

Lectotypifications of names of *Hieracium* (Asteraceae) based on material from the Swedish provinces Gästrikland, Hälsingland and Medelpad

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Lectotypes are designated for 83 names of species of *Hieracium* sect. *Hieracium*, *H.* sect. *Vulgata* and *H.* sect. *Bifida* described by Swedish authors based on material from the provinces Gästrikland, Hälsingland and Medelpad of central Sweden. Whenever needed, the affinities and taxonomic value of the lectotypified taxa and the taxonomic implications of the lectotypifications are discussed. One new combination — *H. luculentorum* T. Tyler *nom. et stat. nov.* — is proposed to accomplish the taxon previously described as *H. chordosum* var. *luculentum* Johanss.

Key words: *Hieracium*, lectotypification, nomenclature, taxonomy

All species of *Hieracium* sect. *Hieracium*, *H.* sect. *Vulgata* and *H.* sect. *Bifida* known from the provinces Gästrikland, Hälsingland and Medelpad along the east (Baltic) coast of central Sweden have been thoroughly described by Tyler (2008). In the present paper, lectotypes are designated for all names published by Swedish authors based on material from those provinces. A few such names have previously been lectotypified by Sennikov (2003) and are not included here. The taxa described by Zahn (1921–1923), explicitly or presumably based on material distributed in the exsiccata of Hugo Dahlstedt, still remain to lectotypify. However, since the authentic material used by Zahn was probably lost during World War II, typification of these names involves some particular problems and need be the subject of a separate study.

Lectotypifications

H. acrochristum Dahlst. ex Johanss.
(1907b: p. 46)

LECTOTYPE (designated here): 'Mpd. Nedansjö i Stöde s:n 5/7 1906. Leg. K. Johansson.' in S.

H. acuens Johanss. (1907b: p. 30)

LECTOTYPE (designated here): 'Mpd. Attmar, Lindsjö 23/6 1906. Leg. E. Collinder' in S.

H. acuens Johanss. var. ***leptogrammoides*** Johanss. (1909: p. 66)

LECTOTYPE (designated here): 'Mpd. Attmar, Torringen 9/7 1906. Leg. E. Collinder' in S.

This variety differs from the typical form of

the species by darker (blackish) styles and more conspicuous, although still very sparse, stellate hairs along the margins of the phyllaries. However, most probably these differences are only the effects of modifications in a shaded habitat and does thus not merit taxonomic recognition.

H. amblygonium Dahlst. ex Johanss. (1907b: p. 7)

LECTOTYPE (designated here): 'Mpd. Lidens s:n, mot norr vetande nipor 13/7 1906. Leg. K. Johansson' in S.

H. amplificatum Dahlst., in Johanss. (1902: p. 114)

LECTOTYPE (designated here): 'Suecia: Helsingland ad Edsbyn par. Ofvanåker loco aprico, 23/7 1888, leg. A. Magnusson' (ex H. Dahlstedt, Herb. Hierac. Scand. V: 59a) in S.

H. ancisum Johanss. (1920: p. 67)

LECTOTYPE (designated here): 'Gästrikl. Torsåkers s:n, Sälgsjönäs 4/7 1905, leg. ipse' (ex herb. K. Johansson) in S.

H. angulosum Johanss., in Johanss. & Sam. (1924: p. 135)

LECTOTYPE (designated here): 'Hälsingland: Forsa, Näsvisken, 11/7 1909. Leg. K. Johansson' (ex Johansson & Samuelsson, Hierac. Scand. exsiccata 134, with emended printed label) in S.

H. argutulum Johanss. (1907b: p. 11)

LECTOTYPE (designated here): 'Mpd. Ånge, Gammelboda, 10/7 1904. Leg. K. Johansson' in S.

H. arrogans Johanss. (1909: p. 79)

LECTOTYPE (designated here): 'Mpd. Borgsjö, Julåsen 13/8 1907. Leg. E. Collinder' in S.

H. basiserratum Johanss. (1909: p. 99)

LECTOTYPE (designated here): 'Mpd. Sundsvall, norra Stadsberget 27/8 1907. Leg. E. Collinder' in S.

H. bicurvum Johanss. (1907b: p. 13)

LECTOTYPE (designated here): 'Medelpad: Attmar, Lindsjö, 7/7 1906, leg. E. Collinder' in S.

H. cerussatum Johanss. (1907b: p. 27)

LECTOTYPE (designated here): 'Mpd. Lidens s:n, nipor vetande mot norr, 13/7 1906. Leg. K. Johansson' in S.

H. cinereotectum Johanss. (1907b: p. 20)

LECTOTYPE (designated here): 'Suecia: Medelpad in prato silvatico ad Lönnån par. Borgsjö, 2/7 1907, leg. E. Collinder.' (ex H. Dahlstedt, Herb. Hierac. Scand. XXIII: 45) in S.

H. collideri Johanss. (1907b: p. 17)

LECTOTYPE (designated here): 'Suecia: Medelpad in prato silvatico ad Kärfsta par. Stöde, 5/7 1905 et 1/7 1907, leg. E. Collinder' (ex H. Dahlstedt, Herb. Hierac. Scand. XX: 82) in S.

This combination is best regarded as a taxonomic synonym of *H. diminuens* (Norrl.) Norrl., since the difference between these two taxa is only in the shape of the leaves — a character that is highly variable in both taxa and does not suffice to unambiguously separate them.

H. coriarium Johanss. (1909: p. 101)

LECTOTYPE (designated here): 'Mpd. Hafverö s:n, mellan By och Snöberg; 19/9 1907; Leg. C.A. Nordlander' in UPS.

H. dissimile (Lindeb.) Dahlst. var. ***subporrigens*** Dahlst., in Johanss. (1909: p. 98)

LECTOTYPE (designated here): 'Suecia: Helsingland ad Söderhamn locis apertis silvarum, 24/6 1889. Leg. Axel Magnusson' (ex H. Dahlstedt, Hier. Exsiccata II: 53) in S.

This taxon differs from *H. dissimile* s. *stricto* by the smaller capitula with shorter indumentum, the relatively inconspicuous stellate tomentum that is restricted to the basal margins of the phyllaries, and the relatively more numerous glandular hairs on the peduncles. However, *H. dissimile* is a rather variable species with several ± differentiated forms and I do not think var. *subporrigens* have any special position among these. Thus, until the total pattern of variation in the species has been analysed, I prefer to leave var. *subporrigens* without taxonomic recognition.

H. epimelas Johanss. (1909: p. 92)

LECTOTYPE (designated here): 'Mpd. Stöde, Lillström; 3/7 1906. Leg. K. Johansson' in S.

In my opinion, this taxon only constitutes a geographically peripheral population of *H. leptogrammum* Dahlst., and the combination lectotypified here is a later synonym.

H. funerale Johanss. (1914b: p. 13)

Nom. nov. pro H. funereum Johanss. (1907b: p. 4), *non* Jord.

Based on the same type: *H. murorum* ssp. *funerellum* Zahn (1921: p. 289).

LECTOTYPE (designated here): 'Mpd. Stöde, Lillström 3/7 1906. Leg. K. Johansson.' in S.

H. gymnocentrum Dahlst. *ex* Johanss. (1907b: p. 9)

LECTOTYPE (designated here): 'Mpd. Liden, Bodacke 4/7 1900, E. Collinder' in S.

H. hasticum Johanss. (1909: p. 57)

LECTOTYPE (designated here): 'Mpd. Borgsjö, Julåsen 6/7 1907. Leg. E. Collinder' (*ex* herb. K. Johansson) in S.

H. hyperlepidium Johanss. var. ***obscuriceps*** Johanss. (1909: p. 44)

LECTOTYPE (designated here): 'Mpd. Borgsjö, Julåsen 5/7 1907. Leg. E. Collinder' (*ex* herb. K. Johansson) in S. (The name is given as 'var. *obscurius* K. Joh.' on the label written by Johansson, but since no such variety exist in the literature it must be assumed that this is a simple spelling mistake.)

This taxon has slightly fewer hairs in the synflorescence than is normal for *H. hyperlepidium*, but since this appears to be the only difference there is no sound basis for taxonomic recognition.

H. informe (Stenstr.) Dahlst. var. ***favillaceum*** (Dahlst. *ex* Johanss.) Dahlst. *ex* Johanss. (1927: p. 23)

BASIONYM: *H. favillaceum* Dahlst. *ex* Johanss. (1909: p. 56)

LECTOTYPE (designated here): 'Medelpad: Hafverö, Snöberg 20/7 1907, leg. E. Collinder' in S.

This taxon differ from the typical race of *H.*

informe by relatively fewer hairs on peduncles and phyllaries and slightly different leaf-shape, but the two races appear to grade into each other and the leaf-shape is rather variable in this species making it impossible to recognize 'favillaceum' taxonomically. When publishing this combination, Johansson (1927) ascribed it to 'Dahlst. in sched.', indicating that Dahlstedt had actually proposed the combination in some written material. Thus, in this particular case, the ascription may not be interpreted as a simple reference to the author of the basionym (cf. Art. 46 of the ICBN) and Dahlstedt should thus not be omitted as authority.

H. infularium Johanss. (1909: p. 26)

LECTOTYPE (designated here): 'Mpd. Attmar, Lindsjö 25/6 1906, leg. E. Collinder' (*ex* herb. K. Johansson) in S.

H. infumatum Johanss. (1907: p. 34)

LECTOTYPE (designated here): 'Mpd. Alnö, Hörningsholm; 17/7 1904. Leg. Fale Ringius' in S.

H. intercalatum Johanss. (1909: p. 82)

LECTOTYPE (designated here): 'Mpd. Stöde, Ulfsjön 17/7 1907 leg. C.A. Nordlander' (*ex* herb. K. Johansson) in S.

H. jaedrense Johanss. (1907a: p. 3)

LECTOTYPE (designated here): 'Gästrikl. Jädraås, i en stenig björkbacke 24/6 1905. Leg. K. Johansson.' in S.

H. lacerabile Johanss. (1907b: p. 28)

LECTOTYPE (designated here): 'Mpd. Borgsjö, Lönnån 28/6 1904. Leg. E. Collinder' (*ex* herb. K. Johansson) in S.

H. laeticolor (Almq.) Lönnr. var. ***perargutum*** Johanss. (1909: p. 105)

LECTOTYPE (designated here): 'Mpd. Sundsvall, N. Stadsberget 2/7 1909; E. Collinder' (*ex* herb. K. Johansson) in S.

This taxon was included in *H. longimanum* (Norrl.) Dahlst. by Johansson (1927) and it appears only to be an insignificant modification (with slightly different leaf-shape) of that common and widespread species.

H. lingua Dahlst. ex Johanss. (1907b: p. 42)

LECTOTYPE (designated here): 'Mpd. Borgsjö s:n, Erikslunds järnvägsstation, i skugga 8/7 1904. Leg. K. Johansson' in S.

H. linguiforme Dahlst. ex Johanss. (1907b: p. 44)

LECTOTYPE (designated here): 'Medelpad: Stöde, Lillström; 3/7 1906; leg. C.A. Nordlander' in S.

H. longilingua Johanss. (1907b: p. 35)

LECTOTYPE (designated here): 'Mpd, Stöde, Nedansjö; 5/7 1906; Leg. K. Johansson' in S.

H. loriferum Johanss. (1907b: p. 31)

LECTOTYPE (designated here): 'Mpd. Stöde, Lillström; 3/7 1906. Leg. K. Johansson' in S.

H. luculentorum T. Tyler, *nom. et stat. nov.*

Pro *H. chodosum* Johanss. var. *luculentum* Johanss. (1909; *Ark. f. Bot.* 9: p. 55), non *H. luculentum* Omang (1932).

LECTOTYPE (designated here): 'Mpd. Stöde, Edsta 22/6 1908. Leg. C.A. Nordlander' in S.

Even if first described as a variety of *H. chodosum* Johanss., the two taxa are allopatric and morphologically not very similar leaving no doubt that they are best treated as separate species.

H. ludificans Johanss. (1909: p. 10)

LECTOTYPE (designated here): 'Medelpad: Borgsjö, Drakestorp 6/7 1907, leg. E. Collinder' in S.

H. mallophyllum Johanss. (1907b: p. 33)

LECTOTYPE (designated here): 'Mpd, Stöde, Lillström, löfångar 3/7 1906 leg. K. Joh.' in S.

H. marginelliforme Johanss. (1909: p. 50)

LECTOTYPE (designated here): 'Mpd. Borgsjö, Drakestorp 9/7 1904. Leg. E. Collinder' in S.

This combination has long (cf. Johansson 1927) been regarded as a later synonym of *H. subcordigerum* Johanss. (1907b).

H. megalodon Dahlst. ex Johanss. var. ***falcatidens*** Dahlst. ex Johanss. (1907c: p. 30)

LECTOTYPE (designated here): 'Suecia: Helsingland ad Söderhamn in prato solo duriusculo, 24/7 1892. leg. A. Magnusson.' (ex H. Dahlstedt, Herb. Hierac. Scand. IV: 45a) in S.

This taxon is hardly genetically differentiated from *H. megalodon s. stricto*, but is rather a luxuriant modification with unusually well developed characters, and does not merit taxonomic recognition.

H. multiceps (Dahlst.) Dahlst. ex Johanss. (1914b: p. 25)

BASIONYM: *H. constringens* ssp. *multiceps* Dahlst., in Johanss. (1909: p. 109)

Based on the same type: *H. caesium* ssp. *submulticeps* Zahn (1921: p. 450)

LECTOTYPE (designated here): 'Suecia: Herjedalen [sic!] par. Ångersjö in colle aprico prati Åstäkten dicti 17/7 1903, legg. H. Dahlstedt & M. Östman.' (ex H. Dahlstedt, Herb. Hierac. Scand. XIX: 89a) in S.

H. naevifolium Dahlst. ex Johanss. (1909: p. 35)

LECTOTYPE (designated here): 'Mpd. Hafverö s:n., Snöberg 20/7 1907. Leg. E. Collinder' (ex herb. K. Johansson) in S.

H. nordlanderii Johanss. (1907b: p. 23)

LECTOTYPE (designated here): 'Suecia: Medelpad ad Merlo par. Timrå, 15/7 1906, leg. C.A. Nordlander.' (ex H. Dahlstedt, Herb. Hierac. Scand. XX: 84) in S.

H. obtextum Dahlst., in Johanss. (1907c: p. 13)

LECTOTYPE (designated here): 'Herjedalen: Ångersjö in monte Vensjöhammaren loco umbroso in silva mixta (olim deusta postea populeto vel betuleto nunc etiam abiegno) 12/7 1898, leg. M. Östman, coleg. S.J. Enander. Dt det. 1904' in S.

H. obversiforme Johanss. (1907b: p. 26)

LECTOTYPE (designated here): 'Mpd. Borgsjö s:n, Ensillre 11/7 1904. Leg. K. Johansson.' in S.

H. obversum (Johanss.) Johanss. (1909: p. 28)

LECTOTYPE (designated here): 'Suecia: Medelpad in prato silvatico humidiusculo ad Ensillre par. Borgsjö, 11/7 1904, leg. K. Johansson.' (ex H. Dahlstedt, Herb. Hierac. Scand. XXII: 33a) in S.

H. olliceptis Johanss. (1909: p. 70)

LECTOTYPE (designated here): 'Mpd, Njurunda, Galtström, 5/8 1908. Leg E. Collinder' in S.

H. patale Norrl. var. ***limbosum*** Johanss. (1909: p. 21)

LECTOTYPE (designated here): 'Medelpad: Borgsjö, Mon 12/7 1907, leg. E. Collinder' in S.

As far as I understand, the specimens referred to this taxon do not represent a variety of *H. patale* but rather belong to, and are rather typical of, *H. obtextum* Dahlst.

H. pellocranum Johanss. (1907a: p. 14)

LECTOTYPE (designated here): 'Gästrikl. Torsåker s:n, Fors, vägkant öster om banan, 29/6 1904. Leg. K. Johansson.' (ex Johansson & Samuelsson, Hierac. Scand. exsicc. 86, with emended printed label) in S. Fixed to this sheet there is also an undated handwritten label written by Johansson where the taxon is compared with *H. schlegelii* Alm. ex Dahlst.

This taxon was later by its author considered a variety of *H. schlegelii* Alm. ex Dahlst. (e.g. Johansson 1927), but the most diagnostic character of that species — the short but sharp apex of the phyllaries — is lacking in the type material of *H. pellocranum* (as correctly observed by Johansson). However, I can hardly find any difference between this type material (and later collections from the same site) and the widespread *H. diaphanoides* Lindeb. and I suppose it does only represent an insignificant modification of that latter species.

H. platessifolium Johanss. (1907b: p. 25)

LECTOTYPE (designated here): 'Suecia: Medelpad ad viam ferream ad Österström ducentem par. Liden loco umbroso,

11/7 1906, leg. K. Johansson' (ex H. Dahlstedt, Herb. Hierac. Scand. XXII: 27) in S.

This taxon is only known from the type collection consisting of specimens showing characters typical for plants growing at humid and shady sites and the original material may thus be suspected to differ considerably from the normal habitus of the taxon. Johansson (1927) indicated that *H. platessifolium* might be regarded as a later synonym of *H. informe* Norrl. (var. *favillaceum* (Dahlst. ex Johanss.) Dahlst. ex Johanss.), and this is also my view, even though the affinities of the lectotype are difficult to ascertain.

H. platybasis Johanss. (1909: p. 37)

LECTOTYPE (designated here): 'Medelpad: Borgsjö, Mjösjön 13/7 1907, leg. E. Collinder' in S.

H. platylonchum Johanss. (1907a: p. 5)

LECTOTYPE (designated here): 'Gstr. Torsåker s:n, Hofors bruk 30/6 1904. Leg. K. Johansson.' (ex H. Dahlstedt, Herb. Hierac. Scand. XXII: 30, with emended printed label) in S.

H. porrigens (Almq. ex Malme) Dahlst. ssp. ***reclinatiforme*** Dahlst. var. ***subacroleucum*** Dahlst. (1894: p. 63)

LECTOTYPE (designated here): 'Suecia: Helsingland, Söderhamn ad agros, 6/8 1888. Leg. Axel Magnusson.' (ex H. Dahlstedt, Hierac. exs. II: 59) in LD.

This combination has since long been regarded as a synonym for *H. madarodes* Dahlst., and the lectotype definitely belong to that species.

H. praeteneriforme (Almq. ex Dahlst.) Dahlst. (1901: p. 40)

BASEONYM: *H. murorum* ssp. *praeteneriforme* Alm. ex Dahlst. (1891: p. 40)

LECTOTYPE (designated here): 'Suecia: Helsingland ad Söderhamn in marginibus agrorum, 30/6 1889. Leg. Axel Magnusson.' (ex H. Dahlstedt, Hierac. exs. II: 86) in S.

This name is a later taxonomic synonym for *H. adunans* Norrl. (1895).

H. praevarianum Johanss. (1907b: p. 12)

LECTOTYPE (designated here): 'Mpd. Borgsjö, nära kkan, sidländ äng. 13/7 1904. Leg. K. Johansson' in S.

H. proversum Johanss. (1907b: p. 14)

LECTOTYPE (designated here): 'Mpd. Stöde s:n, Nedansjö, i barrskog 7/7 1906. Leg. K. Johansson' in S.

H. psepharum (Dahlst.) Sam. var. ***collucens*** Johanss. (1909: p. 42)

LECTOTYPE (designated here): 'Medelp. Indal, Sunnås juli 1908, leg. E. Collinder' (ex herb. K. Johansson) in S.

This taxon is only known from the lectotype collection (which was eventually refound among unsorted undetermined material of *Hieracium*) and is therefore difficult to evaluate. It differs from typical *H. psepharum* by, for example, more glaucescent foliage and laxer synflorescences with long ± straight branches and long acladium, but from the presently available material alone its taxonomic status cannot be established.

H. pseudoincrassans Johanss. (1907b: p. 5)

LECTOTYPE (designated here): 'Mpd. Torp s:n, ängsbit vid vägen mellan Vissland och Berge 1/7 1904. Leg. K. Johansson' in S.

H. pseudoincrassans Johanss. var. ***politiceps*** Johanss. (1907b: p. 6)

LECTOTYPE (designated here): 'Mpd. Stöde, Lillström 3/7 1906. Leg. K. Johansson.' in S.

This taxon is only known from a series of gatherings from the same site. These differ from *H. pseudoincrassans s. stricto* by the narrowly obtuse, distinctly comate phyllaries and ± undulating leaves with a tendency to become subcordate at the base. The connection between this taxon and *H. pseudoincrassans* is thus far from obvious but its correct status cannot be established on the basis of the presently available material alone.

H. pseudolaeticeps Johanss. (1909: p. 39)

LECTOTYPE (designated here): 'Mpd. Indals s:n, Sunnås 7/7 1908. Leg. E. Collinder' in S.

H. pseudoscioides Johanss. (1907b: p. 8)

LECTOTYPE (designated here): 'Mpd. Ånge by 7/7 1904. Leg. K. Johansson' in S.

H. psilodorum Johanss. (1907a: p. 16)

LECTOTYPE (designated here): 'Gästrikl. Torsåker s:n, öster om stationen, vägkanter, 3/7 1904. Leg. K. Johansson' in S.

H. pulchridens Dahlst. f. ***rhapidophorum*** Johanss. (1909: p. 48)

LECTOTYPE (designated here): 'Mpd. Borgsjö, Dysjön 15/8 1907. Leg E. Collinder' in S.

The lectotype collection, consisting of two specimens with mutually highly different leaf-shape, appears to be the only extant material referable to this taxon. However, the capitula and synflorescence of the lectotype are very similar to that of *H. pulchridens s. stricto* and most probably f. *rhapidophorum* only represents a taxonomically insignificant modification of that species.

H. puricolor Johanss. (1907b: p. 21)

LECTOTYPE (designated here): 'Mpd. Stöde s:n, Lillström 3/7 1906. Leg. K. Johansson & E. Collinder.' in S.

H. reclinatiforme (Dahlst.) Johanss. (1909: p. 89)

BASEONYM: *H. porrigens* ssp. *reclinatiforme* Dahlst. (1894: p. 63)

LECTOTYPE (designated here): 'Suecia: Helsingland, Söderhamn in monte Åsberget et locis adjacentibus arenosis, 5/7 1889. Leg. Axel Magnusson.' (ex H. Dahlstedt, Hierac. exsiccata II: 57) in S.

H. respondens Johanss. (1909: p. 66)

LECTOTYPE (designated here): 'Medelpad: Stöde, Nedansjö 6/7 1907, leg. C.A. Nordlander. det. K. Johansson.' in S.

H. sarissatum Johanss. (1907a: p. 7)

LECTOTYPE (designated here): 'Gästrikl. Torsåker s:n., björkbacke nära stationen 3/7 1904. Leg. K. Johansson.' in S.

H. schlegelii Almq. ex Dahlst., in Johanss. (1902: p. 86).

LECTOTYPE (designated here): 'Suecia: Helsingland ad Kär-

böle in prato graminoso solo lapidoso, 25/7 1895, legg ipse & S.J. Enander' (*ex* H. Dahlstedt, Herb. Hierac. Scand. X: 64) in S.

H. sillrense Johanss. (1909: p. 85)

LECTOTYPE (designated here): 'Mpd. Borgsjö s:n, Sillre nedanför gamla bron, 25/7 1907. Leg. C.A. Nordlander' in S.

H. solanum Johanss. (1907a: p. 8)

LECTOTYPE (designated here): 'Gstr. Torsåker s:n, Pålsbo, vägkant 1/7 1904. Leg. K. Johansson.' (*ex* H. Dahlstedt, Herb. Hierac. Scand. XXII: 31, with emended printed label) in S.

H. soleifolium Johanss. (1909: p. 32)

LECTOTYPE (designated here): 'Mpd. Lidens s:n, Stockholm 15/7 1906. Leg. K. Johansson' in S.

H. soleifolium Johanss. var. ***julasense*** Johanss. (1909: p. 33)

LECTOTYPE (designated here): 'Medelpad: Borgsjö, Juläsen 13/8 1907, leg. C.A. Nordlander. det. K. Johansson' in S.

This taxon is only known from the type collection. It is apparently not closely related to *H. soleifolium s. stricto* but is very similar to, and most probably conspecific with, *H. stenolomum* (Dahlst. *ex* Zahn) Dahlst.

H. stenstroemii Dahlst. var. ***subincrassans*** (Dahlst.) Johanss. (1927: p. 47)

BAIONYM: *H. subincrassans* Dahlst., in Johanss. (1909: p. 14)

LECTOTYPE (designated here): 'Suecia: Herjedalen in betulo loco aperto et subumbroso ad Halla par. Ångersjö. 26/7 1904, legg. H. Dahlstedt & M. Östman' (*ex* H. Dahlstedt, Herb. Hierac. Scand. XVII: 57) in S.

This taxon is geographically largely allopatric with the more southernly distributed typical race of *H. stenstroemii* but is morphologically only weakly differentiated. In many cases the two races are quite impossible to tell apart and it is doubtful whether it is of any use to give them taxonomic recognition.

H. stilbocephalum Johanss. (1907b: p. 22)

LECTOTYPE (designated here): 'Medelp.: Stöde s:n, Kärfsta 8.7.1908; C.A. Nordlander.' in S.

H. storliense Norrl. var. ***pseudostorliense*** (Johanss.) Johanss., in Johanss. & Sam. (1923: p. 66)

BAIONYM: *H. pseudostorliense* Johanss. (1909: p. 72)

LECTOTYPE (designated here): 'Mpd, Stöde, Kärfsta, /7 1907. Leg. C.A. Nordlander' in S.

The lectotype belongs to a relatively widespread race which differs from the more narrowly distributed typical race of *H. storliense* by slightly more obtuse phyllaries with sparser stellate tomentum. However, the two races appear to grade into each other and it is questionable if they merit taxonomic recognition.

H. subacuens Johanss. (1909: p. 12)

LECTOTYPE (designated here): 'Mpd. Borgsjö, Drakestorp 5/7 1907, leg. E. Collinder' in S.

H. sublacerifolium Johanss. (1909: p. 28)

LECTOTYPE (designated here): 'Mpd. Borgsjö, Snöskallen 9/8 1904; leg. E. Collinder' in S.

This taxon is only weakly differentiated from the widespread *H. triangulare* (Almq.) Norrl. (1888) and is probably best regarded as conspecific with it.

H. sublaeticeps Dahlst. *ex* Johanss. (1907b: p. 39)

LECTOTYPE (designated here): 'Mpd. Borgsjö. 13/7 1904. Leg. K. Johansson.' in S.

H. subsparisidens Johanss. (1907b: p. 19)

LECTOTYPE (designated here): 'Medelp. Erikslunds station 8/7 1904 leg. ipse' (*ex* herb. K. Johansson) in S.

H. taeniifolium Johanss. (1914a: p. 85)

LECTOTYPE (designated here): 'Hälsingl. Bjuråkers s:n, Hedvigsfors bruk 11/7 1911. Leg. K. Johansson.' in S.

H. tenericaulescens Johanss. (1927: p. 92)

H. tenericaule Dahlst. *nom. nud.* (Herb. Hierac. Scand. XV: 73)

LECTOTYPE (designated here): 'Suecia: Herjedalen loco

aperto macro ad Brötesbäcken par. Ängersjö, 11/7 1898, leg. M. Östman' (ex. H. Dahlstedt, Herb. Hierac. Scand. XV: 73) in S.

This taxon is only known from the type collection (with several duplicates in different herbaria) consisting of numerous but very meagre monocephalous specimens that are very difficult to interpret. I have decided to provisionally treat *H. tenericaulescens* as a later synonym of *H. madarodes* Dahlst., but until more material referable to the former becomes available for study the status of *H. tenericaulescens* cannot be ascertained.

***H. tenuans* (Johanss.) Johanss. (1914a: p. 75)**

BAISIONYM: *H. glandulosissimum* var. *tenuans* Johanss. (1909: p. 24)

LECTOTYPE (designated here): 'Medelpad: Attmar, Lindsjö 23/6 1907, leg. E. Collinder.' in S.

This taxon was included in *H. edselense* Johanss. by Johansson (1927) and the lectotype was re-identified by him in 1926 (*in schedis*).

***H. triangulariforme* Johanss. (1907b: p. 15)**

LECTOTYPE (designated here): 'Mpd. Attmar, Lucksta 7/7 1906. Leg. E. Collinder' in S.

***H. varianiceps* Johanss. (1907b: p. 38)**

LECTOTYPE (designated here): 'Mpd. Stöde, löfäng ofvanför stationen 1/7 1906 leg K. Joh.' in S.

As later recognised by its author (e.g. Johansson 1927), this taxon is hardly more than a variety or modification of the simultaneously described and co-occurring *H. varianum*.

***H. varianum* Johanss. (1907b: p. 36)**

LECTOTYPE (designated here): 'Mpd. Stöde backar 1/7 1906. leg. K. Johansson' in S.

***H. volutiferum* Johanss. (1909: p. 74)**

LECTOTYPE (designated here): 'Suecia: Medelpad in colle silvatico lapidoso ad Kärfsta par. Stöde, 3/8 1908. leg. C.A. Nordlander' (ex H. Dahlstedt, Herb. Hierac. Scand. XXIV: 85) in S.

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