
5	Food: high calories food/water (500 ml 2 bottles)		

^{**} The amount of water, food and clothes depends on the person. Please prepare for 1 or 2 nights utilization before you arrive at the shelter. Please check the perishable goods by yourself and replace them if necessary. You can buy an emergency bag at amazon or Nagasaki University co-operative. Please prepare this bag in advance.

Secondary set			
List		Check list (√)	
1	Portable stove with energy supply/pot/can opener /spoons/forks/chopsticks		
2	Plastic bowl/plastic wrap		
3	Beverage: water 2 l per day per person/canned juice /powdered drink/jelly drink		
4	Food: canned food/ready meal/snacks		

 $^{^{**}}$ Secondary set is used when you arrive at shelter and you have a plan to stay longer than two or three nights.

EARTHQUAKE INTENSITY AND ITS LEVELS IN JAPAN



Alertness messages

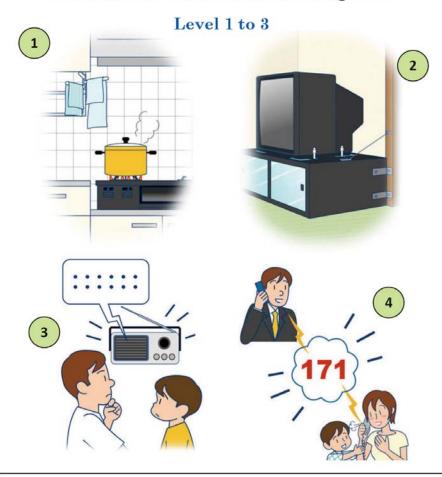
- 1) You will receive news or warning message from television and/or radio when the intensity of earthquake is below 4 (1 to 3).
- 2) You will automatically receive warning message from applications (see page 9), mobile companies and/or government, when the intensity of the earthquake is higher than 4 (4 to 5)
- You will receive high level or repeated warning messages or announcements from <u>local authorities</u>, mobile companies and/or government when intensity of earthquake is more than 6 (6 to 7).

BEHAVIOR BEFORE AN EARTHQUAKE



- · Read carefully this booklet
- · Know the potential earthquake hazards in your area
- Identify and visit the shelters near to your place (Page 10-13)
- Prepare your emergency bag (Picture 1)
- Learn how to turn off the gas, water, and electricity (Picture 2)
- Don't leave heavy objects on shelves (they'll fall during a quake).
- Anchor heavy furniture, cupboards, and appliances to the walls or floor (Picture 3)
- Breakable items, harmful chemical and flammable materials should be stored properly in secured place.
- Make up a plan of where to meet your family and/or your friends after an earthquake (Picture 4)

BEHAVIOR DURING AN EARTHQUAKE



- · Stay calm and inside until the shaking stops. Open the door.
- Turn off the gas, water, and electricity (Picture 1 and 2).
- Don't leave heavy objects on shelves (they'll fall during a quake).
- Listen to your radio for instructions from emergency officials (Picture 3).
- To have information about your family or friend safety, use NTT's Disaster Message Dial (dial #171) (Picture 4) (see page 9).

BEHAVIOR DURING AN EARTHQUAKE

Level 4 to 7



- · Stay calm and stay inside until the shaking stops.
- Drop under heavy furniture such as a table, desk, bed or any solid furniture and hold onto it so that you remain covered (Picture 5).
- Cover your head and torso to prevent being hit by falling objects (Picture 6).
- If you are on the car or bus or tram, stay in your seat until it stops and take cover in a protected place (Picture 7).
- Don't use elevators, but if you are in an elevator during an earthquake, hit the button for every floor and get out as soon as you can (Picture 8).
- Once tremor stops, get out and go to an open area (not inclined) away from damaged buildings, tree, electric lines and others unsafe structures (Picture 9).

BEHAVIOR AFTER AN EARTHQUAKE



- Check yourself and others for injuries. Provide first aid for anyone who needs it.
- Be careful around broken glass and debris. Wear boots or sturdy shoes to keep from cutting your feet (Picture 10).
- If you're at school or work, follow the emergency plan or the instructions of the person in charge (Picture 11).
- Go to the shelter located near your house to have some supplies (Food, water, medicine...).
- Stay away from beaches. Tsunamis sometimes hit after the ground has stopped shaking (Picture 12 and 13).

EMERGENCY PHONE NUMBERS

Police: 110

Call this number when you are stuck in somewhere

*English speaker is available 24hrs

Ambulance: 119

Call this number if you are injured

INFORMATION WEBSITES

**PLEASE VISIT FOLLOWING WEBSITES IN ADVANCE

(1) JAPAN DISASTER WEBSITE



(2) SHELTER INFORMATION



(3) DISASTER PHONE NUMBER EMERGENCY CONTACT



171

- (1) http://www.jma.go.jp/jma/en/Activities/eew.html
- (2) http://www.city.nagasaki.lg.jp/kokusai/930000/9390002/93900021/p029495_d/fil/shelter.pdf
- (3) https://www.ntt-east.co.jp/en/saigai/voice171/

SMARTPHONE APPLICATIONS

CARED SAFETY



All disasters, inform your status (safe), 12 languages available

YUREKURU CALL

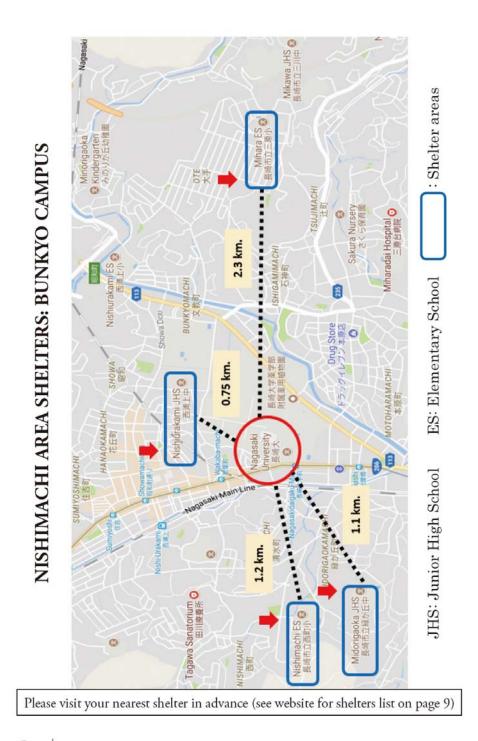


Only earthquake information

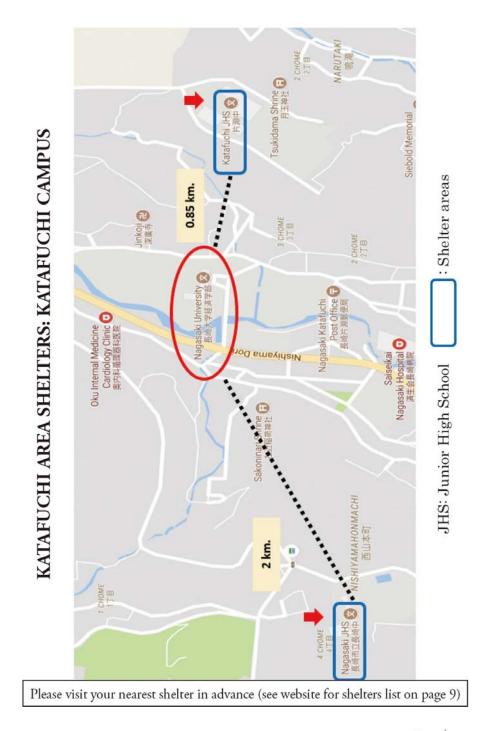
YAHOO JAPAN DISASTER INFORMATION



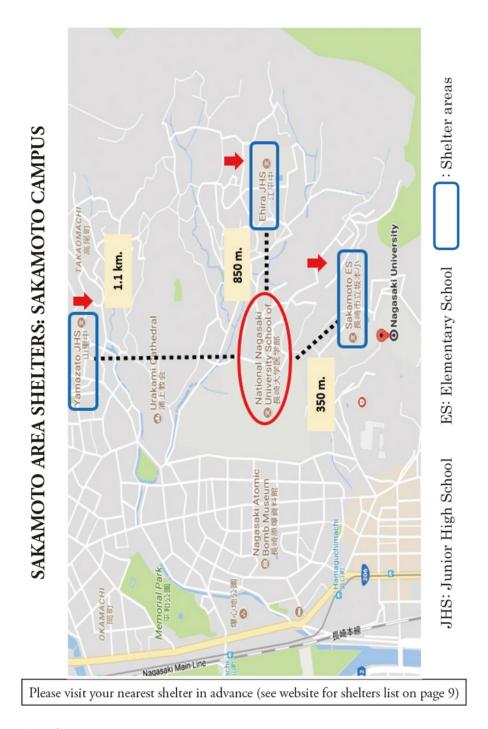
All disasters



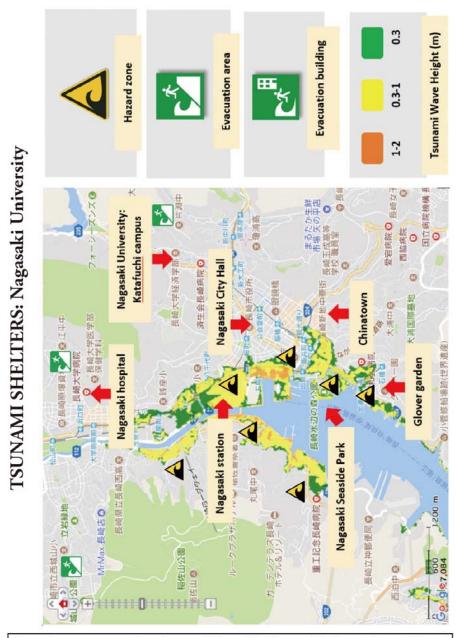
Page 10



Page |11



Page | 12



Sometimes, strong earthquakes are followed by Tsunami in Japan. Be careful and please listen to warnings and/or messages about tsunami from news and/or applications (see applications on page 9)

USEFUL PHRASES IN JAPANESE

English	Japanese	Pronunciation	
Useful terms			
Earthquake	地震	Jishin	
Hypocentre (Tremor location)	しんげんち 震源地	Shingenchi	
Tremor intensity/ power	でなる。	Shindo	
Aftershock	余震	Yoshin	
Evacuation	避難	Hinan	
Fire	かさい	Kasai	
Tsunami	^{つなみ} 津波	Tsunami	
Type of alert			
Advisory	注意報	Chūihō	
Warning	警報	Keihō	
Special warning	とくべつけいほう 特別警報	Tokubetsu-keihō	
Immediate/ prompt report	速報	Sokuhō	
Emergency earthquake immediate/ prompt report	まんきゅうじしんそくほう 緊急地震速報	Kinkyū Jishin Sokuhō	

USEFUL PHRASES IN JAPANESE

English	Japanese	Pronunciation	
Useful phrases			
Excuse me.	すみません。	Sumimasen.	
Help me please.	節けてください。	Tasukete kudasai.	
Is there anyone who speaks English?	************************************	Eigo-ga hanaseru hito-wa imasu-ka?	
Where is (emergency shelter/ police station/ bath room)?	… (避難所 / 警察署 / ドイレ) はどこですか?	(Hinanjo/Keisatsusho/ Toire)-wa doko desu-ka?	
How can I go to (emergency shelter/ police station/ bath room)?	… (避難所 / 警察署 / トイレ) にはどうやって 行けばいいですか?	(Hinanjo/Keisatsusho/ Toire)-niwa dōyatte ikeba iidesu-ka?	
I am hungry.	がないないます。	Watashi-wa onaka-ga suite imasu.	
I am thirsty.	私は喉が 湯いています。	Watashi-wa nodo-ga kawaite imasu.	
Where can I get food/water?	どこで食べ物が / ががかもらえますか?	Doko-de tabemono-ga/ mizu-ga moraemasu-ka?	
Be careful.	気を付けて。	Ki-o tsukete.	

USEFUL PHRASES IN JAPANESE

English	Japanese	Pronunciation	
Introducing yourself			
My Name is	私の名前は…です。	Watashi-no namae- wa…desu.	
I am (name/occupation/ nationality etc.).	がないです。	Watashi-wadesu.	
My address is	^{クメヒレ} 私の住所は…です。	Watashi-no jūsho- wa…desu.	
I am lost.	私は道に迷い ました。	Watashi-wa michi-ni mayoi mashita.	
I work in	かたし はたら 私 は…で働いています。	Watashi-wade hataraite imasu.	
I cannot speak Japanese.	ます。 私は日本語が 話せません。	Watashi-wa nihongo- ga hanasemasen.	
This is my emergency contact person.	これが私の まなきゅうれんらくさき 緊急連絡先です。	Kore-ga watashi-no kinkyū renrakusaki desu.	
Asking for medical assistance			
Please take me to hospital.	がまういん 病院に連れて行って ください。	Byōin-ni tsurete itte kudasai.	
Please call an ambulance.	きゅうきゅうしゃ 救急車を ェ 呼んでください。	Kyūkyūsha-o yonde kudasai.	
I don't feel well.	がたしまるが良くありません。	Watashi-wa kibun-ga yoku arimasen.	
I am injured.	私は怪我をしています。	Watashi-wa kega-o shite imasu.	
Please hurry up.	急いでください。	Isoide kudasai.	

ACKNOWLEDGEMENT

We would like to express our gratitude to the committee of Yume-eno Kakehashi challenge project for funding this work. We address special thanks to Assistant Professor Mai Kumagami, for having given so much of her time and energy to the development of this booklet. We are thankful to Associate Professor Jesse Conway for dedicating his precious time to the proofreading and editing of this booklet. Many thanks to the city hall and other government agencies which provided the information needed in the development of this booklet. And finally, we would like to express our profound gratitude to the president and officials of Nagasaki University and the Leading Program Office whose support made this project become real.

REFERENCES

- Earthquake Intensity Scales in Japan. https://thetokyofiles.wordpress.com [Accessed 15 Dec 2017]
- Fire and Disaster Management Agency of the Ministry of Internal Affairs and Communications. http://www.fdma.go.jp/en/ [Accessed 15 Dec 2017]
- Earthquake early warning System; Japan Meteorological Agency. http://www.jma.go.jp/jma/en/Activities/eew.html [Accessed 15 Dec 2017]
- Evacuation Shelter; Nagasaki City. http://www.city.nagasaki.lg.jp/kokusai/930000/9390002/ 93900021/p029495_d/fil/shelter.pdf [Accessed 15 Dec 2017]
- Disaster Emergency Message Dial (171); NTT EAST. https://www.ntt-east.co.jp/en/saigai/voice171/ [Accessed 15 Dec 2017]

This booklet was developed and written by the following Leading Program Graduate Students:

- 1. Akintije Simba Calliope
- 2. Atsushi Fujioka
- 3. Maiko Akashi
- 4. Mitsuko Hasegawa
- 5. Mpingabo Ilunga Patrick
- 6. Mukendi Kambala Jean Pierre
- 7. Nattawat Chaiyawong
- 8. Nguyen Co Thach
- 9. Pemba Mawonga Christelle
- 10. Pembi Emmanuel
- 11. Rajabali Zadeh Vahid
- 12. Takahiro Ishizaki
- 13. Teerachat Sae-heng
- 14. Asuka Kumagai

© 2018 TECD Doctoral Leadership Program, Nagasaki University