[EJ] Evening Poster | H (Human Geosciences) | H-CG Complex & General

## [H-CG24]Earth surface processes related to deposition, erosion and sediment transport

convener:Koji Seike(Geological Survey of Japan, AIST), Naofumi Yamaguchi(Center for Water Environment Studies, Ibaraki University), Hajime Naruse(京都大学大学院理学研究科, 共同), Hideko Takayanagi(Institute of Geology and Paleontology, Graduate School of Science, Tohoku University) Sun. May 20, 2018 5:15 PM - 6:30 PM Poster Hall (International Exhibition Hall7, Makuhari Messe) To understand landscape evolution and dynamics of erosion, transport and sedimentation of earth-surface materials, the latest results of multiple research fields including engineering and earth sciences will be presented. As well as any researches of sedimentology and sedimentary petrology, interaction between fluid, sediments and geomorphology is focused. Interdisciplinary discussions of science, disaster prevention and resource exploration will be expected.

## [HCG24-P08]Origins of marine sediments in Otsuchi area

\*MUTSUMI IIZUKA<sup>1</sup>, TAKAFUMI KASAYA<sup>2</sup>, MANA YASUI<sup>3</sup>, HIROSHI HAGIYA<sup>1</sup> (1.Tokyo city university, 2.JUMSTEC, 3.Waseda university)

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Sediments and rocks of the around Otsuchi bay ware analyzed in order to consider the origin of marine sediment that the at Otsuchi bay area. Rivers such as Otsuchi ,Kozuchi and Unosumai flow into Otsuchi bay. Geological around Otsuchi bay are mainly massive granodiolite and accretionary complexes. The marine sediments collected by grab sampler and Multiple corer. (these samples are collected by Tohoku Ecosystem-Associated Marine Sciences:KS15-12) Samples are analyzed by the method at grain size analysis, X-ray Fluorescence analysis(XRF) and observation by SEM and stereomicroscope. There was a difference in grain composition ratio and XRF value in three rivers from the result of observation. Especially the Nb / TiO2ratio clearly differed in each of the three rivers. From Nb/TiO2ratio results, the following can be considered(1)Sediment's composition of 10km off and mouth of Otsuchi bay are the same in range from the North to the South 8km. It means the origins of these sediments are transported from the north area. (2)The core a part of Otsuchi bay are affected by granite origin sediment.(3)Unosumai river sediments and other sediments are mixed from Otsuchi bay mouth to 10km off.For the analysis in vertical direction of the cores, XRF, grain size analysis and observation by SEM was used. From these results, Tsunami deposit was recognized at upper part of these cores.