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FIRE RISK MAPPING IN THE SDAMAS CHERGUI FOREST IN TIARET REGION, ALGERIA

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ABSTRACT

Each year more than 20,000 hectares of forest are destroyed by fire in Algeria. Fires are costly in terms of human lives and property. The objective of the present work is to establish a forest fire risk map focused on the Sdamas Chergui state forest (Wilaya of Tiaret) through the application of the model established by Dagorne et al (1994), which consists in calculating the risk index of sensitivity to forest fires. Through a practical case, we tried to show that GIS combined with data from the LANDSAT earth observation satellite are effective and constantly evolving management tools for characterising forest areas at risk of fire.

Keywords: Forest fires, Forest Fire Risk index, GIS, Remote Sensing, Forest Fire sensitivity