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Nomenclatural notes on saline vegetation of Ukraine, southern Russia and Kazakhstan

Tatiana Lysenko (*), Ladislav Mucina (**) & Dmytro Iakushenko (***)

Abstract: Lysenko, T., Mucina, L. & Iakushenko, D. Nomenclatural notes on saline vegetation of Ukraine, southern Russia and Kazakhstan. *Lazaroa* 32: 187-189 (2011).

In this syntaxonomic nomenclature note we introduce the *Plantagini salsae-Artemision santonici* (*Artemisia santonicae-Limonietalia gmelinii*, *Festuco-Puccinellietea*), a new name for the syntaxon carrying an illegitimate name 'Artemision santonici Shelyag-Sosonko & Solomakha 1987'. This vegetation comprises *Artemisia santonicum* dominated salt-steppe vegetation on solonetz-like soils of slightly elevated habitats of alluvial plains and of the slopes of shallow depressions in the steppe zone of Ukraine and forest-steppe and steppe zones of Russia. We also suggest a nomenclatural adjustment (*nomen inversum*) for the 'Artemisia pauciflorae-Camphorosmion monspeliacae' (*Artemisietalia pauciflorae*, *Festuco-Puccinellietea*). The steppe vegetation classified within this latter syntaxon occurs in southern Russia and northern Kazakhstan.

Keywords: Alliance, Asia, Europe, *Festuco-Puccinellietea*, halophytic vegetation, Kazakhstan, Russian Federation, saline habitats, nomenclature, *nomen inversum*, phytosociology, Ukraine.

Resumen: Lysenko, T., Mucina, L. & Iakushenko, D. *Notas nomenclaturales de los saladares de Ucrania, sur de Rusia y Kazajistán*. *Lazaroa* 32: 187-189 (2011).

En esta nota nomenclatural proponemos el nombre de *Plantagini salsae-Artemision santonici* (*Artemisia santonicae-Limonietalia gmelinii*, *Festuco-Puccinellietea*), como nuevo para corregir el nombre ilegítimo 'Artemision santonici Shelyag-Sosonko & Solomakha 1987'. Esta vegetación comprende la vegetación esteparia salina rica en *Artemisia santonicum*, desarrollada en suelos tipo solonetz, de hábitats de planicies aluviales, algo elevadas, de las pendientes de las depresiones temporalmente inundadas, en las estepas de Ucrania, así como las estepas forestales y algunas estepas de Rusia. También sugerimos un ajuste nomenclatural (nómina inversa) para el 'Artemisia pauciflorae-Camphorosmion monspeliacae' (*Artemisietalia pauciflorae*, *Festuco-Puccinellietea*).

Palabras clave: alianza, Asia, Europa, *Festuco-Puccinellietea*, vegetación halófito, Kazajistán, Federación rusa, saladares, nomenclatura, *nomen inversum*, fitosociología, Ucrania.

This brief syntaxonomic nomenclature note introduces a new name for the *Artemisia santonicum* dominated salt steppes of Ukraine and southern Russia, and suggests performing a name inversion in the *Artemisia pauciflorae-Camphorosmion monspeliacae*, known to occur in southern Russia and in Kazakhstan. The names of the taxa have been adjusted according to the nomenclature as featured by the Euro+Med PlantBase (www.emplantbase.org), accessed on 8 October 2011.

***Plantagini salsae-Artemision santonici* all. nova**
hoc loco

(*Artemisia santonicae-Limonietalia gmelinii*,
Festuco-Puccinellietea)

Typus: *Limonio meyeri-Artemisietum santonici* SHEL-YAG-SOSONKO & SOLOMAKHA 1987 (SHEL-YAG-SOSONKO & SOLOMAKHA 1987: 16), *holotypus hoc loco*.

Synonyms: *Artemision santonici* SHEL-YAG-SOSONKO & SOLOMAKHA 1987 *nom. illeg.* (later ho-

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monym to *Artemision maritimae* Micevski 1970) (art. 31 of the ICPN; WEBER & al., 2000); *Artemision santonici* Shelyag-Sosonko & Solomakha 1987 em. Golub 1995 *illeg. emend.* (see GOLUB, 1994, p. 36-37).

Diagnostic taxa of the alliance: *Artemisia santonicum*, *Limonium meyeri*, *Plantago salsa*.

SHELYAG-SOSONKO & SOLOMAKHA (1987) have published a new alliance -the “*Artemision santonicae*” (*recte: Artemision santonici*) which comprises communities supported by solonetz-like soils characteristic of slightly elevated habitats in alluvial plains and of the slopes of shallow depressions of the steppe zone of Ukraine. A taxonomic revision of the *Artemisia maritima* group (PEARSON, 1974) demonstrated that the inland populations formerly considered as *A. maritima s. str.* should be called *A. santonicum*. As the *Artemision santonici* (*sensu* SHELYAG-SOSONKO & SOLOMAKHA, 1987) is based on the same taxonomic concept as the “*A. maritima*” [*recte: Artemisia santonicum*] of MICEVSKI (1970), the former name is a later homonym of the *Artemision maritimae* of MICEVSKI (1970) which was described from the Former Yugoslav Republic of Macedonia, hence illegitimate according to the Art. 31 of the ICPN (WEBER & al., 2000).

Here we reject the illegitimate name *Artemision santonici* SHELYAG-SOSONKO & SOLOMAKHA 1987 and coin a new name for this syntaxonomic concept - the *Plantagini salsae-Artemision santonici*. The communities of alliance supported by solonetz-like soils characteristic of slightly elevated habitats of alluvial plains and the slopes of shallow depressions of the steppe zone of Ukraine and forest-steppe zone of Russia.

Camphorosmo monspeliacae-Artemision pauciflorae* Karpov 2001 *nom. invers. propos.

(*Artemisietalia pauciflorae, Festuco-Puccinellietea*)

Original name: *Artemisio pauciflorae-Camphorosmion monspeliacae* Karpov 2001.

Holotypus: *Puccinellio tenuissimae-Artemisietum pauciflorae* Karpov 2001.

Synonyms: *Artemision pauciflorae* Grebenyuk, Golub et Yuritsyna 2000 *nom. inval.* (art. 5); *Arte-*

mision pauciflorae Grebenyuk, Golub & Yuritsina in Golub et al. 2005 (syntax. syn.); *Artemision pauciflorae* Grebenyuk, Golub et Yuritsyna in Golub et al. 2006 (syntax. syn.).

Diagnostic taxa of the alliance: *Artemisia pauciflora*, *Bassia prostrata*, *Camphorosma monspeliaca*.

The *Artemisio pauciflorae-Camphorosmion monspeliacae* KARPOV 2001 comprises plant communities dominated by *Artemisia pauciflora* on solonetz-like and solonetz soils of the Volga and Ural River basins. The name of this alliance (as suggested in the original diagnosis by KARPOV, 2001: 110) is in the contradiction with Article 10b of the ICPN since *Artemisia pauciflora* is invariably the dominating species (see the original diagnosis of the nomenclatural type of this alliance). We suggest inverting the name of the alliance to conform to the art. 42 of the ICPN. *Artemisia pauciflora* and *Camphorosma monspeliaca*, the eponymous species of the alliance, are distributed both in the steppe as well as in the desert zones, yet showing distributional optimum in the former zone (SAFRONOVA, 2010). In this respect, the *Camphorosmo-Artemision pauciflorae* should comprise plant communities dominated by dwarf sub-shrubs on solonetz-like chernozem and kastanozem soils of the steppe and desert zones of the Volga River basin, southern Ural region and western Kazakhstan.

Here we include also the *Artemision pauciflorae* into the *Camphorosmo monspeliacae-Artemision pauciflorae*, because of the coincidence of their distribution areas spanning the central and northwest part of Russia between Volga and Ural Rivers and neighbouring regions to the east of the Volga River (GOLUB & al., 2005) as well as in the Orenburg Region of Russia (KARPOV, 2001; GOLUB & al., 2005, 2006). They also show high similarity in floristic composition, and share position along ecological gradients. Last but not least, both the *Artemision pauciflorae* and the *Camphorosmo-Artemision* are impossible to separate in the tabular presentation of the syntaxa in GOLUB & al. (2005). For priority reasons, the valid name for this syntaxon should be the *Artemision pauciflorae-Camphorosmion monspeliacae* KARPOV 2001.

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