

The 2016 Kumamoto Earthquake –Seismic Activity and Earthquake Information issued by JMA-

*Noriko Kamaya¹, Naoyuki Yamada¹, Yuzo Ishigaki¹, Kiyoshi Takeda¹, Hidekuni Kuroki¹, Satoshi Takahama¹, Ken Moriwaki¹, Mugi Yamamoto¹, Mitsuharu Ueda¹, Takahiko Yamauchi¹, Miho Tanaka¹, Youko Komatsu¹, Kouji Sakoda¹, Nobuyuki Hirota¹, Jun-ichi Suganomata¹, Akio Kawai¹, Yuki Morita¹, Satoshi Annoura¹, Yuji Nishimae¹, Shigeki Aoki¹, Naoto Koja¹, Koji Nakamura¹, Gen Aoki¹, Tetsuo Hashimoto¹

1. Japan Meteorological Agency

A big earthquake of M6.5 occurred at 21:26 on 14 April, 2016 in Kumamoto region of Kumamoto Prefecture. Its focal depth was estimated at 11km, and the maximum JMA seismic intensity scale was 7, which is the strongest of the scale. After 28 hours of the earthquake, a rather bigger earthquake of M7.3 occurred in the same region, and the seismically active area was spread up to about 150km long, from Kumamoto Prefecture to Oita Prefecture. Just after the latter biggest earthquake (M7.3), another earthquake of M5.7 occurred in central region of Oita Prefecture (The M5.7 is a reference value. JMA Seismic intensity of this earthquake is unknown because of overlapping seismic waves from M7.3 event.), and one and a half hour after the biggest earthquake (M7.3), another earthquake of M5.9 occurred in Aso region of Kumamoto Prefecture (maximum JMA seismic intensity is 6+). Seismic intensities were over 5- for 18 big earthquakes (as of 11 May). JMA named the sequence of this seismic activity "The 2016 Kumamoto Earthquake". In this poster, JMA will report analysis of this seismic activity and earthquake information issued by JMA. Please see relevant abstract "Overview of The 2016 Kumamoto Earthquake" by JMA.

Keywords: Kumamoto Earthquake, Double-Difference Method, Seismic Source Process Analysis, Source Scanning Algorithm, Long-period Earthquake Ground Motion, Earthquake Information