

Japan Geoscience Union Meeting 2011

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

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HCG036-01

Room:202

Time:May 24 10:45-11:00

Current status and issues of grain-size analysis using dynamic digital image method for sediment

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Grain-size analysis is fundamental to sedimentology, but despite technological advances in lab instruments, grain-size analysis is still slow and heavy. Most approaches to grain-size analysis of sediment have utilized mechanical sieving, settling through a column of water or laser diffraction. The dynamic digital image analysis is the most efficient method for grain size and particle shape measurement of sediment because of the wide measuring range from silt to pebble size grain at the same time. In this presentation, we would like to review about current status and issues of grain-size analysis using dynamic digital image method for sediment for example data from the Horiba CAMSIZER at Geological Survey of Japan, AIST.

Keywords: current status and issues, grain-size analysis, dynamic digital image method, sediment, particle shape