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The M9.0 earthquake off the east coast of Honshu, Japan and related seismicity

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The huge thrust earthquake occurred between the NE Japan micro plate and the Pacific plate on March 11, 2011. It followed a lot of aftershocks and many earthquakes in Japan. The first one is the aftershocks next the north of the mainshock source fault. The Mw7.4 earthquake occurred on March 11th 15:08. The second is the aftershocks next the south of the mainshock source fault. The Mw7.8 earthquake occurred on March 11th 15:15. The third is the seismicity in outer rise of the Pacific plate. The Mw7.6 earthquake on March 11d 15:26 occurred in outside of the Japan trench. The forth is the intra-plate events in the Pacific slab. The Mw7.2 earthquake on April 7th 23:32 occurred. The fifth is the intra-plate events in NE Japan micro plate. The Mw7.0 earthquake occurred on April 11th in south of Fukushima prefecture. It was the normal fault. The sixth is the seismicity along the plate boundary between the NE Japan micro plate and Amurian plate. The M6.7 earthquake on March 12th 03:59 occurred in the Niigata-Nagano border. The seismicity in some regions of the NE Japan micro plate were changed. The seventh is the seismicity in Hokkaido, the north American plate. The seismicity in the south Hakkaido increased just after the maishock occurrence. The eighth is the seismicity in Izu region in Philippine Sea plate. The ninth is the seismicity in Chubu and west Japan. The seismicity was increased in some region, but the other region decreased. The seismic gaps were pointed in some regions.

Keywords: seismicity, induced earthquake, NE Japan earthquake, Off the east coast of Honshu, aftershock