

INFLUENCE OF FIRE OCCURENCE ON VEGETATION COVER CHANGE DURING 2001-2010 IN KALIMANTAN

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ABSTRACT

Land and forest fires have been threatening lives, property, environment, and natural resources in Kalimantan. Due to global warming, land and forest fire may increase and the fires become more intense. It is very important to understand the fire occurrence that influence the changing in vegetation cover. This research analyze the influence of fire occurrence on vegetation cover change during last decade (2001-2010) in Kalimantan. MODIS fire hotspot (MOD14) was used as fires indicator and vegetation cover was derived from MODIS landcover product (MCD12Q1). Then, statistical analysis was used to calculate the correlation between number of fire hotspot and the changing of vegetation cover in each class regions. Results of the study showed that the fire occurrence has contributed on changing in vegetation cover in Kalimantan.

Keywords: fire hotspot, vegetation cover, Kalimantan