

John, V. & Türk, A. 2006. Species/area curves for lichens on gypsum in Turkey. – *Mycologia Balcanica* 3: 55-60.

Abstract. Twenty-nine lichen species on gypsum soil and crystalline gypsum and five species on plant debris influenced by gypsum in Turkey have been investigated. Six species, *Acarospora nodulosa*, *Acarospora placodiiformis*, *Aspicilia lacunosa*, *Caloplaca thuringiaca*, *Fulgensia desertorum* and *Lecidea circinarioides* are new to Turkey, some records considerably extending their known distribution. Species/area curves show the localities and the lichen species as highly endangered, with on average 4 localities accounting for 50 % of the detected number of species; 29 species in 10 localities correspond to 75.5 % of the statistical optimum of *ca* 37 species expected in an endless number of plots. In order to account for 90 % of the species, 34 localities need to be investigated. Not only should more localities be searched for and studies, but some of those already investigated need to be protected.

Key words: biodiversity, conservation, gypsum soil, lichens, species/area curves, Turkey