

Short communication

Nomenclatural remarks to the classification of plant communities along post-fire succession

Ali Kavgacı¹, Urban Šilc², Saime Başaran³, Aleksander Marinšek⁴,
Mehmet Ali Başaran⁵, Petra Košir⁶, Neslihan Balpınar⁷, Münevver Arslan⁸,
Özge Denli¹, Andraž Čarni^{2,9}

Key words: *Pinus brutia*, Turkey, International Code of Phytosociological Nomenclature, typification.

Ključne besede: *Pinus brutia*, Turčija, Mednarodni kodeks fitocenološke nomenklature, tipifikacija.

Abstract

This paper contains the original diagnoses of new syntaxa and typifications of existing names of syntaxa from paper “Classification of plant communities along post-fire succession in *Pinus brutia* stands in southern Antalya (Turkey)” that was published in Turkish Journal of Botany. As journal has only on-line version according to ICPN descriptions are not valid. We described syntaxa: *Eryngio falcati-Securigerion securidacae* all. nova, *Ajugo chiae-Lactucetum serriolae* ass. nova, *Phlomido grandiflorae-Cistetum salvifolii* ass. nova, and *Arbuto andrachnes-Quercetum cocciferae* ass. nova and selected nomenclatural type for *Quercus-Phillyreum mediae* Barbero & Quézel 1976.

Izveček

V članku so zbrani originalni opisi novih sintaksonov in tipifikacija obstoječega imena iz članka “Classification of plant communities along post-fire succession in *Pinus brutia* stands in southern Antalya (Turkey)”, ki je bil objavljen v Turkish Journal of Botany. Ker ima revija samo internetno izdajo so opisi sintaksonov v skladu z Mednarodnim kodeksom fitocenološke nomenklature neveljavni. Opisali smo sintaksone: *Eryngio falcati-Securigerion securidacae* all. nova, *Ajugo chiae-Lactucetum serriolae* ass. nova, *Phlomido grandiflorae-Cistetum salvifolii* ass. nova in *Arbuto andrachnes-Quercetum cocciferae* ass. nova ter izbrali nomenklaturni tip za *Quercus-Phillyreum mediae* Barbero & Quézel 1976.

Received: 12. 6. 2017

Revision received: 19. 6. 2017

Accepted: 19. 6. 2017

- 1 Southwest Anatolia Forest Research Institute, Antalya, Turkey. E-mail: alikavgaci1977@yahoo.com
- 2 Institute of Biology, Scientific Research Centre of the Slovenian Academy of Sciences and Arts, Ljubljana, Slovenia
- 3 Erzurum Forest Regional Directory, Yakutiye, Erzurum, Turkey
- 4 Slovenian Forestry Institute, Ljubljana, Slovenia
- 5 Eastern Anatolia Forestry Research Institute, Erzurum, Turkey
- 6 Gimnazija Kranj, Kranj, Slovenia
- 7 Department of Biology, Faculty of Science, Mehmet Akif Ersoy University, Burdur, Turkey
- 8 Forest Soil and Ecology Research Institute, Eskişehir, Turkey
- 9 University of Nova Gorica, Nova Gorica, Slovenia

Introduction

Recently the article “Classification of plant communities along post-fire succession in *Pinus brutia* stands in southern Antalya (Turkey)” was published in Turkish Journal of Botany (Kavğacı et al. 2017). As the article was published only on-line, the descriptions of new syntaxa are not validly described according to Article 1 of the International Code of Phytosociological Nomenclature (Weber et al. 2000). Therefore we formally describe new syntaxa in this paper.

Methods

Description is done according to International Code of Phytosociological Nomenclature (Weber et al. 2000). Nomenclature of plant species is according to Davis (1965-1985) and Güner (2012).

Results

Eryngio falcati-Securigerion securidacae all. nova hoc loco

Diagnostic species: *Ajuga chamaepitys* ssp. *chia* var. *chia*, *Anagallis arvensis* var. *arvensis*, *Asphodelus aestivus*, *Aster laevis*, *Conyza canadensis*, *Daucus carota*, *Eryngium falcatum*, *Filago eriocephala*, *Fritillaria acmopetala* subsp. *acmopetala*, *Lactuca serriola*, *Phlomis lycia*, *Piptatherum miliaceum* subsp. *thomasii* and *Securigera securidaca*

Holotype – *holotypus* hoc loco: *Ajugo chiae-Lactucetum serriolae* Kavğacı et al. 2017 described in this paper.

Ajugo chiae-Lactucetum serriolae ass. nova

Holotype – *holotypus* hoc loco, Manavgat, 24. 4. 2007, longitude 361626, latitude 4077734, 100 m², altitude 20 m, aspect EEN, inclination 25°. Species (herb layer) *Myrtus communis* ssp. *communis* 2; *Securigera securidaca* 2; *Carex flacca* ssp. *serrulata* 1; *Chrysopogon gryllus* ssp. *gryllus* 1; *Eryngium falcatum* 1; *Galium setaceum* 1; *Trifolium lappaceum* 1; *Ajuga chamaepitys* ssp. *chia* var. *chia* +; *Ajuga orientalis* +; *Arbutus andrachne* +; *Aster laevis* +; *Briza minor* +; *Carthamus lanatus* +; *Catapodium rigidum* ssp. *rigidum* var. *rigidum* +; *Cistus creticus* +; *Clinopodium vulgare* ssp. *vulgare* +; *Conyza canadensis* +; *Cotinus coggryia* +; *Crataegus monogyna* ssp. *monogyna* +; *Crepis reuterana* ssp. *reuterana* +; *Crucianella latifolia* +; *Cynosurus echinatus* +; *Dactylis glomerata* ssp. *hispanica* +; *Daucus carota* +; *Filago eriocephala* +; *Galium aparine* +; *Galium murale* +; *Geranium columbinum* +; *Helianthemum race-*

mosum +; *Hymenocarpus circinnatus* +; *Hyparrhenia hirta* +; *Juncus bufonius* +; *Kickxia elatine* ssp. *crinita* +; *Lactuca serriola* +; *Linum strictum* var. *spicatum* +; *Lithodora hispidula* ssp. *hispidula* +; *Medicago minima* var. *minima* +; *Melilotus indica* +; *Micromeria myrtifolia* +; *Phillyrea latifolia* +; *Phlomis lycia* +; *Pinus brutia* +; *Pistacia terebinthus* ssp. *palaestina* +; *Polygala vulgaris* +; *Psoralea bituminosa* +; *Quercus coccifera* +; *Quercus infectoria* ssp. *boissieri* +; *Rhamnus pichleri* +; *Rumex obtusifolius* ssp. *subalpinus* +; *Ruscus aculeatus* var. *angustifolius* +; *Scorzonera elata* +; *Sherardia arvensis* +; *Sonchus asper* ssp. *glaucescens* +; *Sonchus oleraceus* +; *Trifolium campestre* +; *Trifolium nigrescens* ssp. *petrisavii* +; *Verbascum glomerulosum* +; *Verbascum sinuatum* var. *adenosepalum* +; *Veronica arvensis* +.

Phlomido grandiflorae-Cistetum salvifolii ass. nova

Holotype – *holotypus* hoc loco, Serik, 20. 4. 2007, longitude 331820, latitude 4103144, 100 m², altitude 142 m, aspect SE, inclination 3°. Species (herb layer) *Cistus salvifolius* 3; *Cistus creticus* 2; *Lathyrus aphaca* var. *pseudoaphaca* 2; *Piptatherum miliaceum* ssp. *thomasii* 2; *Carex flacca* ssp. *serrulata* 1; *Phillyrea latifolia* 1; *Phlomis grandiflora* var. *grandiflora* 1; *Pinus brutia* 1; *Quercus coccifera* 1; *Trifolium campestre* 1; *Trifolium hirtum* 1; *Trifolium nigrescens* ssp. *petrisavii* 1; *Aetheorhiza bulbosa* ssp. *microcephala* +; *Anagallis foemina* +; *Arisarum vulgare* ssp. *vulgare* +; *Aristolochia paecilantha* +; *Asparagus acutifolius* +; *Biserrula pelecinus* +; *Catapodium rigidum* ssp. *rigidum* var. *rigidum* +; *Eryngium falcatum* +; *Gagea peduncularis* +; *Inula viscosa* +; *Lactuca serriola* +; *Leontodon tuberosus* +; *Medicago rigidula* var. *rigidula* +; *Melilotus indica* +; *Myrtus communis* ssp. *communis* +; *Onobrychis caput-galli* +; *Ornithopus compressus* +; *Rhamnus pichleri* +; *Scorpiurus muricatus* var. *subvillosus* +; *Smilax aspera* +; *Sonchus asper* ssp. *glaucescens* +; *Stachys cretica* ssp. *anatolica* +; *Stipa bromoides* +; *Thymus cilicicus* +; *Torilis arvensis* ssp. *arvensis* +; *Tragopogon longirostis* var. *longirostis* +; *Trifolium pratense* var. *pratense* +; *Trigonella monspeliaca* +; *Urginea maritima* +; *Urospermum picroides* +; *Verbascum sinuatum* var. *adenosepalum* +.

Querco-Phillyreetum mediae Barbero & Quézel 1976

As the type of the association is not indicated in the publication, we indicate the relevé 6 in a Table 4 on page 15 as lectotype – *lectotypus* hoc loco: tab. 4/6, p. 15 in Barbero & Quézel (1976).

Arbuto andrachnes-Quercetum cocciferae ass. nova

Holotype – *holotypus* hoc loco, Serik, 21. 4. 2007, longitude 331006, latitude 4104685, altitude 160 m, sur-

face 100 m², aspect E, inclination 12°. Species scrub layer *Arbutus andrachne* 2; *Quercus coccifera* 2; *Pinus brutia* 2; *Cotinus coggyria* 1; *Myrtus communis* ssp. *communis* 1; *Phillyrea latifolia* 1; *Pistacia terebinthus* ssp. *palaestina* +; *Quercus infectoria* ssp. *boissieri* +; *Ceratonia siliqua* +; herb layer *Cistus salviifolius* 3; *Cistus creticus* 2; *Cytinus hypocistis* ssp. *kermesinus* 1; *Carex flacca* ssp. *serrulata* 1; *Eryngium falcatum* 1; *Lens ervoides* 1; *Stipa bromoides* 1; *Aetheorhiza bulbosa* ssp. *microcephala* +; *Arisarum vulgare* ssp. *vulgare* +; *Aristolochia paecilantha* +; *Asparagus acutifolius* +; *Crepis reuterana* ssp. *reuterana* +; *Crucianella latifolia* +; *Gladiolus anatolicus* +; *Lathyrus aphaca* var. *pseudoaphaca* +; *Lithodora hispidula* ssp. *hispidula* +; *Ruscus aculeatus* var. *angustifolius* +; *Securigera securidaca* +; *Smilax aspera* +; *Theligionum cynocrambe* +; *Trifolium lappaceum* +; *Urginea maritima* +.

References

- Barbero, M. & Quézel, P. 1976: Les groupements forestiers de Grèce Centro - Méridionale. *Ecologia Mediterranea* 2: 3–86.
- Davis, P.H. 1965-1985: Flora of Turkey and the East Aegean Islands. Vol. 1-9, Edinburgh University Press, Edinburgh.
- Güner, A. (ed.) 2012: Türkiye Bitkileri Listesi. İstanbul, TR: ANG/Nezahat Gökyiğit Botanik Bahçesi (in Turkish).
- Kavgacı, A., Şilc, U., Başaran, S., Marinšek, A., Başaran, M.A., Košir, P., Balpınar, N., Arslan, M., Denli, Ö. & Čarni, A. 2017: Classification of plant communities along post-fire succession in *Pinus brutia* stands in southern Antalya (Turkey). *Turkish Journal of Botany* 41: 299–307.
- Weber, H. E., Moravec, J. & Theurillat, J.P. 2000: International code of phytosociological nomenclature. 3rd edition. *Journal of Vegetation Science* 11: 739–768.