Type specimens of *Tamarix* (Tamaricaceae) described by Josef Franz Freyn in 1903

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Five *Tamarix* taxa were described in Freyn's posthumous publication (Freyn 1903): *Tamarix askabadensis* Freyn (1903: 1059), *Tamarix karakalensis* Freyn (1903: 1060), *T. karakalensis var. scoparia* Freyn (1903: 1062), *T. karakalensis var. verrucifera* Freyn (1903: 1062), and *T. karakalensis var. myriantha* Freyn (1903: 1062). This publication comprised an enumeration of the plants collected by Paul Sintenis in “Τauria, 1900–1901” (in the Sintenis’s voucher labels as “Iter transcaspico-persicum 1900–1901”), by Ove Paulsen in “regione caspica, transcaspica, praeſertimum in altiplanitie Pamir, 1898–1899”, and by Victor Ferdinand Brotherus “in Turkestania, 1896”. However, all *Tamarix* taxa treated in that work belong to those collected by Sintenis. It is important to point out that Sintenis was mostly a plant collector who sold his vouchers to many different herbaria: ANK, BHUPM, BREM, G, GH, HAC, JE, LD, PAL, PR, TUB, VT, W, WAG, and WU (acronyms according to Thiers 2014). However, his personal herbarium (ca. 80000 vouchers of 18000 species) was acquired by the Herbarium of the Botanical Museum of Lund (LD) in 1921–1922 (Patrik Frödén pers. comm.).

Sintenis’s labels are printed, bearing the name of the new *Tamarix* species and varieties, together with the quotation “determin. J. Freyn”. Accordingly, it can be assumed that Freyn personally examined and identified the Sintenis collections before the labels were printed and the vouchers distributed. In the protologue of each variety of *T. karakalensis*, Freyn (1903: 1062) referred clearly to the specimens kept at his personal herbarium, which is currently conserved at the Moravian Museum of Brno (BRNM), whereas no specific mention was made to *T. karakalensis* or *T. askabadensis*. Therefore, those vouchers kept at BRNM should have been considered as the holotypes for the three described varieties, though Baum (1966: 62) reported the holotypes of *T. karakalensis* var. *scoparia* and *T. karakalensis* var. *myriantha* at the herbarium of the Conservatoire et Jardin botaniques de la Ville de Genève (G). Surprisingly no specimen of *T. askabadensis*, *T. karakalensis* or any of its varieties is currently found in Freyn’s herbarium at BRNM. It turns out that Freyn examined personally the Sintenis’s 1900–1901 collections in 1902 (Karel Sutorý pers. comm.). But after Freyn’s early death in January 1903, it might be assumed that those examined vouchers were not sent to him, and they still remain at Sintenis’s herbarium, which is currently conserved at LD. Some of those *Tamarix* specimens at LD were personally examined by Freyn, since there is one copy of each taxa that bears Freyn’s handwriting, indicating even the precise day he examined them. Consequently, these vouchers would be considered as the best choice for typification of each of the *Tamarix* taxa [Art. 9.3(a) of the ICN, McNeill et al. 2012], and they have been given priority when possible.

According to the printed labels of the original collections of *T. askabadensis*, *T. karakalensis* and its three varieties, the authorship appears to be attributed to Freyn and Sintenis. It is probable that they agreed to publish the new taxa discovered amongst the Sintenis’s 1900–1901 collections sharing the authorship. Nevertheless, Freyn (1903: 1059, 1060, 1062) indicated the new taxa only as “n. sp.”, and “n. var.”, hence the valid authorship belongs only to Freyn (Art. 46.8 of the ICN), and the shared authorship (Freyin et Sint.) remains only on the voucher labels (“in sched.”). Although type specimens for almost every *Tamarix* species, subspecies or varieties described until 1966 were included in Baum’s monograph about this genus (Baum 1966), those *Tamarix* taxa described by J.F. Freyn were proven to need some clarification after studying the materials kept at some important herbaria (B, G, JE, LD, MO, P, PR, PRC, and W). In the present contribution, the information of the labels is always given between inverted commas. The handwritten text has been transcribed to italics, and the typewritten text is maintained as standard font. Material from JE, LD, and WU has been studied from digital images. The “_a” and “_b” besides G herbarium numbers refer to a second and third sheet under the same herbarium number.
Notes.—Freyn (1903: 1062) based the original description of *T. karakalensis* var. *verrucifera* on the Sintenis 646a collection. Only two vouchers of this collection (B-100278715 and LD-1667358) have been found among all the studied materials. According to the existing handwriting on the original label, we guess that the voucher at LD was personally checked by Freyn in April 1902. Hence, the specimen LD-1667358 is selected here as lectotype. The voucher B-100278715 must be considered as isolectotype. Further investigation is needed to verify if the var. *verrucifera* is synonym the nominal variety.

Baum (1966: 33) considered the name of this variety as a *nomen illegitimum*, on the basis of the occurrence of galls on the exsiccatum. Baum’s nomenclatural interpretation is not correct, and the name *T. karakalensis* var. *verrucifera* is legitimate according to the ICN (McNeill et al. 2012).

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