THE GIS APPROACH METHOD FOR SUMMARIZING VIETNAM AGRICULTURAL COOPERATIVES MODELS TRANSFORMED ACCORDING TO THE VIETNAM COOPERATIVE LAW 2012

Thai Tran Thi, Nghia Nguyen Viet

ABSTRACT

At present, the cooperatives in Vietnam are transforming both the mode of operation and the organization. However, the results of transformation are still limited. There are many cooperatives has not transformed or transformed but without successful. Therefore, it is necessary to apply the new technology to evaluate the causes, limitations, etc, from overview to the detail, since then the managers can be made a timely decision. This paper deals with the focused results of GIS serves to summarize successfully transformed agricultural cooperative models according to the Vietnam Cooperative Law 2012.

THE ANALYSIS OF THE RISK OF MALARIA OUTBREAK DUE TO CLIMATE CHANGE IN THAILAND USING GIS-BASED MODELLING

Chirakorn Seangprong

Naresuan University

ABSTRACT

The aims of this research are to simulate the climate change model in order to identify the relationship of malaria outbreaks and climate change indicators and to analyze the outbreak pattern of malaria due to climate change. SimClim program based on the global climate research framework of the comparative modeling work group (CMIP5) was used in this research.

The simulation of climate change in Thailand during 2016-2066 showed that the average temperature change, the average maximum, and minimum temperature are higher in summer than in other seasons, moreover the average temperature is related to the outbreak of malaria in Thailand. This study used the mean temperature, forest area, proportion of farmers, and proportion of hospital beds as variables. The malaria endemic area analysis is based on the equation; Risk = Hazard x Exposure x Vulnerability. It is found that Kanchanaburi, Kamphaengphet, Chaiyaphum, Chiang Rai, Trat, Nakhon Ratchasima, Narathiwat, Nan, Petchabun, Ranong, Mukdahan, Lamphun, Loei, Sakon Nakhon, Satun, Sukhothai and Uttaradit are the areas with the highest outbreak of malaria, especially in summer and rainy season.