

Lectotypification of two Turkish endemic taxa of *Centaurea* L. (Asteraceae, Cardueae, Centaureinae)

Kazem NEGARESH



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Lectotypification of two Turkish endemic taxa of *Centaurea* L. (Asteraceae, Cardueae, Centaureinae)

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ABSTRACT

Two Turkish endemic taxa of *Centaurea* L. (Asteraceae) are lectotypified, namely *Centaurea leptophylla* (K.Koch) Tchihat. and *C. paphlagonica* (Bornm.) Wagenitz.

RÉSUMÉ

Lectotypification de deux taxons endémiques turcs de *Centaurea* L. (Asteraceae, Cardueae, Centaureinae). Deux taxons endémiques turcs de *Centaurea* L. (Asteraceae) sont lectotypifiés, à savoir *Centaurea leptophylla* (K.Koch) Tchihat. et *C. paphlagonica* (Bornm.) Wagenitz.

INTRODUCTION

The genus *Centaurea* s.l. consists of about c. 600 species in 40 sections in world (Bremer 1994; Hellwig 2004; Negaresh & Rahiminejad 2014; Oreizi *et al.* 2017). This genus is considered to be taxonomically difficult due to the wide morphological and karyological variability and also nomenclatural confusions (Tchihat 1860; Bremer 1994; Wagenitz & Hellwig 1996, 2000; Hellwig 2004; Garcia-Jacas *et al.* 2006; Susanna & Garcia-Jacas 2007, 2009; Uysal *et al.* 2009; Negaresh & Rahiminejad 2014, 2015a).

Continuing my nomenclatural study of the names in *Centaurea* (Ranjbar & Negaresh 2013a, b, c, 2014a, b, c, d, e; Ranjbar *et al.* 2013; Negaresh & Rahiminejad 2014, 2015a, b; Negaresh *et al.* 2014, 2015a, b; Oreizi *et al.* 2017), I realized the necessity to lectotypify two species endemic to Turkey, i.e., *C. leptophylla* (K.Koch) Tchihat. and *C. paphlagonica* (Bornm.) Wagenitz, because no specific herbarium sheet was cited as holotype in their protologues and the taxa were also not lectotypified earlier (Wagenitz 1963, 1975). To clarify the application of these names, they are thus lectotypified here with specimens housed in the Muséum national d'Histoire naturelle, Herbarium national de Paris (P).

LECTOTYPIFICATIONS

Centaurea leptophylla (K.Koch) Tchihat.
(Fig. 1)

In Asie Mineure. Troisième Partie. Botanique II: 309 (1860). — *Psephellus leptophyllus* (K.Koch) Boiss., *Flora Orientalis* 3: 611 (1875). — Basionym: *Centaureum leptophyllum* K.Koch, *Linnaea* 24: 419 (1851).

LECTOTYPE (designated here). — **Turkey**. [A8 Çoruh] im Gaue Pertakrek [Peterek] im Hochgebirge, c. 6000 ft (1829 m) hoch, auf Porphy, 1843, *K. H. E. Koch s.n.* (lecto-, P[P00646491]!; isolecto-, GOET[GOET001277]!).

REMARKS

Koch (1851) described *Centaureum leptophyllum* (*Centaurea leptophylla*) based on collections of him from Pertakrek, but did not designate an holotype nor did mention the name of the herbarium where the specimens were housed. Two specimens of *C. leptophylla* collected by Koch from Pertakrek were found. Based on art. 40, note 1 (McNeill *et al.* 2012) both must be treated as syntypes. The best one and better preserved sheet, P00646491, is designated here as the lectotype, because it is in better condition than another specimen and shows all relevant characters with the protologue.

Centaurea paphlagonica (Bornm.) Wagenitz
(Fig. 2)

In Botanische Jahrbücher für Systematik, Pflanzengeschichte und Pflanzengeographie 82 (2): 206 (1963). — *Phaeopappus macrocephalus* Freyn & Sint. in Freyn, *Österreichische botanische Zeitschrift* 44: 219

(1894), nom. illeg. — *Plumosipappus macrocephalus* (Freyn & Sint.) Czerep., *Botanicheskie Materialy Gerbariya Botanicheskogo Instituta Imeni V.L. Komarova Akademii Nauk SSSR* 20: 458 (1960). — Basionym: *Phaeopappus paphlagonicus* Bornm., *Beihefte zum Botanischen Centralblatt* 59B: 304 (1939).

LECTOTYPE (designated here). — **Turkey**. [A5 Kastamonu] Paphlagonia, Wilajet Kastamonu ad Tossia: Daltshadagh, in pratis subalpinis [inter Kalköi et Daltshadagh], 15.VII.1892, *P. E. E. Sintenis* 4626 (lecto-, P[P00703840]!; isolecto-, B[B100088272]!, BM[BM000883842]!, BR[BR0000005263776]!, FR[FR0030804]!, G[G00016449 (three sheets comprising one specimen), G00076555, G00076556 (two sheets comprising one specimen)]!, GOET[GOET001299]!, GZU[GZU000271996]!, JE[JE00015892]!, L[L0001901]!, LD[LD1019555, LD1019619, LD1019683, LD1019747]!, M[M0031135, M0242176]!, P[P00703838, P00703839]!, S[S109572]!, W[W0005894]!).

REMARKS

Freyn & Sintenis in Freyn (1894) described *Phaeopappus macrocephalus* (synonym of *Centaurea paphlagonica*, not *C. macrocephala* Muss.Puschk. ex Willd., 1803) based on collections of *Sintenis* 4626 from Paphlagonia, but did not mention any specific sheet as the holotype nor the name of the herbarium where the specimens were housed. Twenty two herbarium specimens of collection number 4626 of Sintenis from Paphlagonia were found. Based on art. 40, note 1 (McNeill *et al.* 2012) these must all be treated as syntypes. Of these, the sheet P00703840 is better preserved and more complete than the other specimens and best represents the species description given in the protologue; hence it is designated here as the lectotype.

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FIG. 1. — Lectotype of *Centaurea leptophylla* (K.Koch) Tchihat., Koch s.n. (P00646491).

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FIG. 2. — Lectotype of *Centaurea paphlagonica* (Bornm.) Wagenitz, Sintenis 4626 (P00703840).