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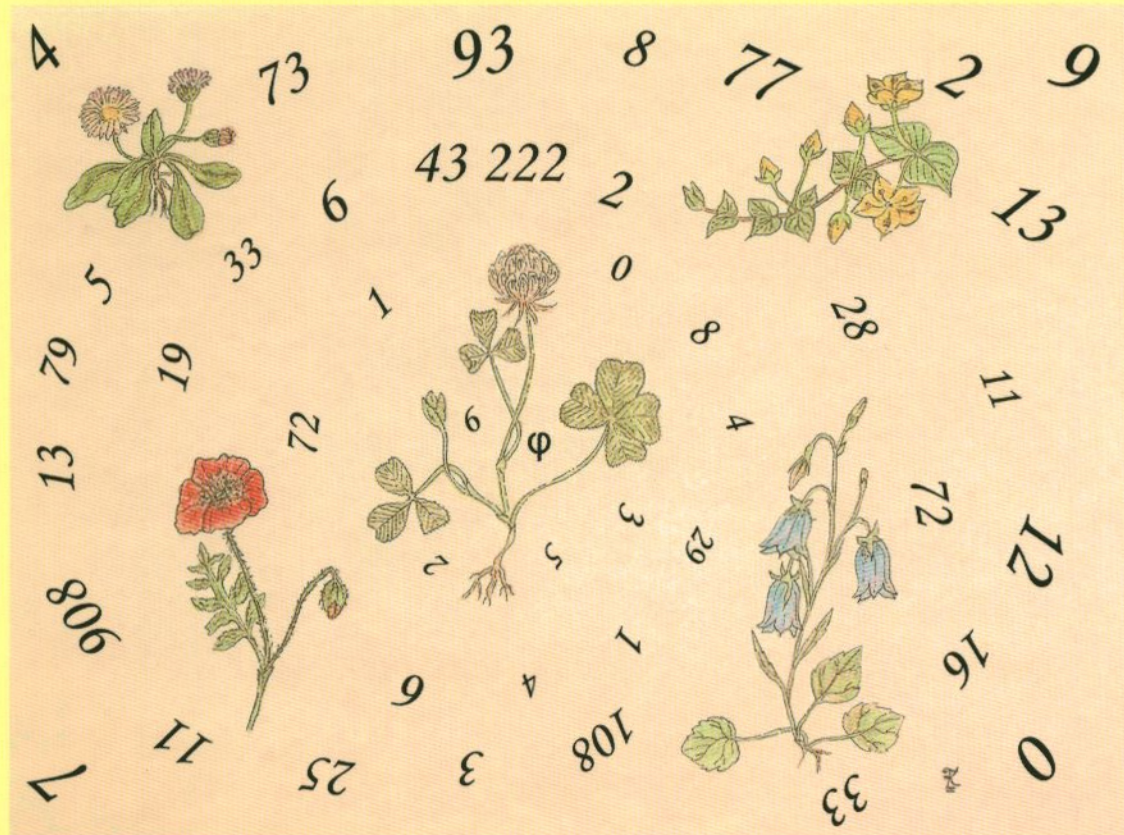
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Diagnostic, constant and dominant species of the higher vegetation units of Slovakia





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Vegetation of Slovakia

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Diagnostic, constant and dominant species of the higher vegetation units of Slovakia

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Abstract: This study is a statistical revision of the phytosociological data stored in the Slovak National Vegetation Database (SNVD). The affinity of vascular plants, bryophytes and lichens for higher syntaxa occurring in Slovakia (alliances and classes) was calculated using a statistically defined coefficient of fidelity. Additionally, constant and dominant taxa of these syntaxa were identified. A revised list of syntaxa of Slovakia is supplemented.

Key words: Braun-Blanquet approach, classification, JUICE, phytosociology, plant communities, sharpness, syntaxonomy, TURBOVEG, uniqueness, vegetation survey

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Vegetation of Slovakia



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Diagnostic, constant and dominant species of the higher vegetation units of Slovakia. Ivan Jarolímek, Jozef Šibík

This study represents the statistical revision of phytosociological data stored in the Slovak national vegetation database SNVD. The affinities of vascular plants, bryophytes and lichens occurring in Slovakia to the major syntaxa (alliances and classes) are calculated using a statistically defined coefficient of fidelity. In addition, constant and dominant taxa of particular syntaxa are identified. A revised list of syntaxa (vegetation units) of Slovakia is also presented.

The evaluation of vegetation units by sharpness and uniqueness criteria allows us to identify well delimited alliances and classes or to point out those, for which delimitation is problematic and which are more difficult to define by statistical principles. The syntaxonomical revision and delimitation of some units with low values of sharpness and uniqueness should be considered in future.

The presented results are important not only for scientists (botanists, zoologists, and ecologists), but also for nature conservation institutions. They represent a valuable and essential source of floristic data on the occurrence of vascular and non-vascular plants in plant communities with specific environmental characteristics.

Predložená štúdia predstavuje štatistickú revíziu dát uložených v slovenskej národnej vegetačnej databáze SNVD. Pomocou štatisticky determinovaného koeficientu fidelity bola stanovená väzba určitých diagnosticky významných taxónov cievnatých rastlín, machorastov a lišajníkov na vyššie syntaxóny zväzy a triedy, vyskytujúce sa na Slovensku. Okrem diagnostických taxónov boli stanovené aj druhy konštantne sa vyskytujúce v jednotlivých vyšších syntaxónoch a druhy dominantné. Súčasťou publikácie je tiež aktuálny zoznam vegetačných jednotiek Slovenska.

Zhodnotenie vegetačných jednotiek pomocou kritérií vyhranenosti a jedinečnosti umožnilo odlišenie lepšie a horšie vymedzených zväzov a tried tu prezentovaného fytocenologického systému a určenie problematicky vymedziteľných jednotiek pomocou štatisticky definovaných pravidiel. Pri niektorých zväzoch a triedach s nízkymi hodnotami vyhranenosti a jedinečnosti by mohla byť zväžená revízia ich vymedzenia a postavenia v syntaxonomickom systéme.

Veríme, že predkladaná práca pomôže fytocenológom pri generovaní syntaxonomických hypotéz a pri následných overovacích štúdiách a zároveň poslúži ako vhodná príručka a porovnávaci etalón pre ostatných botanikov, zoológov, ekológov, pedagógov a študentov na prírodovedne zameraných univerzitách a v ochranárskej a lesníckej praxi.

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