

Dinámica de la comunidad de Tamarix canariensis en el campo de dunas de Maspalomas (Gran Canaria, Islas Canarias)

Dynamics of *Tamarix canariensis* community in the Maspalomas dune field (Gran Canaria, Canary Islands)

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The relationship between the dynamics of the community of *Tamarix canariensis* and the mobility of the dunes in Maspalomas (Gran Canaria, Canary Islands) is analyzed. The methodology used is the tracking of seedling by field work, and the study of the dynamic of the dunes and plants using geographic information technologies. The survival rate of young seedlings is greater the further away from the front of dunes plants are, and taller the plants are. The dynamics of adult plants is related to displacement rates of the dunes. For cope burial by sand, *Tamarix canariensis* has a solution based on height growth strategy. The survival of plants depends on the height that plants are when the dune and plant interact. If this height is equal to or greater than that of the dune, then *Tamarix canariensis* survive.

Key words: vegetation of coastal dune systems; plant colonization; displacement rate of the dunes; sand burial; geographic information system.