

Номенклатурные заметки

Nomenclatural notes

Lectotype designation of the names of several *Euphorbia* (*Euphorbiaceae*) described from Middle Asia.

I. Sections *Holophyllum* and *Helioscopia*

Лектотипификация некоторых названий таксонов рода *Euphorbia* (*Euphorbiaceae*), описанных из Средней Азии.

I. Секции *Holophyllum* и *Helioscopia*

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Abstract. The lectotypes of *Euphorbia altaica* Ledeb. var. *elator* Stschegl., *E. altaica* var. *pilosa* Stschegl., *E. sarawtschanica* Regel var. *hirta* Korovin, *E. yaroslavii* Poljakov, *Tithymalus lipskyi* Prokh., *T. mucronulatus* Prokh. and *T. transoxanus* Prokh. are designated. For *Euphorbia alataunica* Boiss., *E. ferganensis* B. Fedtsch., *E. pachyrrhiza* Kar. et Kir., *E. rapulum* Kar. et Kir., and *E. sarawtschanica* Regel, second-step lectotype designations have been made.

Keywords: *Euphorbia*, lectotype designations, Middle Asia.

Аннотация. Обозначены лектотипы *Euphorbia altaica* Ledeb. var. *elator* Stschegl., *E. altaica* var. *pilosa* Stschegl., *E. sarawtschanica* Regel var. *hirta* Korovin, *E. yaroslavii* Poljakov, *Tithymalus lipskyi* Prokh., *T. mucronulatus* Prokh. и *T. transoxanus* Prokh. Для *Euphorbia alataunica* Boiss., *E. ferganensis* B. Fedtsch., *E. pachyrrhiza* Kar. et Kir., *E. rapulum* Kar. et Kir. и *E. sarawtschanica* Regel произведено дополнительное (уточняющее) обозначение лектотипов.

Ключевые слова: *Euphorbia*, обозначение лектотипов, Средняя Азия.

In the course of the preparation of *Euphorbia* L. treatment for “Flora of Uzbekistan” and a checklist of this genus for Middle Asia (Kazakhstan, Kyrgyzstan, Uzbekistan, Turkmenistan, Tajikistan), it became clear that designation of lectotypes for several names described from this area is necessary. In some cases, the second-step lectotype designation is required because more than one specimen matches the already made designations (Prokhanov, 1933).

Material and methods

Holdings of the Herbarium of the Komarov Botanical Institute of the Russian Academy of Sciences (LE) were mainly used for this work. Resources of the Moscow Digital Herbarium (Seregin, 2025) and Global Plants on JSTOR (2025) were also of significant importance.

Designation of lectotypes

Euphorbia alataunica Boiss. 1860, Cent. Euphorb.: 33.

Type provenance: “In alpinis herbosis montis Alatau Songariae (Kar. et Kir. pl. exs. 1851 n 1945), Alatau et Dschillkaragai (Schrenk!)”.

Lectotype (I: designated by Prokhanov (1933: 97); II: Geltman, designated here): Kazakhstan, “In subalpinis et alpinis herbosis Alatau ad fl. Lepsa, Sarchan et Aksu, 1841, Karelin, Kiriloff, № 1945” (LE: [LE 01249161](#)); isolecotypes — [A00277317](#), [BM001050484](#), [BM001050485](#), G-DC: [G00311801](#); [LE 01249162](#), [LE 01249163](#), [LE 01249164](#), [LE 01249165](#), [LE 01249166](#), [LE 01249167](#), [LE 01249168](#), [LE 01249174](#), etc.

Lectotype designation made by Baikov (2001) and accepted by me (Geltman, 2008) appeared to be superfluous.

Euphorbia altaica Ledeb. α. *elatio*r Stschegl. 1854, Bull. Soc. Imp. Naturalistes Moscou, 54, 5: 194.

Type provenance: “Donsyk, majo 1844”.

Lectotype (Geltman, designated here): Kazakhstan, “Donsyk, 1844 [Karelin]” (LE: [LE 01306810](#)); isolectotype — [LE 01306811](#).

Euphorbia altaica Ledeb. β. *pilosa* Stschegl. 1854, Bull. Soc. Imp. Naturalistes Moscou, 54(5): 194.

Type provenance: “Cum praecedente [Donsyk, majo 1844]”.

Lectotype (Geltman, designated here): Kazakhstan, “1844 [Karelin]” (LE: [LE 01306812](#)); isolectotypes — [LE 01306813](#), [LE 01306814](#), [LE 01306815](#).

Euphorbia ferganensis B. Fedtsch. 1916, Conspect. Fl. Turkest. 6: 304.

Type provenance: “Западный Тянь-Шань: Наманган[ский] у.: Паша-ата, сай Айвек, 13 X 1910, № 160 (О. и Б. Федченко), Касан (Б. Федченко); Ошск[ий] у.: бл. Гульши (Б. А. и О. А. Федченко), бл. Попана (О. Э. фон Кнорринг); Скобелев[ский] у.: овраг Караджегач (Н. А. Десятова); Памиро-Алай: Алайский хребет (О. и Б. Федченко)” [Western Tien-Shan: Namangan district: Pasha-ata, Ayvek vadi, 13 X 1910, № 160 (O. and B. Fedtschenko), Kasan (B. Fedtschenko); Osh district: near Gulsha (B. A. and O. A. Fedtschenko, near Popan (O. E. von Knorring); Skobelev district: Karadzhegach ravine (N. A. Desiatova); Pamir-Alay: the Alay range (O. and B. Fedtschenko)]”.

Lectotype (I: designated by Prokhanov (1933: 77); II: Geltman, designated here): Kyrgyzstan, “Ферганская обл., Паша-ата, сай Айвек, 13 X 1910, О. А. Федченко, Б. А. Федченко, № 160 [Fergana region, Pasha-ata, Aivek vadi, 13 X 1910, O. A. Fedtschenko, B. A. Fedtschenko, № 160]” (LE: [LE 01249234](#)); isolectotype — [LE 01306818](#).

Euphorbia pachyrhiza Kar. et Kir. 1841, Bull. Soc. Imp. Naturalistes Moscou, 14(4): 745.

Type provenance: “In rupestribus montium Aktschauly frequens; in montibus Tarbagatai ad torrentem Tscheharak-Assu rarior”.

Lectotype (I: designated by Prokhanov (1933: 82); II: Geltman, designated here): Kazakhstan, “In rupestribus montium Aktschauly frequens; in montibus Tarbagatai ad torrentem Tscheharak-Assu rarior, 1840, Karelin et Kirilloff” (LE: [LE 01306601](#)); isolectotypes — G-DC: [G00311800](#); [LE 01306602](#), [LE 01306603](#), [LE 01306604](#), [LE 01306605](#), [LE 01306606](#), [LE 01306607](#), [LE 01306608](#), [LE 01306609](#), [LE 01306610](#), [LE 01306611](#), [LE 01306612](#), [LE 01306613](#), [LE 01306614](#), [LE 01306615](#), [LE 01306616](#), [LE 01306617](#), [LE 01306618](#), [MW0593518](#).

Earlier (Geltman, 2008) I wrongly attributed lectotype designation of this name to Gubanov et al. (1998).

Euphorbia rapulum Kar. et Kir. 1842, Bull. Soc. Imp. Naturalistes Moscou, 15(2): 448.

Type provenance: “In agrillosis Songoriae inter rivulos Donsyk et Tschulak”.

Lectotype (I: designated by Prokhanov (1933: 73); II: Geltman, designated here): Kazakhstan, “In agrillosis Songoriae inter rivulos Donsyk et Tschulak, 1841, Karelin, Kirilloff” (LE: [LE 01249233](#)); isolectotypes — [BR 0000005102228](#), G-DC: [G00311647](#), [G00311648](#); [H1034934](#), [K001080158](#), [K001080159](#), [K001080160](#), [LE 01306819](#), [LE 01306820](#), [LE 01306821](#), [LE 01306822](#), [LE 01306823](#), [LE 01306824](#), [LE 01306825](#), [LE 01306826](#), [LE 01306827](#), [LE 01306828](#), [LE 01306829](#), [MW0593521](#), [MW0593522](#), [NY 00263368](#), TASH 39503.

Euphorbia sarawschanica Regel, 1882, Izv. Imp. Obshch. Lyubit. Estestv. Moskovsk. Univ. 34(2): 78.

Type provenance: “In valle fluvii Sarawschan in angustis Saratag et in trajectu Ansob (O. Fedtschenko)”.

Lectotype (I: designated by Prokhanov (1933: 68); II: Geltman, designated here): Tajikistan, “Заравшанский бассейн, ущелье Сапарат, 7000–12000', 16 VI 1870, О. Федченко [Zaravshan basin, Saratag gorge, 7000–12000', 16 VI 1870, O. Fedtschenko]” (LE: [LE 01249231](#)); isolectotype — [LE 01249230](#).

Lectotype and isolectotype are mounted together with syntypes [LE 01249232](#) and [LE 01249229](#) respectively.

Euphorbia sarawschanica Regel var. *hirta* Korovin, 1927, Herb. Fl. Asiae Mediae: № 308.

Type provenance: “Herbarium Florae Asiae Mediae ad Universitate Asiae Mediae editum. Fasc. XIII. Januarius a. 1927... Montes Meridionales: Tian-Schan occidentalis, in regione subalpina montis Tschimgan Majoris, ad declivia saxosa, 29 VII 1925, Korovin, Mokeeva”.

Lectotype (Geltman, designated here): Uzbekistan, “Montes Meridionales: Tian-Schan occidentalis, in regione subalpina montis Tschimgan Majoris, ad declivia saxosa, 29 VII 1925, Korovin, Mokeeva” (LE: [LE 01249227](#)); isolectotype — [LE 01249228](#).

Euphorbia yaroslavii Poljakov, 1961, Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk SSSR, 21: 484. — *E. jaroslavii* Poljakov, 1953, op. cit. 15: 155, nom. inval.

Type provenance: “Kazakhstania, in montibus Transiliensibus, in valle fl. Czernolgan, 16 IV 1951, P. Poljakov. In Herb. Inst. bot. Acad. Sci. URSS (Leningrad) conservatur”.

Lectotype (Geltman, designated here): Kazakhstan, “Заилийский Алатау, предгорья, на южном склоне ущ. р. Чемолган, близ лесного кордона, 18 IV 1951, П. Поляков [Ile Alatau, foothills, south slope of the Chemolgan River gorge, near forestry cordon, 18 IV 1951, P. Poljakov]” (LE: [LE 01249236](#)); isolectotypes — [LE 01306816](#), [LE 01306817](#).

There is an evident typeset error in the collection date in the protologue.

Tithymalus lipskyi Prokh. 1933, Sist. Obzor Molochaev Sredn. Azii: 80. ≡ *Euphorbia lipskyi* (Prokh.) Prokh. 1949, Fl. URSS, 14: 347.

Type provenance: “Sogdiana, in montibus Baisuntag, supra trajectum Chodzha-asmyn (1896. VII. 4. fr. V. Lipsky). In herbario Horti Bot. Petrop. conservatur”.

Lectotype (Geltman, designated here): Uzbekistan, “Выше [перевала] Ходжа-Асмын, 22 VI 1896, В. И. Липский [Above Khodzha-Asmyn pass, 22 VI 1896, Lipsky]” (LE: [LE 01249235](#)); isolectotypes — [LE 01306830](#), [LE 01306831](#).

The collection date in the protologue was given according Julian calendar, on the herbarium label — according Grigorian calendar.

Tithymalus mucronulatus Prokh. 1930, Izv. Glavn. Bot. Sada SSSR, 29: 554. ≡ *Euphorbia mucronulata* (Prokh.) Pavlov, 1933, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 42: 128.

Type provenance: “Specimen examinatum: Turkestan, monte Mazar Babai Togdar jugi Aktau prope Tashkent (1899. VII. 24. fl. et fr. Mussa — typus. in Hort. Bot. Petrop. conservatur)”.

Lectotype (Geltman, designated here): Uzbekistan, “Masar Babai Togdar auf dem Aktau bei Taschkent, 12 VII 1880, Mussa (A. Regel, iter Turkestanicum)” (LE: [LE 01306803](#)); isolectotypes — [LE 01306804](#), [LE 01306805](#), [LE 01306806](#), [LE 01306807](#), [LE 01306808](#).

There is an evident mistake in the year of the collection date in the protologue. It is also necessary to take into account difference between Julian and Grigorian calendars concerning collection dates in the protologue and on the herbarium label.

Tithymalus transoxanus Prokh. 1930, Izv. Glavn. Bot. Sada SSSR, 29: 553. ≡ *Euphorbia transoxana* (Prokh.) Prokh. 1949, Fl. URSS, 14: 350.

Type provenance: “jugo Hissarico, Verchni Kanjaz (Khush Sedym) (V. Lipsky. H. B. Petrop.)”.

Lectotype (Geltman, designated here): Uzbekistan, “Бухара, верх[овья] Канязя (Хуш-Седым), 25 VII 1896, В. И. Липский [Bukhara, upper reaches of Kanyazy (Khush-Sedym), 25 VII 1896, Lipsky]” (LE: [LE 01306801](#)); isolectotype — [LE 01306802](#).

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