# The hazard prediction models made by the students' analyzing sedimentation and building cracks.

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My working school is located in just above active fault Nagamachi-Rifu. This fault activities are measured several times in past 50 thousand years, but the most are unknown except quake intensity prediction. Our school activities in last year has searched boring core analyzes (depth less than 20m), most layer has been observed sand-volcanic ash sediments.

Our activities has been continued as follows,

(1) Analyzing volcanic ash layers

3 volcanic terms are found. And the other hand, it was not able to find the origin.

(2) Constructing quake model

Volcanic ash layer(s) make soil ground base stronger against quake, students made fundamental mechanic models about this situation.

(3) Searching building crack

In order to mention stress from the ground, it is obviously appeared on the concrete walls in the buildings. Our location is on the boundaries between ocean plate and continental plate, typical direction(s) has been found.

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