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## The b-value in the Hokuriku and Kinki regions (1976-2009)

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We showed the calculated b-value for the Hokuriku region in this meeting, 2009. Also more wide range was used in the Seismological Society of Japan last year. However, those regions were a little wider, and the data were not homogeneous. Now we select a narrow region for this study.

The data used are from 1976 ? 2009. For Jan. 1976 ? Sep. 1997 were from Hokuriku and Abuyama Observatories, Kyoto Univ., and for Oct. 1997 to Dec. 2009 were from JMA Ichigenka data. Each earthquake was in 34.5-37.0 lat. and 134.5-137.0 long. Depth was 0.0 - 30.0 km. Total number of the earthquakes used was 48,952 for  $M \geq 1.0$ , but the b-values were usually calculated from  $M \geq 1.5$ , from 23,883 earthquakes.

The b-values were calculated for each 0.3 \* 0.3 degree square region, by comparing with the earthquake number with that of the 0.05 degree departed. By this method, we got 10 regions, and b-values were calculated. For example, around Fukui Earthquake fault, Yanagase fault, Hanaore Fault and so on. We will talk about these method and the special features about the results.

Keywords: microearthquake, b value, Hokuriku region, Kinki region, fault