Bredemeyera divaricata, a new combination for the well-known Amazonian species of Polygalaceae

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Abstract

A recent effort to study Ferreira’s material brought to Paris from Lisbon in the beginning of the XIXth century revealed the identity of one often overlooked name in Polygalaceae, Badiera divaricata which had not been revised since its original publication. We provide the typification of the names involved and propose a new combination for the species nowadays known as Bredemeyera altissima.

Resumo

Os recentes esforços para estudar a coleção de Ferreira trazida de Lisboa para Paris durante o começo do século XIX revelou a identidade de um nome de Polygalaceae, Badiera divaricata publicado em 1824, não foi revisado deste então. Este estudo fornece tipificação dos nomes envolvidos e uma nova combinação para a espécie conhecida atualmente como Bredemeyera altissima.

Key words: De Candole, Ferreira, Bredemeyera altissima

Introduction

The well-known species Bredemeyera altissima (Poeppig 1844: 65) Bennett (1874: 50) is an Amazonian native (Bolivia, Brazil, Guyana, Peru, and Venezuela) and presents a wide morphological variation of leave shapes and fruit. Thus, Bennett (1874: 50) described the variety B. altissima var. emarginata to include specimens with that leaf shape in order to differentiate it from the specimens with the acuminate or acute leaves. During a revision of the A.R. Ferreira’s collection in Paris, the type collection of Badiera divaricata De Candolle (1824: 335) was determined, in fact, to be that of Bredemeyera altissima. We therefore propose for it a new combination under the genus Bredemeyera (Willdenow 1801: 412).

Ferreira’s collection

The original specimens of Bredemeyera divaricata are found in the A.R. Ferreira’s collection brought to Paris from Lisbon during the Napoleonic wars. Other specimens of Polygalaceae from Lisbon were also used to describe new species, such as Caamembeca oxyphylla (De Candolle 1824: 331) Pastore (2012a: 441) and Polygala brachyostachios Poiret (Pastore 2012b). It is, therefore, yet another instance of the importance to science of Ferreira’s and others as Fr. Vellozo or Dr. Velloso collections, yet to be generally recognized.


Basionym: Badiera divaricata DC. Lectotype (herein designated)—BRAZIL. Pará: October 1783–January 1792, A.R. Ferreira s.n. (P[00697589]!; iso-lectotype P[00303393]!).

Bredemeyera altissima var. emarginata Bennett (1874: 50). Lectotype (herein designated):— GUYANA: June 1854, R. Spruce 3721 (K![000263980]!, iso-lectotypes BR[8574138]!, CGE!, P[733592]!).

Taxonomic note:—Based on morphology of the leaves, the infra-specific classification used Bennett (1874) is not relevant. Bredemeyera divaricata is recognized by the leaves with glabrous blades on the adaxial surface and puberulent on the abaxial surface mainly on the mid vein; panicles 15–40 cm; flowers with pedicel between 1–2 mm, lateral petals slightly widening to the apex, internally pubescent, style bended, and ovary glabrous. Bredemeyera lucida (Bentham 1842: 101) Klotzsch ex Hasskarl (1864: 189) cannot be easily separated from B. divaricata and might be synonymous. There are two specimens of Badiera divaricata in P that constitute the type collection. Although they were marked as “Polygala divaricata” in De Candolle’s handwriting, instead “Badiera divaricata”, the specimens without a doubt represent the type collection of Badiera divaricata, also supported by the original De Candolle’s note “v.s. in h. Mus. Par.”. De Candolle’s mistake is easily understood since the genus Bredemeyera, although described by Wildenow in 1801, was delimited much later by Bentham (1842, as Catocoma) and then by Hasskarl (1864) who applied the correct name, Bredemeyera, for that genus (Marques 1980). In fact, the name Badiera divaricata was used by De Candolle with an explicitly stated doubt about its correctness as applied to that species and expressed in his note (“an hujus generis?”). Not surprisingly, the original material was annotated by De Candole, in his own handwriting, as “Polygala divaricata”. Therefore, it must be considered the second known Bredemeyera described by De Candolle under a different genus, another one was Securidaca hebeclada De Candolle moved to Bredemeyera hebeclada (De Candolle) J.F.B.Pastore (Pastore 2010).

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LITERATURE CITED


