

ASS. *SAXIFRAGO TRIDACTYLITI* – *HORNUNGIETUM* *PETREAE* IZCO 1974 (*TRACHYNION DISTACHYAE*) IN THE VEGETATION OF CROATIA

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This paper gives the floristic composition of a therophytic plant association, developed on the island of Hvar in Croatia, earlier discovered and studied in the region of Madrid by a Spanish botanist, Jesús Izco, under the name of *Saxifraga tridactyliti – Hornungietum petrae*. Although occupying small areas, primarily on old heaps of rejected stone of gravel size covered by leached and decalcified soil, it can nevertheless be considered important since in the vegetation cover of Croatia it contributes to the increase of biological diversity.

Key words: *Saxifraga tridactyliti – Hornungietum petrae*, island of Hvar, vegetation of Croatia

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U radu je prikazan floristički sastav posebne terofitske biljna asocijacije, razvijene na otoku Hvaru u Hrvatskoj, koju je svojevremeno u okolici Madrida otkrio i proučio španjolski botaničar Jesús Izco pod imenom *Saxifraga tridactyliti – Hornungietum petrae*. Iako zauzima malene površine, u prvom redu na starim hrpama odbaćenoga kamenja veličine šljunka, pokrivenih ispranim, dekalificiranim tlom, možemo je smatrati značajnom jer u biljnom pokrovu Hrvatske pridonosi povećanju biološke raznolikosti.

Ključne riječi: *Saxifraga tridactyliti – Hornungietum petrae*, otok Hvar, vegetacija Hrvatske

During plant sociology research on the island of Hvar in the spring 1975, special attention was attracted by relatively small stands of therophytic vegetation developed on heaps of finely broken stone made long ago by terrain clearing to obtain arable lands. On such heaps, a fine, leached and decalcified soil had been formed, covered by a soft turf in the floristic composition of which it was primarily the species *Saxifraga tridactylites* and *Hornungia petraea* that were dominant, with a certain number of mostly annual plants. It was evident right away that this was a special plant association, one hitherto unknown in Croatia. Subsequent analysis of the corresponding phytocoenological literature showed this to be the association *Saxifraga tridactyliti – Hornungietum petrae* which was named by IZCO (1973) and shortly af-

terwards, in the wider area of Madrid in Spain, analyzed syntaxonomically more in detail by the same author (IZCO, 1974, see also RIVAS-MARTINEZ *et al.*, 2001).

One stand on the island of Hvar, directly above the entrance into the tunnel leading to Pitve beach, whose size is about 2 m², has been analyzed floristically in more detail and its floristic composition is shown in column number 1. In column number 2 the total floristic composition of the ass. *Saxifraga tridactyliti – Hornungietum petreae* is shown, on the basis of 15 phytosociological relevés according to the data provided by IZCO (1974).

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SAŽETAK

As. Saxifraga tridactyliti – Hornungietum petreae Izco (*Trachynion distachyae*) u vegetaciji Hrvatske

Trinajstić, I.

Tijekom fitocenoloških istraživanja na otoku Hvaru u proljeće 1975. godine posebnu su pozornost pobudile razmjerno malene sastojine terofitske vegetacije razvijene na davno nagomilanim hrpama sitno lomljenog kamena, nastalim pri dobivanju obradivih površina. Na takvim se je hrpama formiralo fino, isprano i dekalificirano tlo, a njega obrađuje nježna tratina u florističkom sastavu koje su se u prvom redu isticale vrste *Saxifraga tridactylites* i *Hornungia petrea*, uz izvjestan broj pretežito jednogodišnjih biljaka. Odmah je bilo jasno da se tu radi o nekoj posebnoj i dosad u Hrvatskoj nepoznatoj biljnoj zajednici. Naknadnom analizom odgovarajuće fitocenološke literature se je pokazalo da se radi o asocijaciji *Saxifraga tridactyliti – Hornungietum petreae*, koju je prvotno IZCO (1973) samo imenovao a malo kasnije (IZCO, 1974) i pobliže analizirao iz širega područja Madrida u Španjolskoj.

Ass. *Saxifraga tridactyliti* – *Hornungietum petreae* Izco 1974

Nr. of column:	1	2	
Nr. of relevés	1	15	
Nr. of species:	21	56	
Ass.	<i>Hornungia petrea</i>	1.1	14
	<i>Saxifraga tridactylites</i>	3.3	10
	<i>Clypeola jonthlaspi</i>	.	6
	* <i>Arabis pumilla</i>	.	3
All.	<i>Trifolium scabrum</i>	+2	7
	<i>Sedum album</i>	.	11
	* <i>Mercurialis huetii</i>	.	5
	* <i>Velezia rigida</i>	.	5
	<i>Chaenorhinum minus</i>	.	4
	* <i>Paronychia nivea</i>	.	4
	<i>Arabis verna</i>	+	.
	* <i>Galium verticillatum</i>	.	1
	* <i>Bupleurum baldense</i>	.	1
	* <i>Astragalus stella</i>	.	1
Order:	<i>Minuartia hybrida</i>	+	13
	<i>Arenaria leptoclados</i>	+	8
	<i>Centranthus cacitrapa</i>	.	6
	* <i>Catapodium tenellum</i>	.	3
	<i>Scandix australis</i>	.	3
	<i>Euphorbia exigua</i>	.	3
	<i>Valantia muralis</i>	3.3	.
	<i>Phleum echinatum</i>	2.2	.
	<i>Minuartia globulosa</i>	+	.
	<i>Hippocrepis ciliata</i>	.	2
	<i>Plantago afra</i>	.	2
	<i>Micropus erectus</i>	.	1
	<i>Biscutella laevigata!?</i>	.	1
Class:	<i>Scleropoa rigida</i>	+	3
	<i>Galium parisiense</i>	.	10
	<i>Medicago minima</i>	.	9
	<i>Asterolinum linum-stellatum</i>	.	5
	<i>Medicago rigidula</i>	.	4
	<i>Helianthemum salicifolium</i>	.	4
	* <i>Xeranthemum interruptum</i>	.	4
	<i>Leontodon hispidus</i>	.	4
	<i>Minuartia montana</i>	.	4
	<i>Crucianella latifolia</i>	1.1	.
	<i>Crupina vulgaris</i>	.	2
	<i>Galium divaricatum</i>	.	1
	* <i>Polygala monspeliaca</i>	.	1
	<i>Brachypodium distachyum</i>	.	1

Comp.:	<i>Poa bulbosa</i>	+2	13
	<i>Geranium purpureum</i>	1.1	4
	<i>Erophila verna</i>	+	2
	<i>Cerastium pumilum</i>	+	2
	<i>Lagoseris bifida</i>	1.1	.
	<i>Micromeria graeca</i>	+2	.
	<i>Brachypodium retusum</i>	+2	.
	<i>Cerastium glutinosum</i>	+	.
	<i>Aethionema saxatile</i>	+	.
	* <i>Bromus rubens</i>	.	10
	* <i>Thymus vulgaris</i>	.	5
	* <i>Sedum sediforme</i>	.	4
	<i>Alyssum minus</i>	.	4
	* <i>Rumex bucephalophorus</i>	.	4
	<i>Linaria</i> sp.	.	3
	* <i>Silene colorata</i>	.	2
	* <i>Teucrium gnaphaloides</i>	.	1
	* <i>Thymus zygis</i>	.	1
	<i>Erodium cicutarium</i>	.	1
	<i>Filago spathulata</i>	.	1
	<i>Psoralea bituminosa</i>	.	1

Plants marked with an asterisk (*) do not exist in the flora of Croatia.

Syntaxonomy:

Class: **HELIANTHEMETEA GUTTATI** Br.-Bl., Roussine et Nègre 1952

Order: **Trachynietalia distachyae** Rivas-Martinez 1978

Alliance: *Trachynion distachyae* Rivas-Martinez 1978