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Material of type character in the Münch-Bellinghausen collection in the Moravian Museum, Brno (BRNM). 3. David Heinrich Hoppe

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SUTORÝ K. 2003: Material of type character in the Münch-Bellinghausen collection in the Moravian Museum, Brno (BRNM). 3. David Heinrich Hoppe. *Acta Musei Moraviae, Scientiae biologicae* (Brno) **88:** 163–179. – Fifty-two higher plant specimens documenting new plant names and an additional twelve specimens documenting unpublished plant names by David Heinrich Hoppe are listed and commented upon. The specimens belong to the Münch-Bellinghausen exsiccate collection and they are deposited in the Department of Botany in the Moravian Museum, Brno (BRNM).

Key words. Moravian Museum, Department of Botany, Münch-Bellinghausen collection, David Heinrich Hoppe

Introduction

The Münch-Bellinghausen collection contains a number of original specimens collected by various botanists in the first four decades of the nineteenth century (SUTORÝ 1986). The contribution presented here is the third in a series, following an evaluation of the specimens from W. Besser (SUTORÝ & BUZUNOVA 2000), F. P. A. Waldstein and P. Kitaibel (SUTORÝ 2000).

Hoppe´s personal herbarium collection was given to the "Staats-Gymnasium in Salzburg" and the list of taxa of this collection was published in a school curriculum (PICK 1872). The conditions in this institution were not favourable to plant preservation, so Hoppe´s collection was moved to the herbarium in Graz (GZU) in 1919 (GÜRTLER 1993). We might expect that the taxa published in the original list should be preserved in GZU. If not, the material has probably been lost. Hoppe exchanged and sold his materials, and they became dispersed around further herbarium collections. Traditionally favours Budapest (BP) but STAFLEU & COWAN (1979) mention Munich (M), from whence it was obtained in 1830 and Prague (PR). In the list below I present results from my searches in the GZU, BP, and M herbariums. The material is sometimes difficult to find, because determination and classification are not always. GZU is the exception; even after redetermination, notes have been left in the original positions (= original determination). The abbreviations of herbarium collections follow Holmgren's *Index Herbariorum*.

In the Münch-Bellinghausen collection, 63 specimens of plant taxa bearing the Hoppe name were found. Thirteen of them, indicated below as "*in schedis*", were probably not published and twelve of them are in current use. Some of the specimens

have Hoppe´s original printed or handwritten labels, most of them are accompanied by additional notes from Konstantin Münch-Bellinghausen (KMB).

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David Heinrich Hoppe (*15.12.1760 – †1.8.1846)

A German botanist, physician and pharmacist (for further data see Stafleu & Cowan 1979), he issued following exsiccate series of higher plants. The exsiccates appearing in the collection under study are printed in **bold**:

Herbarium vivum plantarum selectarum (1790–1797).
Herbarium vivum plantarum rariorum praesertim alpinarum exhibens (1798–1803).
Herbarium vivum plantarum graminearum (1820, 1830).
Hortus botanicus ratisbonensis (1807–1809).
Agrostologia hoppeana (1803).
Plantae phanerogamae selectae (1817, 1818) [with Ch. F. Hornschuch].

List of specimens

***Achillea tergestina* Hoppe,** *in schedis*

Label text(KMB): *In pratis saxosis Tergesti.*
Acquired: 1820, 1 specimen.
Duplicates: Not seen.
Note: Not in Pick (1872).

***Aconitum flexicaule* Hoppe et Hornsch. ex Rchb.,** *Monogr. t.* 38, 1820.
[= *Aconitum paniculatum* Lam.]

Label text (KMB): *1820 in depressis prope Heil. Blut legit Hoppe.*
Acquired: 1820, 1 specimen and 1 fragment.
Duplicates: BP 417165–6.
Note: Not in Pick (1872). Reichenbach in *Uebersicht der Gattung Aconitum* 43, 1819 cited (without description) the name *A. flexicaule* Hoppe et Hornschuh as synonymous to *A. cernui*.

***Asparagus maritimus* Hoppe,** *in schedis* [non Mill. nec Pall.]

Label text (KMB): *In Tergesti maritimi.*
Acquired: 1820, 1 specimen.
Duplicates: Not seen.
Note: Not in Pick (1872).

***Astragalus tergestinus* Hoppe,** *in schedis*

Label text (KMB): *In saxosis Tergesti.*
Acquired: 1820, 1 specimen.
Duplicates: Not seen.
Note: Not in Pick (1872).

Braya alpina Sternb. et Hoppe, *Denkschr. Bot. Ges. Regensburg* **1:** 66, 1815.
[= name in universal current use]

Label text (KMB): *1820 von Hoppe*.
Printed label of Reichenbach´s exsiccate: *295. Braya alpina Strnb. Hpp. Denkschrift 1815 t. I. Rchb ap Sturm. 43. Fl. germ. In der Gamsgrube b. Heiligenblut in Oberkärnthen. Hr. Prof. Hoppe. Ausgezeichnete Zierde der Sammlung!*
Acquired: Rchb. F.G. 295 – 1 specimen. Hoppe, 1820 – 1 specimen.
Duplicates: GZU without number, BP 1435535, BP 4551744.
Note: Pick (1872) no. 230.

***Cardamine multicaulis* Hoppe ex Koch**, *Röhling´s Deutschl. Fl.* **4:** 605, 1833.
[= *Cardamine hirsuta* L.]

Label text (KMB): *Auf den Wiesen bei Salzburg 1820 als C. multicaulis.*
Acquired: 1820, 1 specimen.
Duplicates: M.
Note: Not in Pick (1872).

***Carduus latifolius* Hoppe,** *in schedis*

Label text (KMB): *In ruderatis prope Heil. Blut.*
Acquired: upper part of the plant with 3 capitulae + 2 leaves.
Duplicates: Not seen.
Note: Not in Pick (1872).

***Carex approximata* Hoppe ex Hoffm.,** *Deutsch. Fl.,* ed. 2, **2:** 200, 1804
[nom. illeg. non *All. Fl. Pedem.* **2:** 267, 1785].
[= *C. lachenalii* Schkuhr]

Label text (KMB): *...von Hoppe als seine Carex approximata 30. Hoppe Herb. vivum pl. graminearum*.
Acquired: 1 specimen.
Duplicates: BP 481433.
Note: Not in Pick (1872). Problematical designation of plants on the sheet; the plant

is probably deleted. In protologue, Hoffmann cites another Hoppe exsiccate "D. Hopp. Pl. Rar. Cent. 3.1." (= Herbarium vivum plantarum graminearum.)

***Carex contigua* Hoppe in Sturm,** *Deutschl. Fl. Hft.* 61, 1833.
[= *C. spicata* Huds., name in universal current use.]

Text of Hoppe´s original handwritten label: *Carex contigua Hpii in graminosis Tergesti.*
Acquired: 6 stems.
Duplicates: Not seen.
Note: Pick (1872) no. 2679.

***Carex erhartiana* Hoppe,** *in schedis*

Text of Hoppe´s original handwritten label: *Carex erhartiana Hopp. In fossis prope Salisburgum.*
Acquired: 1 bunch of stems + 1 young bunch.
Duplicates: Not seen.
Note: Pick (1872) no 2683.

***Carex hornschuhiana* Hoppe**, *Flora* **7:** 589, 1824.
[= *Carex hostiana* DC.]

Text of Hoppe´s original printed label: *147. Carex Hornschuchiana. Hopp. In pratis humidis prope Elixhausen vicinia Salisburgi. Iunio.*
Acquired: 2 specimens; from Hoppe, 1 specimen with a green strip; the second lost (?).
Duplicates: GZU 8271 W. J. Cris lectotypus 1984, GZU 8200 – isolectotypus, BP 470122.
Note: Pick (1872) no. 2763. (= Herbarium vivum plantarum graminearum.)

***Carex scabra* Hoppe,** *Taschenb.* 242, 1800.
[= *Carex davalliana* Sm.]

Label text (KMB): *von Hoppe unter dem Nahmen C. scabra.*
Acquired: 1 specimen.
Duplicates: M, BP 472358.
Note: Not in Pick (1872).

***Cineraria aurantiaca* Hoppe ex Willd.,** *Sp. Pl.* **3:** 2081, 1803.
[= *Senecio integrifolius* (L.) Clairv. subsp. *aurantiacus* (Hoppe ex Willd.) Briq. et Cavallier]

Label text (KMB): *In pratis prope Clagenfurth*.
Acquired: 1820, 2 specimens (one divided into two parts).
Duplicates: Not seen.
Note: PICK (1872) no. 1318. According to HIEPKO (1972) this species is in the Willdenow herbarium in Berlin (no. 16008).

***Cineraria capitata* Hoppe,** *in schedis*

Label text (KMB): *In pratis Salisburgi.*
Acquired: 1820, 2 specimens (bottom rosette of leaves + inflorescence).
Duplicates: BP 419893 with 2 labels.
Note: PICK (1872) no. 1312 sub *C. pratensis* var. *capitata*.

***Crocus montanus* Hoppe,** *in schedis*

Label text (KMB): *1822. Von Hoppe auf dem Geisberg n. sp.*
Acquired: 1 specimen.
Duplicates: Not seen.
Note: Not in PICK (1872).

***Crocus variegatus* Hoppe et Hornsch.,** *Tageb. Reise Adriat.* 187, 1818.
[= *Crocus reticulatus* Steven. ex Adams. in Weber fil. et Mohr]

Label text (KMB): *In pratis Tergesti.*
Acquired: 1821, 1 specimen.
Duplicates: GZU 32470, M.
Note: PICK (1872) no. 2411.

***Deschampsia caespitosa* var. *alpina* Hoppe,** ex ASCHERS. & GRAEB. **2, 1:** 291, 1899 nom. illeg. non *D. c*. var. *alpina* (L.) Vasey in BEAL *Grass. N. Amer.* **2:** 368, 1896 (non vidi) nec *D. c*. subsp. *alpina* (L.) Tzvelev in *Fl. Severo-Vostoka Evropeiskoi Chasti SSSR* **1:** 141 (Aug. 1974); and in *Fl. Evropeiskoi Chasti SSSR* **1:** 209 (Sept. 1974).
[=*Deschampsia caespitosa* (L.) P. B.]

Text of the orig. printed label: *166. Aira caespitosa alpina Hp. In alpibus carinthiacis: auf Margaritzen bei Heiligenblut.*
Acquired: 1 bunch + 4 culms.
Duplicates: BP 466801, BP 466807.
Note: PICK (1872) no 2957. (= Herbarium vivum plantarum graminearum.)

***Dianthus sylvaticus* Hoppe,** ex WILLD. *Enum. Plant. Hort. Berol.* **1:** 467, 1809.
[= *Dianthus seguieri* subsp. *glaber* Čelak., Syn. *D. s*. subsp. *sylvaticus* (Hoppe) Hegi]

Label text (KMB): *Hort. Ratisb.*
Text of the original printed label: *9. Dianthus sylvaticus Hoppii*.
Acquired: 1 specimen.
Duplicates: Not seen.
Note: PICK (1872) no. 404. (=Hortus botanicus ratisbonensis). According to HIEPKO (1972), this species is in the Willdenow herbarium in Berlin (no. 8528).

***Draba laevigata* Hoppe,** ex KORL *Flora* **6:** 441, 1823.
[= *D. fladnizensis* Wulfen in Jacq.]

Label text (KMB): *In alpe Pasterze Hoppe 1820.*
Acquired: 1820, 1 specimen.
Duplicates: BP 458116, BP 459255.
Note: PICK (1872) no. 274. The plant is entirely glabrous.

***Equisetum palustre* var. *prostratum* Hoppe,** ex KOCH *Syn. ed.* 2, 965, 1845 in synonymis *E. palustri*.
[= *E. palustre* L.]

Label text (KMB): *in pratis prope Heil. Blut Hoppe 1820.*
Acquired: 1 specimen + 2 branches.
Duplicates: Not seen.
Note: Not in PICK (1872).

***Equisetum tenue* Hoppe,** *Flora* **2:** 229, 1819 nom. nudum.
[= *E. variegatum* Weber et Mohr]

Label text (KMB): *von Hoppe als Eq. tenue vide Web. Mohr* [=Weber et Mohr]
Acquired: 1 specimen.
Duplicates: Not seen.
Note: Not in PICK (1872).

***Erigeron rupestre* Hoppe,** ex DC. *Prodr*. **5:** 291, 1836, non SCHLEICH. *Cat. Pl. Helv.* ed. 4, 16, 1821, nom. nudum.
[= *E. alpinus* L.]

Label text(KMB): *In alpibus Carinthiae.*
Acquired: 1820, 1 specimen.
Duplicates: Not seen.
Note: PICK (1872) no. 1176. The younger, not validly published homonym *Erigeron rupestris* Popov ex NOVOPOKR. exists. *Not. Syst. Herb. Inst. Bot. Acad. Sci. URSS* **7(6):**

134, 1938, nom. nudum (= *Aster popovii* Botschantzev *Not. Syst. Herb. Inst. Bot. Acad. Sci. URSS* **16:** 379, 1954).

***Eriophorum latifolium* Hoppe,** *Taschenb*. 108, 1800.
[= name in universal current use]

Label text(KMB): *Herbar. viv. pl. graminear. von Hoppe.*
Text of the original printed label: 6*1. Eriophorum latifolium. Hoppii In pratis paludosis prope Salisburgum. Majo.*
Acquired: 3 specimens.
Duplicates: M.
Note: Pick (1872) no. 2646. (= Herbarium vivum plantarum graminearum.)

***Eriophorum scheuchzeri* Hoppe,** *Taschenb.* 104, App.t.7, 1800.
[= name in universal current use]

Label text (KMB): *von Hoppe als E. scheuchzeri.*
Acquired: 1 specimen.
Duplicates: M – 2 specimens.
Note: Pick (1872) no. 2645. 2 plants with 3 labels Schleicher + Rchb. + "von Hoppe" Schleicher´s plant is designated, the second plant should be from Hoppe or from Reichenbach.

***Eriophorum triquetrum* Hoppe,** *Taschenb*. 106, 1800.
[= *Eriophorum gracile* W. D. J. Koch ex Roth]

Label text(KMB): *71. Hoppe Herb. viv. pl. graminearum.*
Text of the original printed label: *71. Eriophorum triquetrum. Hopii. In paludibus prope Salisburgum, e.g. in. fossa paludosa ad Glaneck. Majo*.
Label text (KMB): *Hort. Ratisb., von Hoppe*.
Text of the original printed label: *5.Eriophorum triquetrum Hopii.*
Acquired: 2 specimens from two different exsiccate series (Herbarium vivum plantarum graminearum + Hortus botanicus ratisbonensis(.
Duplicates: M.
Note: Not in Pick (1872).

***Genista ramiflora* Hoppe,** *in schedis*

Label text (KMB): *In sylvis Tergesti*.
Acquired: 1820, 2 specimens.
Duplicates: Not seen.
Note: Not in Pick (1872).

***Hieracium alpinum* Hoppe,** in Sturm *Deutschl. Fl. Hft.* 37, No 3, 1814, nom. illeg. non L. Sp. Pl. 800, 1753.

Text of Hoppe´s original handwritten label: *Hieracium alpinum H. apud Sturm in alpe Pasterze*.
Acquired: 1820, 1 specimen.
Duplicates: Not seen.
Note: In Pick (1872) without Hoppe authorship.

***Hieracium atricapillum* Hoppe,** in Funck *Flora* 3, **1:** 69, 1820, in adnot.

Label text (KMB): *In rupestribus alpinis*.
Acquired: 1820, 1 specimen.
Duplicates: GZU 63408, BP 447795.
Note: Pick (1872) no. 1568. Funck (1820) characterises this species in protologue "*durch einen schwarzzotigen Kelch und einen immer mit 3 Blättern versehenen Stengel auszeichnet*." Hoppe in *Flora* 14, **1:** 184, 1831 writes in text "*üppige Form der vorigen /*H. pumilum*/ und ist wahrscheinlich nur als Varietät zu betrachten*".

***Hieracium angustifolium* Hoppe,** *Bot. Taschenb.* 130, 1799.
[=name in current use]

Label text (KMB): *Hoppe 1820. Von der Pasterzer Alpe*.
Text of Hoppe´s original handwritten label: *Hieracium angustifolium Hp. apud Sturm non Wild in Pasterze.*
Acquired: 3 specimens.
Duplicates: Not seen.
Note: Pick (1872) no. 1524.

***Hieracium dentatum* Hoppe,** in Sturm. *Deutschl. Fl. Hft.* 39, 1815.
[=name in current use]

Label text (KMB): *In alpe Pasterze*.
Acquired: 1820, 1 specimen.
Duplicates: GZU 63278, BP 449748.
Note: Pick (1872) no. 1541.

***Hieracium incisum* Hoppe,** in Sturm. *Deutschl. Fl. Hft.* 39, No 14, 1815.
[= *H. pallescens* Waldst. et Kit. see Janchen (1963)]

Label text (KMB): *In alpe Pasterze 1820 von Hoppe ist von Sturm abgebildet.*
Acquired: 1820, 1 specimen.
Duplicates: Not seen.

Note: PICK (1872) no. 1558.

Hieracium pumilum **Hoppe,** ex WILLD. *Sp. Pl.* **3:** 1562, 1803, nom. illeg. non L. Mantissa 2: 279, 1773.
[= *H. alpinum* L.]

Label text (KMB): *In alpe Pastrze legit Hoppe 1820.*
Text of the original handwritten label: *Hieracium pumilum. Hp. Willd. Sturm. in alpe Pasterze.*
Acquired: 1820, 1 specimen.
Duplicates: BP 444736.
Note: PICK (1872) no. 1566. According to HIEPKO (1972) this species is in the Willdenow herbarium in Berlin (no. 14641).

Hieracium uniflorum **Hoppe,** *Flora* 14, **1:** 181, 1831.
[= *H. sphaerocephalum* Froel. in Mössler]

Label text (KMB): *In alpe Pasterze von Hoppe 1820 als Hier. uniflorum Hpp.*
Acquired: 1 specimen.
Duplicates: Not seen.
Note: PICK (1872) no. 1523.

Juncus conglomeratus **var.** ***effusus*** **Hoppe,** in MERT. & KOCH *Deutschl. Fl.* **2:** 573, 1826.

Label text (KMB): *Hoppe Herb. viv. pl. gramin.*
Text of the original printed label: *152. Juncus conglomeratus effusus Hp. In fossis paludosis prope Ratisbonam. Iunio.*
Acquired: 3 upper parts + 3 lower parts.
Duplicates: GZU 032103.
Notes: Pick (1872) no. 2518 (= Herbarium vivum plantarum graminearum.)

Juncus diffusus **Hoppe,** *Flora* **1:** 186, 1819.
[= *Juncus effusus* × *inflexus*; name in universal current use]

Label text (KMB): *Hoppe Herb. viv. pl. gramin.*
Text of the original printed label: *155. Juncus diffusus Hopp. In fossis prope Donaustauf, vicina Ratisbonae. Iunio.*
Acquired: 2 specimens.
Duplicates: GZU 032108 + 1 specimen without number from Herb. Ettinghausen.
Note: PICK (1872) no. 2521. (= Herbarium vivum plantarum graminearum.)

***Juncus effusus* var. *compactus* Hoppe,** in Mert. & Koch *Deutschl. Fl.* **2:** 574, 1826.

Label text (KMB): *Hoppe Herb. viv. pl. gramin.*

Text of the original printed label: *154. Juncus effusus compactus Hp. in fossis prope Ratisbonam. Julio.*

Acquired: 3 upper parts + 3 lower parts.

Duplicates: GZU without number from Herb. Ettinghausen.

Note: Pick (1872) no. 2520. (= Herbarium vivum plantarum graminearum.)

***Juncus glabratus* Hoppe,** *Herb. viv. plant. rar. praesert. alpinarum, Cent.* 3, 1800. [= *Luzula glabrata* (Hoppe) Desv.]

Label text (KMB): *die 2 grössern sind von Hoppe.*

Acquired: 1 specimen.

Duplicates: Not seen.

Note: Not in Pick (1872). There is only one plant on the sheet; the second has been deleted. There is a further specimen sent by Hoppe under the name *Luzula glabrata* Desv. (Herbarium vivum plantarum graminearum) which means that Hoppe used his name *Juncus glabratus* at the time of publication of his exsiccate *Herbarium vivum plantarum rariorum praesertim alpinarum exhibens* (1798–1803) and *Luzula glabrata* Desv. at the time his *Herbarium vivum plantarum graminearum* came out (1820, 1830). Lectotypus in MW selected by Leena Hämet-Ahti in 1971.

See http://herba.msu.ru/pictures/mw_type/monocot/juncac.

***Juncus glaucus* var. *compactus* Hoppe,** in Mert. & Koch *Deutschl. Fl.* **2:** 575, 1826.

Label text (KMB): *Hoppe Herb. viv. pl. gramin*.

Text of the original printed label: *158. Juncus glaucus compactus Hp. In arenosis humidis prope Ratisbonam. Iulio.*

Acquired: 2 upper parts + 2 lower parts.

Duplicates: Not seen.

Note: Pick (1872) no. 2523. (= Herbarium vivum plantarum graminearum.)

***Juncus glaucus* var. *contractus* Hoppe,** in Mert. & Koch *Deutschl. Fl.* **2:** 575, 1826.

Label text (KMB): *Hoppe Herb. viv. pl. gramin*.

Text of the original printed label: *159. Juncus glaucus contractus Hp. In arenosis humidis prope Ratisbonam. Iulio.*

Acquired: 2 upper parts + 2 lower parts.

Duplicates: GZU 032107.
Note: PICK (1872) no. 2524. (= Herbarium vivum plantarum graminearum.)

Juncus paniculatus **Hoppe,** ex MERT. & KOCH *Deutschl. Fl.* **2:** 575, 1826 in observ. ad *J. glaucus*.
[= *J. inflexus* L.]

Text of the original printed label: *156. Juncus paniculatus. Hopp. In graminosis humidis Littoralis: ad vias. prope Montfalcone. Iunio.*
Text of the original handwritten label: *Juncus pallida Hoppii in agris Tergestinis.*
Acquired: 3 specimens.
Duplicates: GZU 32105.
Note: PICK (1872) no. 2525. MERT. & KOCH l.c. p. 575–576: "*Die am Meere bei Triest von unserem freund Hoppe gesammelte Pflanze, und erst J. pallidus, dann J. paniculatus (Dec. nr. 156) bildet nach unserm Bedenken eine eigene Art, wir waren jedoch nicht im Stande, an dem getrockneten Exemplaren schnei-/dende Kennzeichen aufzufinden, wir empfehlen sie den Botanikern, welche sie lebend auf ihrem Standorte vergleichen können. Wir besitzen dieselbe Pflanze von Salzmann bei Montpellier gesammelt. Die Spirre ist viel lockerer als an J. glaucus, und die aussern Aeste sind so verlängert, gleichsam proliferirend, dass sie Spirre aus 1–2 kurz gestielten, und 2–3 sehr lang gestielten, besondern Spirren zu zusammengesetzt scheint. Die Blättchen der Blüthenhülle und die Deckblätter sind bleichgrün mit weislichem Rande, nicht kastanienbraun.*"
Number of our exsiccate (= Herbarium vivum plantarum graminearum(is cited. Older homonym. *Juncus paniculatus* Luce *Topog. Nachr. Oesel* 107, 1823, is nomen invalidum (non vidi).

Juncus ustulatus **Hoppe,** *Anleit. Graes.* 30, 1819.
[= *Juncus alpinus* Vill.]

Label text (KMB): *Hoppe Herb. viv. pl. graminearum*.
Text of the original printed label: *15. Juncus ustulatus Hoppii In aquosis praesertim ad ripas fluviorum, e.g. an der Möll. Julio.*
Acquired: The identification of plants on the sheet is problematical, since they are not properly designated.
Duplicates: Not seen.
Note: Not in the PICK (1872). (= Herbarium vivum plantarum graminearum.)

Leontodon taraxacoides **Hoppe et Hornshuch,** *Tageb. Reise. Adriat.* 166, 1818.
[= *Taraxacum taraxacoides* (Hoppe et Hornshuch) Willkomm in WILLKOMM & LANGE, *Prodr. Fl. Hispan.* **2:** 231, 1870 see KIRSCHNER & ŠTĚPÁNEK (1985)]

Label text (KMB): *In collibus Tergestinis a Hoppio lectus 1820*.

Acquired: 1 specimen. The identification of plants on the sheet is problematical. There are two plants and a third plant has probably been removed. Only one bears a designation, the other is without designation. It is impossible to tell whether Hoppe´s plant is the one without designation or the plant removed.

Duplicates: BP – only the label.

Note: Not in PICK (1872). According STAFLEU (1979) taxa were published in *Tagebuch einer. Reise nach der Kusten des adriatischen Meeres* issued 1817, 1818 in the exsiccate series *Plantae phanerogamae gramini et cryptogamicae selectae*. The *Index Kewensis* cites a previous isonym *L. taraxacoides* Hoppe et Hornschuch ex STURM *Deutschl. Fl.*, Hft. 41, 1821.

Leontodon tenuifolium **Hoppe et Hornshuch,** ex STURM *Deutschl. Fl.,* Hft. 41, 1821

[=*Taraxacum tenuifolium* agg. (det. Kirschner 1987]

Label text (KMB): *In pratis Tergestinis*.

Acquired: 1820, 1 specimen.

Duplicates: Not seen.

Note: Not in the PICK (1872).

Lepidium brevicaule **Hoppe,** ex MERT**.** & KOCH *Deutschl. Fl.,* ed. 3., **4:** 519, 1833.

[= *Hutchinsia brevicaulis* Hoppe ex Spreng., syn. *Hutchinsia alpina* subsp. *brevicaulis* (Hoppe ex Spreng.) Arcangeli]

Label text (KMB)*: Diagn. siliculis obtusis in summis alpibus*.

Acquired: 1820, 2 specimens, not distinuished from one another.

Duplicates: Not seen.

Note: Not in PICK (1872). Hoppe in *Flora* 10, **2:** 564, 1827 added only the statement "*...ist gewiss eine sehr eigenthümliche Species*" to the name, without description.

Luzula albida **b. *rubella brevicaule* Hoppe,** ex MERT. & KOCH *Röhl Deutschl. Fl.* **2:** 593, 1826.

[= *L. luzuloides* subsp. *rubella* (Hoppe ex Mert. et Koch) Holub *Folia Geobot. Phytotax.* **18(2):** 205(1983): 1983]

Label text (KMB): *Hoppe Herb viv. pl. graminearum*.

Text of the original printed label: *67. Luzula albida 3. rubella H. In alpibus Carinthiacis, e.g. in alpe Pasterze. Augusto.*

Acquired: 2 specimens.

Duplicates: GZU 32771, M.

Note: PICK (1872) no. 2563. (= Herbarium vivum plantarum graminearum.)

***Luzula alpina* Hoppe,** in Sturm *Deutschl. Fl.* Heft. 77, No. 6, 1839
[= name in universal current use]

Label text (KMB): *Hoppe Herb. viv. pl. gramin.*
Text of the original printed label: *108. Luzula campestris alpina Hp. In graminosis apricis alpinis, auf den Alpen bey Heiligenblut. Junio.*
Acquired: 2 specimens.
Duplicates: Not seen.
Note: Pick (1872) no 2567. The left plant of the specimen was chosen by Kirschner (Kirschner et al. 1988) as lectotypus. (= Herbarium vivum plantarum graminearum.)

***Mentha sylvestris* b. *tomentosa* Hoppe,** *in schedis*

Label text (KMB): *Tergesti Hoppe 1820.*
Acquired: 1 specimen.
Duplicates: Not seen.
Note: Not in Pick (1872).

***Mercurialis ovata* Sternberg et Hoppe,** *Denkschrift. Bot. Ges. Regensb.* **1:** 170, t.4, 1815.
[= name in universal current use]

Label text(KMB): *In saxosis Tergesti.*
Acquired: 1820, 2 specimens.
Duplicates: GZU 064412.
Note: Pick (1872) no. 2182.

***Pimpinella rubra* Hoppe et Schleicher,** ex Spreng. in Schult. *Syst. Veg.* **6:** 384, 1820.
[= *Pimpinella major* (L.) Huds.]

Schleicher´s original printed label: *34. Pimpinella rubra Hopp. Hall. n. 785. beta. Copiose in pratis subalpinis et montanis.*
Acquired: 1 specimen.
Duplicates: It is Schleicher´s, not Hoppe´s, specimen.
Note: Not in Pick (1872),.

***Plantago atrata* Hoppe,** *Bot. Taschenb.* 85, 1799.
[= name in universal current use]

Label text (KMB): *als Plantago atrata von Hoppe.*
Acquired: 1 specimen.

Duplicates: GZU 64447.
Note: Pick (1872) no. 2053.

***Plantago capitata* Hoppe et Hornschuh,** ex Sternberg *Flora* **9(1) Beil.:** 72, 1826 nom. illeg. non Ten. *Plantago capitata* Ten. *Fl. Nap.* **1:** Prodr. 59, 1811–1815, non vidi
[= P. *argentea* Chaix. in Vill.]

Label text (KMB): *in Tergesti pratis montosis.*
Acquired: 1820, 2 specimens.
Duplicates: Not seen.
Note: Not in Pick (1872). *Plantago capitata* Sternberg: a description is given in text and the new taxon is compared with *P. lanata* Portenschl.: "*...haben zwar in der Form der Wurzelblatter und dem ganzen Habitus große Aehnlichkeit;°allein abgesehen, dass erstere [capitata] fast glatt, die zweite [lanata] aber bedeutend wollig ist, zeigt sich auch in dem Blüthenstand einige Verschiedenheit, der bei ersterer vollkommen kugelig ist, bei der zweiten etwas gedehnt in die Aehrenform überzugehen scheint, so dass sie, wenn nicht als selbständige Arten, doch als wohl unterscheidbare Varietäten bestehen können*".

***Poa alpina* var. *minor* Hoppe,** *in schedis*

Label text (KMB): *Hoppe Herb. viv. pl. graminearum.*
Text of the original printed label*: 6. Poa alpina ß. minor. H. In rupestribus summarum. alpinum Carinthiacarum, e.g. der Gamsgrube an obersten Pasterzen-gletscher. Augusto.*
Acquired: 1 specimen.
Duplicates: BP 471825.
Note: Pick (1872) no. 3021. The name was published by Koch *Syn.* 803, 1837 with no indication of Hoppe´s name. "*P. alpina ă minor* Gaud." is mentioned). (= Herbarium vivum plantarum graminearum.)

***Pulsatilla montana* (Hoppe) Reichenb.** *Fl. Germ. Excurs.* 733, 1832
[= *Anemone montana* Hoppe, ex Sturm *Deutschl. Fl.* Heft 90. N. 2, 1845); name in universal current use]

Label text (KMB): *Diese Pflanze gab Hoppe mit Hornschuh 1820 als Pulsat. montana heraus. In sylva lipizensi Tergesti 1820.*
Acquired: 1 flowering specimen + 1 leaf + upper part of one fruiting plant
Duplicates: not seen
Note: In Pick (1872) as *Anemone montana* Hoppe with no. 20

***Ranunculus acris* â *latifolius* Hoppe,** *in schedis*

Label text (KMB): *In pratis alpinis*.
Acquired: 1820, 1 specimen + 1 upper part of the plant with flowers.
Duplicates: Not seen.
Note: Not in PICK (1872).

***Ranunculus hornschuchii* Hoppe in Sturm,** *Deutschl. Fl.*, Hft. 46, No. 11, 1826.
[= *R. breyninus* Crantz, syn. *R. oreophilus* Bieb.]

Label text (KMB): *In monte Nanas in Carniolia Conf. Fl. No. 41.9.*
Acquired: 1820, 1 specimen.
Duplicates: Not seen.
Note: Not in PICK (1872).

***Ranunculus rigidus* Hoppe,** *in schedis*

Text of Hoppe´s original handwritten label: *Ranunculus rigidus. Crome, Hopp. bot. Tasch. 1803.*
Acquired: 1 specimen.
Duplicates: Not seen.
Note: Not in PICK (1872).

***Ranunculus traunfellneri* Hoppe,** *Flora* 1, **2:** 731, 1818, HOPPE in STURM *Deutschl. Fl.,* Hft. 46, 1826. (non vidi).
[= *R. alpestris* subsp. *traunfellneri* (Hoppe) Rchb., name in current use.]

Label text (KMB): *In alpe Bodenthal von Hoppe 1820.*
Acquired: Problematic designation of plants on the sheet, plant name deleted?
Duplicates: GZU 055615.
Note: PICK (1872) no 54.

***Scorzonera alpina* Hoppe in Sturm,** *Deutschl. Fl.,* Hft. 51, 1828, nom. illeg. non. POLLINI *Viagg. Lago di Garda* 100, 1816
[= *Scorzonera aristata* Ramond ex DC. in Lam. et DC.]

Label text (KMB): *In Carinthiae alpibus. Von Hoppe selbst als Scorzonera alpina Hoppe. 1821.*
Acquired: 1821, 1 specimen.
Duplicates: Not seen.
Note: PICK (1872) 1462.

***Senecio scopolii* Hoppe et Hornsch.,** ex Bluff. & Fingerh. *Comp. Fl. Germ.*, ed. 1, 2: 380, 1825.
[= *S. lanatus* Scop. non L., name in universal current use.]

Label text (KMB): *In Tergesti pratis saxosis.*
Acquired: 1820, 2 ex (rosette of bottom leaves + upper part).
Duplicates:, M 0, BP 0.
Note: Not in Pick (1872).

***Soldanella minima* Hoppe,** ex Sturm *Deutschl. Fl.* Abt. 1, Band 5, Hft. 20, 1806.
[= name in universal current use]

Label text (KMB): *von Hoppe* (1 ex, designated with circle). *1820 in alpe Bodenthal Hoppe* (1 ex, designated with two circles).
Acquired: 1820, 1+1 specimen.
Duplicates: Not seen.
Note: Pick (1872).

***Tofieldia capitata* Hoppe,** ex Michl. *Flora* **3:** 314, 1820.
[= *T. calyculata* (L.) Wahlenb.]

Label text (KMB): *Hoppe Herb. vivum pl. graminearum*.
Text of the original printed label: *76. Tofieldia palustris capitata H. In paludibus turfosis Salisburgi, e.g. in palude prope Ursprung. Augusto.*
Acquired: 2 specimens.
Duplicates: M.
Note: Pick (1872) no. 2510. (= Herbarium vivum plantarum graminearum.)

***Tofieldia palustris rubescens* Hoppe,** *in schedis*

Text of the original printed label: *75. Tofieldia palustris rubescens Hoppii. In alpibus Carinthiacis, c*. [sic!] *g. auf der Margarityen. Augusto.*
Label text (KMB): *74.* [sic!] *Hoppe herb. viv. pl. graminearum*.
Acquired: 1 specimen.
Duplicates: M.
Note: Pick (1872) no. 2511. (= Herbarium vivum plantarum graminearum.)

***Tofieldia racemosa* Hoppe et Hornsch.,** *Flora* **4:** 189, 1821.
[= *T. cylyculata* (L.) Wahlenb.]

Label text (KMB): *Hoppe Herb. viv. pl. graminearum*.
Text of the original printed label: *86. Tofieldia palustris racemosa H. In graminosis montosis, e.g. am Kühberge prope Salisburgum. Junio.*

Acquired: 5 specimens.

Duplicates: Not seen.

Note: in PICK (1872) no. 2512. An invalid combination *Tofieldia racemosa* (Walter) BRITTON, STERNS & POGGENB. *Prelim. Cat.* 55. 1888 (*Melanthium racemosum* Walter = *T. pubens* Willd., 1808) has been published. (= Herbarium vivum plantarum graminearum.)

***Turritis rupestris* Hoppe,** ex ROEHL. *Deutschl. Fl.,* ed. 2, 358, 1812.
[= *Arabis ciliata* R. Br., syn. *Arabis corymbiflora* Vest]

Label text (KMB): *Von Untersberg.*

Text of the original written label: *Turritis rupestris Hoppe Bot. Tasch. 1808*.

Acquired: 1 specimen.

Duplicates: Not seen.

Note: in the PICK (1872) as *Arabis rupestris* with no. 195. There is an invalid homonym *Arabis rupestris* Nutt., ex TORR. & GRAY *Fl. N. Am.* **1:** 81, 1838 [=*A. pycnocarpa* Hopkins var. *glabrata* (Torr. et Gray) Hopkins].

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