



# Validation and mutation of the names of some syntaxa from the class *Phragmito-Magnocaricetea*

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## ABSTRACT

In this article, the association *Alismato-Scirpetum sylvatici* was validated according to the requirements of article 5 of the International Code of Phytosociological Nomenclature (ICPN 4th edition). Also the mutation of names (article 45 of ICPN) of five syntaxa: *Schoenoplectetum lacustris*, *Bolboschoeno fluviatilis-Zizanietum latifoliae*, *Petasisition radiatae*, *Petasisitetum radiatae* and *Arctophiletum fulvae* was performed.

**Keywords:** ICPN-IV, phytosociological nomenclature, validation, mutation of names

## РЕЗЮМЕ

Тетерюк Б.Ю. Валидизация и мутация имен некоторых синтаксонов класса *Phragmito-Magnocaricetea*. В данной статье согласно требованиям статьи 5 Кодекса фитосоциологической номенклатуры (издание 4) (КФСН-IV) валидизирована ассоциация *Alismato-Scirpetum sylvatici*. Также выполнена мутация имен (статья 45 КФСН-IV) пяти синтаксонов: *Schoenoplectetum lacustris*, *Bolboschoeno fluviatilis-Zizanietum latifoliae*, *Petasisition radiatae* и *Arctophiletum fulvae*.

**Ключевые слова:** Кодекс ФСН-IV, фитосоциологическая номенклатура, валидизация, мутация имен

An analysis of the present structure of the class *Phragmito-Magnocaricetea* Klika in Klika et Novák 1941 of the vegetation cover of Russia showed that the names of some syntaxa do not satisfy the requirements of the International Code of Phytosociological Nomenclature (ICPN-IV) (Theurillat et al. 2021). In this paper, I validate the name of one association in accordance with article 5a of the ICPN-IV and make mutation of the names of five syntaxa in accordance with article 45 of the ICPN-IV.

## Validation of syntaxa

*Alismato-Scirpetum sylvatici* ass. nova hoc loco, **holotypus** hoc loco – relevé 5 in Table 21, p. 117 in Grigorjev et al. (2002); the full diagnosis and diagnostic taxa of the association are given in Grigorjev et al. (2002: 38–39). **Synonyms:** *Alismato-Scirpetum sylvatici* Grigorjev, Solomeshch, Alimbekova et Onishchenko 2002 nom. inval. (Art. 5a); *Scirpetum sylvatici* Ralski 1931 var. *Carex acuta* Hájková et Hájek in Chytrý et al. 2007.

## Mutation of names

*Schoenoplectetum lacustris* Chouard 1924 **nom. mut. nov.**; original form of the name (Chouard 1924: 1136–1137); Association à *Scirpus lacustris*; original name-giving taxon (Linnaeus 1753): *Scirpus lacustris* Linnaeus 1753; mutated name-giving taxon (Palla 1888): *Schoenoplectus lacustris* (L.) Palla 1888. **Synonyms:** *Scirpetum lacustris* Chouard 1924 nom. inept., *Scirpo lacustris-Glycerietum aquaticae* Allorge 1921 [Art. 37, p. p.], *Scirpo-Phragmitetum* Koch 1926 [Art. 36, p. p.], *Schoenoplectetum lacustris* Eggleter 1933, *Scirpetum lacustris* Schmale 1939, *Scirpo-Phragmitetum medioeuropaeum* (Koch 1926) Tx. 1941 [Art. 36, p. p.], *Phalaroido-Scirpetum lacustris* Golub et Mirkin 1986 [Art. 37, p. p.]. **Notes:** The taxon name for the mutation is used according to Euro+Med (2006-), Jiménez-Mejías & Luceño (2011), WFO (2023a).

*Bolboschoeno fluviatilis-Zizanietum latifoliae* Miyawaki et Okuda 1972 **nom. mut. nov.**; original form of the name (Miyawaki & Okuda 1972: 227); *Scirpo fluviatilis-Zizanietum latifoliae*; original name-giving taxa (Gray 1856, Stapf 1909);

*Scirpus fluviatilis* (Torrey) A. Gray 1848, *Zizania latifolia* Turczaninow ex Stapf 1909; mutated name-giving taxon (Soják 1972): *Bolboschoenus fluviatilis* (Torrey) Soják 1972. **Synonyms:** *Scirpo fluviatilis-Zizanietum latifoliae* Miyawaki et Okuda 1972 nom. inept., *Zizanietum* Akhtyamov 1987 [Art. 1], *Salvinio natantis-Zizanietum latifoliae* Krutskih et al. 2013. **Notes:** The taxon name for the mutation is used according to Govaerts & Simpson (2007), IPNI (2023), WFO (2023b).

*Petasisition radiatae* Klotz et Köck 1986 **nom. mut. nov.**; original form of the name (Klotz & Köck 1986: 545); *Nardosmion laevigatae*; original name-giving taxon (de Candolle 1836): *Nardosmia laevigata* DC.; mutated name-giving taxon (Toman 1972): *Petasisites radiatus* (J.F. Gmel.) Toman. **Synonyms:** *Nardosmion laevigatae* Klotz et Köck 1986 nom. inept. **Notes:** The taxon name for the mutation is used according to Krasnoborov (1997), Euro+Med (2006-), WFO (2023c).

*Petasisitetum radiatae* Klotz et Köck 1986 **nom. mut. nov.**; original form of the name (Klotz & Köck 1986: 543); *Nardosmion laevigatae*; original name-giving taxon (de Candolle 1836): *Nardosmia laevigata* DC.; mutated name-giving taxon (Toman 1972): *Petasisites radiatus* (J.F. Gmel.) Toman. **Synonyms:** *Nardosmion laevigatae* Klotz et Köck 1986 nom. inept., *Aegopodio-Nardosmion laevigatae* Klotz et Köck 1986 prov. [Art. 3b], *Aegopodio podagruriae-Nardosmion laevigatae* Korotkov et al. 1991 prov. [Art. 3b]. **Notes:** The taxon name for the mutation is used according to Krasnoborov (1997), Euro+Med (2006-), WFO (2023c).

*Arctophiletum fulvae* Sambuk 1930 **nom. mut. nov.**; original form of the name (Sambuk 1930: 126); *Colpodietum fulvi*; original name-giving taxon (Ledebur 1852): *Colpodium fulvum* Grisebach 1852; mutated name-giving taxon (Andersson 1852): *Arctophila fulva* (Trinius) Andersson 1852. **Synonyms:** *Colpodietum fulvi* Sambuk 1930 nom. inept., *Arctophiletum fulvae* Thannheiser 1976 [Art. 23], *Arctophiletum fulvae* Gogoleva et Kononov et al. 1989 [Arts. 1, 23], *Arctophilo-Hippuridetum lanceolatae* Pstryakov et Gogoleva 1989 [Art. 1]. **Note:** The taxon name for the mutation is used according to Euro+Med (2006-), Flora ..., (2007), WFO (2023d). Since Sambuk did not provide a type relevé for the association, lectotypification was carried out by G.S. Taran (1998), who assigned relevé 48 (Sambuk 1930: table on the page 126) as a lectotype.

## CONCLUSIONS

The syntaxonomic position of validated syntaxon and syntaxa whose names are mutated is as follows.

- Phragmito–Magnocaricetea** Klika in Klika et Novák 1941  
**Phragmitetalia australis** Koch 1926 nom. corr.  
**Phragmition australis** Koch 1926 nom. corr.  
**Schoenoplectetum lacustris** Chouard 1924 mut.  
 Tetryuk 2023  
**Bolboschoeno fluviatilis–Zizanietum latifoliae**  
 Miyawaki et Okuda 1972 mut. Tetryuk 2023  
**Petasition radiatae** Klotz et Köck 1986 mut.  
 Tetryuk 2023  
**Petasitetum radiatae** Klotz et Köck 1986 mut.  
 Tetryuk 2023  
**Magnocaricetalia** Pignatti 1953  
**Magnocaricion elatae** Koch 1926  
**Alismato–Scirpetum sylvatici** Grigorjev,  
 Solomeshch, Alimbekova et Onishchenko ex  
 Tetryuk 2023  
**Oenanthetalia aquaticae** Hejný ex Balátová-Tulácková  
 et al. in Mucina et al. 1993  
**Arctophilion fulvae** Pstryakov et Gogoleva ex  
 Kholod 2007  
**Arctophiletum fulvae** Sambuk 1930 mut. Tetryuk 2023

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## LITERATURE CITED

- Andersson, N.J. 1852. *Plantas Scandinaviae Descriptionibus et Figuris analyticis Adumbratae. Fasciculus Secundus Gramineae Scandinaviae Complectens. Vol. 1–2*, Stockholm, 224 pp.
- Chouard, P. 1924. Monographies phytosociologiques. I. La région de Bruguéil P. Ainé (Confolentais). *Bulletin de la Société Botanique de France* 71:1130–1158.
- Chytrý, M. (ed.) 2007. *Vegetace České republiky 1. Travinná keříčková vegetace*. Academia, Praha, 528 s.
- de Candolle, A.P. 1830. *Prodromus Systematis naturalis regni vegetabilis, sive, Enumeratio contracta ordinum, generum, specierumque plantarum huc usque cognitarum, juxta methodi naturalis normas digesta Vol. 4*. Sumptibus Sociorum Treuttel et Würtz, Parisiis, 683 pp.
- Euro+Med 2006-. *Euro+Med PlantBase – the information resource for Euro-Mediterranean plant diversity*. Published on the Internet <http://ww2.bgbm.org/EuroPlusMed/> Last accessed 01.02.2023.
- Flora of North America Editorial Committee 2007. *Flora of North America North of Mexico. Vol. 24*. Oxford University Press, New York, Oxford, 908 pp.
- Govaerts, R. & D.A. Simpson 2007. *World Checklist of Cyperaceae. Sedges*. Kew Publishing, Kew, London, 765 pp.
- Gray, A. 1856. *Manual of the botany of the Northern United States: including Virginia, Kentucky, and all east of the Mississippi: (the mosses and liverworts by Wm. S. Sullivant,) arranged according to the natural system. 2-nd edition*. George P. Putnam & Co, New York, 739 pp.
- Grigorjev, I.N., A.I. Solomeshch, L.M. Alimbekova & L.I. Onishchenko 2002. *Wet meadows of the Republic of Bashkortostan: syntaxonomy and conservation issues*. Gilem, Ufa, 157 pp. (in Russian). [Григорьев И.Н., Соломенщ А.И., Алимбекова Л.М., Онищенко Л.И. Влажные луга Республики Башкирия: синтаксономия и вопросы охраны. Уфа: Гилем. 157 с.]
- IPNI 2023. *The International Plant Names Index and World Checklist of Vascular Plants 2023*. Published on the Internet at <http://www.ipni.org> and <https://powo.science.kew.org/> Last accessed 01.02.2023.
- Klotz, S. & U.-V. Köck 1986. Vergleichende Geobotanische Untersuchungen in der Baschkirischen ASSR. 4. Teil: Wiesen- und Saumgesellschaften. *Feddes Repertorium* 97(7–8):527–546.
- Krasnoborov, I.M. (ed.) 1997. *Flora of Siberia. Vol. 13: Asteraceae (Compositae)*. Nauka, Novosibirsk, 499 pp. (in Russian). [Красноборов И.М. 1997. Флора Сибири. Новосибирск: Наука. Т. 13: Asteraceae (Compositae) 472 с.]
- Ledebur, C.F. 1852. *Flora Rossica; sive, Enumeratio plantarum in totius Imperii Rossici provinciis Europaeis, Asiaticis et Americanis hucusque observatarum. Vol. 4*. Sumptibus Librariae E. Schweizerbart, Stuttgart. 774 pp.
- Linnaeus, C. 1762. *Species plantarum, exhibentes plantas rite cognitatas, ad genera relatas, cum differentiis specificis, nominibus trivialis, synonymis selectis, locis natalibus, secundum systema sexuale digestas. Editio secunda, aucta, Vol. I*. Holmiae, Salvius. 784 s.
- Miyawaki, A. & S. Okuda 1972. Pflanzensoziologisches Untersuchungen über die Auenvegetation des Flusses Tama by Tokyo, mit einer vergleichenden Betrachtung über die Vegetation des Flusses Tone. *Vegetatio* 24:229–311.
- Palla, E. 1888. Zur Kenntnis der Gattung "Scirpus". *Botanische Jahrbücher für Systematik, Pflanzengeschichte und Pflanzengeographie* 10(4):298–299.
- Sambuk, F.V. 1930. Botanical and geographical sketch of the Pechora river valley. In: *Proceedings of the Botanical Museum. Vol. 22* (N.A. Bush, ed.), pp. 49–146, Nauka, Leningrad (in Russian). [Самбук Ф.В. 1930. Ботанико-географический очерк долины р. Печоры // Труды ботанического музея АН СССР / под ред. Н.А. Буша. Ленинград: Наука. Т. 22. С. 49–146].
- Soják, J. 1972. Doplnky k nomenklatuře některých rodů (Phanerogamae). *Časopis Národního muzea. Oddíl Přírodovědný, Prague* 141:61–63.
- Stapf, O. 1909. The Manchurian Water-Rice. (*Zizania latifolia* Turcz.) *Bulletin of Miscellaneous Information (Royal Botanic Gardens, Kew)* 9:385–390.
- Taran, G.S. 1998. Essay of the vegetation of the western part of the Elizarovsky reserve. In: *Biological resources and environmental management. Collection of scientific papers* (Yu.M. Titov, ed.), pp. 22–39, Izdatel'stvo Nizhnevartovskogo pedagogicheskogo instituta, Nizhnevartovsk (in Russian). [Таран Г.С. 1998. Очерк растительности западной части Елизаровского заказника // Биологические ресурсы и природопользование: Сборник научных трудов / ред. Ю.М. Титов. Нижневартовск: Издательство Нижневартовского педагогического института. С. 22–39].
- Theurillat, J.-P., W. Willner, F. Fernández-González, H. Bültmann, A. Carni, D. Gigante, L. Mucina & H. Weber 2021. International Code of Phytosociological Nomenclature. 4th edition. *Applied Vegetation Science* 24: e12491.
- Toman, J. 1972. A taxonomic survey of the genera *Petasites* and *Endocellion*. *Folia Geobotanica & Phytotaxonomica* 7:381–406.
- WFO 2023a. *Schoenoplectus lacustris* (L.) Palla. Published on the Internet; <http://www.worldfloraonline.org/taxon/wfo-0000527292>. Last accessed 10.02.2023.
- WFO 2023b. *Bolboschoenus fluviatilis* (Torr.) Soják Published on the Internet; <http://www.worldfloraonline.org/taxon/wfo-0000341686>. Last accessed 10.02.2023.
- WFO 2023c. *Petasites radiatus* (J.F.Gmel.) Toman. Published on the Internet; <http://www.worldfloraonline.org/taxon/wfo-0000031732>. Last accessed 10.02.2023.
- WFO 2023d. *Arctophila fulva* (Trin.) Andersson. Published on the Internet; <http://www.worldfloraonline.org/taxon/wfo-0000848426>. Last accessed 10.02.2023.