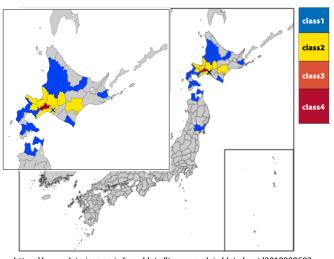
#### **♦**Overview

2018-09-06 03:07 (JST) 2018-09-05 18:07 (UTC)	
6.7	
6.6 (USGS, F-net)	
Eastern Iburi Region, Hokkaido.	
37 km	Ī
Reverse fault with a compression axis in an ENE-WSW direction	
7 (Hokkaido Pref.)	
Class 4 in Hokkaido Pref. (See the figure below)	
41 dead, 9 seriously injured, 646 slightly injured, 64 houses completely destroyed, 57 houses partially destroyed, and 72 houses partially damaged. *1	4
	2018-09-05 18:07 (UTC)  6.7  6.6 (USGS, F-net)  Eastern Iburi Region, Hokkaido.  37 km  Reverse fault with a compression axis in an ENE-WSW direction  7 (Hokkaido Pref.)  Class 4 in Hokkaido Pref. (See the figure below)  41 dead, 9 seriously injured, 646 slightly injured, 64 houses completely destroyed, 57 houses partially destroyed, and 72 houses partially damaged. *1  Two fire incidents occurred; one at the Muroran petrochemical complex and the other at the Tomato-Atsuma

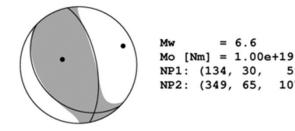
http://www.jma.go.jp/jma/press/1809/10b/kaisetsu201809101100.pdf \*1: http://www.fdma.go.jp/bn/2018/detail/1074.html

### **◆ LPGM JMA Seismic Intensity Map** (See the next page for more information about the scale)



### https://www.data.jma.go.jp/eew/data/ltpgm\_explain/data/past/2018090603 0805/index.html

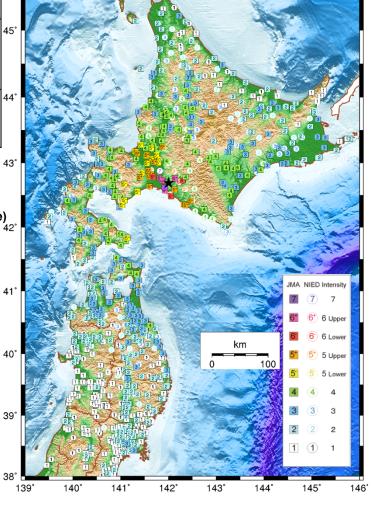
#### **♦**Moment Tensor



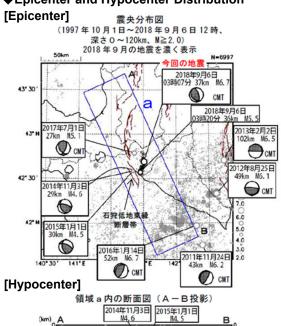
F-net: http://www.fnet.bosai.go.jp/event/tdmt.php?\_id=20180905180700&LANG=en

107)

### **♦JMA Seismic Intensity Map** (See the next page for more information about the scale)



## **◆**Epicenter and Hypocenter Distribution

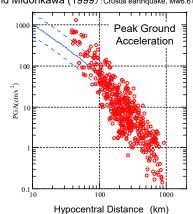


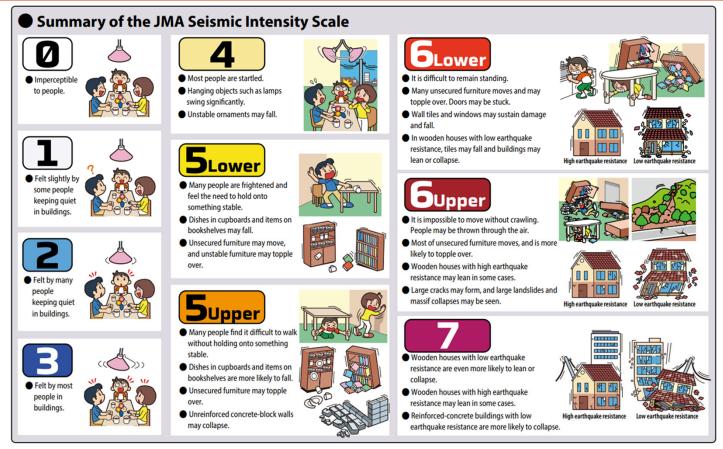


https://www.jma.go.jp/jma/press/1809/06i/kaisetsu201809061730\_5.pdf

#### **◆** Attenuation Characteristics of Ground Motion

- O K-NET, KiK-net (Surface)
- Si and Midorikawa (1999) : Crustal earthquake, Mw6.6 (F-net)





# JMA Intensity Scale for Long-Period Ground Motion

Long-Period (	Ground Motion(LPGM) class	Human perception	Indoor situation
class1		Felt by most people in buildings. Some people are startled.	Hanging items such as lamps and blinds swing significantly.
class2		Many people find it difficult to walk without holding onto something stable.	<ul> <li>Furniture on casters moves slightly.</li> <li>Items in cupboards and bookshelves may fall.</li> <li>Some of unsecured moves and may topple over.</li> </ul>
class3		It's difficult to remain standing.	<ul> <li>Furniture on casters moves significantly.</li> <li>Some of unsecured moves and may topple over.</li> <li>Partition walls may crack.</li> </ul>
class4		It's impossible to remain standing or move without crawling.  People are at the mercy of shaking.	<ul> <li>Furniture on casters moves significantly and may topple over.</li> <li>Unsecured furniture moves and may topple over.</li> <li>Partition walls are likely to crack.</li> </ul>

As Seismic Intensity data only partially express the strength of long-period shaking on higher floors, JMA is using a four-category intensity scale for LPGM to indicate the strength of shaking in high-rise buildings and the possibility of related damage.

The scale quantifies the effects of shaking in a high-rise building with a natural period of around 1.5 to 8 seconds (approx. 14 stories or more). There are four classes based on degrees of human perception and damage, such as toppling or shifting of furniture and fixtures. The conditions indicated are a rough guide, and actual damage may differ. Effects also vary with factors such as building/structural conditions and the duration of earthquake motion.