

Distribution of *Neckera besseri* (Lob.) Jur. (*Neckeraceae*, *Musci*) in the Iberian Peninsula

Distribución de Neckera besseri (Lob.) Jur. (*Neckeraceae*, *Musci*) en la Península Ibérica

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ABSTRACT

An ecological and chorological study of *Neckera besseri* in the Iberian Peninsula is presented. A distribution map and a new record in the Cuenca province are reported.

KEY WORDS

Musci
Neckera
besseri
Neckeraceae
Ecology
Chorology
Iberian
Peninsula

RESUMEN

Se ha realizado un estudio corológico y ecológico de *Neckera besseri* en la Península Ibérica. Se aporta el mapa de distribución y una nueva cita para la provincia de Cuenca.

PALABRAS CLAVE

Musci
Neckera
besseri
Neckeraceae
Ecología
Corología
Península
Ibérica

SUMARIO 1. Introduction. 2. Results. 3. References.

1. Introduction

Neckera besseri (Lob.) Jur. is a widespread taxon in Europe (Nyholm 1960, Frahm 1983, Fagerstén & Haapasaari 1966) and it also occurs in the mountainous districts of North America, mainly in the eastern parts e.g. Arkansas, Kentucky, Virginia, Vermont, New Jersey, Missouri and New York (Crum & Anderson 1981, He 1997). In America and in the north and central Europe this taxon grows commonly on calcareous rocks and rarely on trunks (Nyholm 1960, Fagersten & Haapasaari 1966, Crum & Anderson 1981). In Spain it occurs on shaded limestone rocks (crevices and sloping faces moist) as well as on tree-trunks, especially on *Buxus sempervirens* L. and less frequently on deciduous trees (*Corylus*, *Fagus*, *Fraxinus*, *Quercus*) in mature woods.

2. Results

The localities reported from the Iberian Peninsula (Casas 1960, 1986) suggested that this species is restricted to the NE quadrant in the montane and supramediterranean belts. Casas (1999) indicated that is frequent in the limestone mountains, between 600 and 1800 m, of the provinces of Alicante and Castellón as well as in Catalonia and eastern Pyrenees. During a bryological trip through Cuenca province of Spain we found *Neckera besseri* by the Marquesado lake. The slopes of the hills that surrounded this lake are covered by dense stands of *Buxus sempervirens* that favours the development of epiphytic communities of mosses. In this communities the dominant species are *Leptodon smithii* (Hedw.) Web. & Mohr. on young trunks and branches and *Neckera complanata* (Hedw.) Hub. in the older ones. *Neckera besseri* grows associated with both species specially in the young communities.

This new record represent an enlargement of the distribution area toward the western Peninsula, the symbol * indicates the new locality (Fig. 1). The Iberian records, of specimens examined by ourselves and of the literature records, are listed in the Table 1.



Figure 1. Distribution of *Neckera besseri* in the Iberian Peninsula. (*) new record.

Table 1. Iberian Peninsula records of *Neckera bessi* (Lob.) Jur.

Province	Locality	UTM	Herbaria and Literature records	Habitat
Alicante	Alcoy, La Font Rotja	30SYH1382	VAB-Brief 3917	Saxicolous
Barcelona	Pobla de Lillet	31TCG98	BCB 17394	Epiphyte and Saxicolous
Barcelona	Berga	31TDC06	BCB 17397	Saxicolous
Barcelona	La Molina	31TDG18	BCB 27154	
Castellón	Montsiá	31TBF60	Casas <i>et al.</i> (1985)	Epiphyte
Castellón	Fredes	31TBF61	LISU 150229 LISU 150241 LISU 150240 BCB 13277 BCB 13288 VAB-Brief 4029	Epiphyte and Saxicolous
Castellón	Peñagolosa	30TYK25 30TYK26	VAB-Brief 116 VAB-Brief 54 VAB-Brief 57 VAB-Brief 56	Epiphyte and Saxicolous
Castellón	La Coma	30TYK53	BCB 3801	
Cuenca	Valdemeca (new locality)	30TXK14	MACB 79094	Epiphyte
Gerona	Villalonga del Ter	31TDC3991	BCB 26254	Epiphyte
		31TDC49	Lloret (1989)	
Gerona	Vidra	31TDC46	Allorge & Casas (1968)	Epiphyte
Gerona	Olot	31TDC57	Allorge & Casas (1968)	
Huesca	Puyarrueg, Urbez	31TBH51	MACB 81783	Epiphyte
Huesca	Bielsa	31TBH7224	Casas (1960)	Epiphyte and Saxicolous
			Casas (1986)	
Huesca	Castejón de Sos	31TBH90	BCB 17402	Epiphyte and Saxicolous
			Casas (1986)	
Huesca	Serrate	31TBH99	BCB 17398	Saxicolous
			BCB 17395	
Huesca	Bono	31TCH1515	BCC 1070 BCC 1071 BCC 1072 BCC 1087	Saxicolous
Huesca	Boi	31TCH2210	Casas (1986)	Epiphyte and Saxicolous
Huesca	Escuer	30TYN12	BCB 17391	Epiphyte
Lérida	Valaller	31TCH1208	MACB 58907 VAB-Brief 3688	Saxicolous
Tarragona	La Cenia	31TBF60 31TBF61	LISU 150242 BCB 13990 LISU 150239 LISU 150232	Epiphyte and Saxicolous
Tarragona	El Priorat	31TCF27	Casas & Cros (1995)	Epiphyte
Teruel	Linares de Mora	30TYK06 30TYK0868	BCB 3802 VAB-Brief 764	Saxicolous
Teruel	Fortanete	30TYK08	MACB 81782	Saxicolous
Teruel	Monchen	30TYK19	VAB-Brief 55	Saxicolous
Teruel	Cantavieja	30TYK19	VAB-Brief 2003 MACB 62192 BCC 616 MACB 81783	Epiphyte

3. References

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