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On the nomenclature of fossil *Stuckenia* (Potamogetonaceae)

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15 fossil species of *Potamogeton* subgen. *Coleogeton*, described from the Oligocene to Pleistocene sediments of Eurasia, based on fruit endocarp and leaf imprints findings, were recombined into a newly reinstated distinct genus *Stuckenia* Börner: *S. aldanensis* (Dorof.) Doweld, *comb. nov.*, *S. arctovaginata* (Dorof.) Doweld, *comb. nov.*, *S. carbonata* (Dorof.) Doweld, *comb. nov.*, *S. clavata* (Dorof.) Doweld, *comb. nov.*, *S. gibbosa* (Dorof. & Wieliczk.) Doweld, *comb. nov.*, *S. matyrensis* (Dorof.) Doweld, *comb. nov.*, *S. omoloica* (Dorof.) Doweld, *comb. nov.*, *S. palaeostiliformis* (Dorof.) Doweld, *comb. nov.*, *S. praepectinata* (Negru) Doweld, *comb. nov.*, *S. praevaginata* (Dorof.) Doweld, *comb. nov.*, *S. pseudorostrata* (Dorof.) Doweld, *comb. nov.*, *S. sakmarensis* (Dorof.) Doweld, *comb. nov.*, *S. tenuicarpa* (C. Reid & E. Reid) Doweld, *comb. nov.*, *S. vaginatoides* (Dorof.) Doweld, *comb. nov.*, *S. mirabilis* (Kutuzk.) Doweld, *comb. nov.*. Nomenclature and typification of species names are given along with their palaeogeographic and stratigraphic data. In addition, a neotype has been designated for *S. tenuicarpa* (C. Reid & E. Reid) Doweld, *comb. nov.*

Key words: *Potamogeton*, palaeobotany

The reinstatement of the distinct genus *Stuckenia* Börner (1912: 258) (= *Coleogeton* (Reichenb.) Les & Haynes, *nom. illeg. & superfl.*) (*Potamogetonaceae*) (Holub, 1984, 1997; Haynes *et al.*, 1998; Tzvelev 1999; Crow & Hellquist 2000; Haynes & Hellquist 2000; Haynes & Holm-Nielsen 2003; Kaplan, 2008) necessitates the transference of the fossil species of *Potamogeton* subgenus *Coleogeton* (Reichenb.) Raunkiaer (1896: 108) into *Stuckenia*. So far, 15 fossil species have been described from the Oligocene to Pleistocene sediments of Northern Eurasia (Europe, Siberia, Central Asia), based on fruit endocarp and leaf imprints findings. The diversity of fossil forms is in contrast to extant genus which includes 7 species and 3 confirmed hybrids with the center of diversity (6 species of known 7) in the Central Asia and adjacent Siberia with a single species, *S. striata* (Ruiz & Pavon 1798: 70) Holub (1997: 364), occurring in North and South America (Kaplan, 2008) and single cosmopolitan species of *Stuckenia*, *S. pectinata* (Linnaeus 1753: 127) Börner (1912: 713), widely ranging and occurring also in Africa and Australia where no other species are known.

New nomenclatural acts were registered through a pilot registration version in the *International Fossil Plant Names Index* (IFPNI 2014 onwards), with unique persistent registration barcode (LSID) listed under each newly proposed combination.

Systematics

Order *Potamogetonales* Dumortier (1829: 59)

Family *Potamogetonaceae* Berchtold & Presl (1823: 8[1], 7*[1])

Genus *Stuckenia* Börner (1912: 258)

Type: *Stuckenia pectinata* (L.) Börner (1912: 713).

Fossil species based on fruits (endocarps)

Stuckenia aldanensis* (Dorof.) Doweld, *comb. nov.

Potamogeton aldanensis Dorofeev (1986: 114).

Potamogeton aldanensis Dorofeev (1969: 48), *nom. inval.* (holotype not designated).

Type:—RUSSIAN FEDERATION: Mamontova Gora, Aldan river, Yakutia (Saha) republic, Siberia; # 352-13 [figured in Dorofeev, 1986 as fig. 47: 17] (holotype LE!).

Stratigraphy:—Middle Miocene.

Note:—IFPNI registration lsid: E55C2415-3B7C-4A50-8ACD-5E1E7E54B74A.