

Japan Geoscience Union Meeting 2011

(May 22-27 2011 at Makuhari, Chiba, Japan)

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HGM002-02

Room:301A

Time:May 25 16:45-17:00

Preliminary report on limno-geomorphological changes in Darhad Basin, Northern Mongolia

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Proper interpretation of long-term environmental changes is of great help for future provision and prosperity of human beings only when it is based on process- and mechanism-understanding. In general it is difficult to understand long-term records appropriately on the basis of physical, chemical and biological processes because they are complex and lack of quantitative information available for mathematical models to be used for prediction. In this context lake-catchment systems are one of possible promising ones for providing long-term information with process-understanding. Studies on temporal changes in lake-catchment systems may make clear correlations between landscapes and environmental changes through sediment information and lake-catchment observation, both in short-term and long-term.

We (Darhad Drilling Project (DDP) group) have made some expedition and core-sampling in Darhad paleo-lake, northern Mongolia for clarifying long-term hydrological changes and geomorphic processes since 2009. Here we introduce the outline of the project and some preliminary results of long lacustrine sediments from the lake.

Keywords: lake-catchment system, lacustrine sediments