



## Typifications of select species of *Stephaniella* (Marchantiophyta: Stephaniellaceae)

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In a review of the literature, including a recent taxonomic revision of *Stephaniella* and *Stephaniellidium*, previous authors did not designate the nomenclatural types for three species of *Stephaniella* so that these names require lectotypification.

In the following paragraphs, I propose lectotypes for *Stephaniella boliviensis* (Stephani 1916: 182), *S. paraphyllina* (J.B. Jack 1894: 11) and *S. sleumeri* (K. Müller 1951: 177) based on materials received on loan from B, G, M and S herbaria. In designating these lectotypes the characteristics of the specimens were checked against the original description; the condition and size of the specimens were also considered for this purpose. The names of the species are listed in alphabetical order.

***Stephaniella boliviensis*** Steph., *Bibliotheca Botanica* 87: 182, 1916.

Type:—BOLIVIA. Catena Yanakaka, ca. 4600 m, Jul 1911, *Th. Herzog 3750* (lectotype [here designated] M!, isolectotype G!, B!).

Note:—Stephani (1916: 182), in the original description, cited two syntypes, *Herzog 3750* and *Herzog 4794*. Váňa, in 1995, considered *3750* and *4794* at G to be isolectotype and isosyntype, respectively, but this information was not published (Váňa pers. comm.). Specimens of the remaining syntype, *Th. Herzog 4794*, were seen at G, M, and S.

***Stephaniella paraphyllina*** J.B. Jack, *Hedwigia* 33: 11, 1894.

Type:—CORDILLERA ARGENTINO-BOLIVIANIS. Cienega, alpine region, 1873, *P.G. Lorentz s.n.* (lectotype [here designated] G-00120479!, isolectotype G!, M!).

Note:—From Paul G. Lorentz's collections of 1873, Jack (1894) described the genus *Stephaniella* with *S. paraphyllina* as the type species. The type locality (Cienega in alpebus Argentino-Bolivianis, in solo glaresoluto) was cited, but no type specimens were mentioned.

Original material of *Stephaniella paraphyllina* (G00120478, G00120479, G00115491, G; M-0182810, M), collected by Lorentz in 1873, was examined. Schmitt and Winkler (1968) considered the specimen at M to be a syntype, but it is not clear if this specimen is part of the same or different gatherings because Lorentz did not number his gatherings. Nonetheless, for nomenclatural purposes I conclude that all of the above original elements are part of a single gathering. It should be noted that the moss collection at B, which likely contained Lorentz's best material, was destroyed (Stafleu & Cowan 1981: 157). At least one specimen in the Lorentz's collection at G (G-00115491) was likely examined by Jack as it was stamped with his herbarium name.

***Stephaniella sleumeri*** Müll. *Frib.*, *Revue Bryologique et Lichénologique* 20: 177, 1951.

Type:—ARGENTINA. Prov. Tucumán: Dep. Tafi, La Cienega, Morro de las Aguadas, ca. 2,800 m, 28 Jan 1950, *H. Sleumer s.n.* (lectotype [here designated] S-B47665!, isolectotype B!, S!).

Note:—Müller (1951) only cited the type locality in the protologue, but did not cite a type specimen. Specimens with the same collecting data as those given in the original description are deposited at B and S and I conclude that

these specimens represent a single gathering. No additional type information was provided when *Stephaniellidium sleumeri* (Müll.Frib.) S. Winkl. ex Grolle, *Acta Botanica Fennica* 121: 38. 1983, was proposed.

## Notes

*Stephaniella hamata* Steph., *Bulletin de l'Herbier Boissier ser. 2*, 1: 1024, 1901.

Type:—ARGENTINA. Córdoba, *P.G. Lorentz s.n.* (lectotype [Grolle in 1967, on herbarium label] G-00069943!).

Stephani (1901) cited specimens from Argentina and Brazil in the protologue, but did not designate a type. Grolle, in 1967, designated *Lorentz s.n.* (G-00069943) as the lectotype on a label, but apparently did not publish his choice (Váňa pers. comm.). Schmitt and Winkler (1968: 126) subsequently formally proposed the lectotype.

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