Estudio de la fenología de los pinares de pino piñonero en Andalucía Occidental mediante el análisis de imágenes MODIS

Phenology Study of Stone Pine Forest in Western Andalusia by Analizing Modis Images

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This paper explores the temporal changes in the Land Surface Phenology (LSP) of 5 Stone pine plots in western Andalusia, using the NDVI (Normalized Difference Vegetation Index) time series product of MODIS (Moderate Resolution Imaging Spectroradiometer) on board of spacecraft Terra from Feb-2000 until Feb-2014. We used the BFAST method (Breaks For Additive Seasonal and Trend) for temporal series descomposition. No significant differences among the plots in their seasonal component are appreciated where there exist no seasonal cut points. Differences in the trend component are detected with different cut points for each plot, with only one common point for the five plots in the 2005-2006 cycle.

Key words: BFAST; Land Surface Phenology; NDVI; MODIS; Pinus pinea; Andalusia.