ANALYSIS OF FRAGMENTATION IN THE BORDER OF CONGUILLIO NATIONAL PARK (IX REGION, CHILE) USING MULTIPLES LANDSAT TM IMAGES

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One of the most important concern in the Chilean Forest Service (CONAF), is the change of land use and land cover and the fragmentation of the border of the National Parks System (SNASPE). This paper analyses the fragmentation in the 2.5 km border area of the Conguillio national park with two Landsat TM images (1987 and 1998). The images was geometric corrected and classified just in the border with IDRISI32, then the calculations of landscape statistic was made with FRAGTSAT in the raster PC version. The main metrics calculate was the area metrics, patch size, shape metrics and the core area metrics.

This paper has a goal to make a first effort in the quantification of the problem and for CONAF to support government policy in the protected areas.