

Supplementary material

Supplementary material Appendix 1.

Specimens examined (Hungary): Tokaj Mts.: Boldogkőváralja: Vár-hegy, 22 June 1910, *Thaisz* (BP 562696, SZIE 0111) – Füzér, Vár-hegy: 2–4 July 1937, *Soó* (CL 533250, BP 711401, BP 711407); 24 July 1938, *Kiss* (BP 595255); 7 September 1947, *Boros* (BP 432276); 7 (“8”) September 1947, *Vajda* (BP 642587); 8 October 1949, *Simon & Jakucs* (BPU 1170); 15 July 1950, *Pócs* (BP 204613, BP 204615, except for the sterile fragment) [?]; 7 September 1951, *Kárpáti* (BP 701264, BP 701265); 25 August 1952, *Papp* (BP373795, BP 373800, BP 373843, EGR *s. n.*); 22 September 2011, *Somlyay* (BP 712107, BP 712108); 3 July 2013, *Somlyay & al.* (BP *s. n.*) – Hejce: Farkas-hegy, 10 July 1936, *Kiss* (BP 595246) – Pálháza: *s. loc.*, 23 July 1951, *Jávorka* (BP 81402) – Pusztafalu: *s. loc.*, 25 June 1933, *Jávorka* (BP 595256); Percecse-bükk, 22 September 2011, *Somlyay* (BP 712093, BP 712095) – Sátoraljaújhely: Kis-Szár-hegy, 6 July 1932, *Hulják* (SZIE 4241); Sátor-hegy, 26 July 1933, *Á. Kiss* (BP 562690) – Tállya: Kopasz-hegy, 12 July 1938, *Kiss* (BP 595254) — Torna Karst: Aggtelek: Káposztás-bérc, 20 September 2011, *Somlyay* (BP 712111) – Bódvarákó, Esztramos: 4 June 1933, *Hulják* (BP 592329, BP 702024); 20 September 1950, *Jakucs & Kulcsár* (DE *s. n.*); 17 May 1952, *Papp* (BP 478959, BP 478960); 21 September 2011, *Somlyay* (BP 712102, BP 712103) – Jósvafő: Nagy-oldal, 16 June 1953, *Boros* (BP 432869) – Szögliget, Szádvár: 24 May 1908, *Hulják* (BP 221587) — Uppony Mts.: Uppony: Három-kő, 4 August 1927, *Zólyomi* (DE *s. n.*); *loc. cit.*, 28 August 2004, *Beránek* (BP 692172); *loc. cit.*, 25 May 2012, *Somlyay & Sulyok* (BP *s. n.*); Upponyi-szoros, 7 July 1934, *Boros* (BP 711399, BP 711400); *loc. cit.*, 2 July 1960, *Boros* (BP 448768, BP 448769); *loc. cit.*, 25 May 2012, *Somlyay & Sulyok* (BP *s. n.*) — Bükk Mts.: Bükkzsérc: Mákszem, 27 May 2014, *Somlyay & Sulyok* (BP *s. n.*) – Cserépfalu: Fény-kő, 27 May 2014, *Somlyay & Sulyok* (BP *s. n.*); Füzér-kő, 11 May 1982, *Szujkó-Lacza* (BP 637331); Kis-Galya, 28 May 2014, *Somlyay & Sulyok*

(BP s. n.); Kis-Piliske, 28 May 2014, *Somlyay & Sulyok* (BP s. n.); Nagy-Piliske, 28 May 2014, *Somlyay & Sulyok* (BP s. n.); Kút-hegy, 29 July 2014, *Somlyay & al.* (BP s. n.); Perpác, 29 July 2014, *Somlyay & al.* (BP s. n.); Ódor-hegy (Ódorvár), 7 June 1930, *Bartha* (BP 595257); *loc. cit.*, 15 August 1951, *Papp* (BP 373841); *loc. cit.*, 17 May 1983, *Kováts* (BP 617110); *loc. cit.*, 27 August 2011, *Somlyay* (BP 711334) – Cserépváralja: Kis-Farkas-kő, 11 June 1933, *Boros* (BP 432238); *loc. cit.*, 27 August 2011, *Somlyay* (BP 711343, BP 711344, BP 711345) – Eger: Nagy-Eged, 4 September 1911, *Tuzson* (BP 600890); *loc. cit.*, 10 July 1949, *Lengyel* (BP 301839); Pajados, s. d., *Borbás* (BP 592616) – Felsőtárkány: Bujdosó-kőbérc, 10 September 2013, *Somlyay & Sulyok* (BP s. n.); Csákpilis-lápa, 18 May 1983, *Kováts & Dobolyi* (BP 614862); Kőköz, 10 September 2013, *Somlyay & Sulyok* (BP s. n.); Nagy-Tiba, 29 July 2014, *Somlyay & al.* (BP s. n.); Vár-hegy: June 1945, *Lengyel* (BP 300018); *loc. cit.*, 24 April 2011, *Somlyay* (BP 711346); *loc. cit.*, 29 July 2014, *Somlyay & al.* (BP s. n.) – **Kács**: Zsendice, 19 May 2013, *Somlyay* (BP 728907) – Kisgyőr: Alsó-Kecske-vár, 26 June 2014, *Somlyay & Sulyok* (BP s. n.); Ásott-fa-tető, 6 October 1982, *Szujkó-Lacza & Kováts* (BP 637330); Galambic, 26 June 2014, *Somlyay & Sulyok* (BP s. n.); Kőlyuk-galya, 21 June 1938, *Soó* (BPU 1172); Kőrös, 26 June 2014, *Somlyay & Sulyok* (BP s. n.) – Mályinka: Buzgó-kő, 28 July 2014, *Somlyay & Sulyok* (BP s. n.); Kemesnye, 29 August 2012, *Somlyay & Sulyok* (BP s. n.) – Miskolc: Alsóhámor, Molnár-szikla, 6 June 1909, *Hulják* (DE s. n.); *loc. cit.*, 24 May 2012, *Somlyay & Sulyok* (BP s. n.); *loc. cit.*, 11 September 2013, *Somlyay & Sulyok* (BP s. n.); Fehér-kő (“Fehérkőlápa”), July 1937, *Soó* (CL 533446); Magos-kő, 17 September 1951, *Papp* (BP 373807); Szinva-völgy, 21 June 1938, *Soó* (CL 533460[?]) – Nagyvisnyó: Vásárhely-kő, 29 August 2012, *Somlyay & Sulyok* (BP s. n.) — Mátra Mts.: Bátortereny: Ágasvár, 15 May 2012, *Somlyay & Magos* (BP 728077, BP 728078); Gaskó, 11 September 2011, *Somlyay & Sramkó* (BP 711336) – Gyöngyös: Felső-Peres, 13 August 2000, *Molnár* (DE s. n.); Kecske-bérc, 17 June 1952[?], *Jávorka* (BP s. n.); *loc. cit.*, 1–6

September 1953, *Soó* (BPU 1167); *loc. cit.*, 6 June 2011, *Somlyay & Magos* (BP 711288, BP 211289); Remete-bérc, 5 June 1951, *Boros* (BP 432784); *loc. cit.*, 17 May 2012, *Somlyay & al.* (BP 728071); Sár-hegy: 10 September 2000, *Molnár* (DE s. n.); *loc. cit.*, 16 August 2012, *Somlyay & Magos* (BP 728069); Vályus-kút, 15 August 1931, *Boros* (BP 432522) – Gyöngyössolymos: Eremény-tető, 6 June 2011, *Somlyay & Magos* (BP 711285, BP 711286, BP 711287) – Gyöngyöstarján, Világos-hegy: 25 September 1949, *Papp* (BP 373802, EGR s. n.); 27 August 1958, *Boros* (BP 448756); 6 August 2000, *Molnár* (DE s. n.); 26 June 2011, *Somlyay & al.* (BP 211294, BP 211295, BP 711296, BP 711297, BP 211298) – Markaz: Kis-kő, 13 August 2000, *Molnár* (DE s. n.); *loc. cit.*, 27 June 2011, *Somlyay & al.* (BP 711333); Négyeshatár, 16 August 2012, *Somlyay & Magos* (BP 728068); Rókalyuk-tető, 12 September 2011, *Somlyay & al.* (BP 711347, BP 711348, BP 711349); Vár-hegy, 12 June 2014, *Somlyay & Magos* (BP 734832, BP 734833) – Mátraszentimre: Bárány-kő: 28 August 1958, *Boros* (BP 448745); *loc. cit.*, 27 June 2011, *Somlyay & al.* (BP 711331, BP 711332); Csóka-kő, 15 May 2012, *Somlyay & Magos* (BP 728074); Péter-hegyes, 16 August 2012, *Somlyay & Magos* (BP 728066, BP 728067); Som-bérc (Csörgő-patak szurdoka), 15 May 2012, *Somlyay & Magos* (BP 728075, BP 728076) – Parád: Disznó-kő, 4 July 1931, *Boros* (BP 432521); *loc. cit.*, 10 May 1953, *Papp* (BP 373799); *loc. cit.*, 12 July 1991, *Jeney* (BP 672133); *loc. cit.*, 17 August 2012, *Somlyay & Magos* (BP 728061, BP 728062, BP 728063); Kis-Sas-kő, 6 June 2011, *Somlyay & Magos* (BP 711290, BP 291); Sas-kő, 6 June 1951, *Boros* (BP 432778, BP 432779); *loc. cit.*, 12 September 2011, *Somlyay & al.* (BP 711327, BP 711328); *loc. cit.*, 17 August 2012, *Somlyay & Magos* (BP 728064); Sor-kő, 6 June 2011, *Somlyay & Magos* (BP 711292, BP 711293); Szállás-hegy, 6 September 2011, *Magos* (BP 711337) – Pálosvörösmart: Tekeres-kő, 17 May 2012, *Somlyay & al.* (BP 728070); Tekeres-völgy, 17 May 2012, *Somlyay & al.* (BP 728072, BP 728073) – Pásztó: Háromkopasz, 14 July 2011, *Somlyay & Magos* (BP 711329, BP 711330); Naszály-bérc, 23 April 1961, *Boros* (BP

448778); Vörös-kő-bérc, 18 August 2012, *Somlyay & Magos* (BP 728065) – Sirok: Gazos-kő, 15 September 2000, *Molnár* (DE s. n.) — Medves: Salgótarján: Boszorkány-kő, September 1937, *Máthé* (CL 533251); *loc. cit.*, 14 June 2011, *Somlyay & Sramkó* (BP 711318, BP 711319, BP 711320); Nagy-Salgó, 15 August 1927, *Lengyel* (BP 300022); *loc. cit.*, 30 May 1936, *Máthé* (BP 720023, SZIE s. n.); *loc. cit.*, 18 June 1936, *Boros* (BP 711398); *loc. cit.*, 14 June 2011, *Somlyay & Sramkó* (BP 711321, BP 711322) — Cserhát – Karancs: Becske: Szentpéter-hegy, 31 May 1951, *Kárpáti* (BP 701210) – Bercel: Berceli-hegy, 27 May 1956, *Boros* (BP 448741) – Héhalom: s. *loc.*, 29 July 1954, *Máthé* (SZIE s. n.) – Karancsalja: Ceberna-völgy, 12 October 1949, *Pénzes* (BP 377264) – Karancslapujtó: Kápolna-hegy, September 1937, *Máthé* [?] (CL 533445) – Nagybárcány: Hármashatár-hegy, 6 September 1958, *Boros* (BP 448743) – Szanda: Szanda-hegy, 28 September 1949, *Pénzes* (BP 377262) – Vác, Naszály: s. *d.*, s. *loc. I. Haynald* (BP 562712); 28 May 1921, *Tuzson* (BP 592630); 23[?] June 1923, *Soó* (DE s. n.); 29 June 1923, *Boros* (BP 432446); 29 June 1923, *Soó* (BP 562687); 29 September 1929, *Boros* (BP 432444) ; 20 May 1956, *Vida* (EGR s. n.) — Börzsöny Mts.: Perőcsény: Mogyorós-bérc, 27 September 1997, *Nagy* (BP 599566); Viski-bérc, 9 August 2014, *Somlyay & Nagy* (BP 734794) – Szokolya: Kecse-hát, 9 August 2014, *Somlyay & Nagy* (BP 734796); Magas Tax, 6 October 1918, *Boros* (BP 432442, BP 432443) – Verőce: Morgó-hegy – Királykő, 21 August 1901, *Filarszky* (BP 595229) — Pilis–Visegrád Mts.: Csobánka: Csúcs-hegy, 16 June 1946, *Andreánszky* (BP 592352); *loc. cit.*, 29 September 2012, *Somlyay* (BP 728192); Kis-Kevély, 9 May 2013, *Somlyay* (BP 728903); Oszoly, 5 July 1923, *Boros* (BP 432556); *loc. cit.*, 9 May 2013, *Somlyay* (BP 728904) – Dobogókő: s. *loc.*, 20 May 1995, *Bede Fazekas* (BP 693829, BP 693830) – Dorog: Kis-Strázsa-hegy, 3 May 1998, *Bauer* (BP 622726) – Dömös: Prédikálószték, 15 August 1921, *Boros* (BP 432216); Üstök-hegy, 20 July 1951, *Horánszky* (BP 628548); Vadálló-kövek, 5 September 1948, *Soó* (BPU 1173); *loc. cit.*, 5 September 1948, *Priszter* (BPU 13776); *loc.*

cit., 20 July 1951, *Horánszky* (BP 628544) – Esztergom: *s. loc.*, May 1860, *Feichtinger* (BP 562708); Dobogó, 12 June 1952, *Pócs* (BP 204539); *loc. cit.*, 26 September 1955, *Horánszky* (BP 628545); Szamár-hegy, 18 May 1952, *Boros* (BP 432533) – Pilisborosjenő: Ezüst-Kevély, 12 May 2013, *Somlyay* (BP 728905); Nagy-Kevély, May–June 1872, *Simonkai* (BP 562694, from two localities); *loc. cit.*, July 1901, *Degen* (BP 562719); *loc. cit.*, 16 July 1939, *Kárpáti* (BP 391008); *loc. cit.*, 10 July 1949, *Pócs* (BP 210843); *loc. cit.*, 6 October 2011, *Somlyay* (BP 712132); *loc. cit.*, 12 May 2013, *Somlyay* (BP 728906) – Pilisvörösvár: Cseresznyés-hegy (“352’ inter Klotildliget et Pilisszántó”), 17 May 1928, *Boros* (BP 432568, SZIE 4248) – Pomáz: Holdvilág-árok, 30 April 1950, *Priszter* (BPU 13781); Kis-Csikóvár, 10 June 1920, *Degen* (BP 304245); *loc. cit.*, 5 July 1923, *Á. Boros* (BP 432555); Nagy-Csikóvár: 20 July 1948, *Pénzes* (BP 375127); *loc. cit.*, 3 June 1953, *Horánszky* (BP 569886) – Pomáz – Szentendre, Kő-hegy: 30 May 1907, *Jávorka* (BP 562695); 19 July 1911, *Szurák* (BP 562700); August 1920, *Wagner* (BP 696806); 27 June 1952, *Papp* (BP 373827); 6 June 1943, *Boros* (BP 432589) – Szentendre: Asztal-kő (“Duboka Bara”), 8 July 1923, *Degen* (BP 304207, BP 304303); *loc. cit.*, 10 September 2004, *Barina* (BP 658423); Cseresznye-hegy, 24 June 2014, *Somlyay* (BP 734791); Dömör-kapu, 15 July 1900, *Degen* (BP *s. n.*) [?]; Kis-Hortoba (“Kishortobágy”), 18 August 1953, *Horánszky* (BP 569887); Orlovac, 4 June 1916, *Degen* (BP 304306); *loc. cit.*, 15 August 1920, *Degen* (BP 304240); Óvíz-völgy, 4 June 1916, *Andrasovszky* (BP 266894); Sas-kő: 5 May 1953, *Baráth & Terpó* (BP 701209); *loc. cit.*, 25 June 1953, *Baráth & Terpó* (BP 701211) – Tahitótfalu: Öreg-bükk-tető, 26 May 1932, *Szepesfalvy* (BP 198276); Vértes-hegy, 30 June 1951, *Pócs* (BP 203508, EGR *s. n.*); Vörös-kő, “Kőszikla teteje”, 6 May 1928, *Jávorka* (BP 562701); *loc. cit.*, 25 June 1950, *Papp* (BP 373832) – Visegrád: *s. loc.*, May–June 1872, *Simonkai* (BP 562694, from two localities); *s. loc.*, 12 May 1878, *Bohatsch* (BP *s. n.*); Vár-hegy, 2 July 1928, *Zsák* (BP 701321) — Buda Mts.: Buda, *s. loc.*: *s. d.*, *Sadler* (BP 562710); May 1865, *Entz* (BP 592470); *s. d.*, *Richter* (BP

59246); 1888, *Richter* (BP 595232); *s. d.* [ca 1890s], *Steinitz* (“Flora exsiccata Austro-Hungarica. 2447. *S. meridionalis.*”, BP 306587, BP 562692, BP 562717); 1897, *Bernátsky* (BP 562678); 14 May 1901, *Borbás* (BP 595212); 10 May 1913, *Lyka* (BP 300009) – Budapest: Budagyöngye, 14 September 1905, *Kocsis* (BP 266893, DE *s. n.*); Csúcs-hegy, 5 May 1918, *Degen* (BP 304235); *loc. cit.*, 29 September 2013, *Somlyay* (BP 729949); Diós-árok, 18 June 2011, *Somlyay* (BP 711339, BP 711340); Farkasrét, 21 March[?] 1923, *Miltényi* (SZIE 0181); Farkas-völgy, *s. d.*, *Hazslinszky* (BP 592369[?]); *loc. cit.*, 8 May 1856, *Bolla* (BP 595230); *loc. cit.*, 3 June 1875, *Staub* (BP 613922) [?]; *loc. cit.*, 5 and 9 May 1882, *Steinitz* (BP 562697, BP 592024); *loc. cit.*, 1 October 1882, *Steinitz* (BP 595228); *loc. cit.*, 13 July 1913, *Zsák* (BP 701202); *loc. cit.*, 15 August 1914, *Jávorka* (BP 562682); *loc. cit.*, July 1920, *Lengyel* (BP 300004); *loc. cit.*, 10 May 1923, *Soó* (DE *s. n.*) [?]; *loc. cit.*, 10 May 1923, *Miltényi* (SZIE 0180) [?]; *loc. cit.*, 10 May 1923, *Szabó* (SZIE 1740); *loc. cit.*, 17 May 1928, *Rigler* (DE *s. n.*); *loc. cit.*, 8 August 1950, *Siroki* (DE *s. n.*); Ferenc-hegy, 2 June 1918, *Boros* (BP 432560); Hármashatár-hegy, June 1900, *Thaisz* (BP 211653); *loc. cit.*, 21 May 1904, *Thaisz* (BP 595263, DE *s. n.*); *loc. cit.*, 21 May 1904, *Lengyel* (BP 300006); *loc. cit.*, 21 May 1904, *Mágoosy-Dietz* (BP 592368); *loc. cit.*, 1 June 1904, *Degen* (BP 562718); *loc. cit.*, 19 August 1914, *Filarszky & Jávorka* (BP 592629); *loc. cit.*, 9 May 1916, *Moesz* (BP 595238); *loc. cit.*, 28 July 1916, *Kümmerle & Jávorka* (“Flora Hungarica exsiccata Cent. VIII. No. 752. II.”, BP 432228, DE *s. n.*, SZIE 4247); *loc. cit.*, 7 May 1918, *Müller* (BP 432559); *loc. cit.*, 16 May 1920, *Degen* (BP 304244); *loc. cit.*, 4 May 1921, *Lengyel* (BP 300007); *loc. cit.*, May 1928, *Vajda* (BP 524329); *loc. cit.*, 31 May 1934, *Andreánszky & Ujhelyi* (BP 592606); *loc. cit.*, 30 June 1940, *Kárpáti* (BP *s. n.*); *loc. cit.*, 1 June 1947, *Soó* (BP 702571); *loc. cit.*, 1 June 1947, *Priszter* (BPU 13773); *loc. cit.*, 9 May 1948, *Priszter* (BPU 13811); *loc. cit.*, 19 September 1948, *Priszter* (BPU 13774); *loc. cit.*, 24–25 August 1950, *Siroki* (DE *s. n.*, SZIE *s. n.*); *loc. cit.*, 20 June 1955, *Jeney* (BP 672123); Hárs-hegy, June 1871, *Simonkai* (BP

562693, probably from three localities); *loc. cit.*, 4 October 1882, *Hermann* (BP 562713); *loc. cit.*, 10 May 1945, *Boros* (BP 432495); János-hegy, 11 May 1871, *Tauscher* (BP s. n., the right-hand fragments); *loc. cit.*, 25 May 1909, *Jávorka* (BP 562684); *loc. cit.*, 28 April 1918, *Degen* (BP 304233); *loc. cit.*, 30 April 1925, *Boros* (BP 432553); *loc. cit.*, 2 June 1929, *Kováts* (SZIE 4232); Kakukk-hegy, 28 July 1918, *Boros* (BP 432564); *loc. cit.*, 18 September 1934, *Kárpáti* (BP 391006); *loc. cit.*, 6 May 1936, *Andreánszky & Kárpáti* (BP 592626); *loc. cit.*, July 1984, *Siroki* (DE s. n.) [?]; Kecske-hegy, 6 June 2002, *Somlyay & Barina* (BP 639047); *loc. cit.*, 21 August 2011, *Somlyay* (BP 711335); Látó-hegy, 9 May 1948, *Priszter* (BPU 13772); *loc. cit.*, 14 August 1955, *Jeney* (BP 672111); *loc. cit.*, 13 September 2014, *Somlyay* (BP 734795); Lipótmező, June 1871, *Simonkai* (BP 562693, probably from three localities); *loc. cit.*, 19 May 1875, *Bohatsch* (BP 562707, except for the right-hand upper fragment); *loc. cit.*, “Apáthy-szikla”, 26 April 1953, *Soó* (DE s. n.); *loc. cit.*, “Vaskapu-hegy”, 21 August 2011, *Somlyay* (BP 711316); Madár-hegy, August 1922, *Wagner* (BP 696801); Mátyás-hegy, 2 June 1900, *Degen* (BP 21165[?]); *loc. cit.*, 5 October 2013, *Somlyay* (BP 729922); Ördög-orom, 10 May 1923, *Boros* (BP 432554); *loc. cit.*, 25 May 1924, *Degen* (BP 304304); *loc. cit.*, 26 August 2014, *Somlyay* (BP 734596); Pesthidegkút, 10 June 1956, *Károlyi* (BP 299486); *loc. cit.*, 4 August 1956, *Károlyi* (BP 299474, EGR s. n.); *loc. cit.*, “Kálvária-hegy”, 11 August 2011, *Somlyay* (BP 711310); Rupp-hegy, 28 July 1918, *Degen* (BP 304211); Sas-hegy, s. d.[18th cent.], *Wolny* (BP 562714); *loc. cit.*, 27 July 1883, *Hermann* (BP 562709); *loc. cit.*, 26 May 1891, *Perlaky* (BP 592608); *loc. cit.*, 5 May 1911, *Jávorka* (BP 562679, lectotype); *loc. cit.*, 18 May 1922, *Soó* (CL 533465); *loc. cit.*, 6 May 1925, *Lengyel* (BP 299999); *loc. cit.*, 18 May 1929, *Vajda* (BP 524332); *loc. cit.*, 1 June 1929, *Boros* (BP 432229); *loc. cit.*, 15 June 1935, *Soó* (CL 533466); *loc. cit.*, 11 August 1940, *Kárpáti* (BP s. n.); *loc. cit.*, 5 September 1943, *Kárpáti* (BP 701198); *loc. cit.*, 6 May 1945, *Boros* (BP 432626); *loc. cit.*, 15 May 1951, *Siroki* (DE s. n.); *loc. cit.*, 28 August 1957, *Siroki*

(DE s. n.) [?]; *loc. cit.*, 30 July 2011, *Somlyay* (BP 711299, BP 711300, BP 711301, BP 711302, BP 711303); *loc. cit.*, 8 September 2014, *Somlyay* (BP 734599, BP 734600); Sváb-hegy (Széchenyi-hegy), 5 September 1897, *Grósz* (BP 592360); *loc. cit.*, 17 May 1908, *R. Boros* (BP 432561); *loc. cit.*, 3 October 1909, *Jávorka* (BP 595227); Tábor-hegy, 6 August 1918, *Boros* (BP 432566); *loc. cit.*, 20[?] May 1920, *Degen* (BP 304242); *loc. cit.*, 27 June 1920, *Boros* (BP 432567); *loc. cit.*, 4 June 1925, *Degen* (BP 304236); *loc. cit.*, 22 July 1928, *Boros* (BP 432551); *loc. cit.*, 21 July 1944, *Jávorka* (BP 80872); *loc. cit.*, 3 July 1947, *Pénzes* (BP 376072); *loc. cit.*, 9 August 1948, *Pénzes* (BP 375129); *loc. cit.*, 17 May 2014, *Somlyay* (BP 734803); Törökvész, 2 July 1948, *Pénzes* (BP 375118, BP 375119); Vadaskert (Állatkerthegey), 29 May 1878, *Szépligeti* (BP 562698); *loc. cit.*, 20 September 1912, *Jávorka* (BP 562680); *loc. cit.*, “Homok-hegy”, 11 August 2011, *Somlyay* (BP 711313, BP 711314, BP 711315); Vihar-hegy, 17 July 1925, *Degen* (BP 304239); *loc. cit.*, 29 September 2013, *Somlyay* (BP 729947); Zugliget (Auwinkel, Sauwinkel), 19 May 1835, *Albach* (BP, hb. Alb. 3608); *loc. cit.*, May 1847, *Dorner* (BP 228357, mixed with *S. semiincisa*); *loc. cit.*, “Fasan”, 18 July 1849, *Dorner* (BP 228356); *loc. cit.*, 1864, *Dorner* (BP 228358); *loc. cit.*, June 1871, *Simonkai* (BP 562693, probably from three localities); *loc. cit.*, 3 July 1887, *Czakó* (SZIE 4237, mixed with a fragment of *S. semiincisa*); *loc. cit.*, 14 May 1901, *Borbás* (BP 701207); *loc. cit.*, “Tündér-hegy”, 22 August 1918, *Boros* (BP 432563); *loc. cit.*, 22 August 1923, *Degen* (BP 304204); *loc. cit.*, 3 September 1923, *Wagner* (BP 696798); *loc. cit.*, “Tündér-hegy”, 28 May 1924, *Boros* (BP 432562); *loc. cit.*, 12 September 1925, *Lengyel* (BP 300005); *loc. cit.*, “Hunyadi-orom”, 9 May 1948, *Horánszky* (BP 633059); *loc. cit.*, “Hunyadi-orom”, 28 May 2003, *Somlyay* (BP 652428); *loc. cit.*, “Tündér-hegy”, 30 July 2011, *Somlyay* (BP 711304, BP 711305, BP 711306); *loc. cit.*, “Hunyadi-orom”, 26 August 2014, *Somlyay* (BP 734598); *loc. cit.*, “Tündér-hegy”, 26 August 2014, *Somlyay* (BP 734597) – Biatorbágy: Üрге-hegy, 20 September 2003, *Pifkó* (BP 653796) – Budakeszi: Fekete-hegyek, 11 July

1947, *Soó* (DE s. n.); *loc. cit.*, 4 October 2011, *Somlyay* (BP 712134); Kis-Sziklafal, 4 October 2011, *Somlyay* (BP 712130); Mária-szurdok (Kavics-árok), 3 June 2002, *Somlyay* (BP 639074); Nagy-Kopasz, 13 September 1949, *Pócs* (BP 210842) – Budaörs: s. *loc.*, 15 August 1926, *Lengyel* (BP 300003); “Csíki-hegyek”, August 1875, *Sztehlo* (BP 562716); *loc. cit.*, 11 June 1944, *Baksay* (BP 265547); Csík-hegy, 25 September 1950, *Priszter* (BPU 13779); *loc. cit.*, 2 June 2013, *Somlyay* (BP 728910); Farkas-hegy [“Buda”?], 1 October 1882, *Hermann* (BP 595231, BP 562711); Sorrento, 13 July 2002, *Somlyay & Pifkó* (BP 639055); *loc. cit.*, 21 May 2010, *Somlyay* (BP 734858, BP 734859); Szállás-hegy, 1 June 2013, *Somlyay* (BP 728908); Szekrényes, 25 September 1950, *Priszter* (BPU 13780); Törökugrató, 20 May 1929, *Boros* (BP 391004); *loc. cit.*, 20 August 2011, *Somlyay* (BP 711317); Tüzkő-hegy, 28 July 1918, *Degen* (BP 304231); *loc. cit.*, 21 June 2011, *Somlyay* (BP 711341, BP 711342); Út-hegy, 29 June 2013, *Somlyay & Sennikov* (BP 728900, BP 728901, BP 728902) – Nagykovácsi: Kálvária-domb, 2 May 2003, *Somlyay* (BP 652426); Nagy-Szénás, 31 July 1948, *Horánszky* (BP 633080); *loc. cit.*, 1 October 2011, *Somlyay* (BP 728230); Remete-hegy, 12 May 2012, *Somlyay* (BP 728194) – Perbál: Szerdahelyi-vágás, 8 June 2013, *Somlyay* (BP 734798) – Pilisszentiván – Piliscsaba: s. *loc.*, 26 May 1934, *Kárpáti* (BP 391007); Iváni-hegy (Egyeskő, Ördögtorony), 14 May 1905, *Kümmerle & Jávorka* (BP 595226); *loc. cit.*, 12 June 1953, *Boros* (BP 432875); Kis-Szénás, 20 May 1943, *Jávorka & Keller* (BP 595237); *loc. cit.*, “Kis-Hárshegy”, 12 July 2001, *Böhm* (BP 631928); “Nagykovácsi-oldal”, 1 October 2011, *Somlyay* (BP 728231); “Szénás-hegy”, 8 May 1916, *Jávorka* (BP 562699) – Solymár: Szarvas-hegy (Kötők padja), 11 August 2011, *Somlyay* (BP 711311, BP 711312); Tök-hegy, 30 June 2002, *Somlyay* (BP 639035) — Gerecse Mts.: Bajót: Öreg-kő, 26 May 2011, *Somlyay* (BP 711338, BP 711350) – Csabdi: Bagó-hegy, 24 August 2004, *Barina* (BP 657861) – Csolnok: Nagy-Gete, 19 October 1952, *Boros* (BP 432545) – Dorog: Kis-kőszikla, 22 June 1947, *Jávorka* (BP 81384) – Mogyorósbánya: Kő-hegy, 26 May 2011, *Somlyay* (BP 711323)

– Nyergesújfalu: Hajdúugrató, 16 June 2012, *Somlyay & Bauer* (BP 728196); Péter-járás, 16 June 2012, *Somlyay & Bauer* (BP 728197) – Óbarok: Lóingató-hegy, 30 June 1938, *Boros* (BP 432480); *loc. cit.*, 12 May 1986, *Jeney* (BP 672119, BP 672128) – Szárliget: *s. loc.*, 15 May 1932, *Jávorka* (BP 562683, the right-hand fragment); Hajagos, 11 August 1940, *Boros* (BP 432371); Zuppa: 8 September 1949, *Pénzes* (BP 377258); 3 May 1983, *Jeney* (BP 672120, BP 672121); 6 July 2004, *Barina* (BP 658539) – Tatabánya: Felsőgalla, 1 June 1928, *Zsák* (BP 304308, BP 701319, BP 701320); *loc. cit.*, 3 June 1928, *Zsák* (BP 562691, BP 701199, BP 701200); *loc. cit.*, 3 June 1928, *Rigler* (BP 300016, DE *s. n.*); *loc. cit.*, 23 May 1931, *Zsák* (BP 701205); Turul-hegy (Csúcsos-hegy): 31 May 1910, *Lyka* (BP 595239, SZIE *s. n.*); *loc. cit.*, 12 May 1921, *Degen* (BP 304243) — Velence Mts.: Sukoró, Meleg-hegy: 22 April 1934, *Boros* (BP 432481); 22 April 1934, *Kárpáti* (BP 391003) — Vértes Mts.: Csákberény: Csatorna-völgy, 20 June 1935, *Boros* (BP 432431, BP 432759); *loc. cit.*, 19 September 1948, *Papp* (BP 432726); *loc. cit.*, 20[?] September 1948, *Pénzes* (BP 377259); Horog-völgy, 21 May 1950, *Boros* (BP 432268, BP 432270); *loc. cit.*, 21 May 1950, *Vajda* (BP 524322, BP 524323); Kőlik-hegy, 9 June 1936, *Boros* (BP 432427, BP 432454); Meszes-völgy, 29 April 1934, *Boros* (BP 432430); *loc. cit.*, 22 August 1948, *Priszter* (BPU 13778); *loc. cit.*, 9 August 2003, *Németh* (BP 649447); Pap-irtás, 19 September 1948, *Papp* (BP 373814) – Csákvár: Badacsony-hegy, 20 May 1934, *Boros* (BP 432457); Kis-Tábor-hegy, 14 May 1961, *Boros* (BP 448777); Kotló-hegy, 1 July 1935, *Boros* (BP 432351, the lower fragment); Nagy-hegy, 14 June 1936, *Boros* (BP 432447) – Csókakő: *s. loc.*, 19 September 1948, *Pénzes* (BP 375128); Vár-hegy, 5 May 1949, *Papp* (BP 204322, EGR *s. n.*) – Gánt: *s. loc.*, 24 May 1936, *Boros* (BP 432459); Gém-hegy, 18 September 1950, *Kárpáti* (BP 701216); Juh-völgy, 24 May 1953, *Boros* (BP *s. n.*); *loc. cit.*, 24 May 1953, *Vajda* (BP 196740); *loc. cit.*, 15 May 2004, *Németh* (BP 696921); Kápolnapusztá, 7 June 1953, *Vajda* (BP 196742); Kőhányás-pusztá, 14 May 1933, *Boros* (BP 432888); Meleges – Gém tisztás, 23

May 1992, *Jeney* (BP 672134) – Oroszlány-Mindszentpuszta: Hajszaabarna, 8 September
 1937, *Boros* (BP 432455) – Várgesztes: Lófő, 12 May 1935, *Boros* (BP 432460) — Bakony
 Mts.: Bakonyszentlászló-Vinyesándormajor: Pápalátó-kő, 22 May 1928, *Rédl* (BP 592361) –
 Bodajk: Gaja-szurdok, 4 June 1950, *Horánszky* (BP 629934) – Isztimér, Burok-völgy: 12
 June 1949, *Papp* (BP 373831); 12 June 1949, *Pénzes* (BP 377261); 2 August 2003, *Németh*
 (BP 649436) – Sáska, Magyal-hegy: 25 June 2001, *Bauer* (BP 699499); 23 August 2013,
Somlyay & Bauer (BP 728897) – Szentgál, Miklós Pál-hegy: 13 May 1927, *Jávorka* (BP *s.*
n.); 6 June 1949, *Boros* (BP 432306) – Tés: Bér-hegy, 21 May 1926, *Jávorka* (BP 562689) –
 Várpalota: *s. loc.*, 12 June 1949, *Károlyi* (BP 299475); Baglyas-hegy, 16 May 1932, *Boros*
 (BP 432666, BP 432667); *loc. cit.*, 15 May 1955, *Boros* (BP 448727); Hideg-völgy, 7 June
 1930, *Jávorka* (BP *s. n.*); Hosszú-bérc, 20 May 1951, *Boros* (BP 432350); Pátyi-domb, 8
 September 2009, *Bauer* (BP 700192); Vár-völgy, 14 June 1954, *Vajda* (BP 199433); *loc. cit.*,
 14 May 2002, *Pifkó & Somlyay* (BP 638715) – Veszprém-Gyulafirátót: Répás-árok, 19
 September 2008, *Bauer* (BP 699513) — Balaton Uplands: Badacsonytördemic, Badacsony: 4
 June 1893, *Borbás* (BP 595234); “Közsákok”, 8 August 1952, *Papp* (BP 373836); “Bujdosók
 lépcsője”, 15 September 2011, *Somlyay & Bauer* (BP 711372) – Balatonalmádi: Malom-
 völgy, 22 May 1899, *Pillitz* (BP 252559) – Balatonalmádi – Szentkirályszabadja, Vár-hegy:
 17 May 1900, *Pillitz* (BP 252561); 8 August 1902, *Pillitz* (BP 252472); 22 May 1928, *Soó*
 (CL 533463) – Balatonfüred-Arács: Koloska-sziklák, 20 May 1963, *Boros* (BP 448794) –
 Csepak: Kopasz-domb, 10 August 2010, *Somlyay & Bauer* (BP 728377) – Gyulakeszi –
 Tapolca, Csobánc: 12 June 1925, *Jávorka* (BP 562688); 16 September 2010, *Somlyay &*
Bauer (BP 710664); 27 July 2013, *Somlyay* (BP 728911) – Kisapáti – Tapolca, Szentgyörgy-
 hegy: 19 August 1933, *Szepesfalvy* (BP 198248); 19 May 1949, *Boros* (BP 432580); 19 May
 1949, *Károlyi* (BP 377260); 30 September 1950, *Kárpáti* (BP 701208, BP 701213); 30
 September 1950, *Papp* (EGR *s. n.*); 31 July 1955, *Siroki* (DE *s. n.*); 10 July 1957, *Jeney* (BP

672113, BP 672114); 21 October 2006, *Bauer* (BP 699520); 16 September 2010, *Somlyay & Bauer* (BP 710662, BP 710663); 25 July 2013, *Somlyay* (BP 728914, BP 728915) – Lovas: Malom-völgy, 6 July 1936, *Jávorka* (BP 702562) – Szentbékakála: Keleményes-kő, 25 July 2013, *Somlyay* (BP 728912, BP 728913) – Szentkirályszabadja, Kő-hegy: 22 June 1963, *Boros* (BP 448718, BP 646165, BP 646166); 28 June 2012, *Somlyay & Bauer* (BP 728368) – Tihany, Óvár (“Remetelakások”): 8 July 1923, *Jávorka* (BP 595224); 21 May 1924, *Jávorka* (BP 562702) – Vászoly, Nagyvár-tető (Bab-völgy): 27 June 1950, *Felföldy* (DE s. n.); 22 June 1955, *Boros* (BP 448739); 28 June 2012, *Somlyay & Bauer* (BP 728367) – Zalahaláp: Haláp, 23 August 2013, *Somlyay & Bauer* (BP 728898, BP 728899) – Zánka: Hegyes-tető, 6 July 1936, *Jávorka* (BP 702563) — Mt. Somló: Somlóvásárhely: Somló-hegy, 20 August 1951, *Boros* (BP 432793, BP 432794) — Keszthely Mts.: Balatonyörök: Bodorszállás, 18 September 1949, *Vajda* (BP 524635); *loc. cit.*, 15 May 1950, *Boros* (BP 432211); *loc. cit.*, 15 May 1950, *Vajda* (BP 524316); Kígyós-völgy, 18 September 1949, *Priszter* (BPU 13812); Ló-hegy, 4 June 2014, *Somlyay & Bauer* (BP 734817) – Cserszegtomaj: Csóka-kő, 15 September 2011, *Somlyay & Bauer* (BP 711373) – Gyenesdiás: s. *loc.*, 8 May 1953, *Siroki* (DE s. n.); 26 August 1962, *Károlyi* (BP 299489); Csider-völgy, 27 May 1945, *Máthé* (BP 720043, BP 720046, BP 720048, BP 720049, BP 720050, BP 720051, BP 720067); *loc. cit.*, 29 September 1950, *Papp* (EGR s. n.); Öreg-Szék-tető: 20 July 1951, *Stieber* (BP 631307); *loc. cit.*, 3 September 2006, *Bauer* (BP 699510); *loc. cit.*, “Köves-árok”, 18 May 2007, *Bauer* (BP 699507) – Vállus: Kis-Láz-tető, 6 June 1950, *Boros* (BP 432413, BP 432414) — Mecsek Mts.: Cserkút – Kővágószőlős: Jakab-hegy, 7 June 1922, *Kümmmerle & Jávorka* (BP 562685).