



Validation of some syntaxa from the classes *Loiseleurio procumbentis*–*Vaccinietea*, *Molinio*–*Arrhenatheretea*, *Festuco*–*Brometea*, *Cakiletea maritima*, *Juncetea maritimi*, and *Phragmito*–*Magnocaricetea*

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ABSTRACT

In this paper, we validate the names of the alliances *Conioselinion tatarici*, *Agropyron pectinati*, *Atriplicion nudicaulis*, *Triglochino maritimi*–*Fucion vesiculosi* and the names of the lower syntaxa subordinate to them are validated according to the requirements of the fourth edition of the International Code of Phytosociological Nomenclature. The names of associations related to the alliances *Phyllodoco*–*Vaccinion myrtilli* Nordhagen 1943, *Puccinellion phryganodis* Hadač 1946, *Scirpion maritimi* Dahl et Hadač 1941 are also validated.

Keywords: vegetation, syntaxonomy, phytosociological nomenclature

РЕЗЮМЕ

Голуб В.Б., Терция Ж.-П. Валидизация имен некоторых синтаксонов классов *Loiseleurio procumbentis*–*Vaccinietea*, *Molinio*–*Arrhenatheretea*, *Festuco*–*Brometea*, *Cakiletea maritima*, *Juncetea maritimi*, and *Phragmito*–*Magnocaricetea*. В данной статье согласно требованиям статей Кодекса фитоценологической номенклатуры (издание 4) валидизированы названия союзов *Conioselinion tatarici*, *Agropyron pectinati*, *Atriplicion nudicaulis*, *Triglochino maritimi*–*Fucion vesiculosi* и названия подчиненных им низших синтаксонов. Валидизированы также названия ассоциаций, относящихся к союзам *Phyllodoco*–*Vaccinion myrtilli* Nordhagen 1943, *Puccinellion phryganodis* Hadač 1946, *Scirpion maritimi* Dahl et Hadač 1941.

Ключевые слова: растительность, синтаксономия, фитоценологическая номенклатура

The names of a number of syntaxa, in the naming of which one of the first author of this paper participated, do not comply with the articles (Art.) of the International Code of Phytosociological Nomenclature (Theurillat et al. 2021), some of them (*Agropyron pectinati*, *Atriplicion nudicaulis*, *Conioselinion tatarici*) being part of the list of plant communities of Europe (Mucina et al. 2016). Therefore, we validate these names in this paper.

Validation of the names

Lathyro japonici–**Empetretum hermaphroditi** Golub, Sokoloff et Bondareva ex Golub et Theurillat **ass. nov. hoc loco, holotypus hoc loco** – relevé 7 in table 4 on page 134 in Golub et al. (2003a); the full diagnosis is on page 134 in Golub et al. (2003a). **Syn.:** *Lathyro japonici*–*Empetretum hermaphroditi* Golub, Sokoloff, Bondareva 2003 nom. inval. (Arts. 3o, 5a). The association name was invalid because the Latin word 'holotypus' was not used in designating the type relevé.

Conioselinion tatarici Golub, Sokoloff et Bondareva ex Golub et Theurillat **all. nov. hoc loco, holotypus hoc loco** – *Alopecuro arundinacei*–*Agrostietum giganteae* (validated in this paper); the full diagnosis with the diagnostic taxa (in Russian: "Д. т.", i.e. "D. t." for differential taxa; see also table 3) is on pages 128–129 in

Golub et al. (2003 a). **Syn.:** *Conioselinion tatarici* Golub, Sokoloff, Bondareva 2003 nom. inval. (Art. 3o, 5a). The alliance name was invalid because its type was an invalidly published association name and also the Latin word 'holotypus' was not used in the designation of the type.

Alopecuro arundinacei–**Agrostietum giganteae** Golub, Sokoloff et Bondareva ex Golub et Theurillat **ass. nov. hoc loco, holotypus hoc loco** – relevé 8 in table 3 on pages 130–131 in Golub et al. (2003a); the full diagnosis is on pages 132–133 in Golub et al. (2003a). **Syn.:** *Alopecuro arundinacei*–*Agrostietum giganteae* Golub, Sokoloff, Bondareva 2003 nom. inval. (Arts. 3o, 5a).

Rumici pseudonatronati–**Anthriscetum sylvestris** Golub, Sokoloff et Bondareva ex Golub et Theurillat **ass. nov. hoc loco, holotypus hoc loco** – relevé 5 in table 3 on pages 130–131 in Golub et al. (2003a); the full diagnosis is on pages 129–132 in Golub et al. (2003 a). **Syn.:** *Rumicetum pseudonatronati* Golub, Sokoloff, Bondareva 2003 nom. inval. (Arts. 3o, 5).

Dianthetum superbi Golub, Sokoloff et Bondareva ex Golub et Theurillat **ass. nov. hoc loco, holotypus hoc loco** – relevé 11 in table 3 on pages 130–131 in Golub et al. (2003a); the full diagnosis is on page 133 in Golub et al. (2003a). **Syn.:** *Dianthetum superbi* Golub, Sokoloff, Bondareva 2003 nom. inval. (Arts. 3o, 5).

Agropyron pectinati Golub et Uzhametskaya ex Golub et Theurillat **all. nov. hoc loco, holotypus hoc loco** – *Ornithogalo fischeriani*–*Artemisietum lerchianae* Golub et Uzhametskaya 2016; the original diagnosis of the association is on p. 204 and the full diagnosis of the alliance with the diagnostic taxa (in Russian: "Диагностические виды", i.e. "diagnostic species") on pages 201–202 in Golub and Uzhametskaya (2016), respectively. The name-giving taxon is *Agropyron cristatum* subsp. *pectinatum* (M. Bieb.) Tzvelev 1970 (= *A. pectinatum* (M. Bieb.) P. Beauv. 1812). **Syn.**: *Agropyron pectinati* Golub et Uzhametskaya 1991 – phantom; *Agropyron pectinati* Uzhametskaya 1992 nom. inval. (Art. 1); *Agropyron pectinati* Golub et Uzhametskaya 1992 nom. inval. (Art. 2b); *Agropyron pectinati* Golub et Uzhametskaya 2016 nom. inval. (Art. 3o, 5a). Golub & Uzhametskaya (2016) attempted to validate the alliance unsuccessfully. The association name "*Ornithogalo fischeriani*–*Stipetum lessingianae* Uzhametskaya ass. nov." was chosen as the nomenclatural type of the alliance name. However, this association name was not validly published in Golub & Uzhametskaya (2016), for which there is only a synoptic relevé for the association. In fact, the name "*Ornithogalo fischeriani*–*Stipetum lessingianae*" was a mismatch for the name "*Ornithogalo fischeriani*–*Artemisietum lerchianae*", which was validly published with its holotype on p. 204. However, as there was no indication that the two names have been confused, an erroneous indication in the sense of Art. 7 cannot apply and the name *Agropyron pectinati* was invalidly published in Golub & Uzhametskaya (2016) (Art. 3o, 5a).

Atriplicion nudicaulis Golub, Sokoloff et Bondareva ex Golub et Theurillat **all. nov. hoc loco, holotypus hoc loco** – *Atriplicetum nudicaulis* (validated in this paper); the full diagnosis with the diagnostic taxa (in Russian: "Д. т.", i.e. "D. t." for differential taxa) is on pages 127–128 in Golub et al. (2003a). **Syn.**: *Atriplicion nudicaulis* Golub, Sokoloff, Bondareva 2003 nom. inval. (Art. 5a, 8).

Atriplicetum nudicaulis Golub, Sokoloff et Bondareva ex Golub et Theurillat **ass. nov. hoc loco, holotypus hoc loco** – relevé 2 in table 1 on page 127 in Golub et al. (2003a); the full diagnosis is on page 128 in Golub et al. (2003a). **Syn.**: *Atriplicetum nudicaulis* Golub, Sokoloff, Bondareva 2003 nom. inval. (Arts. 3o, 5a).

Atriplicetum nudicaulis typicum Golub, Sokoloff et Bondareva ex Golub et Theurillat **subass. nov. hoc loco**. **Syn.**: *Atriplicetum nudicaulis typicum* Golub, Sokoloff, Bondareva 2003 nom. inval. (Arts. 3o, 5a).

Atriplicetum nudicaulis alopecuretosum arundinacei Golub, Sokoloff et Bondareva ex Golub et Theurillat **subass. nov. hoc loco, holotypus hoc loco** – relevé 6 in table 1 on page 127 in Golub et al. (2003a); the full diagnosis is on page 128 in Golub et al. (2003a). **Syn.**: *Atriplicetum nudicaulis alopecuretosum arundinacei* Golub, Sokoloff, Bondareva 2003 nom. inval. (Art. 3o, 5a).

Triglochino maritimae–Fucion vesiculosi Golub, Sokoloff et Sorokin ex Golub et Theurillat **all. nov. hoc loco, holotypus hoc loco** – *Triglochino maritimi*–*Fucetum vesiculosi* (validated in this paper); the full diagnosis with the diagnostic taxa (in Russian: "Д. т.", i.e. "D. t." for differential taxa) is on pages 78–79 in Golub et al. (2003b). **Syn.**: *Triglochino maritimi*–*Fucion vesiculosi* Golub, Sokoloff, Sorokin 2003 nom. prov. (Art. 2b, 3b).

Triglochino maritimae–Fucetum vesiculosi Golub, Sokoloff et Sorokin ex Golub et Theurillat **ass. nov. hoc loco, holotypus hoc loco** – relevé 6 in table 6 on page 79 in Golub et al. (2003b); the full diagnosis is on

pages 79–80 in Golub et al. (2003 b). **Syn.**: *Triglochino maritimi*–*Fucetum vesiculosi* Golub, Sokoloff, Sorokin 2003 prov. (Art. 3b, 3o).

Fuco vesiculosi–Caricetum rectae Golub, Sokoloff et Sorokin ex Golub et Theurillat **ass. nov. hoc loco, holotypus hoc loco** – relevé 1 in table 6 on page 79 in Golub et al. (2003b); the full diagnosis is on page 79 in Golub et al. (2003b). **Syn.**: *Fuco vesiculosi*–*Caricetum rectae* Golub, Sokoloff, Sorokin 2003 prov. (Art. 3b, 3o).

Puccinellietum phryganodo-maritimae Golub, Sokoloff et Sorokin ex Golub et Theurillat **ass. nov. hoc loco, holotypus hoc loco** – relevé 3 in table 7, page 81 in Golub et al. (2003b); the full diagnosis is on page 80 in Golub et al. (2003b). **Syn.**: **Puccinellietum phryganodo-maritimae** Golub, Sokoloff, Sorokin 2003 prov. (Art. 3b, 3o) nom. inval.

Juncetum atrofusci **ass. nov. hoc loco, holotypus hoc loco** – relevé 7 in table 8 on page 81 in Golub et al. (2003b); the association corresponds to relevés 6–10 in table 8 in Golub et al. (2003b). The name-giving taxon is *Juncus gerardi* subsp. *atrofuscus* (Rupr.) Printz 1921 (= *J. atrofuscus* Rupr. 1845). **Syn.**: basal community *Juncus atrofuscus* [*Juncion atrofusci*] Golub, Sokoloff, Sorokin 2003 nom. inval. (Art. 3e).

Agrostio stramineae–Glaucetum maritimae Golub, Sokoloff et Sorokin ex Golub et Theurillat **ass. nov. hoc loco, holotypus hoc loco** – relevé 3 in table 9 on pages 82–83 in Golub et al. (2003b); the full diagnosis is on pages 81–82 in Golub et al. (2003 b). The name-giving taxon is *Agrostis stolonifera* subsp. *straminea* (Hartm.) Tzvelev 1971 (= *A. straminea* Hartm. 1819). **Syn.**: *Agrostio stramineae*–*Glaucetum maritimae* Golub, Sokoloff, Sorokin 2003 nom. prov. (Art. 3b, 3o).

Carici mackenziei–Blysmetum rufi Golub, Sokoloff et Bondareva ex Golub et Theurillat **ass. nov. hoc loco, holotypus hoc loco** – relevé 7 in table 10 on pages 83–84 in Golub et al. (2003b); the full diagnosis is on pages 83–84 in Golub et al. (2003b). **Syn.**: *Carici mackenziei*–*Blysmetum rufi* Golub, Sokoloff, Sorokin 2003 nom. prov. (Art. 3b, 3o).

CONCLUSION

The syntaxonomic position of syntaxa validated in this paper (bolded) in general syntaxonomical system is as follows.

Class

Order

Alliance

Association

Subassociation

Loiseleurio procumbentis–*Vaccinietea* Egger ex Schubert 1960

Deschampsio flexuosae–*Vaccinietalia myrtilli* Dahl 1957

Phyllodoco–*Vaccinion myrtilli* Nordhagen 1943

Lathyro japonici–Empetretum

hermaphroditi Golub, Sokoloff et Bondareva ex Golub et Theurillat 2025

Molinio–*Arrhenatheretea* Tüxen 1937

Molinietalia caeruleae Koch 1926

Conioselinion tatarici Golub, Sokoloff et Bondareva ex Golub et Theurillat 2025

Alopecuro arundinacei–Agrostietum giganteae Golub, Sokoloff et Bondareva ex Golub et Theurillat 2025

Rumici pseudonatronati–Anthriscetum sylvestris Golub, Sokoloff et Bondareva ex Golub et Theurillat 2025

Dianthetum superbi Golub, Sokoloff et Bondareva 2003 ex Golub et Theurillat 2025

Festuco–Brometea Braun-Blanquet et Tüxen ex Soó 1947

Festucetalia valesiacae Braun-Blanquet et Tüxen ex Braun-Blanquet 1950 nom. et typus cons.

Agropyron pectinati Golub et Uzhametskaya 2016 ex Golub et Theurillat 2025

Cakiletea maritimae Tüxen et Preising ex Braun-Blanquet et Tüxen 1952

Cakiletalia edentulae Thannheiser 1981

Atriplicion nudicaulis Golub, Sokoloff et Bondareva ex Golub et Theurillat 2025

Atriplicetum nudicaulis Golub, Sokoloff et Bondareva ex Golub et Theurillat 2025

Atriplicetum nudicaulis typicum

Atriplicetum nudicaulis

alopocuretosum arundinacei Golub, Sokoloff, et Bondareva ex Golub et Theurillat 2025

Juncetea maritimi Braun-Blanquet in Braun-Blanquet, Roussine et Nègre 1952

Puccinellietalia phryganodis Hadač 1946

Triglochino maritimae–Fucion vesiculosi Golub, Sokoloff et Sorokin ex Golub et Theurillat 2025

Triglochino maritimae–Fucetum vesiculosi Golub, Sokoloff et Sorokin ex Golub et Theurillat 2025

Fuco vesiculosi–Caricetum rectae Golub, Sokoloff, Sorokin ex Golub et Theurillat 2025

Puccinellion phryganodis Hadač 1946

Puccinellietum phryganodo-maritimae Golub, Sokoloff et Sorokin ex Golub et Theurillat 2025

Juncetum atrofusci Golub, Sokoloff et Sorokin ex Golub et Theurillat 2025

Agrostio stramineae–Glaucetum maritimae Golub, Sokoloff et Sorokin ex Golub et Theurillat 2025

Phragmito–Magnocaricetea Klika in Klika et Novák 1941

Bolboschoenetalia maritimi Hejný in Holub, Hejný, Moravec et Neuhäusl 1967

Scirpion maritimi Dahl et Hadač 1941

Carici mackenziei–Blysmetum rufi Golub, Sokoloff et Sorokin ex Golub et Theurillat 2025

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