The state of Earth Science education in high school in the next national curriculum

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Nowadays Geoscience literacy is very important to understand the disaster caused by an earthquake or a volcano, the weather, common human problem such as the environment and resources.

The number of students who choose “CHIGAKU-KISO (Basic Earth Science)” has increased by about 4 times compared with that of the number under the former national curriculum, and some improvement came to be seen in people’s Geoscience literacy.

However we think current situation is not the best, among most high school students three or more subjects are chosen from the following four subjects; "Basic Physics", "Basic Chemistry", "Basic Biology", and "Basic Earth Science".

Therefore, we think that to fit the developmental stage, also all students in high school should firm learn four regions of science, including the Geoscience area.

In Japan Geoscience Union Meeting 2014, we held “The state of Geoscience education in high school in the next curriculum” as a public session.

Based on the previous discussion, we present the following three tentative proposals based on different points of view about the subject, subjects set of high school earth science area, in order to deepened discussion about the future direction.

(A) Modified selective subject based on the current "Basic Earth Science"

(B) New high school general science with the contents necessary as earthian

(C) Novel compulsory subject which is mixed Geoscience, Geography, environment, and natural disaster prevention

From these three tentative proposals, discussion and tentatively English named “Subcommittee on Geography Education” on the Science Council of Japan, Future Earth initiative, ESD (Education for Sustainable Development), questionnaires survey of Basic Geoscience that we have targeted high school teachers was conducted, we propose the state of Geoscience education in high school in the next national curriculum.

Keywords: next national curriculum revision, high school earth science education, subject setting, Future Earth design, ESD (Education for Sustainable Development)