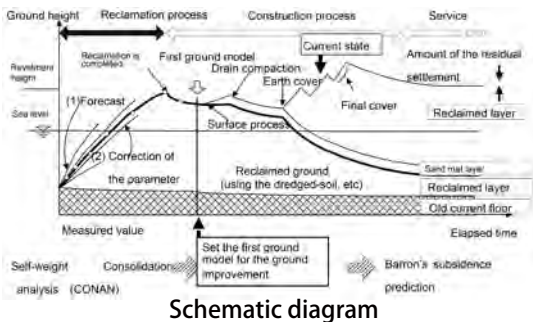


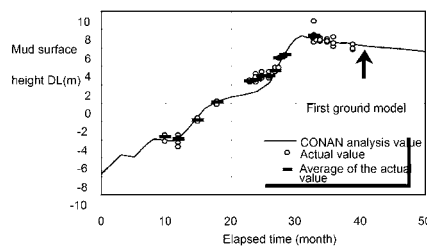
Survey on the reclamation for New-Kitakyusyu Airport



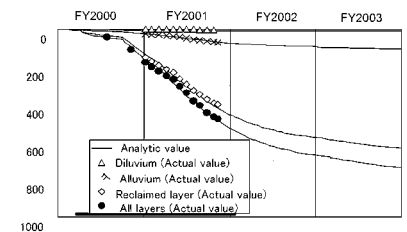
Air view of New-Kitakyusyu Airport



Schematic diagram



Comparison between the forecast analysis of the reclamation and the actual values



Comparison between the forecast analysis of the subsidence and the actual values

Ordering party : Costal Development Institute of Technology

Location : Kitakyusyu, Fukuoka Prefecture

Project summary : Class 1 airport

Area: About 160Ha

New-Kitakyusyu airport was constructed in the offing of the old airport, where the land was mainly filled up with the clay dredged at the time of the runway construction. This kind of land can not be consolidated by self-weight of the soil particles, thus leading to the ground subsidence of about 8m.

To strengthen such soft ground, the earth cover was conducted before the construction of the airport facilities. The designing of the ground improvement was also implemented to accelerate consolidation of the soft ground that subsides over a long period of time. Normally, the ground model is set based on the results of the soil survey, but New-Kitakyusyu airport planned to be build in a short period of time required the designing of the land improvement in the middle of the reclamation.

We simulated the process of reclamation with the dredged-soil and did the designing of the land improvement based on the results of the subsidence prediction analysis conducted before the completion of reclamation.

Although there was not much difference between the result of the subsidence prediction and the actual value, we will improve its accuracy with reference to the results of subsidence monitoring.