

Three dimensional model of incised-valley fills using borehole database and its application

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Borehole databases of soil survey have been used for investigating depositional processes of incised-valley fills and ground properties. In the databases, each borehole data includes a position coordinate, and lithofacies and N-values of the borehole data are digitized in each depth obtained. Recently, three-dimensional models of *Chuseki-so*, such as incised valley fills, are constructed from the databases. Those models are classified into some types, such as the type using bed-by-bed correlation or the regularly gridded type based on statistical analysis for borehole data. We show three-dimensional models of incised valley fills and its application for sedimentary geology based on the methods of Eto et al.(2007) and Eto et al.(in press).