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Coastal transportation process of sands presumed from OSL intensity of alkali feldspar around the Sinano river mouth

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In this research recent coastal sand grain transportation process around the Shinano river mouth is presumed using the bleaching percentage (BLP) estimated from OSL intensities of alkali feldspar grains contained in sand samples in addition to grain size distribution and the minerals ratio that had been used previous researches. The BLP distribution has the possibility of being useful for estimating recent coastal transportation process of sand grain which is not understood enough by the traditional method of grain size distribution and the mineral ratio. Generally, it is expected that bleached grain increase if transportation distance increase. Whereas sand grains eroded from beach probably obtained OSL intensity during its burial at beach.

As a result of research, it was presumed the sand grains which supplied from Ohkouzu Diversion Channel were transported to about 23 km northeasterly the Yotugouya-hama beach. The BLP distribution indicates the sand eroded from beach transportation process at the Nozumi beach, northern side of the Ohkouzu Diversion Channel mouth.

Keywords: transportation process of sands, OSL, alkali feldspar, grain size distribution, beach erosion, Ohkouzu Diversion Channel