

International Earthquake and Volcano Prediction Center (IEVPC)

P.O. Box 607147 * Orlando, FL 32860
(407) 967-7138

Catastrophic Geophysical Event (CGE) Monitoring and Warning System (CMWS)

CGE Warning Notice (CWN)

- 1. CGE ID #:** 001-04-09-12
- 2. Effective Date and Time:** Monday, April 09, 2012 8:00 AM EST
- 3. CGE Description:** Earthquake with a range between M7.4 and M8.5 and Possible Tsunami
- 4. Warning Stage:** **Stage 6:** A major earthquake and possible tsunami will strike between now and the end of June 2012. Immediate preparations should be taken.
- 5. Location:** Kamchatka Peninsula, Russia
Epicenter Coordinates: 50.5 N, 159.60 E See map attached at page 2.
- 6. Depth:** 20-30 km
- 7. CGE Characteristics:** This predicted earthquake will likely cause widespread property damage and loss of life in Petropavlosk-Kamchatsky, Yelizovo, Razdol'ny and nearby towns. Potential exists for the earthquake to reach a magnitude of 8.0 + and as such may generate a tsunami with dangerous impacts in the area of Kamchatka, Kuril Islands and northern Japanese island of Hokkaido.
- Tsunami wave heights in the general Kamchatka area may range from 3-5 meters. The Kuril Islands, especially for the islands of Shumshu, Severo, and Paramushir, may see wave heights of 6-10 meters. The possibility exists for much larger waves in communities like Severo where island structure lends itself to wave amplification. Tsunami wave height will be recalculated as more accurate magnitude data arrives. Significant loss of infrastructure in many Kamchatka communities is expected with long duration power and communications systems downtimes. Shipping facilities, ships, docks, and airports/runways may receive major damage and be put out of operation.
- The US Hawaiian Islands may experience tsunami wave heights of 1-3 meters concentrated on the northwest shores of the Islands and in particular on Oahu where wave heights will be maximum. Waialua and Kaena Point on Oahu are at highest risk. US Alaskan, and Aleutian Islands, US west coast states, and Canadian west coast may see wave heights of approx. 1 meter.
- South America west coast may see wave heights of 1-2 meters as well as all island groups from the Phillipines to New Zealand.
- All nations and personnel in the general Pacific area noted should be prepared to quickly adjust from the predicted M 7.4 earthquake to a M8.0+ with associated increased dangerous effects from a tsunami. The IEVPC will provide a Stage 7 announcement as soon as presursor signals are detected.
- 8. Principal Researchers:** Dr. Dong Choi, Director of Research, IEVPC
dchoi@ievpc.org

**International Earthquake and Volcano Prediction Center
CGE Warning Notice - Kamchatka**

Epicenter: Coordinates, 50.5 N, 159.6E (marked by a star in the figure below)

Depth: 20 to 30 km

Magnitude Range: 7.4 to 8.5 (to be updated after further assessment)

Area of strongest ground movement: Circled area

