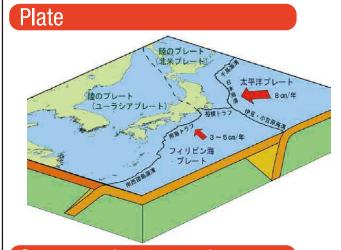
Earthquake

Past earthquakes

Year of occurrence	Month	Day	Magnitude		
1498	9	20	$8.0 \sim 8.4$ (Predicted)		
1605	2	3	7.9 (Predicted)		
1662	10	31	7.6		
1707	10	28	8.7		
1854	12	23	8.4		
1854	12	24	8.0		
1941	11	19	7.3		
1944	12	7	7.9 (Predicted)		
1946	12	24	8.0		
1968	4	1	7.6		
As of 2016					

Hyuga-Nada Earthquake Nankai Tonankai Tokai Earthquake Earthquake Earthquake Meio Earthquake 107 years Keicho Earthquake Hyuga-Nada Earthquake 102 years Hoei Earthquake 147 years 279 years Ansei Tokai Earthquake Ansei Nankai Earthquake 90 years Hyuga-Nada Earthquake 92 years 162 years have passed Tonankai Earthquake 27 years Nankai Earthquake Hyuga-Nada Earthquake

Places where earthquakes occur around Japan

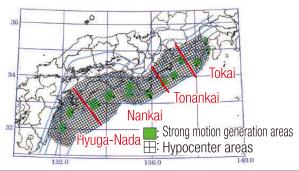


Around Japan, the Pacific Plate and the Philippine Sea Plate, which are sea plates, move toward the North American Plate and the Eurasian plate, which are land plates, at a rate of several centimeters per year, and sink below the land plates. Therefore, complicated forces are generated by multiple plates around Japan, and thus Japan is one of the most earth-quake-prone countries in the world.

Around Japan, when the sea plates sink (subduction), they drag the land plates underground. When land plates are unable to withstand being dragged underground, they spring back up, resulting in an earthquake at the edge of the plate.

Source: Japan Meteorological Agency Website

Strong motion generation areas



As for earthquakes that are most likely to cause significant damage to Fukuroi City, earthquakes that will occur along the Suruga Trough and the Nankai Trough, earthquakes that will occur along the Sagami Trough and earthquakes which will be triggered by inland active faults can be expected.

The figure shows the hypocenters of level 2 earthquakes in a strong-motion fault model (east side case), published by the Cabinet Office (2012), of a potential Nankai Trough Megathrust Earthquake in which Tokai, Tonankai, Nankai and Hyuga-Nada earthquakes are triggered simultaneously.

Source: The 4th Estimate of Damage from the Earthquakes in Shizuoka Prefecture

Earthquake Preparedness

Safety measures in your home

Ensure a safe space in your home

●Ensure a room that will serve as an evacuation area in your home, by creating a room without furniture, etc.



Do not place objects near doors and in hallways

Objects may fall over or may scatter and block doors and hallways. In order to evacuate safely and quickly, do not place objects in these areas.



Do not place tall furniture in bedrooms

Furniture and electric appliances may fall over while you are asleep. Do not place tall furniture and electric appliances in bedrooms.



Secure furniture and prevent glass from shattering

■Take measures such as installing brackets to secure dressers or brackets to keep cupboards from opening. <u>Fall prevention devices for</u> <u>furniture are subsidized by Fukuroi City.</u>



Safety measures around your house

Earthquake-proof your house

• Most casualties in earthquakes are caused by houses collapsing. In Fukuroi City, earthquake-proofing of houses is an ongoing effort, and construction, etc., of wooden houses that only satisfy old earthquake resistance standards (before May 31, 1981), which are considered to have below satisfactory safety protection against major earthquakes, are subsidized.

Remove concrete-block walls

Should a concrete-block wall collapse, someone may be injured or an evacuation route may be blocked. Therefore, concrete-block walls should be replaced with hedges or concrete-block walls should be earthquake-proofed. In Fukuroi City, the removal of hedges and concrete-block walls and the improvement of fences, etc., are subsidized.

Discuss disaster prevention as a family

Determine the division of roles as a family

 As a family, determine the roles of each family member, such as who inspects the emergency survival kit and stocked supplies, or who puts out fires and secures an exit. etc

Also consider an evacuation method when an elderly person, etc., who requires assistance is present.

Check dangerous spots in your home

By exchanging opinions on where the dangerous spots are in your home as a family, it is possible to find all spots where measures such as securing furniture, etc., are needed and share such information with the rest of the family.



Confirm the contact method in the case of an emergency

Decide on a contact method, etc., should family members become separated.

Confirm how to use the Disaster Emergency Message Dial and the disaster message board.

Confirm your evacuation site and the evacuation routes

Decide on several evacuation routes to your evacuation site, and familiarize yourself by walking each evacuation route together as a family. When familiarizing yourself with the evacuation routes, check whether there are any dangerous spots along the way.



Human Sensation/Movement and Indoor State

Seismic intensity scale	Human sensation/movement	Indoor state	Indoor state
Upper 5	Most people will have trouble moving such as having difficulty walking without holding onto something.	Dishes and glasses in cupboards and books on bookshelves will fall out. Televisions may fall from their stands. Unsecured furniture may fall over.	In the middle of an earthquake with a seismic intensity of upper 5 Center for Integrated Research and Education of Natural Hazards Illustrator: Miho Takayama
Lower 6	It is difficult to stand.	Most unsecured furniture shifts, and some furniture may fall over. Doors may become stuck.	In the middle of an earthquake with a seismic intensity of lower 6 Centro Geral de Prevenção de Desastres da Universidade de Shizuoka Illustrator: Miho Takayama
Upper 6	It is impossible to stand, and it is impossible to move without crawling. It is impossible to move while being tossed around by the shaking, and people may be thrown.	Nearly all unsecured furniture shifts, and many pieces of furniture will fall over.	In the middle of an earthquake with a seismic intensity of upper 6 Center for Integrated Research and Education of Natural Hazards Illustrator: Miho Takayama
7	It is impossible to stand, and it is impossible to move without crawling. It is impossible to move while being tossed around by the shaking, and people may be thrown.	Nearly all unsecured furniture shifts and falls over, and some furniture may be thrown.	Seismic intensity of 7 Center for Integrated Research and Education of Natural Hazards Illustrator: Miho Takayama

Source: Explanation of the Seismic Intensity Scale by the Japan Meteorological Agency, Center for Integrated Research and Education of Natural Hazards

Seismic Intensity Distribution Map

Map information provision service
Also published at "Domannaka Fukuroi-navi."
http://www2.wagmap.jp/fukuroi/Portal



