

# Japan Geoscience Union Meeting 2011

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HQR022-P02

Room:Convention Hall

Time:May 24 10:30-13:00

## Correlation of the alluvium bed on and off shore area of the Echigo Plain

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We recognized to clarifying the alluvium beds in the Echigo Plain based on 1. analyzed sedimentary facies analysis of 8 drilling core samples (on and off shore area), 2. about 10,000 borehole log data, 3. 9 tremor array measurement and 4. high resolution seismic survey (on and off shore area). We correlate the on and off shore alluvium beds by the transgression after the last glacial age and high-stand of sea level respectively. 6 cross sections across the Echigo Plain and basement countour map of the alluvium beds in and around the Echigo Plain.

Alluvium beds tilt west northern part and western part of the Echigo Plain. Central part of the Echigo Plain, Vast sediments from old Shinanogawa river and Aganogawa river filled incised valley transgression after the last glacial age (16kyr BP ? 9kyr BP). barrier ? lagoon system develop in the Echigo Plain when high-stand of sea level(after 9kyr BP).

We can correlate the alluvium beds, but problem won through up to the depth conversion.

Keywords: Echigo Plain, Chuseki so, Niigata, Quaternary, Kakuta- Yahiko Fault