

The Integration of Spatial Information for Management of Food and Health Security: The Case of Laguna Lake, Philippines

Kiyoyuki YAOTA*, Satoshi SAITO, Razafindrabe H.N. BAM, Ryohei KADA
Research Institute for Humanity and Nature, Japan
k-yaota@chikyu.ac.jp*

In recent years, Asian countries are faced with various problems on environmental management and related impacts to food and health security. Therefore, urgent designs of policy by a country or local administration are required. For planning such policies, it is inefficient to focus on agricultural area alone; it is indispensable to grasp the whole country as an expansion from a city to a rural area. For that purpose, the use of “spatial information” covering the whole area, especially the seamless data map is desirable.

To date, the resolution of satellite image was low and it was difficult to apply for agricultural area in Asia. Recently, the high resolution and comparatively cheap satellite image like ALOS (Advanced Land Observing Satellite) has become widely used. The purpose of this research is to build and design a platform that manages food and health security and to clarify the issues for making a policy more efficient using spatial data map based on satellite images in Laguna Lake, Philippines.