

Geographic Environment Reconstruction and Geo-visualization using High Resolution DEM and Old Printed Map

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This study combines high resolution DEM (5m or 10m) with topographical maps published in the early 20th century and make 2D and 3D maps. By such a work, I try the then geographical environmental reconstruction and geo-visualization.

The main study area is Sakishima Islands of the early 20th century. In Sakishima islands in the first half of the 20th century, 1000 to 2000 malarial patients were reported in every year. According to the old research findings, there was much endemic malaria in Sakishima islands in the island of continentality or volcanic island, and it was distributed over the area where there is a vertical interval of land and the basin system network progressed.

Keywords: High Resolution DEM, Printed Map, Geographical Environment, Geo-visualization