The genus *Ditrichopsis* was established in 1924 by V.F. Brotherus to accommodate a newly described species, *D. gymnostoma* Broth. Five years later, a second species, *D. clausa* Broth., was added. For a long time, only single records of each species from China were known. In 2010, a third species of the genus, *D. baicalense* Ignatova & Afonina was described from the Republic of Buryatia, Transbaikalia, Russia (Ignatova & Afonina, 2010). Shortly after its description, this species was also found in Zabaikalsky Territory (Afonina et al, 2012) and in Krasnoyarsk Territory, Taimyr Autonomous District (Fedosov, 2012). In 2011, in a course of bryophyte flora exploration in Sokhondinsky Nature Reserve (Zabaikalsky Territory) Yu.S. Mamontov and the senior author collected simultaneously a plant which was later identified as *D. clausa*. It is newly recorded for Russia. This finding extends considerably a known distribution range of the species.

*Ditrichopsis clausa* Broth., Musci. Symb. Sin.: 147. 1929. Fig. 1.

Plants small, growing as individual shoots among other bryophytes, green or yellowish-green in upper part, light brownish below, slightly glossy. Stems 2.5-4.0 mm, erect, simple, with well-developed central strand, cortical cells in 1-2 layers, with moderately thickened walls. Leaves erect or flexuose when wet and dry, occasionally slightly secund, 1.5-2.0×0.2-0.3 mm, from long ovate base rather suddenly narrowed into long triangular acumen of the same length as base or slightly longer, concave, with flat margins, entire or finely crenulate distally; costa not sharply delimited from lamina, rather wide, ca. 1/5-1/3 the leaf base, gradually widening distally to the constriction of leaf from base to acumen, almost filling the acumen, in transverse section with one row of guide cells exposed on adaxial surface of costa or with an additional row of ventral epidermal cells, dorsal stereid band of 1-2 rows of thick-walled cells and ± differentiated dorsal epidermis, cells on adaxial surface of costa rectangular, 45-80×9-14 μm, cells on abaxial surface linear to rectangular, 20-35×4-6 μm; margins plane or widely recurved on one side, entire or with few denticulations at shoulders; lamina unistratose or with few bistratose strips near costa, at base of acumen 1-2 cells wide, upper laminal cells rectangular, narrow, 25-55×3.0-5.0 μm; basal laminal cells rectangular, 30-40(-50)×10-15 μm, with thin, non-porose walls, basal marginal cells not differentiated. Dioicous. Perichaetial leaves similar to stem leaves, ca. 2-2.5 mm long, with long acumen. Seta yellowish-green to light brownish, 1.5-2.5 mm, straight or cystosegic. Capsule cleistocarpous, light brown, oval-cylindrical, 0.7-1.0×0.3-0.5 mm, abruptly contracted to straight or oblique beak ca. 0.3 mm long; exothecial cells rectangular, thin-walled. Spores 20-25(-30) μm, finely papillose. Calyptra not observed.

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Fig. 1. *Ditrichopsis clausa* Broth. (from: Russia, Zabaikalsky Territory, Sokhondinsky Reserve, Afonina #4511, LE): 1 – habit, wet; 2 – habit, dry; 3-4 – perichaetial leaves; 5–7 – leaves; 8 – upper laminal cells; 9 – stem transverse section; 10-17 – leaf transverse sections; 18 – exothecial cells; 19 – median laminal cells, abaxial side; 20 – median laminal cells, adaxial side; 21 – basal laminal cells. Scale bars: 2 mm for 1-2; 1 mm for 3-7; 100 μm for 8-21.
**Differentiation.** *Ditrichopsis clausa* can be easily distinguished from other *Ditrichopsis* species by cleistocarpous capsule vs. stegocarpous and gymnostomous one in *D. gymnostoma* and *D. baicalense*. Leaves of *D. clausa* are longer than those of *D. baicalense* (1.5-3.5 mm vs. 1.0-1.3 mm), but at the same time slightly narrower (0.25-0.4 mm vs. 0.3-0.5 mm). These species also differ in spore size (25 μm in *D. clausa* vs. 15-18 μm in *D. baicalense*). For a comparison of three species of *Ditrichopsis* see Ignatova & Afonina (2010).

**Variation.** Plants from Zabaikalsky Territory differ from Chinese plants (see Ignatova & Afonina, 2010) in occasional presence of an epidermal cells on adaxial side of costa, while guide cells are exposed in Chinese plants.

**Ecology.** Two specimens of *Ditrichopsis clausa* were collected in Sokhondinsky Reserve on a bare soil spots in rocky sedge-Dryas tundra at the top of the mountain. Its scattered shoots were found among *Plectocolea halina* (Lyell) Mitt., *Aontstroemia orientalis* Mitt., and *Campylopus subulatus* Schimp. Collections of the species in China and India were also made at an epidermal cells on adaxial side of costa, while guide cells are exposed in Chinese plants.

**Distribution.** *Ditrichopsis clausa* was described by V.F. Brotherus (1929) from China (Yunnan). It was hitherto known from three localities, in Yunnan & Sichuan in China (Wu, 1992; Tong & He, 1999) and in Sikkim, northeast India (Gangulee, 1971). New finding of the species in South Siberia extends its known distribution area to the north and meanwhile adds a new member to the group of East Asian species represented in the moss flora of Zabaikalsky Territory. This group includes *Drummondia sinensis* Müll. Hal. var. *ussuriensis* (Broth.) Vitt, *Homomallium connexum* (Cardot) Broth., *Eurohypnum leptothallum* (Müll. Hal.) Ando, *Leptopterigynandrum incurvatum* Broth., *Orthodontopsis bardunovii* Ignatov & B.C. Tan, *Struckia enervis* (Broth.) Ignatov, T.J. Koponen & D.G. Long, etc.
