NDVI時系列解析を用いた
北タイメーワン流域における高分解能作物分類とその検証

萬和明*・田中賢治・中北英一・池淵周一

*京都大学大学院工学研究科

要 旨

筆者らが独自に提案している NDVI 時系列解析による作物分類・農事暦作成手法は，対象が全球で空間分解能1度，時間分解能1ヶ月である．そこで，より詳細なデータセット作成を目的とした農地情報取得調査を北タイメーワン流域で実施し，前述の手法を適用・検証した．調査項目は作付け作物・生育期間・灌漑実施の有無である．作物分類は MODIS/Terra NDVI（空間分解能 250m）を使用し，この手法が高分解能 NDVI でも適用可能であることを確認した．

キーワード： NDVI, MODIS，時系列解析，作物分類，農事暦，Mae Wang basin

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

Kazuaki YOROZU*, Kenji TANAKA, Eiichi NAKAKITA and Shuichi IKEBUCHI

*Graduate school of engineering, Kyoto University

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