[M-IS35_30PM2] Geopark
Convener:*Kuniyasu Mokudai(Pro Natura Foundation Japan), Takayuki Arima(Graduate School of Urban Environmental Sciences, Tokyo Metropolitan University), Marekazu Ohno(Unzen Volcanic Area Geopark Promotion Council), Yoshihiro Hiramatsu(School of Natural System, College of Science and Engineering, Kanazawa University), Takayuki Ogata(Faculty of Education, University of the Ryukyus), Mahito Watanabe(Institute of Geology and Geoinformation, National Institute of Advanced Industrial Science and Technology), Chair:Kuniyasu Mokudai(Pro Natura Foundation Japan)
Wed. Apr 30, 2014 5:15 PM - 6:00 PM 211 (2F)
Interdisciplinary discussion on evaluation of geoheritage, method of geoconservation, regional development, relationship between local government and education and science communication, are main subject of this session. Any topics for activation of geopark are encouraged.

5:15 PM - 5:30 PM
[MIS35-P03_PG]The effects of experience-based science and environmental education on Byobugaura geosite in Choshi Geopark
3-min talk in an oral session
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Keywords:Geopark, Choshi, Science education, tephra, Byoubugaura, Life cycle thinking

Choshi geopark is certified by Japan Geopark Committee (JGC) at September 24, 2012. In this study, we will introduce the contents and the effects of geoscience education program for junior high school students using Byoubugaura geosite in Choshi Geopark. Choshi, located at the east end of the Boso peninsula, 100km east of Tokyo, Chiba prefecture, Japan, has many geological heritages that should be preserved and passed on to future generations. Representative geological features in Choshi are as follows. First, the Bioubugaura geosite, comprising Pliocene and Pleistocene sedimentary rocks, is approximately 9 km in length and 30~50 m in height and faces the Pacific Ocean. This topography, which is also called "Dover in the East", consists of sharp cliffs formed by land erosion resulting from sea waves. According to a previous report, the speed of erosion is 5~6 m per year. To prevent erosion, seawall was constructed in 1966. The seawall was a necessity for the residents' safety even though it negatively affected the geo-heritage. Second, Inubouzaki geosite, the Cretaceous shallow sea sediments, designated as a government national monument, are exposed in the Inubouzaki coastal area at the east end of the Choshi peninsula. Third, the "Inuiwa" geosite, carried on the tradition of the "Yoshitune legend" which is a legend concerning a samurai warrior in the medieval period of Japan, are composed of Jurassic greywacke, mud stones, and conglomerates that includes calcareous coarse fragments with fusulina fossils. Our education program using Byoubugaura geosite designed it to be usable by a curricular science class of the junior high school, and it conclude for one day. The contents of this program compose two parts, the morning part contain geotour and tephra sampling in the Byoubugaura geosite, and the afternoon part consisted of geological lecture and stereomicroscope observation of tephra constituents, e.g. volcanic grass and minerals etc. The results of questionnaire analysis for participants show (1) this program is understandable for major part of attended students, (2) this program have good effects for induction of affection for local environment, and (3) this program increase desiring to learn for earth science.