

Geo-visualization of Endemic Malaria and Irrigation and Drainage Project in Miyako Island

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For the geographical environmental reconstruction of endemic malaria in Miyako Island, this study combines high resolution DEM (5m or 10m) with topographical maps published in the early 20th century and make 2D and 3D maps from there. And I mapped irrigation and drainage project contents carried out after return to Japan of 1972.

The study area is Higashi-Nakasonesoe of the Miyako Island. The Island is almost covered by the elevated limestone, but the study area is covered in the soil of mudstone, and is affected by the cliff made of fault. Therefore, Higashi-Nakasonesoe was the worst endemic malarial area in the Island. After 1972, the modernization was carried out in this area by enforcement of the irrigation and drainage project.

Keywords: Endemic Malaria, Geographical Environment, Irrigation and Drainage Project, Geo-visualization, Miyako Island