

Abstract

USING TIME SERIES DATA FOR FOREST MONITORING IN VIET NAM

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Viet Nam is recognized as one of the world five countries most- affected by climate change. In view of this, an accurate database of deforestation and degradation is useful and urgent need for reducing greenhouse gases emission at global scale in general and for sustainable forest management at national scale in particularly. Therefore, it is necessary to conduct forest change studies that focus on assessing conditions of forest in the past and present toward having proper management and sustainable development strategy for future by using satellite remote sensing. This study using MODIS EVI multi- time series from 2001-2011 for analysing the change of forest, and using Wavelet transform method for analysing that change. This study investigated that the remote sensing approach seems to be appropriate for national scale forest monitoring, and also found the correlation between EVI and forest productivity based satellite image. For the further research, the accurate and precise forest productivity needs to be assessed with reference data by field survey in the next stage.

Keywords: Forest deforestation; degradation; productivity; Modis EVI