



PROJECT: Amazonia Sin Fuego

YEAR: 2013

COUNTRY: Bolivia

CLIENT: ICU

DESCRIPTION

The overall objective of the project the strengthening of Bolivian institutions in the fight against forest fires in the Amazonia basin, through the build-up of an information system and the development of an operational methodology for discrimination of different types of forest fires in the Amazon basin, based on the massive exploitation of high temporal resolution satellite data for fire detection (MODIS Fire Products).

GISMAP, in collaboration with the University of Florence, was involved in carrying out a Preliminary Diagnostic Study for the creation of an algorithm on fire risk to support local authorities in planning control and intervention policies and in the developing of prevention tools to fight fires in the Amazon rainforest.

The study was aimed to understand the current situation in the area, perform a detailed analysis of available data among relevant institutions, and propose a first methodological draft for the

development of the algorithm.

The proposed draft methodology was based on a classification of MODIS data into classes of "probability of being a forest fire". Such probability should have been based on the spatial analysis of a series of information layers, including vegetation types, land use, hydrography, flooded areas, morphology and areas interested by oil spilling.

