**HIERACIUM SUDETOTUBULOSUM (ASTERACEAE) REDISCOVERED OUTSIDE THE KARKONOSZE MTS**

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**Abstract.** *Hieracium sudetotubulosum* Szeląg [= *H. tubulosum* (Tausch) Tausch, nom. illeg.], considered to be endemic to the Karkonosze/Krkonoše Mts, has been found on Mt. Szczeliniec Wielki in the Góry Stołowe Mts, SW Poland. This is the easternmost occurrence of the species, disjoined from its continuous geographical range in the Karkonosze Mts by ca 50 km. The occurrence of *H. sudetotubulosum* on Mt. Szczeliniec Wielki was published by Zahn in 1938 but it was overlooked in the modern literature.

**Key words:** Asteraceae, endemic, *Hieracium alpinum* agg., Poland, relict locality, Sudetes

In August 2012, Grzegorz Wójcik collected on Mt. Szczeliniec Wielki (German: Heuscheuer) in the Góry Stołowe Mts, Central Sudetes, SW Poland, a plant from the *Hieracium alpinum* aggregate that was already in the fruiting stage and not amenable to precise determination. To determine its taxon, in June 2013 we both visited the Góry Stołowe Mts and found that the Mt. Szczeliniec Wielki plants represent *H. sudetotubulosum* Szeląg, a high mountain species known to date from the Karkonosze/Krkonoše Mts 50 km distant (Fig. 1). *Hieracium sudetotubulosum* was validated as a new name for the illegitimate name *H. tubulosum* (Tausch) Tausch (Szeląg 2014). The species differs from other Central European species of the *H. alpinum* aggregate by having tubular florets (Fig. 2). Its complete description was given by Chrtek (1997, 2004).

*Hieracium sudetotubulosum* grows on the upper verge of Mt. Szczeliniec Wielki NW cliff (Fig. 2), next to a lookout at 890–900 m a.s.l., where we found ca 90 individuals in flower. We also found a few plants on shaded rocks close to a mountain hut at 910 m a.s.l. The most numerous population, ca 200 plants, was at the foot of the northwest face of the mountain at 850–860 m a.s.l. We estimate the total *H. sudetotubulosum* population from Mt. Szczeliniec Wielki to be 400–500 plants. Most of them occur in less accessible places in crevices of the vertical faces of rocks forming a 40-meter cliff. *Hieracium sudetotubulosum* probably occurs in other parts of Mt. Szczeliniec Wielki as well.

The mountain *Hieracia* of the Sudetes were studied continuously by Czech and German botanists beginning in the early 19th century, and summarized by Zahn in his second monograph.
(Zahn 1938), and by Zlatník (1938, 1939). A new taxonomic revision of Hieracium sect. Alpina (Griseb.) Gremli in the Sudetes was made by Chrtek (1995, 1997). A summation of all these studies was published in Květena České Republiky (Chrtek 2004).


According to Zahn (1938), however, the range of H. tubulosum is much wider and, besides the Karkonosze Mts, reaches Mt. Śnieżnik Kłodzki and the Hrubý Jeseník Mts in the Eastern Sudetes, and even the Tatra Mts in the Western Carpathians. He also mentions the Góry Stołowe Mts and Mt. Iwinka in the Góry Bialskie Mts among its locations.

Chrtek (1997) considers only some of the stations enumerated by Zahn (1938), including the Mt. Śnieżnik Kłodzki plants into H. schustleri (see also Chrtek 1995: 100), while generally regarding as erroneous the information on the occurrence of H. tubulosum in the Hrubý Jeseník Mts and Tatra Mts. It is not clear whether Jindřich Chrtek personally examined the herbarium material from the Tatras and Hrubý Jeseník Mts determined by Zahn as H. tubulosum, as the specimens are not on the list of specimens he examined.

The remaining locations of H. tubulosum cited by Zahn (1938: 154), ‘Heuscheuer’ (Mt. Szczeliniec Wielki in the Góry Stołowe Mts) and ‘Saalwiesen bei Landeck’ (Mt. Iwinka in the Góry Bialskie Mts), were omitted in the revision of the H. alpinum aggregate in the Sudetes by Chrtek (1995, 1997). Our rediscovery of H. sudetotubulosum on Mt. Szczeliniec Wielki casts a new light on Zahn’s statement on its occurrence outside the Karkonosze Mts.

In the Sudetes the high mountain Hieracia are concentrated in the Karkonosze Mts in the Western Sudetes, and in the Hrubý Jeseník Mts and Mt. Śnieżnik Kłodzki in the Eastern Sudetes (Benner

Fig. 2. Flowering Hieracium sudetotubulosum Szeląg on Mt. Szczeliniec Wielki (Photo G. Wójcik 2013).
Mt. Szczeliniec Wielki is the only station of high mountain Hieracium species situated between the Karkonosze Mts and Mt. Śnieżnik Kłodzki. At the same time, it is one of the lowest locations of H. sudetotubulosum, which in the Karkonosze Mts occurs mainly in the subalpine zone. The presence of H. sudetotubulosum on Mt. Szczeliniec Wielki at 850–910 m a.s.l. is possible owing to the specific habitat and microclimatic conditions of the rock cliffs elevated above the surrounding Picea abies forest (Fig. 2).

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References


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