Institut für Biologie, Institutsbereich Geobotanik und Botanischer Garten der Martin-Luther-Universität Halle-Wittenberg

Type specimens of the Ranunculaceae in the Herbarium of the Martin-Luther-University Halle-Wittenberg (HAL)

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Abstract: HOFFMANN, M.H. 1998: Type specimens of the Ranunculaceae in the Herbarium of the Martin-Luther-University Halle-Wittenberg (HAL). Schlechtendalia 1: 19-22.
An annoted checklist is presented of type specimens belonging to the Ranunculaceae deposited in the herbarium of the Martin-Luther-University Halle-Wittenberg (HAL). The binominals are arranged alphabetically. Beside the listed names commentaries dealing with type locality, typifications, previous annotations, and synonymy are added. As far as they could be ascertained, currently adopted names are furnished at the end of each paragraph. Twenty-five entries concern type material. Three of the specimens cited are holotypes, one collection is a lectotype, three are isotypes, five are isolectotypes, and nine collections are recognized as syntypes. The status of a few specimens remain unclear, they are listed separately.

Zusammenfassung: HOFFMANN, M.H. 1998: Type specimens of the Ranunculaceae in the Herbarium of the Martin-Luther-University Halle-Wittenberg (HAL). Schlechtendalia 1: 19-22.
Die Typus-Belege der Ranunculaceae des Herbariums der Martin-Luther-Universität Halle-Wittenberg (HAL) sind alphabetisch in einer annotierten Liste zusammengefaßt. Für jeden Beleg werden Herkunft, Typisierung, Aufschriften auf den Herbaretiketten, sowie Bemerkungen anderer Autoren wiedergegeben. Der gültige Name der jeweiligen Sippe wird, sofern er zweifelsfrei bekannt ist, aufgeführt. Fünfundzwanzig Belege gehören zu Typusaufsammlungen, darunter befinden sich 3 Holotypen, 1 Lectotypus, 3 Isotypen, 5 Isolectotypen und 9 Syntypen. Einige Belege konnten noch nicht zweifelsfrei typisiert werden, sie wurden in einem eigenen Abschnitt aufgeführt.

Introduction

The botanical collection of the Martin-Luther-University, Halle/Saale, is only a medium-sized herbarium, but rich in authentic specimens, mostly from D.F.L. von Schlechtendal's herbarium. This herbarium was purchased by the university in 1866 after his death (WERNER 1988).
The folders of this herbarium are arranged according to the system of Endlicher's „Enchiridion botanicum" (1841). The numbering system has been introduced after the World War II.
Each entry in the checklist consists of the following parts:
1) The original name of species and a complete author citation,
2) Type localities of the specimen(s), annotations, previous typifications, locations of syntypes (as far as known),
3) The currently adopted name, partly with reference to monographic works.

Annotated checklist

Adonis cyllenea Boiss., Heldr. & Orph. in Boissier, Diagn. Sér. II, 5: 5, 1856.
„Orphanides 447, in regione media montis Ziriae (Cyllene) prope Prioni (rare), alt. 4300', 23. apr/5. maji 1854". (syntype: HAL 076449, other syntypes: G-BOISS, LD).

Adonis persica Boiss., Diagn. Sér. I, 6: 4, 1846.
„Kotschy 57, prope pagum Gere inter Abuschir et Schiras, 15. Mart. 1842". (isolectotype: HAL 076447, lecto-: G-BOISS, other isolecto-: W). - *A. microcarpa* subsp. *persica* (Boiss.) H. Riedl.

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Anemone antucensis Poepp., Frag. Syn.: 27, 1833.
„Poeppig 751 [written by E. F. Poeppig], In Chil. austr. sylv. alpin. Andes de Antuco, Decbr. lecta" (isolectotype: HAL 077581, lecto-: G, LOURTEIG 1951; other isolecto-: BM, P).

Aquilegia anemonoides Willd., Ges. Nat. Fr. Berl. Mag. V., 401, t. 9, f. 6, 1811.
„*Aquilegia anemonoides* Willd., e Herb. Pallas ..., Willdenow dedit. [front of label]; *Aquilegia* ? rarissima planta in summis rupibus profesti... in alp... cor... (Pallas) [backside of label, written all by D.F.C. von Schlechtendal]. (type: HAL 063574). The three specimen are very probably duplicates of the type. - *Paraquilegia anemonoides* (Willd.) Ulbr.

Atragene wenderothii Schltdl., Linnaea 11: 650, 1837.
„*Atragene wenderothii, Atragene austriaca* Wender... [written by D.F.L. von Schlechtendal]" (type: HAL 79942). - *Atragene alpina* L.

Batrachium bachii Wirtg., Verhandl. Preuss. Rheinl., 2, 22, 1846.
„*Batrachium bachii* Wirtg. In dem Saynbache zw. Sayn u. Flensburg unweit Coblenz in Menge. ... Wirtgen [possibly written by Wirtgen]". (type: HAL 063569).

Ranunculus aemulans O. Schwarz, Mitt. Thüring. Bot. Ges. 1: 129, 1949.
„Flora thuringiaca: Weimar: Gebüsche der W. Hälfte des Alten Friedhof, auf Kalkboden, truppweise gesellig auf ziemlich trocknem Boden, 28.4.1947, leg. O. Schwarz, Typus!" (isotype: HAL 064298).

Ranunculus chamissonis Schltdl., Animid. Ran. 1: 12, 1819.
„ *Ranunculus Chamissonii* nob. In sinu St. Laurentii leg. amiciss. de Chamisso.[written by D.F.L. von Schlechtendal]" (holotype: HAL 063558 [1sheet with 7 specimens]). - *R. glacialis* L.

Ranunculus distrias Steud. ex Rich., Tent. Fl. Abyss. 1: 7, 1847.
„Schimper 1258, in monte Bachit prope Demerki locis uliginosos, graminosis, 15. Aug. 1838" (syntype: HAL 081723). - *Ranunculus cuneilobus* var. *distrias* (Steud. ex Rich.) Engler (CUFODONTIS 1953).

Ranunculus glandulifer Poepp., Frag. Syn.: 28, 1833.
„No. 828 [written by E.F. Poeppig]" (isolectotype: HAL 056664, lecto-: G, LOURTEIG 1951). - *Ranunculus peduncularis* Sm. (LOURTEIG 1951).

Ranunculus halophilus Schltdl., Animid. Ran. 1: 23, 1819.
„*R.* a Pallasio in Sibiria lectus ... sub nomine *R. salsuginosi* asserratus pygmaea similis at satis diversus. *R. halophilus* nob. [written by D.F.L. von Schlechtendal]" (holotype: HAL 063559 [1 specimen]).

Ranunculus hookeri Schltdl., Linnaea 9: 610, 1834.
„*Ranunculus* ... lutea. In graminosis pr. Jalapam Maj. 29 [written by C.J.W. Schiede, 1 specimen]", „*Ranunculus* petali 5 aureum. In graminosis pr. Laguna. Jul. 29 [written by C.J.W. Schiede, 1 specimen]", „*Ranunculus hookeri. R. fascicularis* Mühlenbg. Linn. V. p. 210 n. 425. cfr. flora bor. americ. ab Hookero edita [written by D.F.L. von Schlechtendal, 1 specimen]" (syntypes: HAL 063555, 063556, 063557).

Ranunculus lenormandi Schultz, Flora 20: 726, 1837.
„Fl. Galliae et Germaniae exsiccata.- 2. Cent. 17. Juin 1837. Dans les mares ... aux environs de Vire (Calvados); rec. Lenormand" (syntype: HAL 064846). - *R. omiophyllus* Ten.

Ranunculus nendtwichii Frivald., Flora 19, 437, 1836.
„*Ranunculus nendtwichii* Frivaldszky. Rumelia. Frivaldszky." (type: HAL 063572). The author cited „Rumelia" in the protologue.

Ranunculus obtusatus Poepp., Frag. Syn.: 28, 1833.
„CII. *Ranunculus obtusatus* Pppg. N. 204 Diar. [written probably by A. v. Chamisso]"

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(isolectotype: HAL 061970, lecto-: G, LOURTEIG 1951). Type citation: „Diar. I. 204". The annotation „No. 204 Diar." indicates that this specimen in HAL belongs to the type collection. - *Ranunculus bonarensis* var. *trisepalus* (Gill. ex Hook. & Arnott) Lourt. (LOURTEIG 1951).

Ranunculus oligocarpos Hochst. ex Rich., Tent. Fl. Abyss. 1: 5, 1847.

„Schimper 553, in monte Bachit prope Enschedcap, 3. Aug. 1838". (syntype: HAL 063564).

Ranunculus opimus O. Schwarz, Mitt. Thüring. Bot. Ges. 1: 131, 1949.

„Flora thuringiaca: Weimar: links der Straße nach Gelmeroda; nasse Senke, 14.5.1947, leg. O. Schwarz, Typus!" (isotype: HAL 064307).

Ranunculus pallasii Schltdl., Animid. Ran. 1: 15, 1819.

„*R. Pallasii* nob. In sinu Escholzii et bonae spei inque insula St. Georgii, leg. amiciss. de Chamisso. [written by D.F.L. von Schlechtendal]" (holotype: HAL 063560 [1 sheet with 2 specimens]).

Ranunculus pedatifidus Schltdl., Animid. Ran. 2: 18, 1820, non *R. pedatifidus* Sm. in Rees, Cyclopedia 29, n. 72, 1815.

„*R. pedatifidus.* In sinu St. Laurentii leg. de Chamisso. [written by D.F.L. von Schlechtendal]" (lectotype: HAL 061971).

Ranunculus protractus Steud., Allg. Bot. Zeitung 39: 406, 1856.

„*Ranunculus pubescens*? Ad salsas et secus rivulas in arenosis udis Quillata. Herb. Bert. nr. 1276. [writer unknown]" (syntypes: HAL 069031, other syn-: G, OXF, P). The affiliation with *R. chilensis* DC. is questionable (LOURTEIG 1951).

Ranunculus pseudopimus O. Schwarz, Mitt. Thüring. Bot. Ges. 1: 127, 1949.

„Flora thuringiaca: Weimar: Alter Friedhof b. d. Fürstengruft, 7.5.1947, leg. O. Schwarz, Typus!" (isotype: HAL 064305).

Ranunculus schimperianus Hochst. ex Rich., Tent. Fl. Abyss. 1: 4, 1847.

„Schimper 1175, in humidis prati montani prope Enschedcap, 21. Mai 1838". (syntype: HAL 063563). - *R. simensis* var. *schimperianus* (Hochst. ex Rich.) Schube ap. Engler (CUFODONTIS 1953).

Ranunculus sericans Steud., Allg. Bot. Zeitung 39: 405, 1856.

„W. Lechler pl. chilens. Ed. R. F. Hohenacker. 517. Prope coloniam Arique in prov. Valdivia." Annotation of D.F.L. von Schlechtendal: „*R. chilensis* DC." (syntype: HAL 069032). Steudel mentioned a second type collection: „Bertero 584". The affiliation with *R. chilensis* DC. is questionable (LOURTEIG 1951).

Ranunculus stagnalis Hochst. ex Rich., Tent. Fl. Abyss. 1: 5, 1847.

„Schimper 554, in agris stagnantibus montis Bachit, 3. Aug. [1842?]". (syntype: HAL 063562).

Ranunculus stenocarpus Steud. ex Rich., Tent. Fl. Abyss. 1: 6, 1847.

„Schimper 985, ad rivas regionis altioris montis Bachit, 24. Juni 1838". (syntype: HAL 063561). - *R. tembensis* Fres. (CUFODONTIS 1953).

Possible type collections

Adonis villosa Ledeb., Ind. Hort. Dorp. Suppl., 1, 1824.

„*Ranunculus villosa* m. [written by C.F. von Ledebour], Altai Ledebour dt. [possibly written by D.F.L. von Schlechtendal]". The sheet consists of additional labels, eg. „Herbar. Bung. *Adonis villosa* Ledeb.", „*Adon. villosa*...(Lessing) [handwriting unknown]" (HAL 076477)

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Anemone sphenophylla Poepp., Frag. Syn.: 27, 1833.
„Cr. in Chile boreal. collibus graminos. ad Concon". (possible type specimen: HAL 061969, BM, G, P) - *A. decapetala* Ard. (LOURTEIG 1951).

Ranunculus amoenus Ledeb., Fl. Alt. 2, 320, 1830.
„*Ranunculus amoenus* m. [written by C.F. von Ledebour], Altai Ledebour dt. [possibly written by D.F.L. von Schlechtendal]". (HAL 063566).

Ranunculus longicaulis Ledeb. ex Spreng., Tent. Suppl. Syst., 15, 1828.
„*Ranunculus longicaulis* m. [written by C.F. von Ledebour], Altai Ledebour dt. [possibly written by D.F.L. von Schlechtendal]". (HAL 063570).

Ranunculus minutiflorus Bert. ex Philippi, Linnaea 28: 661, 1856.
Type citation: „In provinciis centralibus Republicae occurrit". The specimen HAL 063565 „*Ranunculus minutiflorus* Bert., Valdivia [written by R.A. Philippi]" belongs probably to the type material.

Ranunculus salsuginosus Pallas, Reise russ. Reich. III, 213, 1776.
„*R. salsuginosus*. In Sibiria legit Pallas. Willd. dedit [written by D.F.L. von Schlechtendal]. These two specimens (HAL 063573) are possibly duplicates of the type material.

Other authentic collections

„***Anemone bicolor*** Poepp."
„Poeppig Diar. 104. In graminos. umbros. los Chorillos, monte de Quintero. Aug. flor." (HAL 069030). „*Anemone bicolor* Poeppig" was invalidely published by the author (in sched.). PRITZEL (Linnaea 15: 624, 1841) cited the name merely as a synonym of *A. decapetala* (Art. 34.1, ICBN 1994) - *A. decapetala* Ard. (PRITZEL 1841)

„***Ranunculus litoralis*** Schltdl. ex Lechl.".
„W. Lechler pl. chilens. 691, In provincia Valdivia. In litore arenoso Oc. pacif. pr. Morro Gonzales, Dec. m." The name was not validely published by Lechler, Berb. Am. Austr., p. 54, 1857, because he cited only the name without any description (Art. 32.1, ICBN 1994). (HAL 063575, CGE, P). - *R. acaulis* Banks & Sol. ex DC. (LOURTEIG 1951).

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