Potential Analysis of the Population Density Distribution in Southeast Asia

Michihisa Umekawa
Center for Integrated Area Studies, Kyoto University
Japan
umekawa@cias.kyoto-u.ac.jp

Abstract

Numerical analyses about the population density distributions in the six continental Southeast Asian countries are carried out. From using newly applied "population density potential," quantitative properties for these countries are shown. This new potential means that, for example, how much strength some regions attract the population and the "force" determined by the population density potential is effective. The population density potential is calculated by numerical computation using ICCG scheme to solve partial differential equations. From numerical results, the continental Southeast Countries are categorized two or three groups by the structure of the population density potential. In the Laos and Myanmar models, potential dents without population concentration is discovered. This structure can be only seen from the population density potential analysis. These properties of population density potential may use as one of the index for assortment.

Keywords: Population density, Continental Southeast Asia, Numerical analysis