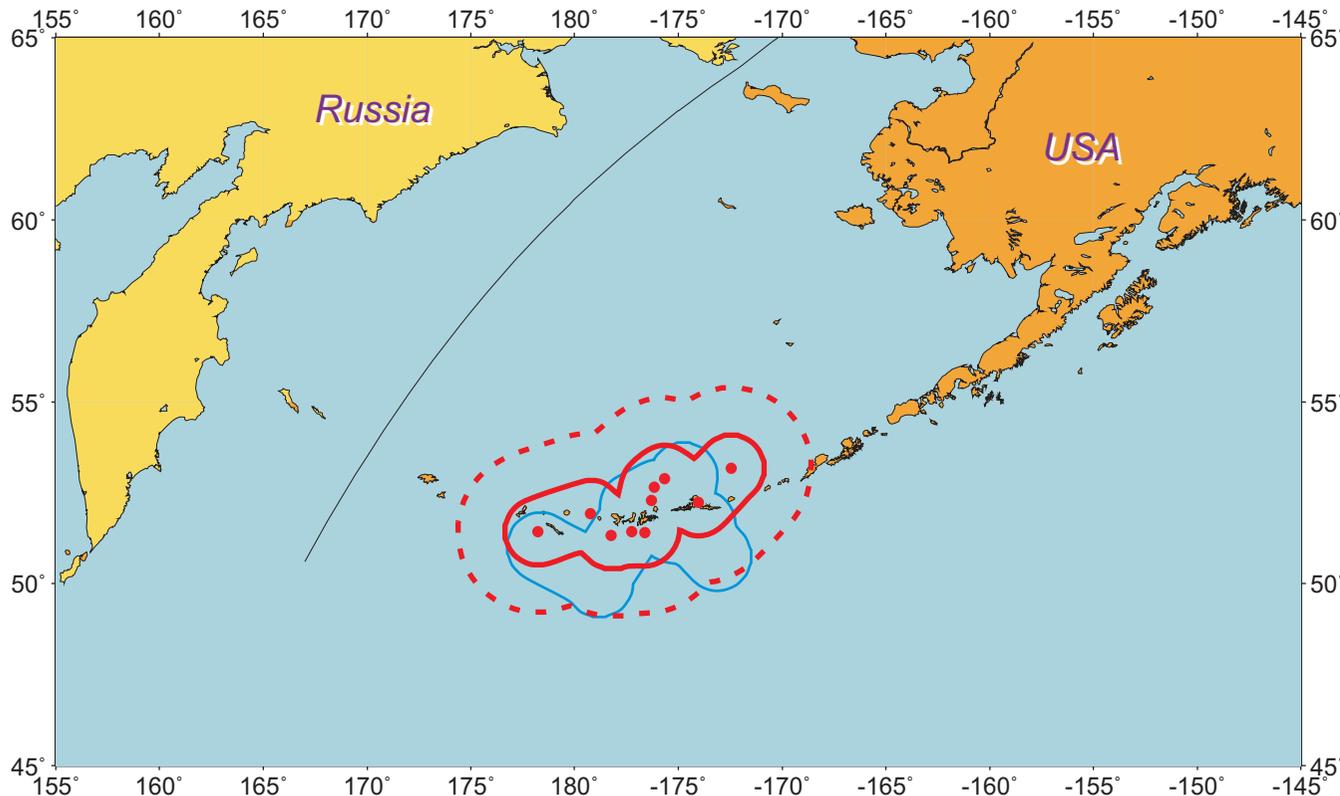


# Prospective earthquake prediction using Reverse Tracing of Precursors (RTP) (complementary to the current test of the RTP method) Prediction #NP1a, July 28, 2007



In November 2006 we have started extension of our test to North Pacific for  $M_w \geq 7.2$ ; here is a prolongation of the first prediction issued on November 10, 2006.

Let us remind that we test in parallel two versions of the prediction algorithm. Test A concerns exactly the same algorithm as before. In test B we made one change: we increased by factor 2.5 the value of the numerical parameter,  $R$ , thus expanding the area of alarm.

An earthquake with magnitude  $M_w \geq 7.2$  is predicted to occur within the time interval from July 29, 2007, to January 28, 2008 in the area shown by red lines in the figure: solid line shows the area of alarm in test A, dashed line in test B. This alarm prolongs in a modified area Prediction #NP1, previously issued on November 10, 2006.

Estimated probability of a false alarm does not exceed 50% in both tests. This alarm and the previous one (#NP1) continue each other in time and cover overlapping areas. Estimated probability that at least one target earthquake will occur by chance within the union of these alarms is less than 13% in both test A and test B.

Red circles show the earthquakes that formed precursory chain on April 28, 2007. Area of alarm is shown by red contours: solid line test A, dashed line test B. This alarm extends previously issued prediction NP1. Blue contour corresponds to that prediction (test A).

**Reminder.** As you know, earthquake predictions should be released to the public or media only by a proper disaster management authority. Otherwise, prediction may trigger profiteering and disruptive anxiety of population. Accordingly, we open an access to our predictions only to professionals who agreed to comply with the above limitation. This restriction is lifted and prediction becomes publicly available when a target earthquake occurs in the area of alarm, or when the alarm expires, independently of was it correct or wrong.