











## Two complex typifications and a new name to unravel *Ulota germana* sensu Malta non (Mont.) Mitt. (Orthotrichaceae)

Ricardo Garilleti, Belén Albertos, Isabel Draper, Juan Antonio Calleja, Vicente Mazimpaka, Francisco Lara

2020 May 6. https://doi.org/10.1639/0007-2745-123.2.163

Ulota germana is an epiphytic moss moderately common in oceanic areas of Patagonia (southern South America), one of the regions of the world where *Ulota* reaches a peak of diversity. It is easily recognized by very long perichaetial leaves, which reach the capsule when wet, an endostome of eight segments and verrucose spores. In Nikolajs Malta's revision of South American Ulota, a species was described under this name with apparently similar long perichaetial leaves and spores but with a 16segment endostome, an uncommon character in this genus. No further references to this particular combination of traits are found throughout the literature of South American *Ulota*. In the same work, Malta also published *U. germana* var. *breviseta*. During the study of recent Patagonian collections, a moss similar to that described by Malta was repeatedly found, living together with U. germana s.str. To ascertain the name and taxonomic identity of the new specimens and Malta's moss, a detailed morphological comparative study was carried out. Original material of relevant names was analyzed, demonstrating that the gatherings on which those names are based were usually a mixture of several species, thus resulting in nomenclatural confusion. Having established that the plants described by Malta at both specific and varietal ranks are not U. germana, we formally describe them as U. maltiana with a complete description and illustration. Ulota germana s.str. is also illustrated for comparison. The reasons behind Malta's error are discussed. We demonstrate that the previous typification of *U. germana* was incorrect, and propose a new lectotypification for this species and for U. germana var. breviseta.

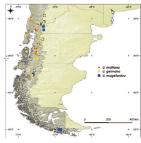
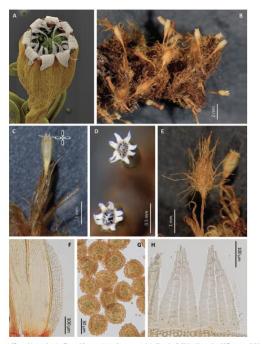
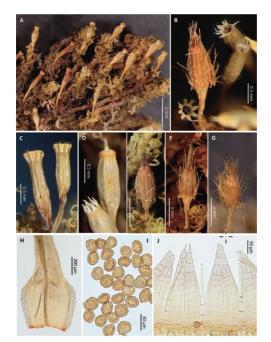


Figure 1. Known distribution of Ulota maltiana and origin of the



gave 2. Ultra multimax. A. Scanning Bestrom Microscope image of a mature capsule in false color. B. Habit with capsules of different ages. C. West attempt part showing the position and interplot of perichastical issues relatives to sea. D. Upper view or of the month of two capsules. C. Callytrax. F. Basse of a fifthousing the band marginal cells with transversal walls thickened disposed in more than 5 rows. G. Sports. H. Peristone in inner view, showing the collider modatomes. C. C. D. F. G. H. Brown vacuum 1814.25. H. From belotmes vacuum 1812.25.



urs S. Uffice gremans. A. Habb with apuelse of different spars. B. Detail of a chybrar and the configuration of the endostone. C. Matter capual per per rideaue. D. Matter capuals before speer rideae showing a matter operation. For chardbilly of chybra habines completely habines completely habines completely habines completely habines completely habines of the part of Eg. B. H. Lowe habf of a vegetative led showing the hands of differentiated rung gial citic. I. Spores. J. Peristone in inner rives, showing the entire hydrone endostone. (A. D., from va.-Buor. 11889; B., from va.-Buor. 11889; C., from va.-suor 11859; C., from va.-suor 11859; C., from va.-Buor. 11850; I., from va.-Buor. 11