

Forest fire monitoring using subresolution dimension of NOAA AVHRR images in Kalimantan - 1995

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Abstrak

After 1985, forest fire monitoring using subresolution dimension has developed tremendously. This paper presents finding of the researcher on forest fire monitoring in Central Kalimantan. In this research, forest fire monitoring was done basing on high response against heat change on channel 3 of NOAA AVHRR satellite images. Inspection was carried out between 11 September and 7 December 1985 at a Small Satellite Ground Station in Palangkaraya, Central Kalimantan. The threshold value that were used are the brightness temperature of channel 3 $> 315\text{K}$, the difference of brightness temperature of channel 3 and 4 $> 15\text{K}$, and albedo of channel 12 $< 17.5\%$. Results of image inspection and field verification show that the smallest forest fire dimension detected is 1500m^2 . The inspection was based on the concept of Harris et al. 1995. It was possible to localize fire position at one sector on the pixel and every fire point that was detected on image could be detected at more than one pixels.