

A REVISION OF *VERRUCARIA* S.L. (VERRUCARIACEAE) IN POLAND

BEATA KRZEWICKA

Abstract. A taxonomic treatment of the genus *Verrucaria* s.l. in Poland is provided, based on a study of ca 1700 specimens from Polish and foreign herbaria. A total of 62 species belonging to seven genera currently separated within *Verrucaria* s.l. are presented including two new combinations, *Verruculopsis minutum* (Hepp) Krzewicka and *Parabagliettoa disjuncta* (Arnold) Krzewicka. The following genera and species are recognized in the study area: *Bagliettoa* – *B. baldensis* (A. Massal.) Vězda, *B. calciseda* (DC.) Gueidan & Cl. Roux, *B. marmorea* (Scop.) Gueidan & Cl. Roux, *B. parmigerella* (Zahlbr.) Vězda & Poelt; *Hydropunctaria* – *H. maura* (Wahlenb.) Keller, Gueidan & Thüs, *H. rheitrophila* (Zschacke) Keller, Gueidan & Thüs, *H. scabra* (Vězda) Keller, Gueidan & Thüs; *Parabagliettoa* – *P. cyanea* (A. Massal.) Gueidan & Cl. Roux, *P. disjuncta*, *P. dufourii* (DC.) Gueidan & Cl. Roux; *Placopyrenium* – *P. canellum* (Nyl.) Gueidan & Cl. Roux, *P. fuscellum* (Turner) Gueidan & Cl. Roux, *P. trachyticum* (Hazsl.) Breuss; *Verrucaria* – *V. acrotella* auct., *V. amylacea* Hepp, *V. andesiatica* Servit, *V. aquatilis* Mudd, *V. bryoctona* (Th.Fr.) Orange, *V. caerulea* DC., *V. cataleptoides* (Nyl.) Nyl., *V. cernaensis* Zschacke, *V. cincta* Hepp, *V. denudata* Zschacke, *V. dolosa* Hepp, *V. elaeina* Borrer, *V. elaeomelaena* (A. Massal.) Arnold, *V. funckii* (Spreng.) Zahlbr., *V. hochstetteri* Fr., *V. latebrosa* Körb., *V. macrostoma* DC., *V. maculiformis* Kremp., *V. madida* Orange, *V. margacea* (Wahlenb.) Wahlenb., *V. muralis* Ach., *V. myriocarpa* Hepp, *V. nigrescens* Pers., *V. nigroumbrina* (A. Massal.) Servit, *V. obfuscans* (Nyl.) Nyl., *V. ochrostoma* Borrer, *V. pachyderma* (Arnold) Arnold, *V. pinguicula* A. Massal., *V. policensis* Servit, *V. polonica* J. Nowak, *V. polysticta* Borrer, *V. praetermissa* (Trevisan) Anzi, *V. procopii* Servit, *V. sphaerospora* Anzi, *V. sublobulata* Servit, *V. submauroides* auct., *V. submersella* Servit, *V. tectorum* (A. Massal.) Körb., *V. tristis* (A. Massal.) Kremp., *V. unbrinula* Nyl., *V. viridicans* Servit, *V. viridula* (Schrad.) Ach., *V. xyloxena* Norman; *Verrucula* – *V. elegantaria* (Zehetl.) Nav.-Ros. & Cl. Roux, *V. helvetica* (B. de Lesd.) Nav.-Ros. & Cl. Roux, *V. polycarparia* Nav.-Ros. & Cl. Roux, *V. protearia* (Zehetl.) Nav.-Ros. & Cl. Roux; and *Verruculopsis* – *V. lecideoides* (A. Massal.) Gueidan & Cl. Roux, *V. minutum*. Three species, *Parabagliettoa disjuncta*, *Verrucula elegantaria* and *V. polycarparia* are reported for the first time from Poland. Twenty five taxa are excluded from the survey because they were mistakenly reported or not confirmed for the study area. The morphology, anatomy, ecology and known distribution of all treated taxa are discussed. Keys for the identification of genera and particular groups of the species are provided. Additional nomenclatural and taxonomic clarification include the typification of *Thrombium lecideoides* A. Massal., *Verrucaria aquatilis* var. *aerimontana* Servit and *Verrucaria timkoi* Servit, and the synonymy of *Lithoidea nigrescens* var. *acrotella* A. Massal. with *Verrucaria nigrescens*, *Verrucaria amylacea* f. *compacta* Arnold with *Verrucaria amylacea*, *Verrucaria aquatilis* var. *aerimontana* with *Verrucaria aquatilis*, *Verrucaria atroviridis* Servit with *Verrucaria aquatilis*, *Verrucaria denudata* f. *dissulta* Servit with *Verrucaria funckii*, *Verrucaria elaeina* var. *determinata* Körb. with *Verrucaria praetermissa*, *Verrucaria elaeina* var. *effusa* Körb. with *Verrucaria submersella*, *Verrucaria hoffmanni* Hepp with *Bagliettoa marmorea*, *Verrucaria maura* var. *opaca* Körb. with *Hydropunctaria scabra*, *Verrucaria nigrofusca* Servit with *Verrucaria nigroumbrina*, *Verrucaria sublobulata* var. *robustior* Servit with *Verrucaria sublobulata*, *Verrucaria timkoi* with *Bagliettoa calciseda*. The name *Verrucaria funckiana* is rejected because it proved illegitimate as it was nomenclaturally superfluous when published.

Key words: *Verucariaceae*, *Bagliettoa*, *Hydropunctaria*, *Parabagliettoa*, *Placopyrenium*, *Verrucaria*, *Verrucula*, *Verruculopsis*, revision, nomenclature, taxonomy, ecology, key, Poland

Beata Krzewicka, W. Szafer Institute of Botany, Polish Academy of Sciences, Lubicz 46, 31-512 Kraków, Poland, e-mail: b.krzewicka@botany.pl

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