

Geological features around the Tokyo International Airport D runway under construction(Preliminary report 2)

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Lithology and depositional environment of Nanagochi and Yurakucho formations are investigated in and around Tokyo International Airport(Haneda Airport) D runway (hereafter Haneda runway) under construction.

1.Nanagochi formation

The Nanagochi formation, mainly AP-45m to AP-70m deep, is characterized by sand and mud alternations, and rich in sand pipes.

The basal gravel(BG) is not confirmed but the base of this layer inclines gently towards to the direction of buried valley of older Tama River.

Moreover,a pure layer of scoria,1cm in thickness and 1mm in grainsize is found about AP-52m,may be the origin of the Older Fuji volcano.

This scoria layer is probable to be used as a key in Haneda area.

2. Yurakucho formation

A oyster shell layer(*Ostrea gigas*) is included around AP-41.5m. It is confirmed to be the same horizon as that of fossil oyster reef in C runway by Sekimoto et al.(2008), because of the similarity in age and depth. The horizon of oyster layer declines gently from C to D runway.

3. Depositional environment (Yurakucho and Nanagochi formations)

The former environment around AP-39.60m suggested from shells of Pinnidae and Tellnidae is very different from that of oyster layer of AP-41.5m. This fact suggests that the depth of sea-water increased rapidly between AP-41.5m and 39.6m,along with the big change in environment.