

## Technical problems related with the educational promotion of the geology

TAKAHASHI, Masaki<sup>1\*</sup>

<sup>1</sup>National Institute of Advanced Industrial Science and Technology (AIST), Geological Survey of Japan

It is commonly discussed the difficulties on promoting the geologic results for the students as well as citizens. The one of the most serious problems in the outreach of geology is that no one can understand the geological map except for the expert on geology, that is, the geologists. It is probably regarded that the two-dimension geological map is the horizontal section of the three-dimension geological body. But in reality, the geological map also includes the information of time, such as geologic age. Therefore, the geological map is a two-dimension expression of four-dimensional information. Moreover, the boundary line between geological units will often show much complicated curve, because boundary line on the geological map is an intersection between plane or curved geological boundary and curved surface of the topography. These difficulties should be solved in the geological outreach more readily.

Keywords: outreach, earth science, geology, educational promotion