Lectotypification of the names of four species in *Sonerila* (Melastomataceae)

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**Abstract:** Four names in *Sonerila* Roxb. (Melastomataceae) viz., *S. arguta*, *S. grandiflora*, *S. pulneyensis* and *S. squarrosa* are lectotypified here.

**Keywords:** Lectotype, Nomenclature, *Sonerila arguta*, *S. grandiflora*, *S. pulneyensis*, *S. squarrosa*.

**Introduction**

The genus *Sonerila* Roxb. (Melastomataceae) with approximately 180 taxa is distributed in the Indo-Pacific regions (Cellinese, 1997) and includes 58 species and two varieties in India (Resmi *et al*., 2018).

During a revisionary study on *Sonerila* in India, it is found that lectotypification is necessary for many names because it could not be made clear that only a single specimen was used by the author. Furthermore, according to McNeill (2014) citation of a single collection number often housed in more than one institution are to be treated as syntypes. Resmi and Nampy (2018) designated lectotypes of four names in *Sonerila*, viz., *S. rotundifolia* Bedd., *S. scapigera* Hook., *S. versicolor* Wight and *S. wallchii* Benn. In this paper, lectotypes are designated for another four names, viz., *S. arguta* R.Br. ex Naudin, *S. grandiflora* R.Br. ex Naudin, *S. pulneyensis* Gamble and *S. squarrosa* Wall. according to Art. 9.3 of the Shenzhen Code (Turland *et al*., 2018).


**Fig. 1** Lectotype of *Sonerila arguta* (G00319884). © The Board of Trustees for the Conservatoire et Jardin botaniques de la Ville de Genève, Geneva. Reproduced with permission.
Lectotypification of the names of four species in Sonerila

Naudin, Charles Victor (1815-1899) are at A, G, K and P. We have traced four relevant Wallichian collections at K (K000867660, K000867661, K000867662, K001038121) and one at G (G00319884), but none in P and A. Also, we found three specimens at E (E00288115, E00288116, E00288117) and one at NY (NY00273279), but not sure whether they have been consulted by Naudin. We select the specimen at G (G00319884) as the lectotype which has the annotation “4095 Sonerila arguta Brown, Mont Sillet, FD” and best represents the species. There is a problem associated with ascribing “Silhet” collections either Bangladesh or India (Meghalaya) as this locality is ambiguously used in the Wallich Catalogue (Clarke, 1913).


**Nomenclatural notes:** The name *S. grandiflora* was first proposed by Brown in 1831 in the Wallich Catalogue (1828–1849) against Numer. List 4099 and quoted “Sonerila grandiflora Brown, Nelghery dam, Noto” but it was not validly published. Wight and Arnott (1834) subsequently validated the name based on collection of Noton. Noltie (2005) gave the type details as ‘Wall. Cat. 4099, Neelgherries—Noton. No specimens at E’. We traced three relevant specimens at K (K000567347, K001038127, K001038128) that matched the protologue. The barcode K000567347 has three flowering twigs and the annotation of Wallich “Sonerila grandiflora, Nelghery, Wallich 1831,…..4099”. The other sheet has four specimens numbered A and B, respectively assigning two barcodes K001038127 and K001038128. K001038127 has a flowering twig and an annotation “4099, S. grandiflora Brown, Nelghery dam, Noton” whereas K001038128 has three flowering/fruiting specimens and an annotation “4099, Noton” and a label “seen near Mukurthy Peak only in a watercourse……Sonerila grandiflora”. This label was presumably written by the collector Benjamin Noton, who in the period 1825–1826 collected mainly in the Nilgiri Hills. We chose K001038128, the best representative of the species, as the lectotype.


**Nomenclatural notes:** Within the protologue of *S. pulneyensis*, Gamble (1919) provided a note: “South India, Pulney hills, in the Pambar ravine, June, 1899, Sir A. [Sir A.G.] and Lady Bourne 1341” after the morphological description. We traced three relevant specimens at K (K000867653, K000867654, K000867655) matching with the description and specimen label information (Herbarium of Sir A.G. and Lady Bourne, Presented July 1915) included in the protologue. All the three sheets also carry annotation “Pambar stream, Pulneys/Pambar Ravine–Pulneys, 28 June 1899” and Bourne 1341”.

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**Fig. 2.** Lectotype of *Sonerila grandiflora* (K001038128). © The Board of Trustees for the Royal Botanic Gardens, Kew. Reproduced with permission.
set of Wallich’s collections (including types) is known to be at K and K-W (Stafleu & Cowan, 1988). We have traced three relevant Wallichian collections at K. The sheet K000867653 is here designated as the lectotype as it best represents the protologue.

**Sonerila squarrosa** Wall. in Roxb., Fl. Ind. 1: 182. 1820. Lectotype (designated here): INDIA, Assam, s.loc., s.d., Wallich s.n. (K000867680A, digital image!)

**Nomenclatural notes:** In the protologue of *S. squarrosa* (in Roxburgh 1820: 182) a note says “Growing among ferns on the Khassee mountains……..”. It was further mentioned “I received this pretty little plant from my indefatigable and zealous assistant, Mr. Smith at Silhet in 1817”. The materials of Smith are, however, not available in any herbaria. In Wallich catalogue (1828–1849) it is cited “4093 Sonerila squarrosa Wall., Mount Sillet FD”[Mount Sylhet, F. De Silva]. The main

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**Fig. 3.** Lectotype of *Sonerila pulnyensis* (K000867653). © The Board of Trustees for the Royal Botanic Gardens, Kew. Reproduced with permission.

**Fig. 4.** Lectotype of *Sonerila squarrosa* (K000867680A). © The Board of Trustees for the Royal Botanic Gardens, Kew. Reproduced with permission.
squamosa  Wall, Mount Sillet FD". The sheet K000867680 (A) is chosen here as the lectotype as it agrees with the protologue.

Acknowledgements
The authors are thankful to The Head, Department of Botany, University of Calicut, for facilities; the Curators of K and G for permission to use the digital images of type specimens; Dr. Mark F. Watson, Head of Major Floras, Royal Botanic Garden, Edinburgh, who heads the Wallich Catalogue online project and Dr. Heleen Plaisier, Assistant Herbarium curator, RBG, Edinburgh, for resolving the doubts about the annotations of the collectors. We would like to thank Dr. K.N. Gandhi (Senior Nomenclatural Registrar, Harvard University) for clarifying the doubts on the author citation.

Literature Cited


