

POST-FIRE BURN ASSESSMENT BY USING SPACEBORNE VHR IMAGES FOR NATURAL REFORESTATION

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ABSTRACT:

This paper presents the capability to use VHR (i.e., IKONOS and QuickBird) imagers for effects of forest disturbance in Cheong-Yesan and Okgye burned areas, respectively. Particular attention of this paper deals with the NBR-derived mapping burn severity on QuickBird imagery to locate reliable rehabilitation (namely, secondary succession) over post-fire surface.

Comparisons of the mapping forest disturbance derived from QuickBird NBR data and the mapping burn severity derived from Landsat NBR data show substantial agreement (KHAT value = 0.7886). The method calculated from the correlation between QuickBird wetness and Landsat ETM+ band 7 may have application to forest harvest disturbance.