

Lectotypification of names of *Hieracium* (Asteraceae) described from the Swedish province of Värmland

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Forty-one names of species and varieties of *Hieracium* sect. *Hieracium*, *H.* sect. *Vulgata* and *H.* sect. *Bifida* originally described from the province of Värmland, western central Sweden, are lectotypified.

Key words: *Hieracium*, nomenclature, Sweden, Värmland

Tyler (2006) provides a critical treatment and descriptions of all species of *Hieracium* sect. *Hieracium*, *H.* sect. *Vulgata* and *H.* sect. *Bifida* known from the Swedish province of Värmland. Thanks mainly to the pioneering work of Stenström (1889) and the treatment by Folin (1936) of the extensive material collected by H. E. Johansson, a considerable number of both more widespread and relatively local species of *Hieracium* have been described from this province.

Some of the names concerned have previously been lectotypified by Tyler (2000). Lectotypes for the remaining 41 names of taxa within the groups concerned and originally described based on material from Värmland are selected below.

H. abrupticuspis Folin (1936: p. 33)

LECTOTYPE: “Värml. Östmark sn. Sätra (= gården ≈ midt emellan Ängarna o. Hallen) Ö invid stugan riklig 7/7 1929 H.E. Johansson” (S, accession S-VR-12382).

H. acidodontum Dahlst. in Johanss. (1902: p. 80)

LECTOTYPE: “Vrml. Filipstad 28/7 1897 leg. K. Johansson” (S, accession S-VR-12692).

H. acidotum Dahlst. (1892: exs. I: 18–20 index)

Nom. nov. pro H. macrolepis Kindb. (1877: p. 284), *non* Boiss. (1867). — LECTOTYPE: “Carlstad, Svinbäcksberget /6 1856 N.C. Kindberg, först funnen 1853” (S, accession S-VM-11065).

The lectotype is the only original material of *H. macrolepis* found in S, LD and UPS. However, as evident from the shape of the leaves and the absence of dark papillae on the styles, this material does not belong to *H. acidotum* in the sense of later Scandinavian authors but rather to *H. urticaefrons* (Dahlst.) Dahlst. (1900). Fixed to the lectotype sheet is an undated and unsigned label in Karl Johansson’s hand: “= *H. acidotum* Dt (Egendomlig bladform på detta exemplar

[Strange leaf-shape on this specimen])” indicating that he also doubted the identification with *H. acidotum* as then circumscribed. In fact, *H. acidotum* in the current sense has never been collected in the province of Värmland whereas there are multiple later gatherings of *H. urticaefrons* from the locality of the lectotype. Thus, *H. urticaefrons* has to be regarded as a later synonym of *H. acidotum* and the application of that latter name has to be changed. The need for a new name and description of the species hitherto referred to as *H. acidotum* will be fulfilled elsewhere (T. Tyler unpubl. data).

H. ampicentrum Johanss. & Sam. (1924: p. 142)

LECTOTYPE: “Värmland, Gräsmarks sn. Sandnäs, äng nedanför Getkärnslätten, 8/7 1909. leg. P.A. Larsson” (S, accession S-VR-12782).

H. ampliceps (Stenstr.) Johanss. (1927: p. 54)

BASIONYM: *H. murorum* ssp. *ampliceps* Stenstr. (1889: p. 39). — LECTOTYPE: “Vrml. Borgvik, 23/6 1885 leg. K.O.E. Stenström” (S, accession S-VR-12788).

The original material (including the lectotype) consist of far from ideally developed specimens and is thus difficult to interpret. This was apparently also the view of Johansson who stated “*Species haud satis cognita*” in his check-list of Swedish *Hieracia* (1927) and the name has only rarely been used. I have decided to treat this name as a synonym of *H. tricheliceps* Johanss. since the lectotype most closely resembles the type of *H. ferrimontanum* (Johanss.) Johanss. (which I, in turn, consider insufficiently differentiated from *H. tricheliceps*; Tyler 2006) but it is still possible that the lectotype of *H. ampliceps* do represent a distinct, but then probably very rare and locally distributed species. I have also considered the possibility that this lectotype represent highly modified specimens of *H. plumbeum* Fr. Individuals of *H. plumbeum* may, when growing in deep shade, sometimes become similar to the lectotype here concerned, but since *H. plumbeum* is not known to occur in this region I consider this possibility less likely.

H. angulatum (Stenstr.) Dahlst. (1899: exs. XI: 85), *non* Brenner (1897)

BASIONYM: *H. murorum* ssp. *angulatum* Stenstr. (1889: p. 59). — LECTOTYPE: “Vrml.: Gillberga sn., Gårdsjö, S Ö. Torsrud 11.7.1885” (S, accession S-VR-12836).

The specific combination is a later homonym unavailable for use. However, presently I consider this taxon insufficiently differentiated from *H. pristophyllum* Johanss. (Tyler 2006) which then provides a valid name for the species.

H. aseum Johanss. & Sam. (1924: p. 136)

LECTOTYPE: “Vrml. Nyed: Molkom 18/6 1921. K. Johansson” (ex Johansson & Samuelsson, Hierac. scand. exsiccata 137, with emended printed label) (S, accession S-VR-11110).

H. celsum Johanss. & Sam. *in* Johanss. (1929: p. 329)

LECTOTYPE: “Vrml, Töcksmark: Töcksfors, in fossa glareosa, 2/7 1924. Leg. K. Johansson” (ex Johansson & Samuelsson, Hierac. scand. exsiccata 411, with emended printed label) (S, accession S-VR-12950).

According to my judgement (Tyler 2006) this taxon is insufficiently differentiated from, and ought to be regarded as a synonym for, *H. tricheliceps* Johanss.

H. ceramotum (Stenstr.) Dahlst. (1899: exs. XI: 78)

BASIONYM: *H. murorum* ssp. *ceramotum* Stenstr. (1889: p. 52). — LECTOTYPE: “Suecia: Värmland ad Kodråga paroeciæ Värmerud, 13/7 1888. Leg. K.O.E. Stenström” (ex Dahlstedt, Hierac. exsiccata II: 82) (S, accession S-VR-12958).

H. christianense (Dahlst. *ex* Stenstr.) Johanss. & Sam. (1923–26: exs. 17)

BASIONYM: *H. silvaticum* ssp. *christianense* Dahlst. *ex* Stenstr. (1889: p. 11). — LECTOTYPE: “Värmland, Gillberga socken, Esketan, 9/7 1885, K.O.E. Stenström.” (S, accession S-VR-11233).

Johansson (1927) was the first to recognize that *H. caesitium* (Norrl.) Brenner was connected to *H. christianense* by a series of intermediate

forms and he recombined the former as a *forma* of the latter species. However, *H. caesitium* (Norrl.) Brenner (1892) is the oldest specific name and should have priority. Whether or not a formal infraspecific name is needed for “*christianense*” will be the topic of future studies.

H. cuneolatum (Stenstr.) Dahlst. (1899: exs. XI: 84)

BASIONYM: *H. murorum* ssp. *cuneolatum* Stenstr. (1889: p. 40). — LECTOTYPE: “Värmland, Gillberga socken, Gårdsjö, Björkåsen. 8/7 1885. K.O.E. Stenström.” (S, accession S-VR-13043).

H. densecomosum Folin (1936: p. 16)

LECTOTYPE: “Värml. Östmark sn. Bäckarna, i kärräng S om gården, täml. riklig, 1/7 1929, H.E. Johansson” (S, accession S-VR-11355).

H. didymiceps Folin (1936: p. 30)

LECTOTYPE: “Värml. Östmark sn. i Rännebergets ostbrant ofvanför Kornbråten, täml. riklig, 17/7 1929, H.E. Johansson” (S, accession S-VR-11367).

H. distinctum (Stenstr.) Dahlst. (1895: exs. IX: 46)

BASIONYM: *H. silvaticum* ssp. *distinctum* Stenstr. (1889: p. 30). — LECTOTYPE: “Värmland, Borgviks socken, Blankåsen. 28/6 1888. K.O.E. Stenström.” (S, accession S-VR-11372).

H. farinaceum (Stenstr.) Dahlst. (1895: exs. IX: 44)

BASIONYM: *H. silvaticum* ssp. *farinaceum* Stenstr. (1889: p. 33). — LECTOTYPE: “Värmland, Borgviks socken, Löfåsen, i glesa löfhag. 25/6 1885. K.O.E. Stenström.” (S, accession S-VR-11452).

H. grophosiceps Johanss. *in* Folin (1936: p. 48)

LECTOTYPE: “Värml. Stafnäs s:n, vid norra sidan af St. Lesjön, på klippor med Ljung, 26/6 1899, leg. K. Johansson” (with additional labels with diagnoses in Johansson’s hand) (S, accession S-VR-13415).

H. macrocoelium Johanss. (1929: p. 331)

LECTOTYPE: “Värml. Ned. Ullerud sn. Smårisbergets SV-sluttning ca. 700 m ONO om Dömle, i granskog på hyperit;

ganska riklig, 15/7 1927, H.E. Johansson” (S, accession S-VR-11615).

H. marginellum (Dahlst. *ex* Stenstr.) Dahlst. var. ***nudisquameum*** Folin (1936: p. 27)

LECTOTYPE: “Värml. Öfre Ullerud sn. Kullbergets sydsluttning ca. 700 m ONO fr. gården Ängsbråten, ett frodigt bestånd, 8/7 1928, H.E. Johansson” (S, accession S-VR-11679).

The four extant specimens of this variety (all from the type locality) consistently differ from the normal race of the species by having only very sparse stellate hairs along the margins of the phyllaries and no apical coma. However, in all other respects they appear to be identical with typical *H. marginellum* and most probably var. *nudisquameum* is only a very local aberrant form not meriting taxonomic recognition.

H. minimidens Folin (1936: p. 35)

LECTOTYPE: “Värml. Östmark sn. Kristianssätern (= gården 600 m N om Gurudssätern), ett litet bestånd SO invid gården, 7/7 1929, H.E. Johansson” (S, accession S-VR-11720).

H. molybdinum (Stenstr.) Dahlst. (1892: exs. I: 100)

BASIONYM: *H. silvaticum* ssp. *molybdinum* Stenstr. (1889: p. 16). — LECTOTYPE: “Wärmland, Gillberga Socken, Gårdsjö. III & IV at præsertim, 29/6 1885, K.O.E. Stenström” (S, accession S-VR-11726).

H. nigricanticeps (Stenstr.) Dahlst. (1896: exs. X: 26)

BASIONYM: *H. silvaticum* ssp. *nigricanticeps* Stenstr. (1889: p. 27). — LECTOTYPE: “Värmland, Borgviks socken, Borgviks bruk och [?] Blankåsen, 28/6 1888, K.O.E. Stenström” the right specimen on the sheet (S, accession S-VR-11763).

H. oblanceolatum Folin (1936: p. 28)

LECTOTYPE: “Värml. Östmark sn. ≈ 700 m Ö om Ömmestorp i ängsmark SV invid nya vägen till Arnsjön ett litet bestånd, 11/7 1929, H.E. Johansson” (S, accession S-VR-11775).

H. obovatifrons Folin (1936: p. 17)

LECTOTYPE: “Värml. Östmark sn. Ruskåsen, ett rikligt bestånd NV ofvanför gården, 7/7 1929, H.E. Johansson” (S, accession S-VR-13612).

H. obrigens Johanss. & Sam. (1924: p. 147).

LECTOTYPE: "Vrml. Nordmarkshyttan 30/6 1921, K. Johansson" (*ex* Johansson & Samuelsson, Hierac. scand. exsiccata 266, with emended printed label) (S, accession S-VR-13617).

H. opeatodontum (Stenstr.) Dahlst. (1895: exs. IX: 39)

BASIONYM: *H. silvaticum* ssp. *opeatodontum* Stenstr. (1889: p. 20). — LECTOTYPE: "Wermland, Borgviks skn. Stutskogen. 1/7 1885. K.O.E. Stenström" (S, accession S-VR-11824).

H. persbergense Johanss. (1905: p. 114)

LECTOTYPE: "Verml. Persbergs gruffält 25/6 1897 Leg. K. Johansson" (S, accession S-VR-13706).

This species is hardly different from *H. oblaqueatum* Johans. (1900) and the name lectotypified here ought to be regarded as a later synonym.

H. phaeodermum Johanss. & Sam. *in* Johanss. (1926: p. 336)

LECTOTYPE: "Vrml. Eda: Åmotsfors, vid stationen, på vägkant och åkerren, 11/7 1924. K. Johansson" (*ex* Johansson & Samuelsson, Hierac. scand. exsiccata 483, with emended printed label) (S, accession S-VR-13712).

H. pholidotum (Stenstr.) Dahlst. (1903: exs. XV: 77)

BASIONYM: *H. murorum* ssp. *pholidotum* Stenstr. (1889: p. 46), *nom et stat. nov. pro H. cuspidatum* Lindeb. (1878: exs. 135), *non* Jord. — LECTOTYPE: "Norveg. med. occidental. in rupib. litoral. a Christiansund ad Throndhjem. Christiansund fine Julii Ipse et Joh. Lossius." *Ex* Lindeberg, Hierac. Scand. Exsiccata 135, preserved separately in LD.

The original material of *H. cuspidatum* Lindeb. differs considerably in habit from material referred to *H. pholidotum* by Swedish authors. This is possibly due to modification of the original material collected on exposed rocks by the sea. Indeed, the microcharacters of the capitula and indument are quite similar to the Swedish form. However, with the limited experience I have of the variation of this species in Norway I do not dare to say whether or not the lectotype is conspecific with the material from Sweden (e.g. Värmland).

H. pilulicuspis Folin (1936: p. 14)

LECTOTYPE: "Vrml. Kullarna 26/6 1932 Th. Folin" (S, accession S-VR-11981).

H. radiodens Folin (1936: p. 21)

LECTOTYPE: "Värml. Östmark sn. i Höjdbergets nordbrant NO om Käppanstorp, ett storvuxet bestånd 12/7 1929 H.E. Johansson" (S, accession S-VR-12016).

H. rhomboides (Stenstr.) Johanss. (1927: p. 85)

BASIONYM: *H. murorum* ssp. *alpestre* var. *rhombiodes* Stenstr. (1889: p. 38). — LECTOTYPE: "Värmland, Gillberga socken, Gårdsjö, Björkåsen. 7/7 1885. K.O.E. Stenström." (S, accession S-VR-13905).

H. separ Johanss. (1927: p. 86)

Descr. orig. Stenstr. (1889: p. 50) *pro* '*H. murorum* ssp. *irriguum* Fr.' — LECTOTYPE: "Verml.: Gillberga sn. Gårdsjö norrut. 3/7 1885, K.O.E. Stenström." (S, accession S-VR-13964).

H. serratoellipticum Folin (1936: p. 24)

LECTOTYPE: "Värml. Östmark sn. Berg, S invid den v:a gården, (i SÖ:a kanten af Rännebergsryggen) ett frodigt bestånd. 14/7 11929 H.E. Johansson" (S, accession S-VR-12165).

H. siliginosum (Stenstr.) Dahlst. (1900: exs. XII: 44)

BASIONYM: *H. silvaticum* ssp. *siliginosum* Stenstr. (1889: p. 20). — LECTOTYPE: "Värmland, Borgviks socken, Sparnäs 28/6 1888. K.O.E. Stenström." (S, accession S-VR-12173).

H. sphenophyllum Dahlst. (1921: p. 15)

LECTOTYPE: "Vermland, Gräsmarks sn., Sandnäs, äng nedanför Getkärnsskläppen, 8/7 1909. leg. P.A. Larsson." (S, accession S-VR-12240).

H. stenstroemii Dahlst. (1892: exs. I: 33–35, index)

Descr. orig. Stenstr. (1889: p. 32) *pro* '*H. silvaticum* ssp. *pellucidum* f.' — LECTOTYPE: "*Hieracium* **pellucidum* (Laest.) Almqu. forma 4 m. Värmland, Borgviks socken, Torsrudsgårdet, norr om Blankåsen, efter gårdsgården mot skogen i spridda ex. 22/6 1885. K.O.E. Stenström. — *H. Stenstroemii* Dt., determ. H. Dahlstedt" (S, accession S-VR-12240).

The previously published lectotype (Tyler 2000) of this name can not stand since the reference to Stenström (1889) in Dahlstedt (1892) was then overlooked and the authorship and validating diagnosis thus misinterpreted.

H. striaticeps (Dahlst. ex Stenstr.) Dahlst. (1899: exs. XI: 55)

BAISIONYM: *H. murorum* ssp. *striaticeps* Dahlst. ex Stenstr. (1889: p. 56). — LECTOTYPE: “Värml.: Borgviks sn., Löfåsen 6/7 1885 K.O.E. Stenström.” (S, accession S-VR-14063).

This taxon is currently regarded as conspecific with *H. acroleucum* (Stenstr.) Dahlst. (1892) and the name here concerned ought to be considered a later synonym (cf. Tyler 2006).

H. subchristianense Dahlst. ex Johanss. (1927: p. 47)

LECTOTYPE: “Värml.: Silbodals s:n, Årjeng (norra) 28.6.1892 K.O.E. Stenström.” (S, accession S-VR-12271).

H. succulentifolium Folin (1936: p. 23)

LECTOTYPE: “Värml. Frykerud sn. på åkerren S om torpet Stockdrågen (= hab:a på Ö:a Bergtjärns SÖ:a sida 2,3 km VNV från Frykerudss kyrka) 22/6 1929 H.E. Johansson” (S, accession S-VR-12329).

H. tinctinervum Folin (1936: p. 36)

LECTOTYPE: “Värml. Frykerus sn. i berget Stockdråghöjdens SV:a brant (ca. 2,3 km VNV från Frykeruds kyrka, på SÖ:a sidan af Ö:a Bergtjärn) mycket riklig 22/6 1929 H.E. Johansson” (S, accession S-VR-12348).

H. xerampelinum Johanss. & Sam. (1924: p. 158)

LECTOTYPE: “Värml. N. Råda: Uddeholm (vägkant) 1/7 1921 K. Johansson” (S, accession S-VR-14484).

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References

- Dahlstedt, H. 1892: *Herbarium Hieraciorum Scandinaviae* I–III. (Exsiccata).
- Dahlstedt, H. 1895: *Herbarium Hieraciorum Scandinaviae* IX. (Exsiccata).
- Dahlstedt, H. 1896: *Herbarium Hieraciorum Scandinaviae* X. (Exsiccata).
- Dahlstedt, H. 1899: *Herbarium Hieraciorum Scandinaviae* XI. (Exsiccata).
- Dahlstedt, H. 1900: *Herbarium Hieraciorum Scandinaviae* XII–XIII. (Exsiccata).
- Dahlstedt, H. 1903: *Herbarium Hieraciorum Scandinaviae* XV–XVI. (Exsiccata).
- Dahlstedt, H. 1921: Nya syd- och mellansvenska *Hieracia silvaticiformia*. — *Ark. f. Bot.* 17 n. 2: 1–19.
- Folin, T. 1936: *Hieracia* Vermlandica a Dre. H. E. Johansson collecta. — *Ark. f. Bot.* 28 n. 2: 1–57
- Johansson, K. 1902: *Archieraciumfloran* inom Dalarnes silurområde i Siljanstrakten. — *Bih. Sv. Vet.-Akad. Handl.* 28: III n. 7: 1–156.
- Johansson, K. 1905: Några bidrag till kännedomen om *Hieraciumfloran* i södra Sverige. — *Bot. Notiser* [1905]: 97–128.
- Johansson, K. 1926: Växtgeografiska spörsmål rörande den Svenska *Hieraciumfloran* II. — *Sv. Bot. Tidskr.* 20: 305–343.
- Johansson, K. 1927: Enumerantur *Hieracia vulgata* Suecicae. — *Ark. f. Bot.* 21A n. 15: 1–98.
- Johansson, K. 1929: Nya mellansvenska *Hieracier*. — *Sv. Bot. Tidskr.* 23: 329–335.
- Johansson, K. & Samuelsson, G. 1923–26: *Hieracia scandinavica exsiccata*. (Exsiccata)
- Johansson, K. & Samuelsson, G. 1924: Nya svenska *Archieracier*. — *Bot. Notiser* (1924): 135–160.
- Kindberg, N. C. 1877: *Svensk flora*. — P.M. Sahlströms bokhandel, Linköping.
- Lindeberg, C. J. [1878]: *Hieracia Scandinaviae exsiccata* I–III. (Exsiccata).
- Stenström, K. O. E. 1889: *Värmländska Archieracier*. — Upsala.
- Tyler, T. 2000: Lectotypification of names of south Swedish *Hieracium* species (Asteraceae). — *Nordic J. Bot.* 20: 93–103.
- Tyler, T. 2006: Värmland skogs-, hag- och krattfibblor (*Hieracium* sect. *Hieracium*, sect. *Vulgata* och sect. *Bifida*). — *Värmlandsfloran*. [In press].