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BACTROSPORA CARNEOPALLIDA, NEW TO EUROPE

The lichen genus *Bactrospora* A. Massal. is widely distributed in tropical, subtropical and temperate regions of both hemispheres, and most of its species are corticolous. In the revision of the genus by Egea & Torrente (1993), 21 species and one variety were accepted. From this revision, and the subsequent report of *B. brodoi* Egea & Torrente from Fennoscandia by Nordin (1996), five species have hitherto been reported from Europe, all of them epiphytic, except for one collection of *B. patellarioides* (Nyl.) Almq. var. *patellarioides* from rocks in southern Spain.

Egea & Torrente (1993) described *Bactrospora carneopallida* from specimens collected on volcanic rocks on Lanzarote (Canary Islands). It was further reported from other coastal localities of the Macaronesian and Saharo-Arabian regions (Egea & Torrente 1993: fig. 6).

Recently, we have collected one specimen of *B. carneopallida* in the Islas Cíes Natural Park (Galicia, NW Spain), extending its known distribution to Europe (Fig. 1). This Natural Park is formed by three small islands (two of them joined by a dune formation) off the Atlantic coast of Spain; the topography is steep with cliffs up to 188 m and with a 70% slope. The geology



FIG. 1. Known distribution of *Bactrospora carneopallida*: (●) former records; (★) the new record.

comprises two-mica granite (containing biotite and muscovite), together with metasediments, dyke rocks (aplite, pegmatite and quartz) and various recent deposits. The climate is oceanic, with an average annual precipitation of 877 mm and an average annual temperature of 13.8°C, with the peculiarity of having a hydric deficit in the summer (Guitián & Guitián 1990). In these islands, two vascular plants have a European distribution restricted to the western Iberian Peninsula: *Armeria pungens* (Nieto-Feliner 1990) and *Corema album* (Villar 1993).

Our specimen of *B. carneopallida* was collected on a granitic cliff at 40 m, in a sheltered situation (on a vertical wall that receives little or no direct rainfall) with a westerly aspect; together with *Catillaria chalybeia*, *Parmelia caperata*, *P. perlata*, *P. saxatilis*, *Physcia tribacioides*, *Roccella fuciformis* and *R. phycopsis*.

Bactrospora carneopallida Egea & Torrente

Lichenologist **25:** 226 (1993); type: Spain. Islas Canarias: Lanzarote, Mirador del Río, *c.* 400 m, rocas volcánicas, 13 January 1990. *J. M. Egea* (MUB!—holotypus, GZU!—isotypus).

The following details from the Galician material supplement or differ slightly from the description presented by Egea & Torrente (1993).

Ascomata 0·4–0·8 mm diam. *Excipulum* well developed, red-brown to dark brown, closed below the subhymenium; 45–50 µm at the top and 100–160 µm at the base. *Epithecium* dark to light brown. *Hymenium* 85–110 µm. *Paraphysoids* branched at the apex, interwoven and with few septa. Exciple and subhymenium K+ green-brown. *Asci* 78–80 × 8–12 µm. *Ascospores* (38–)46–58(–67) × 2·5–4 µm; 5–8(–15) septate.

Specimen examined: **Spain:** *Galicia*, *Pontevedra*: Islas Cíes, Isla do Norte, sheltered situation in a granitic cliff, 40 m 29 v 1996, *G. Paz-Bermúdez* (SANT-Lich 9260).

We are grateful to Dr J. M. Egea, who kindly confirmed the identity of *B. carneopallida* and to two anonymous reviewers for helpful comments on an earlier version of the manuscript.

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