REAL-TIME WEB GIS TO MONITORING WILDFIRE USING VIIRS SATELLITE IN CHIANGRAI PHAYAO PHARE AND NAN PROVINCES

Phaisarn Jeefoo, Nion Sirimongkonlertkun, Sukthai Pongpattanasiri

University of Phayao

ABSTRACT

We present a real-time wildfire monitoring service that exploits VIIRS satellite to detect hotspots and monitor the evolution of fire fronts. The service makes heavy use of VIIRS satellite for hotspots on national forest, forest conservation in Chiangrai, Phayao, Phare and Nan Provinces, Northern Part of Thailand. Geographic Information System (GIS) technology is ideally suited as a tool for the presentation of data derived from continuous monitoring of locations and used to support and deliver information to environmental managers and the public. Combined with GeoServer, PostgreSQL/PostGIS, it extends the web GIS capabilities in providing real-time data from the monitoring activities.

Therefore, there is a growing need of Web GIS for easy and fast dissemination, sharing, displaying and processing of spatial information which in turn helps in decision making for various natural resources-based application.

APPROPRIATE ACCURACY OF CARTOGRAM INVENTION FOR PESTICIDE USING AREA IN BANTAK AGRICULTURE COOPERATIVE SECTION, TAK, THAILAND

Jiratchaya Jewpanya, Anujit Vansarochana, Ratchada Pantong, Chonthicha Kammani, Thidarat Sunthonthip

Dept. of Natural Resources and Environment, Faculty of Agriculture Natural Resources & Environment, Naresuan University, Phitsanuloke, Thailand 65000

ABSTRACT

Cartogram is the highly diagrammatic representation as being more interested in GIS application ideas, for show Pesticide using area. This study area stand for corn fields and soybean plantation, our research collected pesticide using data in 5 years period (2011-2016) and apply with QGIS cartogram creator tool for create contiguous cartograms. Absolutely, accuracy of cartogram is be match up with cartographic concepts, all results has shown increasingly pesticide quantities in every years, thus, according to more expansion of farm plants area and almost farmers take pesticide to control Plant diseases.

Therefore, cartogram creation technique could be useful for symbolize any pesticide using areas and also good for inspire more farmers in South East Asian countries, to take a new turn to apply GIS techniques for his/her plants activities.