

GSU011-09

Room: Exhibition hall 7 subroom 2

Time: May 23 15:43-15:56

A simple and effective visual demonstration

Bunji Suzuki^{1*}, Takemi KOGURE²

¹Kasukabe Girls' High School, ²Kawagoe Girls' High School

This lesson aims to simply show the distribution of volcanoes and earthquake epicenters by showing students different slides (layers) overlapped in order. These slides (layers) show the following:

- (1) Topography of the seabed
- (2) Distribution of the earthquake epicenters (0-10 km depth)
- (3) Distribution of the earthquake epicenters (50 - 500 km depth)
- (4) Distribution of volcanoes
- (5) Map of the plate boundaries (ridge)
- (6) Map of the plate boundaries (trench)
- (7) Map of the plate boundaries (transform)

The visual demonstration of overlapping the different slides in order helped students grasp the relation of volcanic eruptions and earthquakes. Students' reports also gave satisfactory feedback on the demonstration. The demonstration also helped lessen the amount of learning time required, which led to a more effective geoscience study. We expect the demonstration will extend to the other field of science around geoscience. Our lecture is going to mention the possibility.

Keywords: High school, layer, volcano, earthquake, plate