ISSN 1211-8788 *Acta Musei Moraviae, Scientiae biologicae* (Brno)
87: 209–218, 2002

Johan Hruby´s *Campanula* material in the herbarium of the Moravian museum (BRNM)

KAREL SUTORÝ

Moravian Museum, Department of Botany, Hviezdoslavova 29a, 627 00 Brno, Czech Republic

SUTORÝ K. 2002: Johan Hruby´s *Campanula* material in the herbarium of the Moravian Museum (BRNM). *Acta Musei Moraviae, Scientiae biologicae* (Brno), **87:** 209–218. – The material of the genus *Campanula* (43 sheets) selected by Johan Hruby to illustrate his publications and preserved in the Moravian Museum is listed. Some strong reservations about Hruby´s approach to his taxonomic work and his manner of publication are expressed.

Key words. Hruby J., *Campanula*

Johan Hruby (*3.2.1882, †16.1.1964) published two studies, rich in new names and combinations, concerning the genus *Campanula* (HRUBY 1930, 1934). In the herbarium collection of the Moravian Museum is a separate collection of 43 sheets of the material of the genus *Campanula* with one or more taxa on each. The *Campanula* specimens were obviously intended to serve as illustrations for his publications, at least in their major part. It might be supposed that Hruby selected the most representative plant specimens to illustrate each taxon mentioned, in order that they might be preferred in the future in the process of lectotypification. High costs prohibited the publication of photographs (see HRUBY 1930: 152). It is up to the specialist to decide whether it is possible to accept the material on these grounds. Another possibility is that both published works be placed in "opera utique opressa", because Hruby´s mode of description was very idiosyncratic and the first article in particular is written in a badly ordered way. (E.g. subvar. *tenuissima* is briefly mentioned in four lines on page 175 and the following text concerns var. *typica*; not until page 179 does the author return to this variety again, with similar words and with localities etc.)

His conception of infraspecific taxa is sometimes problematical. It is not clear if he was always aware of the fact that the rank of subforma has a superior form and the forma a variety. On pages 157–158 he lists forms of *C. rotundifolia* var. *stricta*, with behind them a subvar. *Re Colla*. (This is deleted in the author's original, the text was obviously put here in error, because it appears on page 163). There he writes "*Nach der Grösse der Blumenkrone kann man ferner unterscheiden sf. parviflora ..., sf. grandiflora ...*". It is not clear to which superior entity they belong. It is probably mentioned that they could appear in all mentioned forms. Something similar takes place in the following cases: on pages 233–234, *C. caespitosa* is mentioned together with its division according to branching of the stem into the two forms f. *simplex* and f. *ramosa*, but according to corolla shape the three subforms sf. *typica*, sf. *austriaca* and sf. *grandiflorens* are given and then, according to hairiness, the two subforms sf. *normalis* and sf. *hirta*. On pages 253–4 he lists forms of *C. hercegovinica* var. *typica* and at the end he writes "*Zwischen*

diesen formen bestehen verschiedene Übergänge. Nach der ziemlich wechselnden Länge der Kelchzipfel kann man event. noch unterscheiden sf. brevicalycina ..., sf. longicalycina ...", again without connection to any of the mentioned five forms.

There are many places in the text that render it unclear.. For example, on page 1: 260 he lists in *C. cochlearifolia* subsp. *croatica* some forms and subforms that apparently belong to the typical variety and subvariety, but this is nowhere stated. On page 263 he writes "*Der Übergang von f. rosulata zur sf. macedonica bilden ...*" the text in another place on the same page seems clearly to indicate the subforma as subordinated to the forma mentioned.

Sometimes he describes a new taxon and at the same time he mentions that the name is identical to an older homonym, e.g. "f. *inciso serrata* m., non Chen." (Hruby 1930: 263).

There is often inconsistency in Hruby´s publications. For example, on page 241 he speaks of **forma** *umbrosa* and on the following one about **subforma** *umbrosa*. On page 242 he writes "ich konnte **zwei** formen unterscheiden" but he describes **three,** sf. *umbrosa*, sf. *intercedens* and sf. *justiniana*. It is probable that he changed his opinion on the status of the described and discussed the taxa rapidly, failing subsequently to amend the text accordingly.

The citations of some species are not precise. He uses *C. hercegovinica* instead of *hercegovina* or *C. taranensis* instead of *tarana*. Mistakes in the names of ranks at lower levels are not entirely absent either.

Both of the publications mentioned are in the library of the Department of Botany, originally owned by the author and commented upon by him. They are bound together and some free pages with notes are added. Some original photographs that should supplement this work are added as well.

The aim of my work is to point out the existence of this material, despite its problematical character.

Autonyma, names such as "*typica*", "*normalis*" and "*genuina*" are not listed. After the name of the taxon the short pagination of the above-mentioned citations is given. The geographical data from the protologue are cited, sometimes in a shortened form. Dots (…) replace omitted text. Notes are added as necessary.

Published names with vouchers in the mentioned collection

***Campanula arctica* (Lge.) Hruby**

var. *intercedens* f. *furcata* sf. *brachyantha* Hruby, 1930: 186

Geographical part of the protologue: "Sibiria orient.: ad Flumen Lena inf. inter Jakutsk et ostiam fl. Aldan Ityk chaja, auf den trockenen Uferhängen, leg. Cajander (Herb. Museum Lund)."

Note: The rank of forma (f.) is used on the herbarium specimen in connection with the name *brachyantha*.

var. *praticola* HRUBY, 1930: 186
Geographical part of the protologue: "Auf fetten Wiesenboden zwischen höheren Pflanzen."
Note: Localities are not given. Two plants on the specimen, one with the note "Übergangsform!"

var. *arcto-Kladniana* f. *flexuosa* HRUBY, 1930: 187
Geographical part of the protologue: "Kasetmed. par. Ungunieme (leg. Nicklander) ..., Ruskula (leg. Zillräm) ..."

var. *altocongesta* HRUBY, 1930: 186
Geographical part of the protologue: "Bisher nur aus Finnland bekant: Kl. Suistamo, Leppäsyrjä, Saynevaarlla Kalliouraossa, (V. Pesola und A. Virtanen als *C. rotundifolia* L)."

***Campanula arctolinifolia* HRUBY, 1930: 231**
Geographical part of the protologue: "Bisher nur aus Finland bekannt. Regio aboënsis, par Pyhajani, Nyhkala (leg. Weckesd als *C. rotundifolia* L.)."

***Campanula balcanica* (ADAM.) HRUBY**
var. *balcanica* subvar. *genuina* f. *latifrons* sf. *paradoxa* HRUBY, 1930: 246
Geographical part of the protologue: "Bulgarien: Mit der Normalform und f. pinifolia am Berge Osogovo (Urumoff)."

var. *balcanica* subvar. *bulgarica* f. *saxatilis* (= f. *bulgarica* WIT.) sf. *umbrosa* HRUBY, 1930: 251
Note: Taxa of forma rank are not explicitly mentioned in the publication.

var. *balcanica* subvar. *genuina* f. *saxatilis* HRUBY, 1930: 247
Geographical part of the protologue: "Bosnien: In saxosis montis Bukovik ad oppidum Sarajevo haud procul a sejunctu aquae rivi. Koševa, ca 1600 m (Maly Herb. Sarajevo). Bulgarien: In rupestribus m. supra Karlovo (Stefanoff, Georgieff), (Herb. Univ. Brünn). Serbien: Kalkfelsen bei Užice (Herb Mus. Belgrad). Türkei: In subalpinis montis Ljiboten (Adamovic als *C. rotundifolia*, Herb. Mus. Sarajevo)."

var. *balcanica* f. *saxiphila* HRUBY, 1934: 147
Geographical part of the protologue: "Montenegro: Maglic bei Mratinje (Ro) [Ro = Rohlena]."
Note: On the specimen *"saxatilis"*.

var. *velebitica* f. *racemosa* sf. *umbrosa* HRUBY, 1930: 242
Note: Localities are not explicitly given. There is a list of localities of all the infraspecific taxons at the end. On the specimen are two groups of plants: the first at the systematic level forma under var. *velebitica*, the second as *C. racemosa* KRAŠAN f. *umbrosa*.

***Campanula caespitosa* Scop.**

On the sheets, the author's combination (Scop.) Hayek is given.

f. *ramosa* sf. *condensata* Hruby, 1934: 143
Geographical part of the protologue: "Norditalien ..., Kroatien ..."

f. *umbrosa* sf. *anceps* Hruby, 1934: 143
Geographical part of the protologue: "Valle del Ansiei: Auranzo, S. Cateina (P). lok. Valle del Ansiei Auranzo, S. Caterina (P) [P = Pampanini]"
Note: The locality "Flora del Cadore" is given on the specimen.

***Campanula cochleariifolia* Lam.**

subsp. *typica* sf. *grandiflorens* Hruby, 1930: 258
Geographical part of the protologue: "Ex. sehr guten, fetten Bodens (Mönchsberg ober Salzburg u. a.). Gelegentlich mit der Grundform."
Note: On the specimen, subsp. *genuina* sf. *grandiflora*.

subsp. *typica* sf. *crassiuscula* Hruby, 1930: 258
Note: On the specimen is subsp. *genuina* instead of *typica*. No localities are given.

subsp. *reflexa* f. *venusta* sf. *elongata* Hruby, 1934: 158
Geographical part of the protologue: "Rajecer Gebirge: Im Grasse unter den Kalkfelsen am Gipfel des Klak".

subsp. *reflexa* f. *Javorkae* Hruby, 1930: 266
Geographical part of the protologue: "Tatra ..., Comitat Gömör ..., W. Tatra ..., Comitat Zölyom ..."

subsp. *reflexa* f. *subcaespitosa* Hruby, 1930: 268
Geographical part of the protologue: "Fatra in der Slowakei, Suchý, bei 1200 m (Švestka in Herb. Univ.Brünn). Gr. Fatra, auf Kalkblöcken am Abhange des Duienkuc, bei 800 m (Maloch, Herb. Univ. Brünn, Kelchzipfel zurückgekrümt!). Bucsecs in den Transs. Alpen. (H. Laus, Herb. Univ. Brünn)."

subsp. *reflexa* f. *pulchella* Hruby, 1930: 268
Geographical part of the protologue: "Belaer Kalkalpen ..., Comitat Gömör: ..., Comitat Szepes ..., Comitat Zölyom …
Note: The specimens are on two sheets.

subsp. *typica* sf. *aberrans* Hruby, 1930: 257
Note: On the specimen is f. *genuina* sf. *aberrans*; in the description of *C. cochlearifolia* subsp. *typica* sf. *aberrans* without the superior taxonomic rank (forma). This is probably because of the changed rank of forma to subspecies and name "*genuina*" to "*typica*".

subsp. *croatica* f. *genuina*? sf. *polyphylla* HRUBY, 1930: 262
Geographical part of the protologue: "Kroatien: Šneznik ober Lazac (Degen)."

subsp. *croatica* f. *rosulata?* sf. *macedonica* HRUBY, 1930: 263
Geographical part of the protologue: "Macedonien: in saxosis arenosis prope montis Jel-tepe Perin dag, alt. 2500 m (Dimonie 1909 in Herb. Degen)."

subsp. *croatica* f. *rosulata* HRUBY, 1930: 263
Geographical part of the protologue: "Bosnien: Trskavica planina (Maly in Herb. Degen)."

subsp. *croatica* f. *genuina*? sf. *multiflorens* HRUBY, 1930: 262
Note: On the specimen as *multiflora.* Localities of plants that differ from the typical are mentioned in the text – "Gelegentliche Ausbildung mit mehrblütigen (3 bis 4 Blüten) Stengel, wobei die untersten Blüten schon im unteren Drittel an ziemlich langen geschlängelten Stielen stehen; am selben Wurzelstocke auch normale 1 blütige Stengel, z. B. von Velebit (Štirovac bei Medak, vergl. Oben.), hier mit mittelgrossen (1.5–2 cm) mehr bauchig-glockigen Blumenkronen. Dagegen haben die Stücke aus Dalmatien: Dinara bei Knin, ca 1800 m (Degen), verhältnismässig kleine, ziemlich schmale, mehr trichter-glockförmige Blumenkronen (1–1.4 cm) und die mittleren Stengelblätter sind zumeist undeutlich gezähnelt bis ganzrandig. Aber die Übergänge finden sich sowohl zur Normalform wie zu deren Unterformen. Neben Ex. Mit nur 1-blütigen Stengeln finden sich in der Mehrzahl 2–3 blütige Stengel im selben Rasen."

subsp. *croatica* f.? sf. *subintegra* HRUBY, 1930: 260
Note: Published at the rank of subforma, the superior rank – forma – is not clear, on the sheet as forma.

subsp. *typica* f. *veronica* HRUBY, 1930: 258
Geographical part of the protologue: "Tirol. In declivibus lapidosis umbrosis prope Trafoi (Degen 1909)."

Campanula hercegovina DEG. ET FIALA

Hruby names this plants in publications and on the sheets as *hercegovinica*.

var. *typica* f. *humilis* HRUBY, 1930: 253
Note: No localities are given.

var. *pseudopusilla* HRUBY, 1930: 254
Geographical part of the protologue: "Lag auf dem gleichen Spannbogen wie *C. witasekiana* f. *typica* m. (mit *subdentata* m.) aus dem Bosnien-Herzegowinischen Landesmuseum von d. Prenj planina, Lupoglav (Fiala 1895). [Sarajevo?]."

var. *typica* f. *umbrosa* Hruby, 1930: 253
Note: No localities are given.

var. *typica* f. *angustata* Hruby, 1930: 254
Geographical part of the protologue: "Flora Bertisci. Dečanska Bistrica, in saxosis supra Monasterium. leg. K. Maly (Herb. Mus.Budapest)."
Note: On the specimen *C. velebitica* Deg. et Fiala f. *angustata* Hruby

var. *fallens* Hruby, 1930: 254
Geographical part of the protologue: "Herzegovina …"

***Campanula hispanica* Willk.**

f. *scabra* Hruby, 1934: 152
Geographical part of the protologue: "Spanien: Prov. Teruel, Albarracin, 1300 m (E. Reverchon Herb. normale, ed. Dörfler Nro. 3337, als. *C. hispanica* Wilkomm.). Cerdagne, Gorges, 1500 m. (F. Secondaire)."

***Campanula kladniana* (Schur) Witasek**

Hruby cities only Schur as author of this name on the specimens.

var. *degeniana* Hruby, 1930: 230
Geographical part of the protologue: "Romania: Bucsecs, in lapidosis Valea Jepi supra Bušteni, (Degen 1911)."

var. *saxatilis* Hruby, 1930: 227
Geographical part of the protologue: "Mit voriger [he means var. *typica*]. Ferner: Banat, Herkulesbad ..., Rumänien: Valea Tesnej ..."
Note: On two sheets.

***Campanula napuligera* Schur**

var. *redux* f. *flexuosa* Hruby, 1930: 220
Note: No locality is given. *Campanula redux* f. *flexuosa* is given on the sheet.

var. *stricta* Hruby, 1930: 216
Geographical part of the protologue: "Tritt in zwei Formen auf: f. *latifrons* …, f. *angustifrons* …, f. *genuina* - Mittelform zw. beiden."
Note: There are many localities for f. *genuina.*

var. *stricta* f. *latifrons* Hruby, 1930: 216
Note: There is no locality in protologue. In the author's publication there is the hand-written note "M. Suchý, 1200 m, F. Švestka 8.1926 L.M."(L.M. = BRNM). On the specimen is var. *typica*.

var. *stricta* f. *latifrons* sf. *pyramidata* HRUBY, 1934: 140
Geographical part of the protologue: "Com. Liptó: im Korytnica-Tale (Lengyel)."
Note: Locality on the specimen is the same as in protologue "Tatra Korytnicatal" The original is probably deposited in Budapest (BP).

latifolia (var. *stricta*) f. *arenata* sf. *angustifrons* HRUBY, 1930: 217
Geographical part of the protologue: "Gr. Fatra: im Vaccinietum-Nardetum auf der Ploska u. am Ostredok ober Turč.-Sv. Martin, 7.1931."
Note: Locality given on the specimen is different from the protologue "Nied. Tatra". Var. *"typica"* is deleted and replaced with *"stricta"*.

var. *redux* f. *humilis* HRUBY, 1930: 219
Geographical part of the protologue: "Siebenbürgen: Komit. Brassó, in cacumine Buksoi montis Bucsecs (Degen); (ebendort auf Felsabsturzen bei ca 1900 m (Kotschy)."
Note: On the sheet *"C. redux* SCHOTT f. *humilis* m.*"*

var. *hirsuta* f. *glabrescens* HRUBY, 1930: 221
Note: No localities are given, only the note "Mit der Grundform."

var. *hirsuta* f. *genuina* sf. *simplex* HRUBY, 1930: 220
Geographical part of the protologue contains no separate locality. The locality of var. *hirsuta* f. *genuina* is given "Romania, Valea Jepi bei Bušteni (Degen), hier auch sf. *simplex*".

var. *hirsuta* f. *robusta* HRUBY, 1930: 220
Note: No localities are given.

var. *hirsuta* f. *genuina* sf. *tenella* HRUBY, 1930: 220
Note: No localities are given, only the note "Mit der Grundform."

Campanula polymorpha WITASEK

var. *intercedens* HRUBY, 1930: 199
Geographical part of the protologue: "... in der Krumholzregion der Hohen Tatra, des ganzen Karpathenbogens bis Siebenbürgen und Rumänien."
Note: On two sheets. Locality given on the specimen is "Liptauer Alpen".

var. *praticola* f. *angustissima* HRUBY, 1934: 135
Geographical part of the protologue: "Ostkarpathen: Alpentriften des Pikut 1405 (ipse 1931)."
Note: Locality on the specimen is different from the protologue "H. Tatra". Designated at the rank of subforma on the specimen.

var. *praticola* f. *umbrosa* Hruby, 1934: 135
Geographical part of the protologue: "Hohe Tatra: Kl. Kolhbachtal (Lengyel). – Csobersee, ca 1350 m. (Scheffer 1926)."

var. *typica* f. *saxiphila* Hruby, 1930: 204
Geographical part of the protologue: "Belaer Kalkalpen, Westtatra, Komitat Besztercze-Naszod."
Note: On the specimen var. *saxiphila* with locality "Belauer Kalkalpen."

***Campanula rotundifolia* L.**

var. *subspeciosa* Hruby, 1930: 164
Note: Without particular localities, only "subpolaren Gebiete Europas", on two sheets.

***Campanula scheuchzeri* (Vill.) Hayek**

var. *praticola* f. *simplex* Hruby, 1934: 130
Geographical part of the protologue: "Steiermark: Veitschalpe, 1200–1400 m.Totes Gebirge, zwischen Schönberg u. Gsulberg, ca 1750 m (R): etwas an subvar. *Villarsiana* Hayek gemahnend. Totes Gebirge, Salzofen, 950 m. (ebenso) ..."

var. *intercedens ?* f. *humilis* Hruby, 1930: 192 ?
Note: var. *praticola* f. *humilis* on the specimen (probably by mistake).

var. *hirta* f. *hirtissima* Hruby, 1930: 196
Note: On two sheets. No localities are given.

var. *praticola* Hruby, 1930: 191
Note: The localities given are very broad – Steiermark, Kärnten, Krain, Tirol.

var. *typica* f. *genuina* sf. *divaricata* Hruby, 1930: 193
Note: No localities are given.

***Campanula stenocodon* Boiss. et Reut.**

Hruby mentions author combination (Boiss. et Reut.) Hruby.

var. *typica* f. *genuina* sf. *angustissima* Hruby, 1934: 144
Geographical part of the protologue: "wie oben [f. genuina]. Ferner Valle de Piave: Ospitale alt. 500 m (P 1931). Caralte l.d. Piano di Ausogne (P). [P = Pampanini]."

var. *abbreviata* Hruby, 1934: 145
Geographical part of the protologue: "Valle del Piave: Sotto Castello (P). [P = Pampanini]"

var. *typica* f. *ramosa* HRUBY, 1934: 144
Geographical part of the protologue: "Valle del Piave: Passo di Maura, 1300–1400 m. [P = Pampanini]."

var. *Pampaninii* f. *interposita* HRUBY, 1934: 145
Geographical part of the protologue: "Valle del Piave Caralte (P). [P = Pampanini]."

var. *Pampaninii* HRUBY, 1934: 145
Note: On the specimen in the rank of forma. No localities are given.

var. *typica* f. *genuina* sf. *angustifrons* HRUBY, 1934: 144
Note: Localities identical with f. *genuina.*

var. *typica* f. *genuina* sf. *angustissima* HRUBY, 1934: 144
Geographical part of the protologue: "Wie oben. (he means f. *genuina*) – Ferner Valle del Piave: Ospitale alt 500 m (P 1931). – Ceralte di Ausogne (P). [P = Pampanini]. Sehr dürftige Exemplare."

***Campanula witasekiana* VIERH.**

var. *intercedens* f. *latifrons* sf. *humilis* HRUBY, 1934: 137
Geographical part of the protologue: "Montenegro: Maglic, Kom und Durmitor (Ro) [Ro = Rohlena]."
Note: Designated as f. *latifolia* on the specimen.

var. *intercedens* f. *pinifolia* sf. *simplex* HRUBY, 1934: 138
Geographical part of the protologue: "Gleicht völlig sf. *Kerneri* (WITASEK) HRUBY, Campanulastudien (S 193). – Montenegro: Durmitor (Ro) [Ro = Rohlena]."

var. *praticola* HRUBY, 1930: 207
Geographical part of the protologue: "Diese Pflanze lag Vierh. bei Orig. Diagn. seiner *C. witas*. vor. Kroatien …,Bosnien …"

var. *praticola* f. *angustifrons* HRUBY, 1930: 207
Note: No localities are given.

var. *praticola* f. *latifrons* sf. *brevicalicina* HRUBY, 1930: 209
Geographical part of the protologue: "In rupestribus cacuminalis innominati (inter Sv. Brdo et Vaganski Vrh) supra Raduč, cca 1700 m (Degen)."

var. *praticola* f. *angustifrons* HRUBY, 1930: 207
Note: No localities are given.

var. *intercedens* Hruby, 1930: 210

Geographical part of the protologue: "Croatien ..., Istrien ..., Herzegowina und Bosnien ..."

Note: It is not quite clear from the text which localities belong to this variety.

Names published without descriptions

Campanula arctica var. *arctica* f. *elatior* Hruby, 1934: 130
Campanula. balcanica var. *velebitica* f. *Borbasiana* sf. *elatior* Hruby, 1934: 146
Campanula balcanica var. *velebitica* f. *genuina* sf. *humilior* Hruby, 1934: 146
C. napuligera var. *typica* f. *arenata* sf. *angustifrons* Hruby, 1934: 140
C. polymorpha var. *typica* f. *angustifolia* Hruby, 1930: 201
C. rotundifolia var. *sudetica* f. *pseudarctica* Hruby, 1930: 167

Probably unpublished names

C. balcanica var.*balcanica* f. *squarrosa* Hruby
C. balcanica var. *balcanica* f. *squarrosa,* sf. *saxiphila* Hruby
C. caespitosa f. *simplex* sf. *condensata* Hruby
C. taranensis f. *squarosa* Hruby

References

Hruby J. 1930: Campanulastudien inerhalb der vulgares und ihrer Verwandten. *Mag. Bot. Lap*. **29:** 152–276.
Hruby J. 1934: Campanulastudien. II. Mitteilung. *Mag. Bot. Lap.* **33:** 126–159.