

## Experiment in advance short-term prediction, Issue 2, June 1, 2004

The idea of prediction algorithm is briefly described in the preprint at <http://arxiv.org/abs/physics/0312088>.

Previous documented predictions made since June 2003:

- Two large earthquakes, Tokachi-Oki, Hokkaido, Japan, September 25, 2003,  $M=8.1$  and San Simeon, California, December 22, 2003,  $M=6.5$ , have been predicted seven and six months in advance, respectively.
- So far, we had neither false alarms, nor failures to predict.
- Two current alarms, in southern California and in Northern Dinarides. Reported in Issue 1, May 12, 2004.

### Current predictions

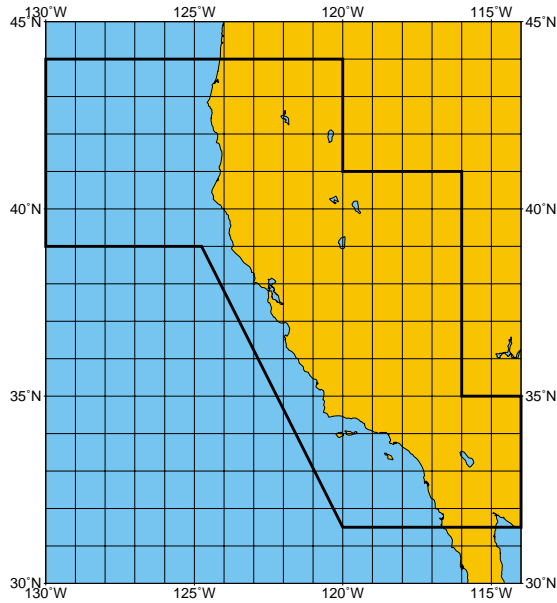
<i>Region/target earthquakes</i>	<i>Current alarm ends on</i>	<i>Probability that a target earthquake will occur at random in the time-area of alarm</i>
California $M(\text{ANSS}) \geq 6.4$	September 05, 2004 <sup>(*)</sup>	0.078
E. Mediterranean $M_w \geq 6.0$	No alarm	
Central Apennines, Alps, Northern Dinarides and Po Valley $M_w \geq 5.5$	November 29, 2004 <sup>(*)</sup>	0.067
Honsu-Hokkaido-Southern Kurils $M_w \geq 7.2$	November 08, 2004	0.074

(\*) Predictions reported in Issue 1, May 12, 2004, of the **Experiment in advance short-term prediction**

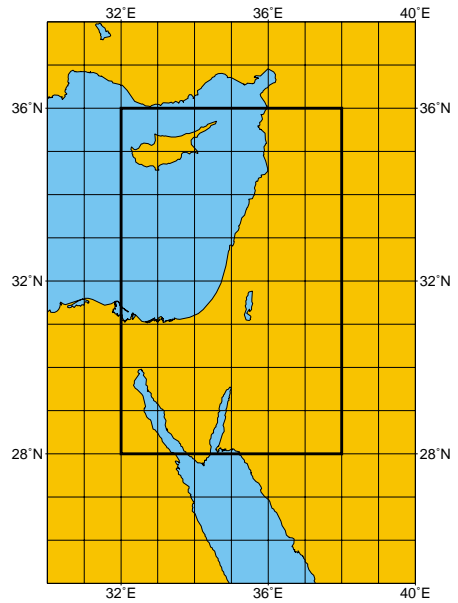
An alarm is issued if the probability of a false alarm is estimated as 0.5 or less.

V. Keilis-Borok, [vkb@ess.ucla.edu](mailto:vkb@ess.ucla.edu)  
P. Shebalin, [shebalin@mitp.ru](mailto:shebalin@mitp.ru)  
S. Uyeda, [suyeda@st.rim.or.jp](mailto:suyeda@st.rim.or.jp)

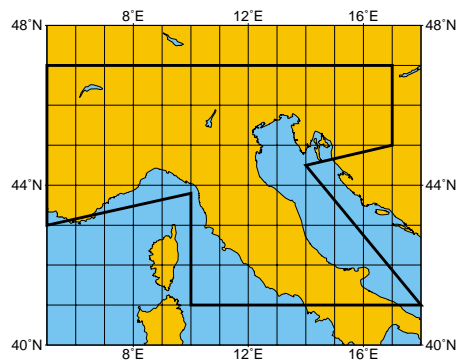
*California and Western Nevada*



*Eastern Mediterranean*



*Central Apennines, Alps, Northern Dinarides and Po Valley*



*Honsu, Hokkaido, Southern Kurils*

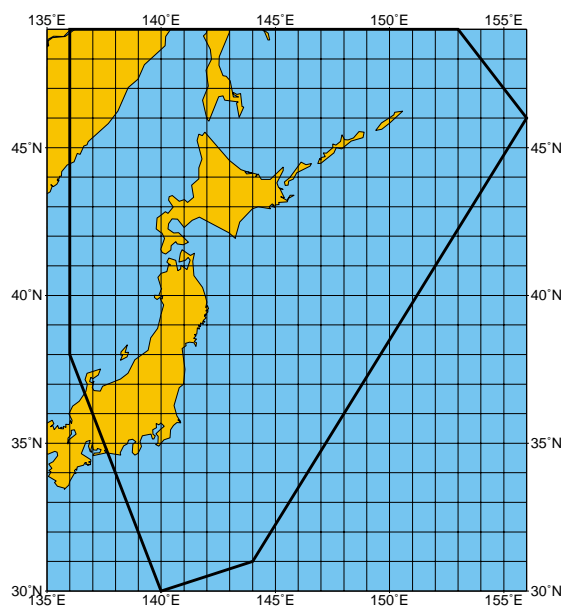


Figure 1: Regions covered by prediction

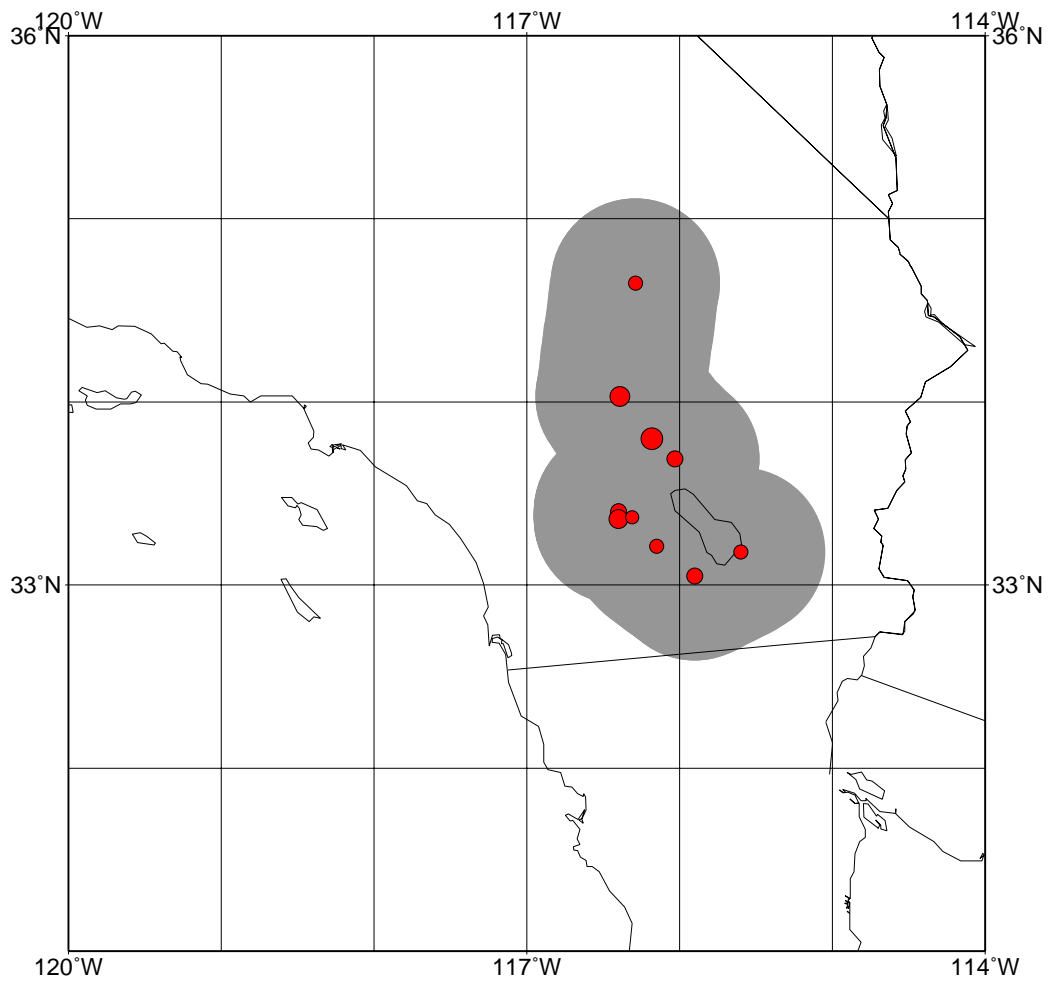


Figure 2: Current alarm for California. Red circles show the earthquakes forming precursory chain. Target earthquake with  $M(ANSS) \geq 6.4$  is predicted to occur within gray area. Alarm ends on September 5, 2004.

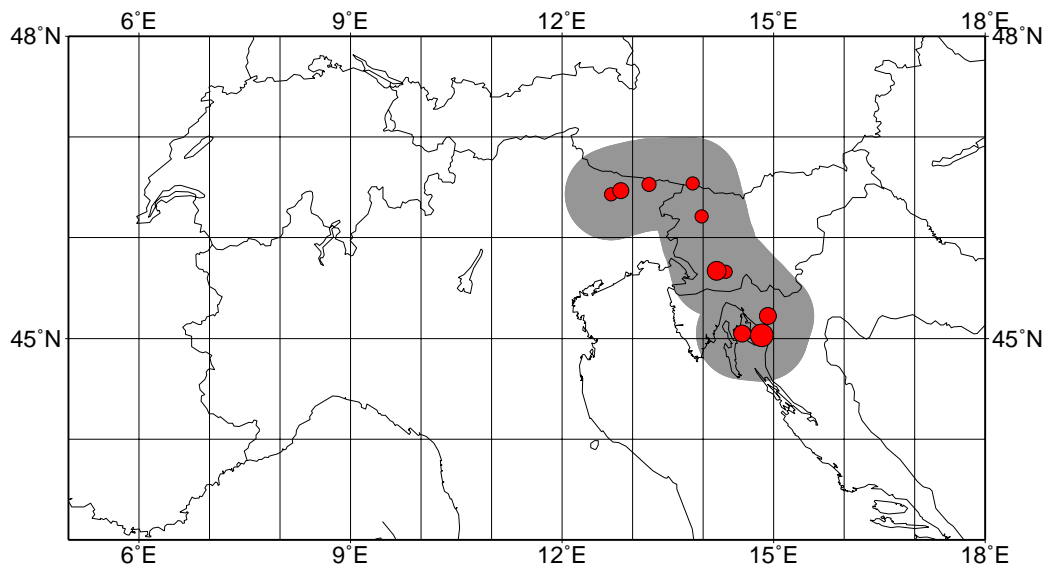


Figure 3: Current alarm for Central Apennines, Alps, Northern Dinarides and Po Valley. Red circles show the earthquakes forming precursory chain. Target earthquake with  $M_W \geq 5.5$  is predicted to occur within gray area. Alarm ends on November 29, 2004.

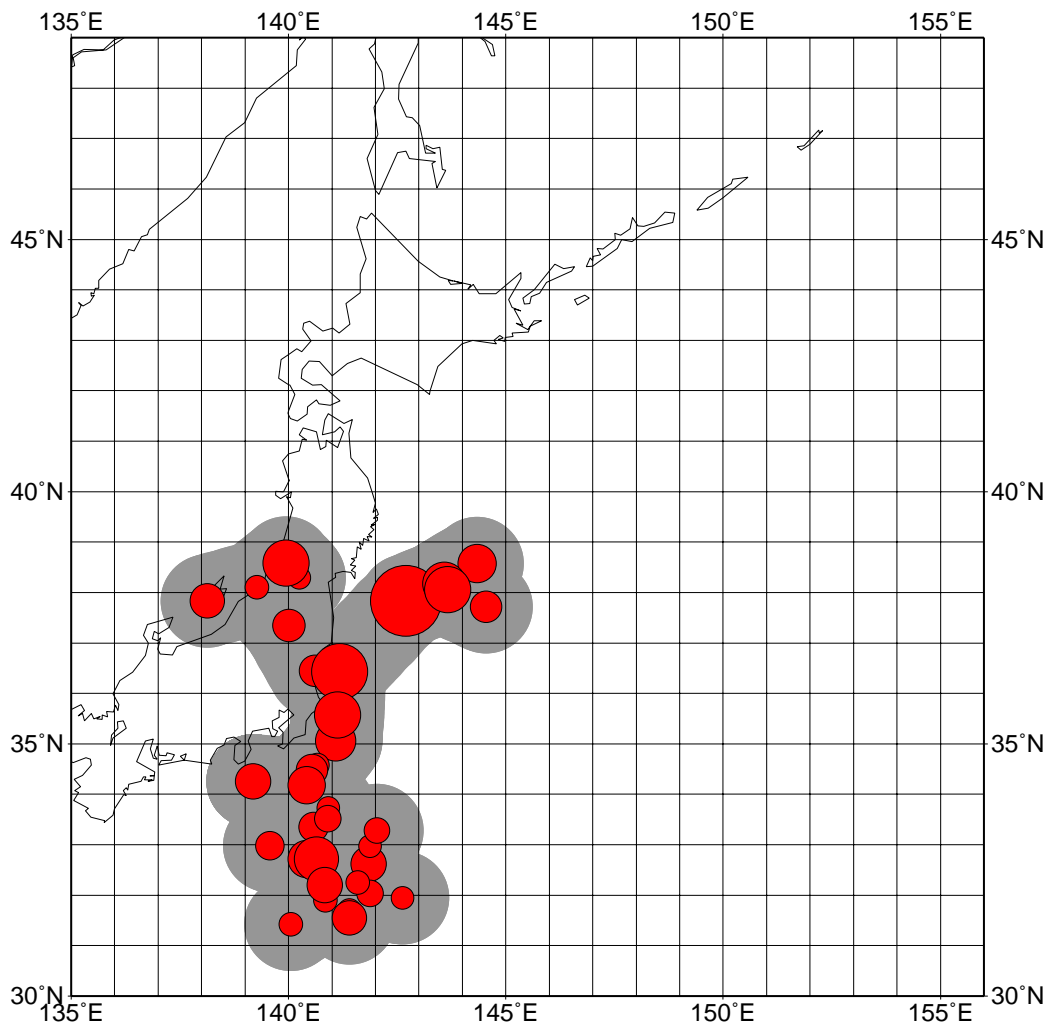


Figure 4: Current alarm for Honsu, Hokkaido and S. Kurils. Red circles show the earthquakes forming precursory chain. Target earthquake with  $M_W \geq 7.2$  is predicted to occur within gray area. Alarm ends on November 8, 2004.