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## Coastal transportation process of sands estimated from bleaching percentage of feldspar in Niigata Prefecture, Japan

Ryo Hayashizaki<sup>1\*</sup>, Masaaki Shirai<sup>1</sup>

<sup>1</sup>Tokyo Metropolitan University

The conventional shore protection facilities which are constructed against to coastal erosion often induce another coastal erosion because it disconnect sand grain transportation system.

We attempt to understand coastal sand grain transportation processes along the Echigo Coast, Niigata Prefecture where erosional/depositional tendencies of beach are distinguished clearly due to construction of the New Shinano River (the Okouzu spillway) since 1922. In addition to usual approach such as grain size analysis, bleaching percentage (BLP) distribution analysis of alkali feldspar grains is carried out now. BLP is estimated based on OSL (Optically Stimulated Luminescence) intensities of individual alkali feldspar grains.

BLPs around the river mouth of Okouzu spillway increase according to horizontal distance from the river mouth, while grain size decrease. Subsequent analysis may elucidate sand grain transport process of the area.

Keywords: transportation, OSL, grain size, sand grains, coastal erosion, Echigo Coast