

Additions and Corrections to TRPIN'S and VREŠ'S "Register of the Flora of Slovenia"

Dopolnila in popravki k „Registru flore Slovenije“ TRPINOVE in VREŠA

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Abstract: Additions and corrections within four genera in the *Register of the Flora of Slovenia* have been found necessary and are recommended in this paper. New taxa for Slovenia are *Aconitum x aquilonare*, *A. tauricum* subsp. *latemarense*, *A. tauricum* subsp. *tauricum* var. *eustachyum*, *A. tuscheticum* and *A. vitosanum*. *A. lobelianum* is replaced by *A. napellus* s.str. and *Consolida orientalis* by *C. hispanica*. *Gentiana lutea* subsp. *lutea* and correspondingly the hybrid *G. x montis-benedicti* (syn. *G. x laengstii* nsubsp. *laengstii*) do not occur in Slovenia and therefore must be removed from the list. New combinations are *Aconitum tauricum* subsp. *tauricum* var. *eustachyum*, *Consolida regalis* subsp. *paniculata* var. *sparsiflora*, *C. regalis* subsp. *regalis* var. *glanduligera* and *Gentiana x laengstii* nsubsp. *komnensis*.

Izleček: V članku predlaga avtor dopolnila in popravke k štirim rodovom v „Registru flore Slovenije“. Novi taksoni za Slovenijo so *Aconitum x aquilonare*, *A. tauricum* subsp. *latemarense*, *A. tauricum* subsp. *tauricum* var. *eustachyum*, *A. tuscheticum* in *A. vitosanum*. Ime *A. lobelianum* je zamenjano z *A. napellus* s.str., *Consolida orientalis* z *C. hispanica*. *Gentiana lutea* subsp. *lutea* in *Gentiana x montis-benedicti* (syn. *G. x laengstii* nsubsp. *laengstii*); v Sloveniji ne rastejo in jih je treba v Registru izpustiti. Nove kombinacije so *Aconitum tauricum* subsp. *tauricum* var. *eustachyum*, *Consolida regalis* subsp. *paniculata* var. *sparsiflora*, *C. regalis* subsp. *regalis* var. *glanduligera* in *Gentiana x laengstii* nsubsp. *komnensis*.

1. Introduction

As a result of the revision of the genera *Aconitum*, *Consolida* and *Delphinium* for the third edition of the *Ranunculaceae* in HEGI's *Illustrierte Flora von Mittel-Europa*, I had to consider the taxa of these genera in the territory of Slovenia as well. When I received this register from my colleague Andrej PODOBNIK in Ljubljana, I had to compare the recorded taxa with the results of my investigations to search for differences in the systematics and especially in the taxonomy used by TRPIN & VREŠ 1995. Within the genera I am working with I ascertained only a few distinctions in the taxonomy, particularly in the nomenclature, but

in the genus *Aconitum* there are many taxa missing in all ranks. To be in harmony with the latest state of the taxonomy to be published in HEGI, it is necessary to make these additions and corrections for the flora of Slovenia.

As I studied the species list in the register, I also discovered a taxonomic mistake made in the nomenclature of hybrids in the genus *Gentiana*. A new combination is thus indispensable to bring the nomenclature of these hybrids in line with the International Code of Botanical Nomenclature (GREUTER, & al. 1988). I thank Professor Dr. Tone WRABER for his advice on the genus *Gentiana*.

2. *Aconitum* L.

Aconitum anthora occurs in Slovenia only with its yellow-flowering subspecies *anthora*. *Aconitum x aquilonare*, the hybrid between *A. variegatum* and *A. vitosanum*, is a new taxon for Slovenia. *Aconitum x cammarum* is the most common cultivated *Aconitum* in Slovenia; you can usually see it with blue flowers, but also as cv. Bicolor with blue and white mixed flowers. *Aconitum degenii* subsp. *paniculatum* occurs in Slovenia with both of its two varieties, rarely as var. *laxiflorum* and mostly as var. *turrachense* (MUCHER 1993a). *A. x hebegynum*, the hybrid between *A. degenii* and *A. variegatum*, occurs in the introgression area of its parents in western and southwestern Slovenia. *Aconitum lobelianum* is merely a synonym for *A. napellus* s.str. *Aconitum* subg. *Lycoctonum* sect. *Lycoctonum* can be divided into three subspecies of *A. lycoctonum*. The studies of *A. l.* subsp. *ranunculifolium* must be continued, although there seems to be another name that will have priority in the rank of a species, probably *A. lupicida* Rchb. The hybrids within this aggregate are not yet known for certain. There are three species of *Aco-*

nitum subg. *Aconitum* sect. *Napellus* in Slovenia: *A. napellus* s.str. (and possibly subsp. *lobelii* and nsubsp. *seitzii* in the Kamnik Alps) and *A. tauricum* with its two subspecies *latemarense* and *tauricum*. The latter may be divided into var. *eustachyum* (*Aconitum tauricum* Wulf. subsp. *tauricum* var. *eustachyum* (Rchb.) Starmühler comb. nov.; basionym: *Aconitum eustachyum* Reichenbach 1820, Monogr. Acon.: 96, t. 15, fig. 3) and var. *tauricum* and further into f. *taurericum* and f. *tauricum*. The hybrid between these two species, *A. x teppneri*, can certainly be found as nsubsp. *kernerii*, but nsubsp. *goetzii* and nsubsp. *teppneri* have not been confirmed so far. *Aconitum paniculatum* Lam. as mentioned in MARTINČIČ & SUŠNIK 1969 is only a synonym for the garden plant *A. x cammarum*. *Aconitum tuscheticum* is a plant from the Caucasus that is very rare in Europe and has been found only in Slovenia. The hybrid between the two subspecies of *A. variegatum*, nsubsp. *podobnikianum*, is very frequent in Slovenia and occurs mainly in this country (MUCHER 1993b). *Aconitum vitosanum*, which belongs to the *A. variegatum* agg., is a new species for Slovenia (STARMÜHLER 1996a).

The following plant list would be correct and complete and is recommended by me for the Register of the Flora of Slovenia:

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| ACOANGU | <i>Aconitum angustifolium</i> Bernh. ex Rchb. ; <u>ozkolistna preobjeda</u> , ozkolistni omej. |
| ACOANTH | <i>Aconitum anthora</i> L. ; <u>primorska preobjeda</u> . |
| ACOANTH1 | <i>Aconitum anthora</i> L. subsp. <i>anthora</i> ; <u>primorska preobjeda</u> . |
| * ACOAQUI | <i>Aconitum x aquilonare</i> A.Kerner ex Gáyer SYN.: <i>Aconitum variegatum</i> L. x <i>vitosanum</i> Gáyer ; <u>severna preobjeda</u> . VIR: Starmühler W. 1996a. |
| *© ACOCAMM | <i>Aconitum x cammarum</i> L. emend. Fries SYN.: <i>Aconitum paniculatum</i> Lam. ; <u>vrtna preobjeda</u> . |

- ACODEGE *Aconitum degenii* Gáyér ; latasta preobjeda, latasti omej.
- ACOPANI *Aconitum degenii* Gáyér subsp. *paniculatum* (Arc.)
Mucher SYN.: *Aconitum variegatum* L. subsp.
paniculatum (Arc.) Greuter & Burdet ; latasta
preobjeda, latasti omej.
- ACOLAXI *Aconitum degenii* Gáyér subsp. *paniculatum* (Arc.) Mucher
var. *laxiflorum* (Rchb.) Mucher ; latasta preobjeda,
latasti omej.
- ACOTURR *Aconitum degenii* Gáyér subsp. *paniculatum* (Arc.) Mucher
var. *turrachense* (Mucher) Mucher
- ACOHEBE *Aconitum x hebegynum* DC. SYN.: *Aconitum degenii* Gáyér
x variegatum L.
- syn ACOLOBE *Aconitum lobelianum* (Rchb.) Gáyér SYN.: *Aconitum*
napellus L. emend. Skalick subsp. *napellus* ; repičasta
preobjeda, repasta preobjeda.
- agg ACOLYCO2 *Aconitum lycoctonum* agg. SYN.: *Aconitum vulparia* agg. ;
Aconitum subg. *Lycoctonum* (DC.) Peterm. sect.
Lycoctonum DC.
- ACOLYCO *Aconitum lycoctonum* L. emend. Koelle ;
- * ACOLYCO1 *Aconitum lycoctonum* L. emend. Koelle subsp. *lycoctonum*.
VIR: Starmühler W. 1996a.
- ACORANU *Aconitum lycoctonum* L. emend. Koelle subsp.
ranunculifolium (Rchb.) Schinz & Keller SYN.:
Aconitum ranunculifolium Rchb. ; zlaticna preobjeda,
zlaticnati omej.
- ACOVULP *Aconitum lycoctonum* L. emend. Koelle subsp. *vulparia*
(Rchb. ex Spreng. em. Rchb.) Nyman SYN.: *Aconitum*
vulparia Rchb. ; navadna preobjeda.
- agg ACONAPE2 *Aconitum napellus* agg. SYN.: *Aconitum* subg. *Aconitum*
sect. *Napellus* (Wolf) DC. ; (skupina) repičasta
preobjeda, repasta preobjeda.
- ACONAPE *Aconitum napellus* L. emend. Skalický ; repičasta
preobjeda, repasta preobjeda.
- ACONAPE1 *Aconitum napellus* L. emend. Skalický subsp. *napellus*
SYN.: *Aconitum lobelianum* (Rchb.) Gáyér ; repičasta
preobjeda, repasta preobjeda.
- syn ACOPANIC *Aconitum paniculatum* Lam. SYN.: *Aconitum x cammarum*
L. emend. Fries ; vrtna preobjeda.
- syn ACORANUN *Aconitum ranunculifolium* Rchb. SYN.: *Aconitum*
lycoctonum L. emend. Koelle subsp. *ranunculifolium*
(Rchb.) Schinz & Keller ; zlaticna preobjeda,
zlaticnati omej.
- ACOTAUR *Aconitum tauricum* Wulf. ; turska preobjeda, turski omej.
- ACOHAYE *Aconitum tauricum* Wulf. nsubsp. *hayekianum* (Gáyér)
Grinč. SYN.: *Aconitum tauricum* Wulf. subsp.
latemarense (Degen & Gáyér) Starm. x subsp.
tauricum, *Aconitum tauricum* Wulf. var. *hayekianum*

- (Gáyer) auct. ; Hayekova preobjeda.
- * ACOLATE *Aconitum tauricum* Wulf. subsp. *latemarense* (Degen & Gáyer) Starm. ; latemarska preobjeda.
- ACOTAUR1 *Aconitum tauricum* Wulf. subsp. *tauricum* ; turska preobjeda, turski omej.
- * ACOEUST *Aconitum tauricum* Wulf. subsp. *tauricum* var. *eustachyum* (Rchb.) Starm.
- ACOTAURI *Aconitum tauricum* Wulf. subsp. *tauricum* var. *tauricum* ; turska preobjeda, turski omej.
- ACOTAURE *Aconitum tauricum* Wulf. subsp. *tauricum* var. *tauricum* f. *taurericum* (Rchb.) Gáyer
- ACOTAURIC *Aconitum tauricum* Wulf. subsp. *tauricum* var. *tauricum* f. *tauricum* ; turska preobjeda, turski omej.
- ACOTEPP *Aconitum x teppneri* Mucher ex Starm. SYN.: *Aconitum napellus* L. emend. Skalický x *tauricum* Wulf.; Teppnerjeva preobjeda.
- * ACOKERN *Aconitum x teppneri* Mucher ex Starm. nsubsp. *kernerii* Starm. SYN.: *Aconitum napellus* L. emend. Skalický subsp. *napellus x tauricum* Wulf. subsp. *latemarense* (Degen & Gáyer) Starm. ; kamniškoalpska preobjeda.
VIR: Starmühler W. 1996b.
- ACOTUSC *Aconitum tuscheticum* (N.Busch) Starm. SYN.: *A. degenii* Gáyer x *vitosanum* Gáyer. VIR: Starmühler W. 1996b.
- agg ACOVARIZ *Aconitum variegatum* agg. SYN.: *Aconitum* subg. *Aconitum* sect. *Aconitum* ; (skupina) pisana preobjeda, pisani omej.
- ACOVARI *Aconitum variegatum* L. ; pisana preobjeda, pisani omej.
- ACONASU *Aconitum variegatum* L. subsp. *nasutum* (Fisch. ex Rchb. em. Rupr.) Götz SYN.: *Aconitum nasutum* Fisch. ex Rchb. ; goloplodna preobjeda.
- * ACOPODO *Aconitum variegatum* L. nsubsp. *podobnikianum* Mucher SYN.: *Aconitum variegatum* L. subsp. *nasutum* (Fisch. ex Rchb. em. Rupr.) Götz x subsp. *variegatum*.
- ACOVARI1 *Aconitum variegatum* L. subsp. *variegatum* ; pisana preobjeda, pisani omej.
- ACOVARIE *Aconitum variegatum* L. subsp. *variegatum* var. *variegatum*; pisana preobjeda, pisani omej.
- ACOVITO *Aconitum vitosanum* Gáyer ; vitška preobjeda.
- * ACOVULP2 *Aconitum vulparia* agg. YN.: *Aconitum lycoctonum* agg.; *Aconitum* subg. *Lycotium* (DC.) Peterm. sect. *Lycotium* DC.
- ACOVULPA *Aconitum vulparia* Rchb. YN.: *Aconitum lycoctonum* L. em. Koelle subsp. *vulparia* (Rchb. ex Spreng. em. Rchb.) Nyman; navadna preobjeda.

Following *Aconitum*-taxa probably occur in Slovenia, but have not been sampled yet:

- Aconitum x acuminatum* Rchb. (*A. degenii* x *A. napellus*)
Aconitum x acutum Rchb. (*A. tauricum* x *A. variegatum*)
Aconitum x mielichhoferi Rchb. (*A. degenii* x *A. tauricum*)
Aconitum napellus L. em. Skalický subsp. *lobelii* Mucher
Aconitum napellus L. em. Skalický nsubsp. *seitzii* Mucher ex Starm.
(*A. napellus* subsp. *lobelii* x subsp. *napellus*)
Aconitum x schneebergense Gáyer (*A. napellus* x *A. variegatum*)
Aconitum x teppneri Mucher ex Starm. nsubsp. *goetzii* Mucher ex
Starm. (*A. napellus* subsp. *lobelii* x *A. tauricum* subsp. *tauricum*)
Aconitum x teppneri Mucher ex Starm. nsubsp. *teppneri* (*A. napellus*
subsp. *napellus* x *A. tauricum* subsp. *tauricum*)

3. *Consolida* S.F.Gray

Consolida hispanica is an older synonym and therefore has priority over *C. orientalis* (GREUTER & RAUS 1989). It seems certain that the race the plants in Central-Europe belong to is different to that on the Iberian Peninsula. It can be expected that this species will have to be divided into two different subspecies when the investigations have concluded. In Slovenia, *Consolida regalis* consists of the two subspecies *paniculata* and *regalis*. Both subspecies can be further separated

into two varieties, subsp. *paniculata* into var. *adenopoda* and var. *sparsiflora* (*Consolida regalis* S.F. Gray subsp. *paniculatum* (Host) Soó var. *sparsiflora* (Visiani) Starmühler comb. nov.; basionym: *Delphinium consolida* L. var. *sparsiflora* Visiani 1852, Fl. dalmatica 3: 89) and subsp. *regalis* into var. *glanduligera* (*Consolida regalis* S.F. Gray subsp. *regalis* var. *glanduligera* (Petermann) Starmühler comb. nov.; basionym: *Delphinium consolida* L. var. *glanduligerum* Petermann in Kuntze 1867, Fl. Lips.: 400) and var. *regalis*. Hybrids are not known so far.

My recommendation for the Register of the Flora of Slovenia looks like this:

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| CONAJAC | <i>Consolida ajacis</i> (L.) Schur; <u>vrtni ostrožnik</u> . VIR: Piskernik A. 1951:86; Jogan N, 1993:USP. |
| CONHISP | <i>Consolida hispanica</i> (Costa) Greuter & Burdet SYN: <i>Consolida orientalis</i> (J.Gay) Schröding.; <u>vzhodni ostrožnik</u> . VIR: Jogan N. 1993:USP, Starmühler W. 1996b. |
| syn CONORIEN | <i>Consolida orientalis</i> (J.Gay) Schröding. SYN: <i>Consolida hispanica</i> (Costa) Greuter & Burdet; <u>vzhodni ostrožnik</u> . VIR: Greuter W. & Raus T. 1989. |
| CONREGA | <i>Consolida regalis</i> S.F.Gray ; <u>poljski ostrožnik</u> . |
| CONPANI | <i>Consolida regalis</i> S.F.Gray subsp. <i>paniculata</i> (Host) Soó ; <u>latasti ostrožnik</u> . |
| * CONADEN | <i>Consolida regalis</i> S.F.Gray subsp. <i>paniculata</i> (Host) Soó var. <i>adenopoda</i> (Borbás) Soó. |

- * CONSPAR *Consolida regalis* S.F.Gray subsp. *paniculata* (Host) So6 var. *sparsiflora* (Vis.) Starm. ; SYN.: *Delphinium consolida* L. var. *micranthum* Boissier ; latasti ostrožnik.
- CONREGA1 *Consolida regalis* S.F.Gray subsp. *regalis* ; poljski ostrožnik.
- * CONGLAN *Consolida regalis* S.F.Gray subsp. *regalis* var. *glanduligera* (Peterm.) Starm. SYN.: *Delphinium consolida* L. var. *pubescens* Freyn.
- CONREGAL *Consolida regalis* S.F.Gray subsp. *regalis* var. *regalis* ; poljski ostrožnik.

4. *Delphinium* L.

Delphinium fissum occurs in Slovenia only with its typus-subspecies *fissum*. TRPIN & VREŠ 1995 declare on page 10 that they are simplifying the text by omitting the typus-subspecies if only this one occurs in Slovenia.

The disadvantage of this system is that you never know whether the authors agree with that literature in which *D. fissum* is divided into several subspecies (e.g., JALAS & SUOMINEN 1989) or whether they prefer to treat all these subspecies in the rank of species.

For this reason I would recommend practicing the classification system in the Register of the Flora of Slovenia for single typus-subspecies too, as already proposed by T. WRABER (1995: 37):

- DELFISS *Delphinium fissum* W. & K. ; nacepljenolistni delfinijum, razcepljeni ostrožnik.
- DELFISS1 *Delphinium fissum* W. & K. subsp. *fissum* ; nacepljenolistni delfinijum, razcepljeni ostrožnik, tenkolistni ostrožnik.

5. *Gentiana* L.

Article H.5.1 in the International Code of Botanical Nomenclature (GREUTER & al. 1988) states that the appropriate rank of a nothotaxon is that of the postulated or known parent taxa. Therefore, as stated in Article H.5.2., the rank of the nothotaxon is the lowest of that rank of the postulated or known parent taxon. As explained in Example 2 of this article, this means that a nothotaxon, e.g., *Gentiana x komnensis* can not be in the rank of a species if one of its parents is a subspecies but must be treated as a not-

hospespecies. The oldest name for the hybrid between *G. lutea* and *G. pannonica* is *G. x laengstii* Hausmann (RONNIGER 1899). Even if this hybrid is morphologically different to *G. x montis-benedicti* Harz, both are hybrids between the same two species and only one hybrid-name can exist in the rank of species (see Article H.5.1). Therefore the valid synonym for *G. x montis-benedicti* is *G. x laengstii* nsubsp. *laengstii* (= *G. lutea* subsp. *lutea* x *G. pannonica*). However, *Gentiana lutea* subsp. *lutea* does not occur in Slovenia (WRABER 1986), and therefore this taxon as well as the hybrid *G. x mon-*

tis-benedicti must be deleted from the Register of the Flora of Slovenia. On the other hand, there must exist a hybrid between *G. lutea* L. subsp. *vardjanii* Wraber and *G. pannonica* Scop. although it has not been described yet (information from T. WRABER).

The taxonomy of the Slovene *Gen-*

tiana hybrid between *G. lutea* and *G. pannonica* runs as follows:

Gentiana x laengstii Hausmann nsubsp. *kommensis* (E.Mayer) STARMÜHLER comb. nov. (= *G. lutea* L. subsp. *symphandra* Murbeck x *G. pannonica* Scop.); basionym: *Gentiana x kommensis* E.Mayer 1961: Österr. Bot. Zeitschr. 108: 510.

The change which is necessary in the Register of the Flora of Slovenia looks like this:

- syn GENKOMN *Gentiana x kommensis* E.Mayer SYN.: *G. x laengstii* Hausm. nsubsp. *kommensis* (E.Mayer) Starm. ; komenski svišč. VIR: Mayer E. 1961:507.
- GENLAEN *Gentiana x laengstii* Hausm. SYN.: *Gentiana lutea* L. x *Gentiana pannonica* Scop. ; Laengstov svišč.
- GENKOMNE *Gentiana x laengstii* Hausm. nsubsp. *kommensis* (E.Mayer) Starm. SYN.: *Gentiana lutea* L. subsp. *symphandra* Murb. x *Gentiana pannonica* Scop.; *Gentiana x kommensis* E. Mayer ; komenski svišč.
- [-] GENLAEN1 *Gentiana x laengstii* Hausm. nsubsp. *laengstii* SYN.: *Gentiana lutea* L. subsp. *lutea* *Gentiana pannonica* Scop.; *Gentiana x montis-benedicti* Harz.
- [-] GENLUTE1 *Gentiana lutea* L. subsp. *lutea*; rumeni svišč., rumeni košutnik. VIR: Wraber 1986:346, 1995:36.
- syn [-] GENMONT *Gentiana x montis-benedicti* Harz SYN.: *Gentiana x laengstii* Hausm. nsubsp. *laengstii* ; benediktov svišč. VIR: Starmühler W. 1996.

6. Zusammenfassung

Im Zuge der Bearbeitung der Gattungen *Aconitum*, *Consolida* und *Delphinium* für HEGIS „Illustrierte Flora von Mittel-Europa“ ist auch das Areal des slowenischen Staatsgebietes zu berücksichtigen. Das „Register der Flora von Slowenien“ von TRPIN & VREŠ 1995 ist in Hinsicht auf die Gattungen *Aconitum* und *Consolida* sehr mangelhaft und so war es notwendig, die Systematik und Nomenklatur der slowenischen Vertreter dieser Gattungen dem neuesten Stand der Kenntnis anzupassen. Neue Taxa für die Flora

von Slowenien sind *Aconitum x aquilonare*, *A. tauricum* subsp. *latemarense*, *A. tauricum* subsp. *tauricum* var. *eustachyum*, *A. tuscheticum* und *A. vitosanum*. *Aconitum x cammarum* wird als häufig kultivierter Eisenhut in die Liste aufgenommen. Bei einigen Taxa war es notwendig, neue Namen mit Priorität einzusetzen. *Aconitum lobelianum* wurde durch *A. napellus* subsp. *napellus* und *Consolida orientalis* durch *C. hispanica* ersetzt. *Gentiana lutea* subsp. *lutea* und somit auch die Hybride *G. x montis-benedicti* (Syn. *G. x laengstii* nsubsp. *laengstii*) kommen in Slowenien nicht vor und müssen aus der

Liste gestrichen werden. *Aconitum ranunculifolium* und *A. vulparia* wurden als Unterarten von *A. lycoctonum* gewertet und als drittes Taxon auch eine subsp. *lycoctonum* hinzugefügt. In der Gattung *Aconitum* wurden bei den Aggregaten auch die Gattungsunterabteilungen Subgenus und Sectio in Synonymie angeführt. Neue Kombinationen in dieser Arbeit sind *Aconitum*

tauricum subsp. *tauricum* var. *eustachyum*, *Consolida regalis* subsp. *paniculata* var. *sparsiflora*, *C. regalis* subsp. *regalis* var. *glanduligera* und *Gentiana x laengstii* nsubsp. *komnensis*. Als Empfehlung für die nächste Auflage habe ich die aktualisierte Form des Registers für die vier Gattungen *Aconitum*, *Consolida*, *Delphinium* und *Gentiana* angeführt.

7. Literature

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