

## THE FORMALISED DEFINITION OF THE *PICRIDO HIERACIOIDIS-CIRSIIETUM CANDELABRI* ASSOCIATION

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The paper gives a formalised description of the *Picrido hieraciodis-Cirsietum candelabri* association, a new ruderal syntaxon from Croatia.

**Key words:** *Artemisietea vulgaris*, new association, description, Croatia.

Jasprica, N., Milović, M. & Pandža, M., Formalni opis asocijacije *Picrido hieraciodis-Cirsietum candelabri*. *Nat. Croat.*, Vol. 25, No. 2, 331–332, 2016, Zagreb.

U radu je prikazan formaliziran opis asocijacije *Picrido hieraciodis-Cirsietum candelabri*, novog sintaksona u Hrvatskoj.

**Ključne riječi:** *Artemisietea vulgaris*, nova asocijacija, opis, Hrvatska.

### INTRODUCTION

The *Picrido hieraciodis-Cirsietum candelabri* association was proposed by JASPRICA *et al.* (2015) with an original diagnosis (table 1, holotypus relevé no. 4, *op. cit.*), but in a peer-reviewed online-only journal (Art. 1). Here we perform the formal validation of this association according to ICPN (WEBER *et al.*, 2000).

### NOMENCLATURE

Plant taxa nomenclature follows Flora Croatica Database [<http://hirc.botanic.hr/fcd>; NIKOLIĆ (2015), accessed on August 20, 2015]. Syntaxonomical nomenclature follows BIONDI *et al.* (2014).

### RESULTS AND CONCLUSION

#### Description of the syntaxon

*Picrido hieraciodis-Cirsietum candelabri* Jasprica, Milović & Pandža 2016, *ass. nov. hoc loco*

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Nomenclature type relevé (*holotypus hoc loco designatus*): relevé NJ-CRO 11, Croatia, Dalmatia, Split-Dalmatia County, municipality of Cista Provo, village of Aržano, along the D39 state road; geographic coordinates: X=5660995, Y=4828286 (UTM XJ); altitude: 717 m a.s.l.; slope: 45°; aspect: S; plot: 6 m × 5 m; vascular plant cover: 90%; average vegetation height: 2 m; substrate: shallow calcareous soils; number of taxa: 50; sampled by Nenad Jasprica, Milenko Milović and Marija Pandža on 08-08-2015; sampling scale: 7-grade scale of BRAUN-BLANQUET (1964).

Vascular plants composition: **Char. Ass.:** *Cirsium candelabrum* 4, *Picris hieracioides* 1; ***Dauco carotae-Melilotion albi*:** *Daucus carota* 1, *Melilotus albus* +, *Reseda lutea* +; ***Onopordetalia acanthii, Artemisietea vulgaris*:** *Elymus repens* 2, *Tussilago farfara* +, *Diptotaxis tenuifolia* +, *Haplophyllum pataavinum* +, *Ambrosia artemisiifolia* +, *Silene latifolia* ssp. *alba* r; **Companions:** ***Festuco valesiaca-Brometea erecti*:** *Dorycnium pentaphyllum* 1, *Scabiosa triandra* 1, *Sanguisorba minor* ssp. *muricata* +, *Centaurea spinosociliata* ssp. *cristata* +, *Hypericum perforatum* +, *Medicago lupulina* +, *Asperula aristata* ssp. *scabra* +, *Campanula sibirica* +, *Linum tenuifolium* +, *Carlina vulgaris* +, *Arenaria leptoclados* +, *Satureja montana* +, *Medicago prostrata* +, *Centaurea weldeniana* +, *Bromus erectus* +, *Euphorbia cyparissias* +, *Desmazeria rigida* +, *Centaurea rupestris* r, *Stachys recta* r, *Plantago holosteum* r, *Sedum sexangulare* r, *Lactuca viminea* r; ***Stellarietea mediae*:** *Silene vulgaris* ssp. *angustifolia* +, *Lactuca serriola* +, *Fallopia convolvulus* +, *Bromus sterilis* +, *Geranium purpureum* +, *Atriplex patula* +, *Cirsium arvense* +, *Conyza canadensis* r; ***Quercu-Fagetea sylvaticae*:** *Ulmus minor* juv. +; ***Thlaspietea rotundifolii*:** *Scrophularia canina* 1; ***Trifolio medii-Geranietea sanguinei*:** *Arabis turrita* +, *Cruciata glabra* +; ***Molinio-Arrhenatheretea*:** *Dactylis glomerata* ssp. *glomerata* +, *Plantago altissima* r; ***Galio aparines-Urticetea dioicae*:** *Cruciata laevipes* +; ***Salicetea purpureae*:** *Salix purpurea* +; **Other:** *Koeleria* sp. +.

Ecology: The association occurs in area within sub-Mediterranean climate, along roadsides mostly on freshly filled deposits of construction waste. It occupies intensive-sunny and extremely dry habitats. The stands have optimal development in August when the habitus of the dominant species make them particularly visible. The association is characterized by a clear dominance of hemicryptophytes, and the taxa of South European and Mediterranean origin.

This is a new ruderal association in Croatia. It belongs to the class *Artemisietea vulgaris* Lohmeyer, Preising & Tüxen ex von Rochow 1951, the order *Onopordetalia acanthii* Braun-Blanquet & Tüxen ex Klika in Klika & Hadač 1944 and the alliance *Dauco carotae-Melilotion albi* Görs ex Rostański & Gutte 1971.

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## REFERENCES

- BIONDI, E., BLASI, C., ALLEGREZZA, M., ANZELLOTTI, I., AZZELLA, M. M., CARLI, E. et al., 2014: Plant communities of Italy: The Vegetation Prodrome. *Plant Biosystem* **148**, 728-814.
- BRAUN-BLANQUET, J., 1964: *Pflanzensoziologie. Grundzüge der Vegetationskunde* [Plant sociology. Basic course of Vegetation Science]. 3. New York, USA: Springer-Verlag.
- JASPRICA, N., MILOVIĆ, M. & PANDŽA, M., 2015: *Picrido hieracioidis-Cirsietum candelabri* Jasprica et al. 2015 – a ruderal association new to Croatia. *Glasnik Hrvatskog botaničkog društva* **3(2)**, 4-14.
- NIKOLIĆ, T. (ed.), 2015: *Flora Croatica baza podataka* [Flora Croatica database] (online). Available: <http://hirc.botanic.hr/fcd>. Botanički zavod, Prirodoslovno-matematički fakultet, Sveučilište u Zagrebu. [last accessed August 20, 2015].
- WEBER, H.E., MORAVEC, J. & THEURILLAT, J.P., 2000: International code of phytosociological nomenclature. 3rd edition. *Journal of Vegetation Science* **11**, 739-768.