

Short Communication

Distribution of cheilanthoid ferns in Macedonia

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Abstract

Genus *Cheilanthes* Swartz in the Macedonian territory, according to current data, is represented with the two species: *Cheilanthes maranthae* (L.) Domin (Syn.: *Notholaena marantae* (L.) Desv.) and *Cheilanthes persica* (Bory) Mett. ex Kuhn (Syn.: *Cheilanthes szovitsii* Fisch. et Mey.). While researching the genus *Cheilanthes* in Macedonia, a new species of this genus *Cheilanthes sermnovense* Haz., was discovered which represents a new record for Macedonian flora. Total species of *Cheilanthes* Swartz in Macedonia reaches three with the addition of *Cheilanthes sermnovense* Haz. **Copyright © www.acascipub.com, all right reserved.**

Key Words: *Cheilanthes*, *Macedonia*, *Sinopteridaceae*.

Introduction

Cheilanthes Swartz is a genus of about 150 species. These ferns, which are found more frequently on north or west-facing slopes, grow on rock ledges, cliffs, bluffs, canyon walls, talus slopes, in cavities under overhanging rocks, in crevices of boulders. The rigor of these ecological niches would seem to be augmented by the variable edaphic and extreme climatic factors of the environment in which the cheilanthoid ferns grow. Considerable variability of edaphic tolerances exist among the cheilanthoid ferns. Some species are restricted to sedimentary rocks such as limestones or calcareous sandstones, while others occur more frequently on igneous rocks such as basalt or granite.

Results and Discussion

The genus *Cheilanthes* Swartz in Macedonia, according to current data, is represented with the two species: *Cheilanthes maranthae* (L.) Domin (Syn.: *Notholaena marantae* (L.) Desv.) and *Cheilanthes persica* (Bory) Mett. ex Kuhn (Syn.: *Cheilanthes szovitsii* Fisch. et Mey.). While researching the genus *Cheilanthes* in Macedonia, a new species of this genus, *Cheilanthes sermnovense* Haziri (Figure 1.) was discovered which represents a new record for Macedonian flora. Total species of *Cheilanthes* Swartz in Macedonia reaches three with the addition of *Cheilanthes sermnovense* Haz.

Cheilanthes maranthae (L.) Domin (Syn.: *Notholaena marantae* (L.) Desv.), in the Macedonian territory is distributed in: Belasica, Black Mountain of Skopje, Zeden Gorge, Taor Gorge, DemirKapija, Kozuf, Rogacevo, Babuna, village of Rudnik in Tito Veles, village Bogdanci in Gevgelija, and village of Belovodica in Prilep (Micevski, 1985) (Figure 2.).

Cheilanthes persica (Bory) Mett. ex Kuhn (Syn.: *Cheilanthes szovitsii* Fisch. et Mey.), in the Macedonian territory is distributed in: Treska River Gorge, Radika River Gorge (village of Kosovrasti), Babuna Gorge, village of Drenovo in Kavadarci, Vodno, Zeden, village of Velusa in Strumica, Tito Veles and village of Trojaci in Prilep (Micevski 1985) (Figure 2.).

While researching the genus *Cheilanthes* in Macedonia, a new species of this genus, *Cheilanthes sermnovense* Haz., was discovered which represents e new record for Macedonian flora.

Examined specimens: Macedonia: Serbinovo in Suva Gora Mountain: 783 m, 41° 42' N, 20° 58' E, A. Haziri (Figure2.).



Figure 1. *Cheilanthes sermnovense* Haz. (photo by Haziri).

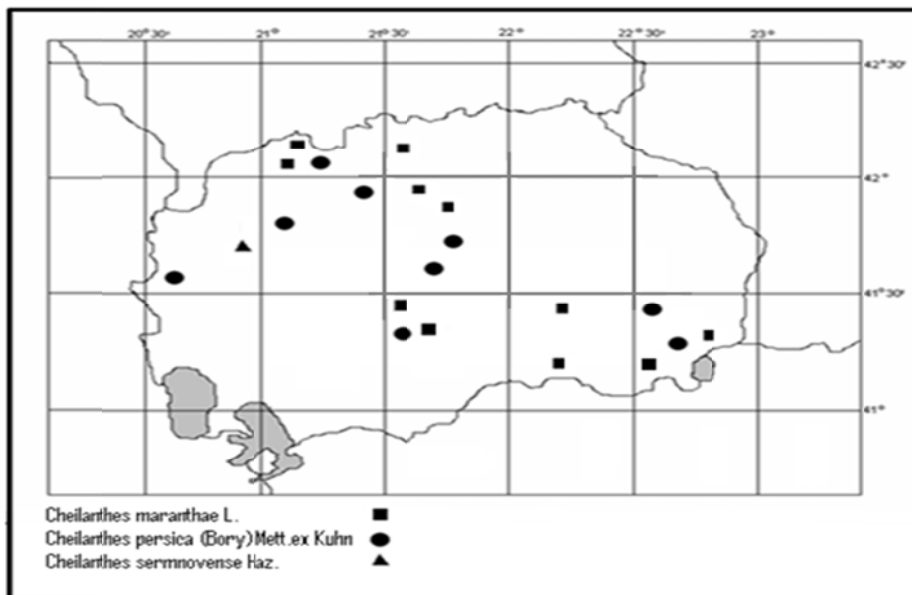


Figure 2. Distribution of cheilanthoid species in Macedonia

Conclusion

Based on what was said above, we can conclude that:

1. From the current knowledge of flora in Macedonia, the genus *Cheilanthes* Swartz, is represented with the two species (Micevski, 1985).
2. While researching the genus *Cheilanthes* Swartz in Macedonia, a new species of this genus *Cheilanthes sermnovense* Haz., was discovered, which represents a new species of Macedonian flora.

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