



## **Exploitation of satellite images by computer tool for monitoring the biodiversity and the historical changes in land use in semi-arid area( Algeria)..**

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### Abstract:

The semi-arid region of the Aurès presents a diversity of flora and fauna undeniable, however weather conditions and actual adverse anthropogenic, caused degradation of the physical environment, which takes the form of a decline in the natural forest cover.

The objective of this study is to determine the contribution of satellite images in detecting changes in land use and Monitoring of the degradation processes in the region south of the Aurès.

For this we used images: Landsat ETM+ for 2001 and TM 1987. In recent cover the southern region of the Aurès which presents a landscape exposed to the phenomena of degradation including forest Beni-Mloul, Dj.Mezbel and Dj khaddou Ahmar characterized by endemic species, characterized by endemic species.

The approach is to treat satellite imagery multi-dates by the method Automatic of supervised classification of Maximum likelihood to see global changes of land use that have occurred in this area.

This study is a multi temporal diagnosis, which has allowed us to both identify the degradation affecting vast semi-arid areas, causing regression of plant cover, but also the pace of its development.

Keywords: Satellite Data multi dates - Degradation of natural resources - Semi-arid areas – Aurès.