

Additional lichen records from Australia 84.
Three *Bactrospora* species (Roccellaceae, Ascomycota) from Queensland

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Abstract

Bactrospora denticulata (Vain.) Egea & Torrente, *B. myriadea* (Fée) Egea & Torrente and *B. pleistophragma* (Nyl.) Räsänen, are reported for the first time from Australia.

Kantvilas (2004) reported six species of *Bactrospora* A.Massal. from Tasmania, three of them newly described, and while Aptroot *et al.* (1995) recorded two taxa from Papua New Guinea, the genus has not yet been documented from mainland Australia. However, an examination of collections from mangrove or strand vegetation in Cape York Peninsula, Queensland, has revealed three species of *Bactrospora*. The collections match the accounts of the three taxa in the monograph of Egea & Torrente (1993), and the following descriptions are derived from that work.

The new records

1. *Bactrospora denticulata* (Vain.) Egea & Torrente, *Lichenologist* **25**, 229 (1993)
Lecanactis denticulata Vain., *Ann. Acad. Sci. Fenn.*, Ser. A, **6**(7), 141 (1915)

Thallus crustose, up to 20 mm diam., white to grey, thin, ecorticate; photobiont *Trentepohlia*; ascomata apothecia, immersed to sessile, black, epruinose; disc concave to plane with a prominent margin; margin often 4–5-toothed; asci subglobular, fissitunicate, with an amyloid cap, 8-spored; ascospores hyaline, with more than 25 thin, transverse septa, 70–130 × 2.0–3.0 µm; conidia not known. Previously reported from Florida (Egea & Torrente 1993).

SPECIMEN EXAMINED

Queensland: ● Chillli Beach, Cape York Peninsula, 12°37'5"S, 143°25'39"E, in evergreen to semi-evergreen notophyll vine forest dominated by *Syzygium forte*, on bark, *V.J. Neldner* 5418, vi.2014, (BRI, AQ906175).

2. *Bactrospora myriadea* (Fée) Egea & Torrente, *Lichenologist* **25**, 245 (1993)
Lecidea myriadea Fée *Bull. Soc. Bot. France* **21**, 318 (1873)

Thallus crustose, up to 20 mm in diam., white to grey, thin, ecorticate; photobiont *Trentepohlia*; ascomata apothecia, black, epruinose, sessile, plane to convex, 0.2–0.7 mm diam.; asci subglobular, fissitunicate, with an amyloid cap, 8-spored; ascospores hyaline, with 12–20 thin, transverse septa, 47–90 × 2.0–3.5 µm; conidia 5–7 µm long; Previously reported from Florida, Colombia, Brazil, India, the Galapagos Islands and Taiwan (Egea & Torrente 1993; Aptroot & Sparrius 2008).

SPECIMENS EXAMINED

Queensland: ● Little Boydong Island, 11°29'S, 143°02'E, growing on *Pisonia grandis*, *E. Youman* s.n., 17.vii.1985, (BRI, AQ807398); ● loc. id., *E. Youman* s.n., 16.vii.1985, (BRI, AQ807399); ● Macarthur Islet (No. 3), 11°43'S, 142°59'E, on *Bruguiera aristata*, *E. Youman* s.n., 19.vii.1985, (BRI, AQ807406); ● Macarthur Islet (No. 5), 11°43'S, 142°59'E, on *Comptostemon schultzei*, *E. Youman* s.n., 19.vii.1985, (BRI, AQ807408); ● Heathlands QPWS Ranger Base, Cape York Peninsula, 11°45'07"S, 142°34'51"E, on branches of *Callitris intratropica* trees, *P.I. Forster PIF35018B*, 13.xi.2008, (BRI, AQ813489); ● North Bird Is., 11°46'S, 143°00'E, on *Terminalia* sp., *E. Youman* s.n., 20.vii.1985, (BRI, AQ807391); ● Cape Melville National Park, NE base of Beeby Hill, S of Temple Creek and N of Ninian Bay, 14°17'10"S, 144°35'09"E, on bark of *Acacia oraria* in scrub behind high water mark, *P.I. Forster PIF43162*, 10.v.2014, (BRI, AQ839066).

3. *Bactrospora pleistophragma* (Nyl.) Räsänen *Ann. Bot. Soc. Zool.-Bot. Fenn. 'Vanamo'* **20**(3), 32 (1944)

Lecidea pleistophragma Nyl., *Bull. Soc. Linn. Normandie*, sér. 2, **2**, 85 (1867)

Thallus crustose, up to 20 mm diam., white to grey, thin, ecorticate; photobiont *Trentepohlia*; ascomata apothecia, immersed to sessile, black, epruinose, 0.4–0.9 mm diam.; disc concave to plane; asci subglobular, fissitunicate, with an amyloid cap, 8-spored; ascospores hyaline, with more than 40 thin, transverse septa, 110–150 × 4.5–7.0 µm; conidia not known. Previously reported from New Caledonia and Hawaii (Egea & Torrente 1993).

SPECIMEN EXAMINED

Queensland: ● Little Ramsay Bay, Hinchinbrooke Island, 18°17'S, 146°18'E, on *Heritiera littoralis* in mangrove, *A.B. Cribb* 2427A, 18.viii.1975, (BRI, AQ0693394).

References

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