Creation and Validation of High Resolution Crop Type Map of Mae Wang Basin in Northern Thailand Using the Time Series Analysis of NDVI

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Synopsis

Through the time series analysis of NDVI, the global distributions of crop type and cropping calendar have been created. Regarding differences of NDVI shape as phenology which shows characteristics of crop, croplands are classified into various crop types. In this sense, this isn’t applicable to mixture area of many crop types or landuse. Thus, the filed survey of the information about cropland (crop type, location and cropping calendar) of Mae Wang basin in northern Thailand is conducted. Using the result of this survey for creation and validation, high resolution crop type map is created through the time series analysis of NDVI.

Keywords: NDVI, MODIS, time series analysis, crop map, crop calendar, Mae Wang basin