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Subsurface Geology and surface structure in Osaka plain using borehole database.

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In Osaka Plain, Holocene and Pleistocene sediment are observed around surface. These deposits include fifteenth layers of marine clay; refer to Ma-1, Ma0, and Ma1 to Ma13. Geological study indicates that these alternating clay layers are deposited due to glacial and interglacial cycle. Ma12 and Ma13 are Late Pleistocene and Holocene sediment respectively and are distributed near surface. Geo-database Information Committee of Kansai Area has developed the geotechnical database around Kansai Area. For the development of the geo-database, urban area has been focused because of its social and economical importance. More than 50,000 borehole data were collected and digitized. Basically, these data consist of information only soil classification (grain size), N values and some soil test data. In 2006, we conclude the distribution of these Ma12 and Ma13 marine layers around Osaka bay area using geological borehole data. However this distribution map is classified on the point of lithography and facies using sedimental environment. In this study, we consider about the structure including Higashi Osaka Area. Higashi Osaka area is not as similar as West Osaka area. This area is deep related about active fault (Ikoma fault) and River systems. In this study, we would like to show the distribution of subsurface deposit around west and east Osaka area and discuss of its properties.